

## **STATE Breakout**

### **DEADLIEST AMERICAN DISASTERS AND LARGE LOSS-OF-LIFE EVENTS**

**A Catalog of, and Notes on, Natural and Man-Made Events Causing Ten or More Fatalities  
in America/The United States and its Territories -- Since 1527**

**Homepage: <http://www.usdeadlyevents.com/>**

**Alphabetically Arranged  
(All States, the District of Columbia, and Territories)**

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If an entry is in the “other” category following a State numbered listing it is because the deaths are less than ten or, in the case of diseases, the death rate is below the national average.

**March 17, 2024**

#### **Go to Homepage to access:**

**Event Typology** (e.g. aviation, epidemics, explosions, fires heat, mining, hurricanes, violence).  
[https://www.usdeadlyevents.com/wp-content/uploads/2021/02/Typology-v-34\\_to.pdf](https://www.usdeadlyevents.com/wp-content/uploads/2021/02/Typology-v-34_to.pdf)

**States, District of Columbia and Territories Breakout**  
[https://www.usdeadlyevents.com/wp-content/uploads/2021/02/States-v-34\\_to.pdf](https://www.usdeadlyevents.com/wp-content/uploads/2021/02/States-v-34_to.pdf)

**Rank-ordering within Types by State**  
[https://www.usdeadlyevents.com/wp-content/uploads/2021/02/Rank-Orderingwithin-types-State-v34\\_to.pdf](https://www.usdeadlyevents.com/wp-content/uploads/2021/02/Rank-Orderingwithin-types-State-v34_to.pdf)

**Mortality Raking (Down to 500 Deaths)**  
[https://www.usdeadlyevents.com/wp-content/uploads/2020/11/mortality-v32\\_to.pdf](https://www.usdeadlyevents.com/wp-content/uploads/2020/11/mortality-v32_to.pdf)

**Spreadsheet.** (Includes URLs for several thousand documents on right side of page, containing narrative information and sources. These documents range in length from one to over one hundred pages – most are several pages or more.)  
<https://www.usdeadlyevents.com/spreadsheet/>

**Chart showing the State with the highest number of events by type (10 or more deaths)**  
[https://www.usdeadlyevents.com/wp-content/uploads/2020/09/Chart-showing-State-with-Highest-Number-of-Events-v31\\_to.pdf](https://www.usdeadlyevents.com/wp-content/uploads/2020/09/Chart-showing-State-with-Highest-Number-of-Events-v31_to.pdf)

**About this project documents: <https://www.usdeadlyevents.com/about-project/>**

			<b>Alphabetical Order</b>
1.	Alabama	400	
2.	Alaska	167	
3.	Arizona	248	
4.	Arkansas	318	
5.	California	745	
6.	Colorado	208	
7.	Connecticut	167	
8.	Delaware	73	
9.	District of Columbia	127	
10.	Florida	341	
11.	Georgia	373	
12.	Hawaii	78	
13.	Idaho	87	
14.	Illinois	558	
15.	Indiana	378	
16.	Iowa	214	
17.	Kansas	183	
18.	Kentucky	391	
19.	Louisiana	444	
20.	Maine	143	
21.	Maryland	245	
22.	Massachusetts	542	
23.	Michigan	436	
24.	Minnesota	227	
25.	Mississippi	341	
26.	Missouri	465	
27.	Montana	125	
28.	Nebraska	147	
29.	Nevada	98	
30.	New Hampshire	95	
31.	New Jersey	399	
32.	New Mexico	202	
33.	New York	876	
34.	North Carolina	400	
35.	North Dakota	67	
36.	Ohio	491	
37.	Oklahoma	276	
38.	Oregon	190	
39.	Pennsylvania	760	Puerto Rico 25
40.	Rhode Island	96	
41.	South Carolina	334	
42.	South Dakota	100	
43.	Tennessee	434	
44.	Texas	608	
45.	Utah	77	
46.	Vermont	89	
47.	Virginia	379	
48.	Washington	227	
49.	West Virginia	256	
50.	Wisconsin	285	
51.	Wyoming	54	

			<b>Deadliest State Listing by Incidence Rate–High to Low</b>
1.	New York	876	
2.	Pennsylvania	760	
3.	California	745	
4.	Texas	608	
5.	Illinois	558	
6.	Massachusetts	542	
7.	Ohio	491	
8.	Missouri	465	
9.	Louisiana	444	
10.	Michigan	436	
11.	Tennessee	434	
12.	Alabama	400	
13.	North Carolina	400	
14.	New Jersey	399	
15.	Kentucky	391	
16.	Virginia	379	
17.	Indiana	378	
18.	Georgia	373	
19.	Florida	341	
20.	Mississippi	341	
21.	South Carolina	334	
22.	Arkansas	318	
23.	Wisconsin	285	
24.	Oklahoma	276	
25.	West Virginia	256	
26.	Arizona	248	
27.	Maryland	245	
28.	Minnesota	227	
29.	Washington	227	
30.	Iowa	214	
31.	Colorado	208	
32.	New Mexico	202	
33.	Oregon	190	
34.	Kansas	183	
35.	Alaska	167	
36.	Connecticut	167	
37.	Nebraska	147	
38.	Maine	143	
39.	District of Columbia	127	
40.	Montana	125	
41.	South Dakota	100	
42.	Nevada	98	
43.	Rhode Island	96	
44.	New Hampshire	95	
45.	Vermont	89	
46.	Idaho	87	
47.	Hawaii	78	
48.	Utah	77	
49.	Delaware	73	
50.	North Dakota	67	
51.	Wyoming	54	
			Puerto Rico 25

## Color Key

**Avalanche/Snowslide**

**Aviation**

**Carbon Monoxide/Gasoline Fumes Poisoning**

**Disease (Communicable)<sup>1</sup>**

**Drownings**

**Dust Storms**

**Earthquakes**

**Environmental (Smog)**

**Explosions**

**Fire, Structural**

**Fire, Wildfires, Forest, Prairie Fires**

**Flooding**

**Fog as a contributing factor**

**Hailstorm**

**Heat Wave**

**Hurricanes and Tropical Storms**

**Landslides, Mudslides, Debris Flows**

**Lightning**

**Maritime and Inland Waterways.**

**Mining**

**Rail**

**Starvation/Famine**

**Structural Failure**

**Tainted Food, Drugs, Medications (unintentional poisoning)**

**Tornadoes**

**Tsunami**

**Vehicular -- Road/Highway**

**Violence**

**Volcano eruption**

**Wind Storms/Severe Thunderstorms**

**Wood Alcohol Poisoning**

**Winter Weather, Snow and Cold/Hypothermia**

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<sup>1</sup> When a disease is listed in the “Other” category, this frequently means that the death rate was lower than US avg.

## AL

## Alabama

1. 1540 -- Oct 18, Spanish (de Soto) battle/**massacre**, with Atahachi, Mabila, AL --2,500-6,000
2. 1813 -- Aug 30, Creeks **massacre** militia/settlers, Fort Mims, Baldwin County, AL --250-400
3. 1813 -- Sep 1, Creek Indians **massacre** two families in Clarke County, AL -- 12
4. 1813 -- Nov 03, Tallushatchee battle/**massacre**, Gen. Coffee destroys Creek vil., AL -- 300
5. 1813 -- Nov 18, Hillabee **massacre**, US Troops attack Creek village suing for peace, AL-- 61
6. 1819 -- July 27-28, **Bay St. Louis Hurricane**, Mobile AL (also LA and MS) --43-200
7. 1819 -- Aug 15-Nov 30, **yellow fever** epidemic, Mobile, AL -- 274
8. 1825 -- July-Oct, **yellow fever** epidemic, Mobile, AL -- >55
9. 1829 -- Fall, 1<sup>st</sup> case Aug 14, **yellow fever** epidemic, Mobile, AL -- 130
10. 1836 -- Mar 13, steamboat **Ben Franklin** boiler explosion near wharf, Mobile, AL --13-30
11. 1837 -- Sep 20-Nov 30, **yellow fever**, Mobile; and Creeks at Mobile Pt., Pass Christ. 230-350
12. 1839 -- Aug 11-Oct 20, **yellow fever** epidemic, Mobile, AL -- 650
13. 1841 -- **yellow fever**, Mobile, AL<sup>2</sup> --  $\geq$ 10
14. 1842 -- Feb 25, steamboat **North Star** boiler explosion and fire, Tuscaloosa, AL --15-16  
1842 -- June 16, tornado, Adams County, MS -- **do not think this happened** -- 500
15. 1842 -- Aug 20 start, **yellow fever** epidemic, Mobile, AL --66-70
16. 1843 -- Aug 18-Nov 5, **yellow fever** epidemic, Mobile, AL 240-750
17. 1844 -- Aug 14 start, **yellow fever** epidemic, Mobile, AL -- 40
18. 1847 -- Jan 28, steamer **Tuscaloosa** boiler explosion/fire, Mobile riv., 10M no. of Mobile AL--~25
19. 1847 -- Aug 02, start, **yellow fever** epidemic, Mobile, AL --76-78
20. 1848 -- May 27, steamboat **H. Kenney** boiler explosion, Tombigbee River, AL -- 8-50
21. 1848 -- Aug 18, 1<sup>st</sup> case, **yellow fever** epidemic, Mobile, AL --24-76
22. 1849 -- summer-winter, **cholera** epidemic, especially Mobile (149), AL -- 336
23. 1849 -- **yellow fever**, Mobile, AL --21-50
24. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 9,091 AL deaths -- 329
25. 1850 -- **typhoid fever**, subset 13,099 typhoid fever deaths, 36 states/DC/territories -- 328
26. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 305
27. 1850 -- Mar 04, steamer **Orline St. John** burns/sinks, Ala. Riv. ~Bridgeport Landing, AL --39-41
28. 1850 -- Nov 21, 25 or 26, steamer **Antoinette Douglas** boiler explosion, AL Riv., AL -- 9-30
29. 1851 -- Feb? **cholera**, steamer **Arkansas**, Tallapoosa River, Mobile to Wetumpka, AL-- 52
30. 1853 -- July 13-Dec 16, **yellow fever**, Dog River, Mobile, Montgomery, Selma, AL ---~1,293
31. 1854 -- Sep-Nov, **yellow fever**, especially Montgomery, AL -- 45
32. 1855 -- Sep-Oct, **yellow fever**, Montgomery, (a few deaths in Mobile); AL -- 33
33. 1858 -- Mar 01, steamer **Eliza Battle** fire,<sup>3</sup> Tombigbee Ri. Kemps Landing ~Demopolis AL-- 29
34. 1858 -- Aug, 1<sup>st</sup> case, **yellow fever** epidemic, Mobile, AL -- 70
35. 1860 -- **croup** (contagious upper airway viral infection), 15,188 US croup deaths; AL -- 423
36. 1860 -- **scarlet fever** (subset of 26,402 deaths in 38 Census States & DC); AL -- 251
37. 1860 -- **typhoid fever**, subset (2<sup>nd</sup> highest cause of death in AL), 19,236 US deaths; AL--836
38. 1860 -- **whooping cough** (subset of 8,408 US whooping cough deaths); AL -- 334

<sup>2</sup> We guesstimate at least ten died. From Providence Hospital, Mobile, website, "History of Providence Hospital," "Persistent bouts of yellow fever plagued Mobile throughout the 1800s, and in 1841, Mobile's...bishop...asked the Sisters [of Charity] to come...to care for children who lost their parents to this...Four Sisters from Emmitsburg [MD] arrived that year to work at the Catholic Orphans' Asylum (the facility we now know as St. Mary's Home.)"

<sup>3</sup> All of the deaths were attributed to exposure to the freezing elements in the river and onshore by U.S. SIS.

**Alabama (continued):**

39.	1860 -- Sep 17-18, storm, <b>R. H. Dixie</b> wrecked, Bay of Mobile, off AL	-- 16
40.	1860 -- Nov 03, steam towboat <b>Baltic</b> boiler explosion, Mobile Bay ~Mobile, AL	-- ≤20
41.	1865 -- <b>smallpox</b> , Mobile (also in Montgomery, but we do not know numbers), AL	-- 101
42.	1865 -- May 25, <b>Mobile Magazine explosion</b> , Mobile AL	-- 300
43.	1867 -- Sep-Dec 1, <b>yellow fever</b> , especially Mobile (13) and Fort Morgan (12)	-- 26
44.	1867 -- Nov 17, steamboat <b>Onward</b> burns, Alabama River, Bells Ledge, AL	-- 11
45.	1868 -- May 05, <b>tornadoes</b> , Pickens, Tuscaloosa, Talladega Counties, AL	-- 12
46.	1870 -- <b>croup</b> (AL subset of 10,692 deaths nationwide)	-- 258
47.	1870 -- <b>diarrhoea</b> (335), <b>dysentery</b> (203), and <b>enteritis</b> (129) from US Census	-- 667
48.	1870 -- <b>measles</b> ; AL subset of 9,237 US measles deaths; 7 <sup>th</sup> largest state loss	-- 403
49.	1870 -- Sep 18-Nov 15, <b>yellow fever</b> , Mobile, AL	-- 173
50.	1871 -- Aug 27, steamboat <b>Ocean Wave</b> boiler explosion, Point Clear ~Mobile, AL	--34-75
51.	1873 -- June-Aug, <b>cholera</b> epidemic, especially Birmingham and Huntsville, AL	--165-196
52.	1873 -- Aug 22-Nov 19, <b>yellow fever</b> , Montgomery, also Mobile, Huntsville, et al.	--151-159
53.	1874 -- Nov 22, <b>tornadoes</b> , Colbert, Lauderdale, Shelby Counties, AL	--12-16
54.	1875 -- May 01, <b>tornadoes</b> (2) AL	-- 37
55.	1878 -- Aug-Nov 10, <b>yellow fever</b> , esp. Decatur, Florence, Mobile, Tuscumbia	--240-279
56.	1879 -- June-May 1880, <b>malarial fever</b> ; AL subset (2 <sup>nd</sup> highest), 20,231 US deaths	--1,232
57.	1879 -- June-May 1880, <b>tuberculosis</b> ; AL subset of 91,270 US TB deaths	--1,694
58.	1879 -- June-May 1880, <b>typhoid fever</b> ; AL subset of 23,339 US typhoid deaths	-- 776
59.	1883 -- <b>smallpox</b> , essentially Greenport (17 by April 18), Hickory Flat (1)	-- 18
60.	1883 -- Sep 12-Nov 6, <b>yellow fever</b> outbreak, Brewton, AL	-- 28
61.	1884 -- Feb 19, <b>tornadoes</b> , especially Jefferson, Pike, Shelby, St. Clair Counties	--27-210
62.	1884 -- Apr 02, <b>tornadoes</b> , Blount and Madison Counties, AL	-- 10
63.	1885 -- Nov 06, <b>tornado</b> , Dallas County, Near Selma, AL	-- 13
64.	1886 -- Dec 28, <b>fire</b> , steamer/boarding house <b>Bradish Johnson</b> , Jackson, AL	-- ~24
65.	1887 -- Mar 01, steamer <b>W.H. Gardner</b> burns, Tombigbee riv., ~3m below Gainesville, AL	20-21
66.	1888 -- Sep 11-Nov 04, <b>yellow fever</b> epidemic, Decatur (35), scattered refugees, AL	-- 39
67.	1888 -- Dec 08, Hawes <b>lynch mob</b> fired on, Jefferson Co. Jail, Birmingham, AL	--10-15
68.	1889 -- June, to May 1890, <b>croup</b> , subset of 13,862 US croup deaths; AL	-- 368
69.	1889 -- June, to May 1890, <b>measles</b> , subset of 9,256 US measles deaths; AL	-- 496
70.	1889 -- June, to May 1890, <b>typhoid fever</b> , subset of 27,058 US typhoid deaths; AL	-- 874
71.	1891 -- May 22, <b>mine</b> explosion, Pratt No. 1 Shaft Coal Mine, Pratt City, AL	-- 11
72.	1893 -- Oct 01-02, <b>Hurricane Cheniere Caminanda</b> , Mobile, AL (~2,000 in LA)	-- 12
73.	1894 -- June, labor <b>violence</b> , coal miner strike and violence, North AL	-- 10
74.	1896 -- <b>measles</b> , statewide, AL	-- ≥14
75.	1897 -- Sep-Nov, <b>yellow fever</b> , esp. Mobile (48), Montgomery (11), Whistler (8) AL	-- 90
76.	1898 -- Aug 02, <b>hurricane</b> , tugboat <b>Nimrod</b> capsizes, crew lost, off Cape San Blass, FL <sup>4</sup>	--12
77.	1899 -- Mar 18, <b>tornadoes</b> (3), AL	-- 16
78.	1900 -- <b>croup</b> (upper airway viral infection); AL	-- 579
79.	1900 -- <b>dysentery</b> ; subset (highest State loss), 11,710 US dysentery deaths; AL	-- 861
80.	1900 -- <b>influenza</b> , subset, 16,645 US influenza deaths; 5 <sup>th</sup> highest of any state; AL	-- 778
81.	1900 -- <b>malarial fever</b> (14,874 US malarial fever deaths; 4 <sup>th</sup> highest state loss); AL	--1,005

<sup>4</sup> Listed herein in that the *Nimrod* was owned and operated out of Mobile, and was thus a Mobile loss.

**Alabama (continued):**

82.	1900 --	<b>measles</b> ; subset of 12,866 US measles deaths; AL	-- 428
83.	1900 --	<b>smallpox</b> ; subset, 8,484 US smallpox deaths; 5 <sup>th</sup> highest of any state; AL	-- 24
84.	1900 --	<b>tuberculosis</b> ; AL subset of 109,750 US TB deaths; leading cause of death in AL	--2,666
85.	1900 --	<b>typhoid fever</b> ; subset (6 <sup>th</sup> highest), 35,379 US typhoid fever deaths; AL	--1,713
86.	1900 --	<b>whooping cough</b> ; subset, 9,958 US whooping cough deaths; AL 4 <sup>th</sup> highest	-- 494
87.	1901 --	Mar 25, <b>tornado</b> , Jefferson Co. (Birmingham/Avondale/Irondale), AL	--16-25
88.	1902 --	Mar 26-27, <b>flooding</b> , especially northwest of Decatur, AL	-- 11
89.	1902 --	Sep 01, <b>excursion train derailment</b> , Southern Railway, near Berry, AL <sup>5</sup>	-- 30
90.	1902 --	Sep 20, Shiloh Church <b>stampede deaths</b> , Birmingham, AL	-- 115
91.	1903 --	Apr 08, <b>tornadoes</b> (2), Leesburg, Hopewell, Summit, AL	-- 20
92.	1903 --	May 24, <b>tornadoes</b> (3), Franklin, Kearney, Adams, Webster, Clay Co. AL	-- 14
93.	1904 --	Jan 22, <b>tornado</b> , Hale-Tuscaloosa Counties (Moundville), AL	-- 37
94.	1905 --	Feb 20, <b>mine</b> explosion, Coal Mine Virginia City, AL	-- 160
95.	1906 --	Feb 27, <b>mine</b> explosion, Little Cahaba Coal Mine, Piper, AL	-- 12
96.	1906 --	Sep 27, <b>Hurricane</b> , especially southern Mobile County, also Baldwin Co., AL	--≥109
97.	1907 --	Dec 16, "Windy shot" & dust explosion, Yolande No. 1 coal <b>mine</b> , Yolande, AL	-- ~57
98.	1908 --	Apr 24, <b>tornadoes</b> (three) AL	--37-48
99.	1909 --	Feb 02, <b>mine</b> explosion, Short Creek Coal Mine, Short Creek, AL	-- 18
100.	1909 --	Oct 14, storm and <b>tornadoes</b> , Franklin, Marshall, Jackson Counties, AL	--11-21
101.	1910 --	Apr 20, <b>mine</b> explosion, Mulga Coal Mine Mulga, AL	-- 40
102.	1910 --	May 05, <b>mine</b> explosion, Coal Mine No. 3, Palos/Birmingham, AL	-- 84
103.	1911 --	Apr 08, <b>mine</b> explosion, Banner coal mine, Pratt Consolidated, Littleton	--128-129
104.	1912 --	Aug 13, <b>mine</b> explosion, Abernant Coal Mine, Abernant, AL	-- 18
105.	1913 --	Jan 09, <b>Jas. T. Staples</b> boiler explosion, Tombigbee River, near Mobile, AL	--15-16
106.	1913 --	Mar 13/14, <b>tornadoes</b> , Bullock, Calhoun, Etowah, Macon, Montgomery Co.--	10
107.	1913 --	Mar 21, <b>tornadoes</b> (4), AL	-- 34
108.	1913 --	Nov 13, <b>three train coaches derail</b> down embankment, near Clayton, AL	-- ~10
109.	1913 --	Nov 18, <b>mine</b> explosion, Acton No. 2 Coal Mine, Acton, AL	-- 24
110.	1914 --	Jan 10, <b>mine</b> explosion, Rock Castle Coal Mine, Rock Castle, AL	-- 12
111.	1914 --	Sep 18, <b>sabotage, train derailment</b> , Livingston, AL	-- 10
112.	1914 --	Oct 05, <b>mine</b> explosion, Mulga Coal Mine, Mulga, AL	-- 16
113.	1916 --	July-Sep (especially) <b>Polio</b> epidemic, especially children, Statewide, AL	-- 51
114.	1916 --	Oct 22, <b>mine explosion</b> , Marvel (Roden Mine) Coal Mine, Marvel, AL	-- 18
115.	1916 --	Nov 04, <b>mine explosion</b> , Bessie Coal Mine, Palos, AL	-- 30
116.	1917 --	Feb 23, <b>tornadoes</b> , Hale, Perry, Elmore, Coosa, Clay Counties, AL	-- 16
117.	1917 --	Mar 26-27, <b>tornadoes</b> (2), Pike, Crenshaw, Hale Counties, AL	-- 10
118.	1917 --	May 27-28 <b>tornadoes</b> (7), AL	-- 50
119.	1918 --	<b>typhoid fever</b> ; subset of 9,100 US typhoid deaths; 6 <sup>th</sup> highest State loss; AL	-- 598
120.	1918 --	Jan 11, <b>tornado</b> , Pike and Houston Counties (especially Webb), AL	-- 13
121.	1918-1919 --	<b>influenza and pneumonia</b> epidemic, AL	--16,381
		1918 -- <b>influenza and pneumonia</b> epidemic, AL	--11,328
		1919 -- <b>influenza and pneumonia</b> epidemic, AL	--5,053
122.	1919 --	Apr 19, <b>mine</b> explosion, Majestic Coal Mining Co., Birmingham, AL	-- 16

<sup>5</sup> Listed as well in Mississippi -- was a MS excursion train and the great majority of fatalities were from MS.



**Alabama (continued):**

123.	1919 -- Apr 29, <b>mine</b> explosion, Majestic Coal Mine, Majestic, AL	-- 22
124.	1920 -- Mar 28, <b>tornadoes</b> , Calhoun, Chambers, Elmore, Tallapoosa Counties	-- 18
125.	1920 -- Apr 20, <b>tornadoes</b> , AL	-- 92
126.	1920 -- Nov 23, <b>mine</b> explosion, Parrish Coal Mine, Parrish, AL	-- 12
127.	1921 -- Apr 16, <b>tornadoes</b> , AL	-- 15
128.	1922 -- May 25, <b>mine</b> explosion, Acmar No. 3 Coal Mine, Acmar, AL	-- 11
129.	1922 -- Nov 22, <b>mine</b> explosion, Coal Mine No. 3, Dolomite, AL	-- 90
130.	1924 -- Apr 30, <b>tornadoes</b> , AL	-- 13
131.	1924 -- May 26-27, <b>tornadoes</b> , AL	-- 24
132.	1925 -- <b>diphtheria</b> (AL subset, 8,058 US diphtheria deaths)	-- 170
133.	1925 -- <b>dysentery</b> (AL subset, 10 <sup>th</sup> highest, 3,257 US dysentery deaths)	-- 122
134.	1925 -- exposure to <b>excessive natural heat</b> (subset of 1,587 US heat deaths); AL	-- 15
135.	1925 -- <b>influenza</b> (AL subset, 8 <sup>th</sup> highest, 30,538 US influenza deaths)	--1,167
136.	1925 -- <b>malaria</b> (AL subset, 2,132 US malaria deaths; 3 <sup>rd</sup> highest death toll in US)	-- 306
137.	1925 -- <b>smallpox</b> (AL subset, 709 US smallpox deaths in 1925, 48 registration states--	21
138.	1925 -- <b>tuberculosis</b> (AL subset, 89,268 US tuberculosis deaths)	--2,501
139.	1925 -- <b>typhoid/paratyphoid fever</b> (subset of 8,287 US typhoid fever deaths)	-- 421
140.	1925 -- <b>whooping cough</b> (AL subset, 6,948 US whooping cough deaths)	-- 238
141.	1925 -- Oct 25, <b>tornado</b> , Pike-Bullock-Barbour-Crenshaw Counties, AL	-- 18
142.	1925 -- Dec 10, <b>mine</b> explosion, Overton No. 2 Coal Mine, Irondale, AL	-- 53
143.	1926 -- Jan 29, <b>mine</b> explosion, Mossboro No. 1 Coal Mine, Helena, AL	-- 27
144.	1929 -- May 27, <b>mine</b> explosion, Connellsville Coal Mine, Yolande, AL	-- 10
145.	1931 -- <b>epidemic cerebrospinal meningitis</b> (Census name; 2,832 US such deaths)	-- 92
146.	1931 -- <b>diphtheria</b> , especially children (AL subset, 5,738 U.S. diphtheria deaths)	-- 203
147.	1931 -- <b>influenza</b> (AL subset of 31,701 influenza deaths nationwide)	--1,054
148.	1931 -- <b>malaria</b> (AL subset, 2,536 malaria deaths nationwide)	-- 213
149.	1931 -- <b>measles</b> (AL subset, 3,576 measles deaths nationwide)	-- 172
150.	1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths	--2,327
151.	1931 -- summer, <b>excessive heat</b> deaths (AL subset of 2,768 excessive heat deaths)	-- 14
152.	1932 -- Jan 12, <b>tornadoes</b> , Hale, Tuscaloosa, Marengo, Perry Counties, AL	-- 10
153.	1932 -- Mar 21, <b>tornadoes</b> , esp. counties of Perry, Jackson, Talladega, Cullman	--268-286
154.	1933 -- May 5, <b>tornadoes</b> , Brent/SE Centreville/Helena & Choctaw/Sumter, AL	-- 25
155.	1934 -- Summer, <b>excessive heat</b> deaths; subset of 3,250 US heat deaths, AL	-- 17
156.	1936 -- Jan 31, <b>highway</b> accident & fire, prison transport van, Scottsboro, AL	-- 20
157.	1936 -- July-Aug (especially), <b>heatwave</b> (4,678-5,000 US heat deaths), AL	-- 11
158.	1937 -- By Feb 15 (generally), <b>flooding</b> , illness, AR flood refugees in AL camps	-- 10
159.	1937 -- Sep 24-Oct 17, <b>Elixir Sulfanilamide</b> medicine (diethylene glycol) poisonings-9-11	
160.	1937 -- Oct 15, <b>mine</b> explosion, Mulga Coal Mine, Mulga, AL	-- 34
161.	1938 -- Apr 07, <b>tornado</b> , Near Aliceville, Pickens County, AL	-- 11
162.	1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (AL subset, 1,997 US diphtheria deaths)--	77
163.	1939 -- <b>influenza and pneumonia</b> (AL subset, 99,097 US flu/pneumonia deaths)	--2,895
164.	1939 -- <b>malaria</b> (AL subset, 5 <sup>th</sup> highest, 1,761 US malaria deaths)	-- 198
165.	1939 -- <b>tuberculosis</b> (AL subset of 61,609 tuberculosis deaths nationwide)	--1,436
166.	1939 -- <b>whooping cough</b> (AL subset, 3 <sup>rd</sup> highest, 3,026 US whooping cough deaths)--	166



**Alabama (continued):**

167.	1939 --	summer, <b>excessive natural heat</b> ; subset of 527-1,073 US heat deaths; AL	-- 15
168.	1940 --	<b>influenza and pneumonia</b> (AL subset of 92,525 US flu/pneumonia deaths)	--2,654
169.	1940 --	<b>malaria</b> (AL subset, highest in nation, of 1,442 U.S. malaria deaths)	-- 204
170.	1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); AL rate was 20.7	-- 586
171.	1940 --	<b>tuberculosis</b> (AL subset of 55,576 tuberculosis deaths nationwide)	--1,383
172.	1940 --	<b>whooping cough</b> (AL subset of 2,926 whooping cough deaths nationwide)	-- 120
173.	1941 --	<b>measles</b> , especially children (AL subset of 2,279 U.S. Measles deaths)	-- 114
174.	1941 --	July 10, <b>mine</b> explosion, Acmar No. 6 Coal Mine, Acmar, AL	-- 11
175.	1941 --	Oct 26, Greyhound <b>bus</b> hits concrete railing, burns, Clanton, AL	-- 17
176.	1942 --	Dec 5, USAAF C-47 approach <b>plane crash</b> , ~Maxwell Field, Montgomery, AL	--12
177.	1943 --	Jan 26, <b>plane crash</b> , U.S. Army AF Douglas B-23 Dragon, Flomaton, AL	-- 10
178.	1943 --	May 11, <b>mine</b> explosion, Praco No. 10 Coal Mine, Praco, AL	-- 12
179.	1943 --	Aug 28, <b>mine</b> explosion, Sayreton No. 2 Coal Mine, Sayreton, AL	-- 28
180.	1944 --	<b>cerebrospinal meningitis</b> (subset 2,812 US cerebrospinal meningitis deaths)	-- 78
181.	1944 --	<b>influenza</b> (AL subset of 17,320 US influenza deaths), esp. Jan-Apr, Dec	-- 616
182.	1944 --	<b>measles</b> , esp. Jan-June (AL subset, 6 <sup>th</sup> highest, of 1,923 US measles deaths)	-- 86
183.	1944 --	<b>tuberculosis</b> (AL subset of 54,731 tuberculosis deaths nationwide)	--1,269
184.	1944 --	<b>whooping cough</b> (AL subset of 1,878 whooping cough deaths nationwide)	-- 87
185.	1945 --	Jan 17, <b>USAAF B-17F engine fire and crash</b> 6M NW of Bay Minette, AL	-- 11
186.	1945 --	Feb 12, <b>tornadoes</b> , especially Montgomery (26), Livingston (9), York (1)	-- 38
187.	1945 --	May 7, <b>fire</b> , Victory House (war workers lodging), Mobile, AL	-- 12
188.	1945 --	Sep 7, <b>plane fire and crash</b> , USAAF B-29, 4½ miles south, Wedowee, AL	-- 10
189.	1948 --	July 30, TCI Co., <b>mine</b> gas explosion, Edgewater Coal Mine ~Birmingham, AL	--11
190.	1949 --	Nov 24, <b>tornadoes</b> , Blount/4, DeKalb/1 and Tallapoosa/10 counties, east AL	-- 15
191.	1950 --	<b>measles</b> ; subset of 468 US polio deaths	-- 12
192.	1950 --	Nov 24-27, winter <b>"Storm of the Century,"</b> subset for AL	-- 13
193.	1951 --	<b>diphtheria</b> ; 302 US deaths; 13 States in double digits; subset for AL	-- 26
194.	1951 --	<b>measles</b> , 688 US deaths; subset for AL	-- 21
195.	1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths; AL	--40-41
196.	1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths; AL subset	-- 787
197.	1951 --	<b>whooping cough</b> , 960 US deaths, subset for AL (6 <sup>th</sup> US state highest)	-- 45
198.	1951 --	Nov 25, New York and New Orleans <b>trains collide</b> near Woodstock, AL	-- 17
199.	1952 --	<b>diphtheria</b> (225 US deaths; 7 states in double digits), subset for AL	-- 21
200.	1952 --	<b>influenza</b> , 5,649 US deaths, AL subset (4 <sup>th</sup> highest US state loss)	-- 283
201.	1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; AL (tied with TN 3 <sup>rd</sup> highest)	-- 40
202.	1952 --	<b>whooping cough</b> (pertussis); 406 US deaths; AL (3 <sup>rd</sup> highest US state loss)	-- 24
203.	1952 --	Apr 04, <b>planes collide</b> , USAF Globemaster & C-47 Skytrain, Mobile, AL	-- 15
204.	1953 --	<b>heat</b> , excessive natural (code E931), 576 US heat deaths, esp. Aug 22-Sep 5	-- 13
205.	1953 --	<b>diphtheria</b> , 158 US deaths (6 states in double digits), AL subset	-- 10
206.	1953 --	<b>influenza</b> ; 9,500 US deaths; AL subset (7 <sup>th</sup> highest in the US)	-- 393
207.	1953 --	Feb 14, <b>National Air 470 structural failure</b> , extreme turbulence, Gulf of MX off Mobile, AL	--46
208.	1954 --	<b>heat</b> , summer, (especially July), state subset of 978-984 heat-related deaths	-- 10
209.	1954 --	<b>diphtheria</b> , 145 US deaths; esp. GA/24, SC/16, AL/14, FL/10	-- 14
210.	1954 --	<b>dysentery</b> , infectious, all forms (codes 045-048), 655 US deaths; AL subset	-- 22

**Alabama (continued):**

211.	1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154 OH/143--	180
212.	1954 --	<b>measles</b> ; 524 US deaths; 21 states double digits; AL subset	-- 19
213.	1954 --	<b>polio</b> , acute; 1,400 US deaths; AL subset	-- 26
214.	1954 --	<b>whooping cough</b> /pertussis; 375 US deaths, 17 states double digits, AL subset--	10
215.	1955 --	<b>diphtheria</b> , 150 US deaths; esp. AL/25, GA/18, TX/13, SC/11	-- 25
216.	1955 --	<b>influenza</b> ; 2,755 US deaths; AL (2 <sup>nd</sup> highest US state loss of life)	-- 183
217.	1955 --	<b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); subset for AL	-- 18
218.	1955 --	<b>whooping cough</b> /pertussis, 476 US deaths/15 states in double digits; AL	-- 22
219.	1956 --	<b>influenza</b> , 2,323 US deaths; AL had 4 <sup>th</sup> highest US state loss of life	-- 130
220.	1956 --	<b>measles</b> , 530 US deaths/21 states in double digits; AL subset	-- 13
221.	1956 --	<b>whooping cough</b> /pertussis, 266 US deaths; 8 states double digit deaths, AL	-- 10
222.	1956 --	Apr 15, <b>tornado</b> , Jefferson County, west and northwest Birmingham area, AL--	25
223.	1957 --	<b>influenza</b> ; 7,463 US deaths; AL had 8 <sup>th</sup> highest US state death toll	-- 267
224.	1957 --	<b>measles</b> ; 389 US deaths; 15 states double digit deaths; AL subset	-- 15
225.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--1,072
226.	1958 --	<b>influenza</b> ; 4,442 US deaths; AL (2 <sup>nd</sup> highest death toll in US behind TX)	-- 275
227.	1958 --	<b>measles</b> ; 552 US deaths; 23 States in double digits, including AL	-- 11
228.	1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; AL subset (11 <sup>th</sup> highest of the States)	-- 363
229.	1959 --	<b>measles</b> , especially children; 385 US deaths, AL subset	-- 14
230.	1959 --	<b>whooping cough</b> (pertussis); 269 US deaths, especially children; AL subset	-- 13
231.	1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; AL subset	-- 283
232.	1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; AL death rate 11.5	-- 376
233.	1960 --	<b>measles</b> ; 380 US deaths; AL	-- 15
234.	1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; AL death rate 9.2	-- 300
235.	1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; AL death rate 2.1	-- 103
236.	1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; AL death rate 0.3	-- 10
237.	1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100K, AL death rate 8.7	-- 286
238.	1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; AL death rate 4.0	-- 135
239.	1962 --	<b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population, AL 0.4	-- 12
240.	1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; AL 8.4	-- 281
241.	1962 --	Dec 06-15, <b>snowstorms and cold-wave</b> >26 States, ~east half US (188-238)--	3-10
242.	1962 --	Jan 09-13, <b>snow, sleet, extreme cold-wave</b> ; 153-219 US deaths; AL subset	-- 9-11
243.	1963 --	<b>influenza</b> , 7083 US deaths/death rate 3.8; AL death rate 8.4	-- 280
244.	1963 --	<b>tuberculosis</b> , 9311 US deaths/ death rate 4.9 per 100K pop.; AL death rate 8.4--	282
245.	1963 --	Jan 23-27, <b>below zero cold wave</b> ; AL subset of 315-352 US deaths	-- 8-10
246.	1964 --	<b>influenza</b> ; 1,687 US deaths/date rate 0.9 per 100K; AL death rate 1.6	-- 54
247.	1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; AL death rate 0.4	-- 13
248.	1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; AL death rate 7.4	-- 252
249.	1964 --	Jan 24, <b>tornado</b> , Harpersville, Shelby County, AL	-- 10
250.	1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; AL death rate 2.6	-- 90
251.	1965 --	<b>measles</b> , 276 US deaths, AL subset	-- 11
252.	1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; AL 7.5	-- 260
253.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; AL--	20
254.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for AL	-- 266

**Alabama (continued):**

255.	1966 -- Jan 29-30, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; AL	--	10
256.	1967 -- Feb 07, <b>fire</b> , Dale's Penthouse Restaurant, Montgomery, AL	--	25
257.	1968 -- <b>tuberculosis</b> , 6,292 US deaths/death rate 3.2 per 100K; AL 6.08 (3 <sup>rd</sup> high)	--	206
258.	1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 3.0 per 100K; AL 3.7--	126	
259.	1969 -- <b>tuberculosis</b> , 5,567 US deaths, death rate 2.76 per 100K; AL/5.88	--	201
260.	1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; AL 3.7--	128	
261.	1970 -- <b>tuberculosis</b> ; 5,217 US deaths/death rate 2.56 per 100K; AL 4.96	--	171
262.	1971 -- <b>tuberculosis</b> ; 4,501 US deaths/death rate 2.18 per 100K; AL 4.14	--	145
263.	1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K, AL 3.78--	134	
264.	1972 -- <b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; AL rate 3.90	--	138
265.	1973 -- <b>influenza</b> ; 5,131 US deaths/death rate 2.43; AL 2.60	--	93
266.	1973 -- <b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; AL, 2.82 per 100K--	101	
267.	1974 -- <b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; AL/1.6--	58	
268.	1974 -- <b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; AL, 2.29	--	83
269.	1974 -- Apr 03, <b>tornadoes</b> , multiple counties, esp. Lawrence, Limestone, Marion	--77-86	
270.	1975 -- <b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; AL, 2.55	--	94
271.	1976 -- <b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; AL, 2.62	--	98
272.	1977 -- <b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; AL	--	11
273.	1977 -- <b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; AL, 1.98	--	75
274.	1977 -- <b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; AL, 2.01	--	76
275.	1977 -- Apr 04, <b>tornado</b> , F5, Jefferson County, AL	--	22
276.	1978 -- exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; AL	--	11
277.	1978 -- <b>influenza</b> , 4,052 US flu deaths/death rate 1.8 per 100K; AL, 2.63	--	101
278.	1978 -- <b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; AL 2.35	--	90
279.	1979 -- <b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; AL, 0.28	--	11
280.	1979 -- <b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; AL, 1.39	--	54
281.	1979 -- Sep 12-13, <b>Hurricane Frederic</b> (also MS, LA, FL, TN, PA)	--12-13	
282.	1980 -- <b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; AL, 1.74	--	68
283.	1980 -- summer <b>heatwave</b> , especially Jefferson County (22) and Mobile (21)	--	125
284.	1981 -- exposure to excessive natural <b>cold/hypothermia</b> ; 289 US deaths; AL	--	12
285.	1981 -- <b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; AL, 1.96	--	77
286.	1981 -- summer (especially), <b>heat</b> (ICD-9 E900 excessive natural heat)	--	13
287.	1982 -- <b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, AL, 1.63	--	64
288.	1982 -- Jan 10-18, <b>extreme cold</b> , freezing rain, ice and snow storms	--20-21	
289.	1983 -- exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; AL	--	510
290.	1983 -- <b>tuberculosis</b> , 1,779 US TB deaths/death rate 0.76 per 100K; AL, 1.60	--	63
291.	1983 -- July-Aug, <b>excessive natural heat</b> ; AL subset	--	20
292.	1984 -- exposure to excessive natural <b>cold/hypothermia</b> ; 359 US deaths; AL	--	19
293.	1984 -- <b>tuberculosis</b> , 1,729 US TB deaths/death rate 0.73 per 100K; AL rate 1.57	--	62
294.	1984 -- July 07, <b>thunderstorm wind</b> , Madison County, AL	--	11
295.	1984 -- July 7, microburst, sternwheel <b>SCItanic</b> capsizes, TN Riv., Ditto's Landing, AL-11		
296.	1985 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; AL	--	19
297.	1985 -- <b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; AL, 1.23	--	49
298.	1985 -- summer <b>heat</b> (ICD-900 code for excessive heat/hyperthermia) subset of 227--	22	

## Alabama (continued):

299.	1986 --	tuberculosis	, 1,782 US TB deaths, death rate 0.74 per 100K; AL, 1.33	--	53
300.	1986 --	summer excessive heat	, (subset of >400 U.S. heat-related fatalities), AL	--	16
301.	1987 --	exposure to excessive natural cold/hypothermia;	326 US deaths; AL	--	326
302.	1987 --	influenza;	632 US deaths, death rate 0.26 per 100K; AL, 0.27	--	11
303.	1987 --	tuberculosis;	1,755 US TB deaths, death rate 0.72 per 100K; AL, 1.54	--	62
304.	1987 --	summer excessive natural heat	, AL	--	10
305.	1988 --	influenza;	1,943 US flu deaths, death rate 0.79 per 100K; AL, 1.09	--	44
306.	1988 --	tuberculosis;	1,921 US TB deaths, death rate 0.78 per 100K; AL, 1.02	--	41
307.	1989 --	exposure to excessive natural cold/hypothermia;	524 US deaths; AL	--	15
308.	1989 --	tuberculosis;	1,970 US TB deaths, death rate 0.80 per 100K; AL, 1.07	--	43
309.	1989 --	Nov 15, tornado	, F4, Madison County, AL	--	21
310.	1990 --	exposure to excessive natural cold/hypothermia;	596 US deaths; AL	--	17
311.	1990 --	tuberculosis	, 1,810 US TB deaths, death rate 0.73 per 100K, AL, 1.26	--	47
312.	1991 --	exposure to excessive natural cold/hypothermia;	588 US deaths; AL	--	16
313.	1991 --	influenza	, 1,137 US flu deaths, death rate 0.45 per 100K; AL, 0.51	--	21
314.	1991 --	tuberculosis	, 1,713 US TB deaths, death rate 0.68 per 100K, AL, 1.15	--	47
315.	1991 --	July 10, plane crash	, L'Express Airlines Flight 508, near Birmingham, AL	--	13
316.	1992 --	exposure to excessive natural cold/hypothermia;	558 US deaths; AL	--	10
317.	1992 --	tuberculosis	, 1,705 US TB deaths, death rate 0.66 per 100K; AL, 1.08	--	45
318.	1993 --	exposure to excessive natural cold/hypothermia;	641 US deaths; AL	--	22
319.	1993 --	tuberculosis	, 1,631 US TB deaths, death rate 0.63 per 100K; AL, 0.78	--	33
320.	1993 --	Mar 12-13 Eastern Seaboard "Superstorm of 1993,"	subset for AL	--	16
321.	1993 --	Sep 22, fog, barge	hits bridge, Amtrak train derails into water/fire ~Mobile AL--	47	
322.	1994 --	exposure to excessive natural cold/hypothermia;	633 US deaths; AL	--	13
323.	1994 --	tuberculosis;	1,478 US TB deaths; US death rate 0.56 per 100K; AL 0.70	--	30
324.	1994 --	Mar 27, tornadoes	, esp. Cherokee/20, Pickens/9, Lumpkin/3 counties, AL	--	40
325.	1995 --	exposure to excessive natural cold/hypothermia;	553 US deaths; AL	--	20
326.	1995 --	tuberculosis;	1,336 US TB deaths/death rate 0.5 per 100K; AL 0.95	--	41
327.	1995 --	summer, excessive natural heat	, AL subset	--	19
328.	1995 --	Oct 04, Hurricane Opal	, multiple counties (deaths in seven)	--	12
329.	1996 --	exposure to excessive natural cold/hypothermia;	685 US deaths; AL	--	18
330.	1996 --	tuberculosis	, 1,202 US TB deaths, death rate 0.45 per 100K, AL, 0.74	--	32
331.	1997 --	exposure to excessive natural cold/hypothermia;	501 US deaths; AL	--	501
332.	1997 --	tuberculosis	, ICD-9 code 010-018, death rate 0.43 per 100K, AL, 0.53	--	23
333.	1998 --	tuberculosis	, ICD-9 code 010-018, death rate 0.40 per 100K, AL, 0.64	--	28
334.	1998 --	Apr 08, tornadoes	, Oak Grove, Moody, Birmingham-Area, AL	--	34
335.	1999 --	exposure to excessive natural cold/hypothermia;	598 US deaths; AL	--	16
336.	1999 --	tuberculosis	, ICD-10 code A16-19, death rate 0.333 per 100K; AL, 0.361	--	16
337.	1999 --	summer, especially late July-early Aug, excessive natural heat	, AL subset	--	15
338.	2000 --	exposure to excessive natural cold/hypothermia;	742 US deaths; AL	--	15
339.	2000 --	exposure to excessive natural heat	, 494 US deaths, subset for AL	--	11
340.	2000 --	tuberculosis	, ICD-10 code A16-19; death rate 0.276 per 100K; AL, 0.315	--	14
341.	2000 --	Dec 16, tornadoes	, Geneva (1 fatality) and Tuscaloosa (11 deaths), AL	--	12
342.	2001 --	exposure to excessive natural cold/hypothermia;	599 US deaths; AL	--	16



**Alabama (continued):**

343.	2001 --	tuberculosis	, ICD-10 code A16-19, death rate 0.268 per 100K; AL 0.470	--	21
344.	2001 --	Sep 23, mine	gas explosion, Jim Walter Resources No. 5 Coal Mine, Brookwood AL	--	13
345.	2002 --	tuberculosis	, ICD-10 code A16-19, death rate 0.273 per 100K, AL, 0.290	--	13
346.	2002 --	Nov 10, tornado	outbreak, Cherokee, Walker and esp. Winston Counties	--	12
347.	2004 --	exposure to	excessive natural cold/hypothermia; 676 US deaths; AL	--	13
348.	2005 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.22 per 100K; AL, 0.33	--	15
349.	2006 --	influenza	, ICD-10 codes J09-11; US death rate 0.285 per 100K; AL, 0.324	--	15
350.	2006 --	tuberculosis	, ICD-10 code A16-19, death rate 0.22 per 100K; AL, 0.26	--	12
351.	2007 --	Mar 01, tornado	outbreak (Prairie, Enterprise), AL	--	10
352.	2007 --	Aug 08-23 esp.,	excessive natural heat; 582 US deaths, subset for AL	--	18
353.	2009 --	exposure to	excessive natural cold/hypothermia; 616 US deaths; AL	--	12
354.	2009 --	2010 (early), New	H1N1 "Swine Flu" influenza pandemic (U.S. & world)	--	20-36
355.	2009 --	Mar 10, violence	, McLendon Shooting Spree, Geneva County, AL	--	10
356.	2010 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.9 per 100K; AL 1.1--2,741		
357.	2010 --	exposure to	excessive natural cold/hypothermia; 710 US deaths; AL	--	11
358.	2010 --	exposure to	excessive natural heat; 874 US deaths, subset for AL	--	14
359.	2010 --	influenza	, ICD-10 codes J09-J11; US (500) death rate 0.2 per 100K; AL, 0.3	--	15
360.	2010 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.2 per 100K; AL, 0.3	--	13
361.	2011 --	exposure to	excessive natural heat, 1,060 US deaths, subset for AL	--	11
362.	2011 --	Apr 27, tornadoes	, esp. Tuscaloosa, Dekalb, Marion, Jefferson counties	--	249-252
363.	2012 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K; AL 1.0--		50
364.	2012 --	exposure to	excessive natural heat; 879 US deaths, subset for AL	--	13
365.	2012 --	influenza	, ICD-10 codes J09-11; US death rate 0.4 per 100K; AL, 0.5	--	22
366.	2013 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K; AL 0.9--		45
367.	2014 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K; AL 0.9--		42
368.	2014 --	exposure to	excessive natural cold/hypothermia; 930 US deaths subset, AL	--	13
369.	2014 --	viral hepatitis	, ICD-code B15-B19, US death rate 2.5 per 100K; AL, 2.6	--	128
370.	2015 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K; AL 0.9--		49
371.	2015 --	exposure to	excessive natural cold/hypothermia, 815 US deaths subset, AL	--	10
372.	2015 --	exposure to	excessive natural heat; 567 US deaths; subset for AL	--	10
373.	2015 --	tuberculosis	, ICD-10 Codes A16-A19; US death rate 0.1 per 100K; AL, 0.2--		11
374.	2016 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.7 per 100K, AL 0.9--		42
375.	2016 --	HIV/AIDS	, 6,160 US deaths/death rate 1.9 per 100,000; AL 2.2	--	106
376.	2016 --	exposure to	excessive natural heat, 786 US deaths, subset for AL	--	13
377.	2017 --	exposure to	excessive natural cold/hypothermia, 804 US deaths subset, AL	--	11
378.	2017 --	exposure to	excessive natural heat; 817 US deaths, subset for AL	--	13
379.	2017 --	HIV/AIDS	; 5,698 US deaths/death rate 1.75 per 100K; AL death rate 1.95	--	95
380.	2018 --	exposure to	excessive natural cold/hypothermia; subset of 1,028 US deaths--		13
381.	2018 --	exposure to	excessive natural heat; 1,012 US deaths; subset for AL	--	20
382.	2018 --	HIV	; 5,425 US deaths/death rate 1.66 per 100K; AL death rate 1.90	--	93
383.	2018 --	influenza	, ICD codes J09-11.8/death rate 3.41 per 100K pop., AL rate 3.74	--	183
384.	2019 --	exposure to	excessive natural heat; US death rate 0.27, AL 0.45	--	22
385.	2019 --	HIV/AIDS	; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; subset AL	--	88
386.	2019 --	influenza	; subset of 5,902 US deaths, 1.08 death rate per 100K; AL, 1.55	--	76

387.	2019 -- Mar 03, <b>tornadoes</b> , esp. EF-4 Lee County (especially Beauregard), AL	--	23
388.	2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths (avg. 1,070 per 1M); AL 984 per 1M	--	4,406
389.	2020 -- exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; AL	--	10
390.	2020 -- exposure to <b>excessive natural heat</b> ; 1,174 US deaths/ death rate 0.3, AL	--	17
391.	2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; AL 1.75	--	86
392.	2020 -- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; AL rate 2.21	--	109
393.	2021 -- <b>COVID-19</b> , 437,984 US deaths/2.6K deaths per 1M pop.; AL, 3.4K	--	12,049
394.	2021 -- <b>excessive natural heat</b> ; 1,923 US heat-related deaths; subset for AL	--	10
395.	2021 -- <b>HIV/AIDS</b> , 4,977 deaths/death rate 1.50 per 100K, AL death rate 1.85	--	93
396.	2021 -- <b>influenza</b> ; 608 US deaths/death rate 0.18; AL death rate 0.44	--	22
397.	2021 -- June 19, <b>Tropical Storm Claudette</b> (highway/10, tree fall/2), AL	--	12
	-- 18-vehicle crash, 8 girls/Tallapoosa Girls Ranch <b>van</b> , 2/ <b>SUV</b> , I-65, Butler Co. <sup>6</sup>	--	10
398.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; AL death rate 9.38	--	4,602
399.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for AL	--	28
400.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for AL	--	14

### Some Select/Notable Other **Alabama** Large Loss of Life Events:<sup>7</sup>

1833 --	<b>cholera</b> , Claiborne, Mobile, Montgomery	--	≥13
1848 --	<b>scarlet fever</b> outbreak, Mobile, AL	--	75
1849 --	<b>scarlet fever</b> outbreak, Mobile, AL	--	50
1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	--	269
1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), AL	--	38
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	--	169
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (average 931)	--	362
1850 --	<b>yellow fever</b> ; subset of 862 yellow fever deaths, 31 states/4 Territories/DC	--	24
1860 --	<b>measles</b> (subset of 3,900 US measles deaths), AL	--	62
1860 --	<b>tuberculosis</b> (consumption); subset, 49,082 US deaths; 4 <sup>th</sup> leading cause of AL deaths	--	596
1870 --	<b>tuberculosis</b> (consumption) (subset of ~70,000 US TB deaths), AL	--	764
1870 --	<b>typhoid fever</b> (subset of 22,187 US typhoid fever deaths), AL	--	409
1870 --	<b>whooping cough</b> (subset of 9,008 US whooping cough deaths), AL	--	133
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 US croup deaths), AL	--	510
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 US deaths), AL	--	241
1879 --	June-May 1880, <b>measles</b> (subset of 8,254 US measles deaths), AL	--	342
1879 --	June-May 1880, <b>meningitis</b> (subset of 7,481 US meningitis deaths), AL	--	149
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (subset, 16,388 US S.F. deaths), AL	--	15
1879 --	June-May 1880, <b>whooping cough</b> (subset, 11,064 U.S. W.C. deaths), AL	--	546
1881 --	<b>typhoid fever</b> , Birmingham, AL	--	49
1889-90 --	June 1-May 31, <b>diphtheria</b> , AL	--	80
1890 --	Jan-Feb, <b>influenza</b> (La Grippe/Russian Flu), Mobile, AL	--	21
1897 --	<b>typhoid fever</b> , subset of >9,192 US typhoid deaths, Mobile, AL	--	16
1898 --	<b>typhoid fever</b> , (4,627 nationwide), especially Anniston and Huntsville, AL <sup>8</sup>	--	48

<sup>6</sup> In that this happened in remnants of Tropical Storm Claudette, *The Weather Channel* includes these deaths in the twelve it attributes to this storm. (A tree fall in Tuscaloosa killed a father, aged 24 and child, aged 3.)

<sup>7</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

Some Select/Notable Other **Alabama** Large Loss of Life Events – continued:

1900 --	<b>diphtheria</b> (subset of 16,475 US diphtheria deaths in 1900), AL	--	87
1900 --	exposure to <b>excessive natural heat</b> , coded “sunstroke” in some Census docs., AL	--	9
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths), AL	--	342
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths), AL	--	34
1905 --	<b>tuberculosis</b> , subset, 56,770 registration area deaths (10 states/135 cities), Mobile	--	173
1906 --	Sep 27, <b>hurricane</b> , especially Fort Morgan, Mobile and Gulf Coast	--	7
1907 --	<b>typhoid fever</b> , Mobile; subset of 12,670 census area typhoid deaths	--	19
1910 --	<b>typhoid fever</b> , Birmingham/66, Mobile/39, Montgomery/14	--	119
1914 --	measles; 4,461 US deaths/death rate 6.8 per 100K pop.; 3 reporting cities 1.37 <sup>9</sup>	--	36
1916 --	<b>diphtheria</b> , especially children, AL	--	188
1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; Birmingham/Mobile	--	71
1919 --	<b>diphtheria</b> (subset, 9,160 US diphtheria deaths)	--	193
1920 --	<b>diphtheria and croup</b> (AL subset of 13,395 such deaths in 34 registration states)	--	15
1920 --	Jan-Mar, <b>influenza</b> epidemic, Birmingham, AL	--	384
1920 --	<b>typhoid fever</b> , AL subset, 6,805 typhoid fever deaths in 34 registration states <sup>10</sup>	--	41
1920 --	<b>whooping cough</b> (Birmingham, 29; Mobile, 2; and Montgomery, 10), AL	--	41
1925 --	<b>measles</b> (AL subset of 2,404 measles deaths in 40 “registration” states)	--	24
1925 --	<b>meningococcus meningitis</b> (AL subset, 1,095 US meningitis deaths)	--	14
1925 --	<b>polio</b> (AL subset, 1,518 US polio deaths)	--	25
1925 --	<b>scarlet fever</b> (AL subset of 2,762 US scarlet fever deaths, 48 states)	--	21
1925 --	<b>scurvy</b> (vitamin C deficiency), AL subset 5 <sup>th</sup> highest, 58 scurvy deaths, 24 States	--	4
1927 --	<b>polio</b> (acute) esp. late summer and fall (AL subset, 2,013 U.S. polio deaths)	--	29
1931 --	<b>polio</b> , esp. July-Oct, (AL subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	25
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; AL death rate 3.6	--	96
1936 --	Jan 18, <b>tornadoes</b> , Dekalb County (4), Dale County (1), and Houston County (1)	--	6
1940 --	<b>polio</b> ; 1,026 US polio deaths; subset for AL	--	16
1946 --	<b>polio</b> , July-Nov especially; subset of 1,845 US polio deaths	--	22
1948 --	<b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths	--	16
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	--	12
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	--	18
1951 --	Jan 27-Feb 4, <b>cold waves, winter storms, ice, sleet, snow</b> (US 175-200), AL	--	9
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for AL	--	27
1952 --	<b>polio</b> ; subset of ~3,300 US polio deaths	--	22
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; AL subset	--	506
1953 --	<b>polio</b> , subset of 1,450 US polio deaths	--	25
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; AL subset	--	468
1953 --	Apr 18, windstorm and tornadoes, AR (1 death), AL (7), GA (1)	--	7
1953 --	May 01-02 tornadoes, especially AL (9 deaths, May 1), TN (4 deaths, May 2), AL	--	9
1953 --	May 30, passing passenger <b>car collides with taxi</b> headon near Selma, AL	--	5

<sup>8</sup> This number is for servicemen dying in AL, mostly Aug-Oct. Eighteen 1<sup>st</sup> and 2<sup>nd</sup> Alabama Volunteer Infantry Regiment members died of typhoid this year, in various locations in the U.S.

<sup>9</sup> AL was not a “registration” state; however, three cities were registration cities: Birmingham, Mobile, Montgomery.

<sup>10</sup> AL was not a “registration” state providing death certificates to Census Bureau. Three cities, however, did: Birmingham with 27, Mobile with 13 and Montgomery with 1.



**Alabama (continued):**

1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; AL subset	-- 366
1954 --	Apr 10, kerosene splashed on home stove live coals <b>explodes, fire</b> , Columbia AL	-- 7
1954 --	Dec 29, USAF C119 <b>plane rear-door fails/crash</b> , Shin Point near New Hope, AL	-- 9
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; AL subset	-- 317
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US TB deaths; AL subset	-- 309
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; AL subset	-- 282
1960 --	<b>measles</b> , especially children (AL subset of 380 measles deaths nationwide)	-- 15
1960 --	Jan 18, freight train cuts <b>school bus</b> in two at RR crossing near Fackler, AL	-- 5
1963 --	Sep 15, <b>KKK members bomb</b> 16 <sup>th</sup> Street Baptist Church, Birmingham, AL	-- 4
1964 --	<b>whooping cough</b> , 93 US deaths, AL deaths	-- 7
1965 --	Feb 23, <b>truck/1 and car/5 collide</b> , burn, US 31 five miles south of Decatur, AL	-- all 6
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for AL	-- 65
1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; AL	-- 9
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; AL 3.48	-- 118
1968 --	Dec 29-Feb 01, A2 "Hong Kong" <b>influenza-pneumonia</b> epidemic, 3 cities <sup>11</sup>	-- 89
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; AL	-- 10
1971 --	<b>measles</b> /rubeola; ICD-8 code 055; 90 US deaths; AL	-- 5
1972 --	Apr 09, rented <b>Cherokee-6 loses power/crashes</b> on family outing, ~AP, Fort Payne AL	--7
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.986 pre 100K; AL, 1.9	-- 71
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; AL, 2.3	-- 86
1977 --	<b>excessive natural heat</b> (esp. summer), ICD-8 E900 /US death rate 0.14, AL, 0.24	-- 9
1978 --	<b>excessive natural heat</b> (esp. summer), ICD-8 E900, US death rate 0.12, AL, 0.18	-- 7
1979 --	<b>chickenpox</b> , 103 US chickenpox deaths/death rate 0.05 per 100K, AL, 0.13	-- 5
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, AL death rate 0.51	-- 20
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, AL death rate 1.05	-- 45
1982 --	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, AL, 0.25	-- 10
1983 --	<b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, AL, 0.43	-- 17
1983 --	June 21, overloaded and imbalanced <b>Cessna 421 engine failure, crash</b> , Atmore AL	--all 8
1985 --	<b>influenza</b> , 2,054 US flu deaths/death rate 0.86 per 100K, AL, 0.86	-- 34
1985 --	Jan 19-23, <b>cold wave and exposure/hypothermia</b> deaths	-- 5-7
1986 --	<b>influenza</b> , 1,838 US flu deaths; death rate 0.76 per 100K, AL, 0.53	-- 21
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; AL, 1.79	-- 72
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8; AL 2.38	-- 93
1988 --	Summer, <b>heat</b> , Conecuh, Geneva, Jefferson, Mobile, Pike, Shelby, Sumter Counties	-- 7
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate per 100K 8.9, AL 3.72	-- 150
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; Al, 0.47	-- 19
1989 --	Dec 16-25, <b>cold wave and exposure/hypothermia</b> deaths	-- 5
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; AL rate 0.64	-- 26
1992 --	<b>private Beechcraft Baron crash</b> , fuel tank selectors improperly set, Calera, AL	-- all 6
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; AL rate 0.45	-- 19
1995 --	Apr 17, <b>plane crash</b> , USAAF C-21 Learjet, near Alexander City Airport, AL	-- 8
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; AL, 0.34	-- 15
1998 --	Jan 29, <b>violence</b> , abortion clinic bombing, (Eric Rudolph), Birmingham, AL	-- 1

<sup>11</sup> Birmingham, Mobile, and Montgomery. U.S. influenza epidemic death toll was 33,800.

1998 -- June-Aug, <b>heat</b> (exposure to excessive natural heat), AL	--	7
1999 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; AL, 0.316	--	14
2000 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; AL, 0.405	--	18
2000 -- June-Aug esp., <b>heat</b> , AL (subset of 301 heat-related deaths nationwide)	--	8
2001 -- exposure to excessive natural heat; 538 US deaths; subset for AL	--	5
2001 -- Mar 04, <b>lightning</b> starts house <b>fire</b> , Montgomery, AL	--	5
2002 -- summer, <b>heat</b> (exposure to excessive natural heat), AL	--	6
2003 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; AL rate 0.511	--	23
2003 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; AL rate 0.22	--	10
2008 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; AL rate 0.57	--	27
2008 -- Feb 05, <b>tornadoes</b> , Jackson (1 death) and Lawrence County (4 deaths), AL	--	5
2009 -- <b>diarrhoea/gastroenteritis</b> , infections origin, 0.9 US death rate per 100K; AL 0.8	--	38
2009 -- <b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); AL rate 0.3	--	13
2010 -- <b>viral hepatitis</b> , ICD-10 code B-15-19; US death rate 2.4 per 100K; AL rate 2.2	--	104
2011 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, 0.9 US death rate per 100K; AL 0.9	--	45
2011 -- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5; AL rate 0.4	--	19
2011 -- <b>tuberculosis</b> , ICD-10 Codes A16-A19. US, and AL, death rate 0.2 per 100,000	--	11
2011 -- <b>viral hepatitis</b> , ICD-10 Code B15-B19, US death rate 2.5 per 100K; AL rate 2.0	--	97
2011 -- Apr 15, <b>tornadoes</b> , Autauga, Marengo and Washington Counties	--	7
2012 -- <b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; AL had 2.1--	100	
2012 -- May-Aug, <b>heat</b> , especially hyperthermia and prolonged exposure to heat, AL	--	8
2013 -- <b>viral hepatitis</b> , ICD-10 code B-15-B19; 2.6 US death rate; AL rate 2.5	--	119
2013 -- <b>influenza</b> , ICD-10 Codes J09-J11; US death rate 1.2 per 100,000; AL rate 1.1	--	55
2014 -- Jan 28-29, <b>winter storm, snow and ice</b> , deaths mostly traffic accidents, AL	--	9
2014 -- <b>influenza</b> (ICD-10 codes J09, J10, J11), US avg. death rate 1.4; AL death rate 1.1--	54	
2015 -- <b>influenza</b> , ICD-10 codes J09-J11; 1.6 per 100,000; AL rate 1.5	--	72
2015 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; AL, 2.0	--	96
2016 -- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.9 per 100,000; AL rate 0.4	--	18
2016 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; US, and AL, death rate 0.2 per 100,000	--	528
2016 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; AL rate 1.5	--	72
2017 -- <b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; AL death rate 1.27	--	62
2018 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; AL subset	--	12
2019 -- <b>tuberculosis</b> , ICD-10 codes A16-A19 (526 US TB deaths); AL subset	--	10
2021 -- exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; AL subset	--	10
2023 -- <b>COVID</b> , subset of 71,691 US deaths	--	401

#### Breakout of **Alabama** Large Loss-of-Life Events (10 or more fatalities) by Type:

- 213 -- **Disease**, especially communicable, especially epidemics. (Plus 108 in "Other.")
- 43 -- **Tornadoes**. (Plus 5 events 5-9 deaths: 7 and 9 in 1953, 6 in 1936, 5 in 2008, 7 in 2011.)
- 34 -- **Winter Weather, Cold, Hypothermia**. Plus 6 years 5-9 deaths.)
- 29 -- **Heat**. (Plus 9 years with 6-9 deaths.)
- 28 -- **Mining**.
- 10 -- **Violence**.
- 17 -- **Maritime and Inland craft** (includes 1 cross-list in Disease and one cross listed in Rail.)
- 7 -- **Aviation**. (Plus 5 events 6-9 deaths – 1 with nine, 2 with eight, 1 with seven, one with 6.)

**Alabama (continued):**

- 7 -- **Hurricanes/Tropical Storms.** (Plus **one** with 7 fatalities in “Other.”)
- 5 -- **Rail.**
- 3 -- **Fire-structural.** (Plus **two** – one with 7 and one with 5 deaths in “Other.”)
- 3 -- **Road/Highway/Vehicular** (Plus **3** – 5 deaths in 1953 and 1960, and 6 in 1965.)
- 2 -- **Flooding.**
- 1 -- **Explosions.** (Plus **one** with 7 deaths.) (See Mining for mine explosions.)
- 1 -- **Fog as a contributing Factor.** (Cross-listed in Maritime and in Rail.)
- 1 -- **Poisoning (accidental)**
- 1 -- **Wind Storms/Severe Thunderstorms**
- 0 -- **Lightning** (But one fire started by lightning striking a home in 2001 killing 5.)

## AK

## Alaska

1. 1745 -- Russian traders **massacre** Unangan (Aleut) women and children, Attu, AK -- 15
2. 1763-64--Unangan/Eastern Aleut **conflict** with Russians, Unalaska/Umnak/Unimak Isl., AK--≥375  
--175-188 Russian hunters and sailors killed in retaliation for atrocities and trespass  
-- >200 Unangan/Aleut killed by Russians in retaliation
3. 1784 -- Russian fur traders **massacre** Sugpiaq Natives, Kodiak Island, AK -- >200
4. 1799 -- sixty Native Alaskan **bidarka's** lost in storm, Hinchinbrook Entrance, S.C. AK-- 200
5. 1799 -- July, **paralytic shellfish poisoning**,<sup>12</sup> Aleuts, Russians, Peril Strait, AK -- ~100
6. 1802 -- June, Tlingit **attack** Russians/Aleut workers, Fort Archangel St. Michael, AK -- ≤150
7. 1835 -- Nov-spring 1838, **smallpox**, Sitka, Gulf of AK, Kodiak, Aleutian Isl. natives, AK--13,105
8. 1885 -- Oct 12, last sighting, San Fran. whaler **Amethyst**, St. Lawrence Isl. Bering Sea, AK--43  
--38 *Amethyst* crew -- 5 *Rainbow* crew survivors onboard the *Amethyst*
9. 1886 -- Nov 14~, Kodiak schnr. **Flying Scud** lost, Cape Douglas to Kodiak, Gulf of AK--24-26
10. 1887 -- Mar 20, steamer **Seal** lost, Lynn Canal north of Berners Bay, southeast AK -- 12
11. 1888 -- May 3, gale, fishing sch. **Isabel** springs leak, founders ~Shumagin Island AK --12-14
12. 1888 -- Oct 03, storm, whaling bark **Ohio** driven ashore ~Point Hope, Chukchi Sea, AK-- 25
13. 1889 -- Mar 02, SF whaling schooner **James A Hamilton** departs San Francisco for AK, lost--21
14. 1889 -- Mar 02, sealing schooner **Otter** leaves San Francisco for Shumagin Isl., AK, lost<sup>13</sup>-- 23
15. 1890 -- Apr 26, SF CA ship **Oneida** strands, Oneida Rock, off Sanak Island SW, AK<sup>14</sup>-- 77
16. 1892 -- Oct 06, LA CA whaling bark **Helen Mar** crushed by icebergs, Chukchi Sea, AK<sup>15</sup>--27
17. 1893 -- Mar 21, SF CS seal schooner **Helen Blum** last seen, Shumagin Isles. vic., AK<sup>16</sup>-- 26
18. 1893 -- Oct 3, schnr. **Mary Brown** leaves Sand Point, AK for SF CA; wreck found ~Kennedy Isl., BC<sup>17</sup>--~14
19. 1894 -- May 11, SF, Cal. whaling bark **James Allen** hits rock/sinks, Amlia Island, AK<sup>18</sup>-- 25
20. 1895 -- Apr 14, BC Can. sealing schnr. **Walter A Earle** capsizes, storm, off Cape St. Elias, AK--32
21. 1895 -- Apr 24, SF, CA seal/fishing schooner **C G White** grounds/storm, Trinity Isl. reefs, AK<sup>19</sup>--11
22. 1896 -- Apr 25, SF seal schooner **Edward E Webster** departs Kodiak, lost, snow squall, AK--29
23. 1897 -- Aug 12, whaler **Navarch** caught in ice, abandoned off Blossom Shoals, AK --13-16
24. 1898 -- Feb 05, gale, Seattle schnr. **Clara Nevada** grounds/sinks ~Eldred Rock, AK<sup>20</sup>--82-104
25. 1898 -- Apr 03, Palm Sunday **avalanche** outbreak, Chilkoot Trail, Skagway, AK -- 73
26. 1898 -- June 28, storm, steamer **Jessie V.** swamped, Kuskokwim River mouth, AK -- 18

<sup>12</sup> “Paralytic shellfish poisoning, or PSP, is a potentially lethal toxin that can lead to fatal respiratory paralysis...The toxin comes from algae, which is a food source for clams, mussels, crabs and other shellfish found across Alaska. This toxin can be found in shellfish every month of the year, and butter clams have been known to store the toxin for up to two years. The toxin cannot be seen with the naked eye, and there is no simple test a person can do before they harvest. One of the highest concentrations of PSP in the world was reported in shellfish from Southeast Alaska.” (SEARHC, C. Bingham. “Paralytic shellfish poisoning (PSP) warning issued for Southeast Alaska.” 6-24-2010.)

<sup>13</sup> Cross-listed in California, where built, and where the *Otter* sailed from. Was registered in Sitka.

<sup>14</sup> Cross-listed in California where the *Oneida* was registered and sailed from (San Francisco).

<sup>15</sup> Cross-listed in California. Owned, home-ported, and sailed out of Los Angeles, CA.

<sup>16</sup> Cross listed in California. Was built and owned in San Francisco in 1886 and sailed from there on this voyage.

<sup>17</sup> The wrecked boat was found many months later, but cause of loss or where not known – storm?, hit rocks? Cross-listed in Alaska and California in that we first found reference to this loss on the Alaska Shipwrecks website, and some accounts state that the owner had a home in the Aleutians. Another account notes the *Mary Brown* was built in San Francisco, where she was headed when the loss occurred.

<sup>18</sup> Cross listed in California, where she was owned, registered, and homeported.

<sup>19</sup> Cross-listed in CA: built (1887) and registered in San Francisco. Capt. was from SF. Owner lived in Alameda.

<sup>20</sup> Cross-listed in WA where the Clara Nevada was registered, owned, sailed from, and was on the way back to.

### Alaska (continued):

27. 1900 -- June-Dec, **measles & flu** epidemics, Native Alaskans, esp. western AK ~2000-2500
28. 1900 -- Aug 02-03, storm, steamers **Merwin, Resolute and Dollar** "wreck," AK -- 15
29. 1900 -- Aug 07, storm, **maritime disaster**, Nome and vicinity, AK -- 38
30. 1900 -- Sep 12-13, Southeaster gale, off-shore **Natives in boats**, inshore, Nome, AK<sup>21</sup>-- >100
31. 1901 -- Aug 15, Can. steamer **Islander** hits iceberg/sinks off Douglas Isl. ~Juneau, AK --42-53
32. 1903 -- Nov 02, storm, WA steamer **Discovery** founders, off Lituya Bay, SE coast AK --26-30
33. 1904 -- Dec 07, SF CA fishing schr. **Pearl** departs; wreck found Mar 7 ~Sanak Isl., AK-- 36
34. 1905 -- Nov 13~, storm?, WA fish schnr. **Nellie Coleman** lost off Cape Yakataga, AK-- ≥30
35. 1906 -- Apr 06, last sighting, bark **Nicholas Thayer**, heavy gale off Seal Rocks, AK --10-16
36. 1908 -- Jan 08, schooner **John F. Miller** grounds, Nelson Lagoon, AK -- 10
37. 1908 -- Sep 20, SF CA bark **Star of Bengal** grounds/wrecks, Coronation Island, AK-111-112
38. 1910 -- Mar 02, **mine** powder explosion, Alaska-Mexico Gold Mine, Treadwell, AK -- 37
39. 1911 -- Sep 28, Shakespeare Placer Gold **Mine** shaft cave-in, Dome Creek, AK -- 14
40. 1913 -- Aug 17, SF steamer **State of California** hits rock/sinks, Gambier Bay, Admiralty Is. AK-31-32
41. 1914 -- July 4, gas launch **Superba/Superb** capsizes, storm, Lynn Canal ~Skagway, AK-- 15
42. 1916 -- Jan 18, gale, Can. halibut trawler **Onward Ho** lost (icing capsized) ~Cape Fairweather AK-34
43. 1918 -- Oct 25, **Princess Sophia** (Can.) strands, Vanderbilt Reef near Juneau AK<sup>22</sup> --343-364
44. 1918 -- late fall-early spring, 1919, **influenza**, starvation, freezing, Natives ≥1,500
45. 1932 -- Sep 27, OR steamer **Nevada** strands on rocks, Aleutian Island Amatignak, AK-- 34
46. 1933 -- Jan 24, storm, diesel **Umnak Native** strands, Umnak Isl., Inanudak Bay, AK --11-12
47. 1936 -- Nov 22, **landslides** (2), Mount Roberts debris into apt. bldgs. Juneau, AK<sup>23</sup> -- 15
48. 1937 -- Oct 26, Evan-Jones Coal **Mine** explosion and fire, Jonesville, Alaska -- 14
49. 1939 -- Salmon fishing vessel **Oduna** (or **Oduno**) sinks off Noyes Island, southeast AK-- 12
50. 1942 -- July 30, last communication, US submarine **Grunion**, off Kiska Island, AK<sup>24</sup> -- 70
51. 1942 -- Sep 13, last sighting, Seattle halibut schooner **Helgeland** off Kodiak Isl., AK --10-11
52. 1943 -- Jan 12, USN destroyer **Worden** hits rock/sinks, Constantine Hbr. ent., Amchitka Isl., AK-14
53. 1943 -- July 02, **US Navy VF-5 plane crash**, Table Top Mt. ~NAS Dutch Harbor, AK-10-11
54. 1943 -- Nov 24/25, storm, freighter **John P. Gaines** breaks-up 40M S of Chirikoff Isl., AK-- 11
55. 1944 -- Apr 19, US Liberty ship **John Straub** explosion/sinks off Sanak Island, AK<sup>25</sup> --53-55
56. 1944 -- Sep 18, **USAAF Douglas C-47 plane crash**, Denali State Park ~Talkeetna, AK-- 19
57. 1944 -- Dec 29, **USAAF C-47A crash** into hillside near Adak Army Air Base, AK --all 13
58. 1945 -- Oct 21, **USAAF C-47 landing crash** in wind gust 2M east of Anchorage, AK-- 19
59. 1945 -- Nov 30, **USN PV4Y-2 plane lost**, NAS Kodiak, AK to NAS Seattle, WA<sup>26</sup> -- 25
60. 1946 -- Feb 04, AK steamship **Yukon** hits rocks off Johnstone Bay, SE of Seward, AK-- 11
61. 1947 -- Feb 24, **USAF B-29 weather reconnaissance plane lost**, Bering Sea or W. AK-- 12
62. 1947 -- Aug 06, **US Navy PBY-5A plane disappears**, Kodiak to Dutch Harbor, AK --all 20
63. 1947 -- Oct 26, **Pan Am Air plane crash**, Tamgas Mountain, Annette Island, AK -- 18

<sup>21</sup> A hurricane-like southeaster gale that produced a storm surge into Nome, and high waves that destroyed buildings along the waterfront. We have seen reference to 18-19 specific deaths at Nome, mostly drowning. We primarily note Maritime in that over 100 Natives reportedly drowned crossing from Kings Island to the mainland in umiaks.

<sup>22</sup> Listed herein in that more than ten U.S. citizens died, as well as because the disaster was in U.S. territory.

<sup>23</sup> Fourteen at the time and one from injuries about one week later.

<sup>24</sup> Not result of enemy action. Thought that she was hit by her own torpedo which missed target and circled back.

<sup>25</sup> Some ambiguity. Some sources note a Japanese torpedo, others a Japanese mine, others just note an explosion.

<sup>26</sup> Plane was not found. Listed here in that the plane was based in Alaska.



**Alaska (continued):**

64. 1947 -- Nov 27, **Columbia Air Cargo C-47 too-low AP approach crash**, Yakutat, AK-- 13
65. 1948 -- Mar 12, **Northwest Airlines Flight 4422** (charter) **crash**, Mt. Sanford, AK -- 30
66. 1948 -- Nov 03, **US Navy PB4Y2 plane crash**, 10M off Port Moller, Kodiak AK -- 12
67. 1948 -- Nov 04, **Pacific Alaska Air Express plane lost**, near Cape Spencer, AK -- 17
68. 1948 -- Dec 22, **USAF B-50 crash** (congealed oil in manifold?) near Fairbanks, AK --all 10
69. 1951 -- **tuberculosis** (respiratory), 31,163 US deaths, AK subset -- 234
70. 1951 -- July 21, **Canadian Pacific Air** (US military charter), lost, Gulf of AK near Sitka-- 37  
 --26 US servicemen  
 -- 3 civilians attached to the US Army  
 -- 6 Canadian crew  
 -- 2 Royal Canadian Navy personnel
71. 1951 -- Aug 12, **US Navy PB4Y-2 Privateer crash** into mountain, Amak Island, AK -- 12
72. 1951 -- Aug 31, **USN Consolidated PB4Y-2 Privateer crash**, Little Tanaga Isl., AK --all 10
73. 1952 -- Nov 7, **USAF C-119C Flying Boxcar crash** (navigational error) ~Mt. McKinley, AK--19
74. 1952 -- Nov 15, **USAF C-119 Flying Boxcar disappears**, Anchorage to Kodiak, AK --all 20
75. 1952 -- Nov 22, USAF MATS C-124 A **Globemaster II crash**, Mount Gannett, AK -- 52
76. 1953 -- **measles**, 483 US deaths, AK subset (tied for 6<sup>th</sup> highest state loss) -- 20
77. 1953 -- July 02, **USN PBM-552 Mariner engine failure / crash**, 25M off Adak, AK --all 12
78. 1954 -- **polio**, acute; 1,400 US deaths; AK subset -- 19
79. 1954 -- Feb 05, **USAF C-47 explodes in-flight**, Susitna Valley, 20M from Curry, AK-- 10
80. 1955 -- Feb 17, **USN P-2 Neptune hits Mt. Susitna** on Elmendorf AFB approach, AK--all 11
81. 1955 -- June 29, **USAF C-47 transport plane** hits Sitkinak Island mountain peak, AK--all 10
82. 1955 -- Sep 1, **USAF C-47 crash/burned**, emergency landing attempt, Skwentna, AK--all 12
83. 1955 -- Nov 29, **USAF F-84** (1) takeoff malfunction into base housing/13, Eielson AFB, AK-- 14
84. 1956 -- Aug 29, **Canadian Pacific Airlines** fl. 307 approach crash, Cold Bay AP, AK-- 15
85. 1956 -- Aug 31 Eielson AFB AK WB-50 **plane crash** 50 miles north of Anchorage AK--all 11
86. 1957 -- Jan 17, USAF Weather B-50 **plane crash** after takeoff near Eielson AFB, AK --all 12
87. 1958 -- Sep 09, USAF Douglas C47 **plane crash** taking off, Elmendorf AFB, Anchorage, AK-- 13
88. 1958 -- Dec 22, **USAF C-54** transport from Elmendorf AFB **crashes**, Mt. Iliamna, AK-- 15
89. 1959 -- **measles**, especially children; 385 US deaths; AK subset -- 11
90. 1959 -- Sep 24, **Reeve Aleutian Airways** fl. #3 approach crash, Great Sitkin Island, AK-- 16
91. 1960 -- **influenza**; 7,872 US deaths/death rate 4.4 per 100K; AK death rate 8.0 -- 18
92. 1960 -- **tuberculosis**; 10,866 deaths/death rate 6.1 per 100K; AK death rate 8.8 -- 20
93. 1960 -- June 14, **plane crash**, Pacific Northern Airlines 201, Mt. Gilbert (9000 ft), AK-- 14
94. 1961 -- **measles**; 434 US deaths/death rate 0.2 per 100K; AK 6.0 (US high) -- 14
95. 1961 -- **tuberculosis**, 9,938 US deaths/death rate 5.4 per 100K; AK death rate 8.1 -- 19
96. 1962 -- **measles**, 408 US deaths/death rate 0.2 per 100,000 population; AK 4.5 (US high)--11
97. 1962 -- **tuberculosis**; 9,508 US deaths/death rate 5.1 per 100K pop.; AK 7.7 -- 19
98. 1962 -- Sep 22, **USN Martin Marlin flies** into high ground, Montague Isl., Gulf of AK-- 10
99. 1963 -- **influenza**, 7,083 US deaths/death rate 3.8; AK death rate 6.9 -- 17
100. 1963 -- **measles**; 364 US deaths/death rate 0.2 per 100K; AK death rate 5.2  
 -- 13
101. 1963 -- **tuberculosis**, 9311 US deaths/ death rate 4.9 per 100K pop.; AK death rate 8.5-- 21
102. 1963 -- June 3, **Northwest Air 293plane crash**, , north Pacific off Annette Island, AK--101

**Alaska (continued):**

103. 1964 -- **tuberculosis**; US deaths 8,303/death rate 4.3 per 100K; AK death rate 6.0 -- 15
104. 1964 -- Mar 27, **earthquake (15)**, Prince William Sound and **tsunamis (108)**, related/4--125
105. 1964 -- Nov 27, **plane crash**, USN Lockheed P-2V Neptune, Cape Newenham, AK -- 12
106. 1964 -- Dec 17, Spanish stmr. **San Patrick** grounds on rocks/breaks-up, Ulak Isl., AK--all 32
107. 1965 -- **tuberculosis**, 7,934 US deaths, death rate 4.1 per 100K; AK death rate higher-- 12
108. 1966 -- Sep 12, **arson fire**, Lane Hotel, Anchorage, AK -- 14
109. 1967 -- Oct 9, freighter **Panoceanic Faith** founders/storm, 870m SW of Kodiak, AK--36-37
110. 1967 -- Dec 14, USN P2V-7 Neptune **plane crash** ~Sea Otter Glacier, Mt. Fairweather, AK-14
111. 1968 -- **tuberculosis**, 6,292 US deaths/death rate 3.15 per 100K; AK death rate 3.47-- 10
112. 1968 -- Dec 2, **Wien Consolidated Air #55** loses wing/turbulence/crashes, Pedro Bay, AK--39
113. 1969 -- **excessive natural cold**; ICD-8 code E901; 424 US deaths;<sup>27</sup> AK -- 10
114. 1969 -- **influenza**, ICD-8 codes 470-474; 5,971 US deaths/death rate 3.0 per 100K; AK 4.05-12
115. 1969 -- June 5, USAF reconnaissance **plane crash** (structural?), Bering Sea off Shemya, AK--19
116. 1970 -- **influenza**; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; AK 4.3<sup>28</sup>--13
117. 1970 -- **tuberculosis**; 5,217 US deaths/death rate 2.56 per 100K; AK death rate 3.29-- 10
118. 1970 -- Apr 21, Japanese fishing boat *Nitto Maru No 67* capsized/sank 20m off Unimak Isl., AK-17
119. 1970 -- Nov 27, **plane crash**, Capitol Air Douglas DC-8, Anchorage, AK -- 47
120. 1971 -- Sep 04, Juneau **approach crash**, Alaska Air 1866, Mt. Fair, Chilkat range, AK-111
121. 1972 -- **influenza**, ICD-8 codes 470-74; 4,986 US deaths/death rate 2.38 per 100K, AK 3.06-- 10
122. 1973 -- excessive **natural cold**; ICD-8 code E901; 381 US deaths; AK -- 12
123. 1973 -- Dec 11, US Navy R6D-1 **plane crash**, Great Sitkin Island (Adak approach), AK-10
124. 1975 -- Aug 30, Wien Air Alaska **approach crash** in fog, Sevuokuk Mt. ~Gambell, AK-10
125. 1976 -- exposure to excessive natural **cold/hypothermia**; 424 US deaths; AK<sup>29</sup> -- 14
126. 1977 -- exposure to excessive natural **cold/hypothermia**; 634 US deaths; AK<sup>30</sup> -- 15
127. 1977 -- Sep 06, Alaska Aeronautical Industries **flight 302 crash**, Mt. Iliamna, AK -- 13
128. 1978 -- Aug 25, Webber Air **charter crash**, Sumner Strait, NW of Prince of Wales Isl., AK-12
129. 1979 -- Dec 05, Canadian gillnet fishing boat **Salinta** found ashore at Tree Point, AK-- 10
130. 1981 -- Nov 30, scallop trawler **St. Patrick** toppled by wave, abandoned, 5m E Marmot Isl., AK-10
131. 1983 -- Feb 14, crab boats **Altair & Americus** capsize, *Altair* sinks, Bering Sea near AK-14
132. 1987 -- exposure to excessive natural **cold/hypothermia**; 326 US deaths; AK<sup>31</sup> -- 11
133. 1987 -- Nov 23, **approach crash**, Ryan Air Flight 103, Beechcraft 1900C, Homer, AK-- 18
134. 1989 -- exposure to excessive natural **cold/hypothermia**; 524 US deaths; AK<sup>32</sup> -- 10
135. 1990 -- exposure to excessive natural **cold/hypothermia**; 596 US deaths; AK<sup>33</sup> -- 24
136. 1991 -- exposure to excessive natural **cold/hypothermia**; 588 US deaths; AK<sup>34</sup> -- 14
137. 1992 -- exposure to excessive natural **cold/hypothermia**; 558 US deaths; AK<sup>35</sup> -- 13
138. 1993 -- exposure to excessive natural **cold/hypothermia**; 641 US deaths; AK<sup>36</sup> -- 14

<sup>27</sup> At 3.4 deaths per 100,000 population, this represented the highest death rate in the US – US average 0.2.

<sup>28</sup> While a small percentage of US influenza deaths, the state death rate was the 4<sup>th</sup> highest in the US.

<sup>29</sup> At 3.56 cold/hypothermia deaths per 100,000 population, AK had highest death rate in the US (average was 0.19).

<sup>30</sup> At 3.77 cold/hypothermia deaths per 100,000 population, AK had highest death rate in the US (average was 0.29).

<sup>31</sup> At 2.04 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.13).

<sup>32</sup> At 1.83 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.21)

<sup>33</sup> At 4.36 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.24).

<sup>34</sup> At 2.45 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.23.

<sup>35</sup> At 2.21 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.22).



**Alaska (continued):**

139.	1994 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 633 US deaths; AK <sup>37</sup>	--	18
140.	1995 -- Sep 22, <b>USAF AWACS Sentry plane crash</b> , bird strike, Elmendorf AFB, AK		--	24
141.	1996 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 685 US deaths; AK <sup>38</sup>	--	11
142.	1999 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 598 US deaths; AK	--	12
143.	2000 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 742 US deaths; AK	--	11
144.	2001 -- Oct 10, <b>PenAir flight 350 crash</b> after takeoff (wing icing), Dillingham, AK		--	10
145.	2002 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 646 US deaths; AK	--	19
146.	2005 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 700 US deaths; AK	--	15
147.	2006 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 519 US deaths; AK	--	14
148.	2007 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 711 US deaths; AK	--	19
149.	2009 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 616 US deaths; AK	--	19
150.	2010 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 710 US deaths; AK	--	12
151.	2010 -- <b>viral hepatitis</b> , ICD-10 code B-15-19; US death rate 2.4 per 100K; AK, 3.4		--	24
152.	2011 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 0.2 death rate; esp. AK 2.77	--	20
153.	2011 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; AK, 2.9		--	21
154.	2012 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 501 US deaths; AK	--	13
155.	2012 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100K; AK 3.1		--	23
156.	2013 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100K; AK 3.3		--	24
157.	2013 -- July 07, Rediske <b>Air-Taxi crash</b> , de Havilland DHC3 Otter, Soldotna, AK		--	10
158.	2014 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; AK, 4.9		--	36
159.	2015 -- exposure to excessive natural	<b>cold/hypothermia</b> , 815 US deaths; AK	--	18
160.	2015 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; AK, 2.6		--	19
161.	2016 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 731 US deaths; AK <sup>39</sup>	--	12
162.	2016 -- <b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.0 per 100K; AK, 3.1		--	23
163.	2017 -- exposure to excessive natural	<b>cold/hypothermia</b> , 804 US deaths; AK <sup>40</sup>	--	23
164.	2018 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 1,028 US deaths; AK	--	10
165.	2019 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 1,115 US deaths; AK	--	17
166.	2020 -- exposure to excessive	<b>natural cold</b> ; 919 US deaths/death rate 0.28; AK 3.01	--	22
167.	2021 -- exposure to excessive	<b>natural cold</b> ; 1,179 US deaths/death rate 0.36; AK 4.37	--	32

**Some Select/Notable Alaska Select Other Large Loss-of-Life Events:<sup>41</sup>**

1900 -- Aug 11, <b>Lituya Bay tsunami</b> , AK	--	5
1942 -- Apr 29, <b>USAAF B-18A plane crash</b> , Sharatin Mountain, near Kodiak, AK	--	7
1945 -- Mar 10, <b>USN PBY-5A Catalina</b> crash into mountain after takeoff, NAS Kodiak, AK	--	8
1945 -- Apr 07, <b>USN VPB-131</b> stalled in take-off turn and crashed, Casco Cove, Attu, AK	--	6
1945 -- Oct 3 <b>USN PBY-5A</b> from Cold Bay AK, crash, foot of Old Woman's Mt., Kodiak, AK	--	8
1945 -- Oct 29, <b>USAAF C-54 crash</b> 8.1M SE of destination, Elmendorf AFB, Anchorage, AK	--	5

<sup>36</sup> At 2.50 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.25).

<sup>37</sup> At 2.98 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.24).

<sup>38</sup> At 1.81 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.25).

<sup>39</sup> At 1.75 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.23).

<sup>40</sup> At 3.11 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.247).

<sup>41</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

**Alaska (continued):**

1947 -- Aug 15, <b>USAF B-17 crash</b> into Cold Bay, AK	-- all 8
1947 -- Dec 23, <b>USAF B-29</b> flies into east slope of Mount Hot Springs, 2 crew/3 rescuers, AK--5	
1947 -- Dec 31, <b>USAF B-29 weather recon. plane engine loss/crash</b> after takeoff, ~Elmendorf AFB AK--9	
1948 -- Nov 12, <b>USAF B-50 hit by C-47</b> , near Eielson Field runway, AK	-- 6
1949 -- Sep 02, <b>USAF C-47</b> from Elmendorf AFB crashed in waters of Cook Inlet, AK	--all 7
1950 -- July 29, <b>USAF C-54 transport</b> flies into Mount La Perouse, AK	-- all 6
1951 -- <b>whooping cough</b> , 960 US deaths, subset for AK	-- 0
1951 -- Apr 10, <b>USAF C-54D crash, glider pick-up attempt</b> ~Fairbanks-Ladd Army Airfield, AK--	8
1952 -- <b>diphtheria</b> (225 US deaths; 7 states in double digits), subset for AK	-- 8
1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for AK	-- 151
1953 -- <b>influenza</b> ; 9,500 US deaths; AK subset	-- 36
1953 -- <b>tuberculosis</b> (respiratory); 17,954 US deaths; AK subset	-- 101
1954 -- <b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; AK subset	-- 13
1954 -- <b>tuberculosis</b> (respiratory); 15,146 US deaths; AK subset	-- 82
1957 -- Jan 18, Evan Jones Coal <b>mine</b> explosion, Jonesville, AK	-- 5
1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	-- 87
1958 -- July 10, <b>tsunami</b> (quake), southeast Alaska, esp. Lituya Bay & Khantaak Isl., AK--	5
1959 -- <b>tuberculosis</b> ; 11,456 US TB deaths; AK subset	-- 25
1959 -- Apr 28, <b>fire</b> , coal-burning stove explosion, Nayakik residence, Point Barrow, AK	-- 8
1965 -- <b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; AK death rate 2.8	-- 7
1966 -- <b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for AK	-- 12
1970 -- excessive natural <b>cold</b> ; ICD-8 code E901; 466 US deaths; AK <sup>42</sup>	-- 7
1970 -- Aug 26, AK <b>Air Nat. Guard</b> C124 Globemaster flies into side of Pavlof Volcano, AK--7	
1971 -- excessive natural <b>cold</b> ; ICD-8 code E901; 361 US deaths, AK <sup>43</sup>	-- 7
1971 -- <b>tuberculosis</b> ; 4,501 US deaths/death rate 2.18 per 100K; AK/1.45	-- 5
1973 -- <b>influenza</b> ; 5,131 US deaths/death rate 2.43; AK death rate 2.70	-- 9
1974 -- <b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; AK, 2.32	-- 8
1975 -- <b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; AK, 1.62	-- 6
1982 -- <b>tuberculosis</b> , 1,807 US deaths/death rate 0.78 per 100K, AK, 1.11	-- 5
1985 -- Feb 04, <b>North Pacific Airlines</b> Inc. Beechcraft Queen Air icing crash 1.5M~Soldotna AK--9	
1986 -- exposure to excessive natural <b>cold/hypothermia</b> ; 301 US deaths; AK <sup>44</sup>	-- 9
1987 -- <b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; AK, 1.79	-- 7
1987 -- Sep 20, <b>Air North Charter</b> Piper Navajo crash, below min. alt., Eldred Rock Glacier, AK--5	
1987 -- Dec 23, <b>South Central Air</b> Piper engine problem on takeoff crash near Kenai AP, AK--6	
1988 -- exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; AK <sup>45</sup>	-- 9
1990 -- Feb 07, <b>Northern Mountain Helicopters Bell 205A-1 crash</b> , Stikine Riv. ~Shakes Glacier, AK--6	
1990 -- Jun 25, <b>Trail Lake Flying Service Cessna sightseeing crash</b> , mt. near Aialik Bay AK--5	
1991 -- Aug 14, <b>Haines Airways crash</b> , box canyon rising terrain in adverse weather, Gustavus, AK--	6
1992 -- Feb 23, <b>Rocky Mountain Helicopters crash</b> , cable underneath caught in rotor ~Hobart Bay, AK--6	
1992 -- May 03, <b>Jeffery H Roth Cessna 340 missing</b> near Yakutat, AK	-- 5

<sup>42</sup> At 2.21 deaths per 100,000 population, Alaska had highest state death rate in the US; US average 0.17.

<sup>43</sup> At 2.21 deaths per 100,000 population, Alaska had highest state death rate in the US; US average 0.17.

<sup>44</sup> At 1.65 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.13).

<sup>45</sup> At 1.66 deaths to hypothermia per 100,000 population, AK had highest State death rate in the US (average 0.18).

1992 -- July 30,	<b>DHC-2 Beaver crash</b> ;	pilot met bad weather, hard steep turn back/stalled ~Dillingham AK--	6
1992 -- Nov 12,	<b>USAF Beechcraft Huron crash</b> ,	mt. range descending towards Juneau AP. AK--	8
1994 -- June 23,	<b>Wings of Alaska floatplane</b>	attempts to land, flies into water/crashes, Taku Inlet AK--	7
1994 -- Aug 7,	<b>Uyak Air Service sightseeing plane</b> ,	pilot flew into heavy fog/crashed, Miners Pt. AK--	6
1994 -- Dec 10,	<b>Ryan Air Service Cessna flies into mt.</b>	(too-low altitude), 12M NW of Elim AK--	5
1995 -- June 20,	<b>Piper and Beaver planes collide</b>	over Nondalton, AK	-- all 5
1995 -- July 7,	<b>sightseeing Piper, while circling bears, flies into rapidly rising terrain</b> ,	Haines, AK--	6
1999 -- Mar 21,	<b>avalanche</b> ,	snowmobilers buried, Turnagain Pass, Kenai Mts., AK	-- 6
2001 -- Mar 21,	<b>avalanche</b> ,	snowmobilers, Turnagain Pass, AK	-- 6
2009 --	<b>H1N1 Swine Flu</b>	pandemic (subset of ~12,469 U.S. deaths)	--10-13
2015 -- June 25,	<b>plane crash</b> ,	cruise ship passengers, ~25M from Ketchikan, SE AK	-- 9
2017 --	<b>influenza</b> ;	6,515 US deaths/death rate 2.0 per 100K pop.; AK subset	-- 13
2018 --	<b>influenza</b> ,	ICD codes J09-11.8/death rate 3.41 per 100K pop., AK rate 2.85	-- 21
2020 --	<b>COVID-19</b> ;	354,215 US Covid deaths (avg. 1,070 per 1M); AK, 280 per 1M	-- 205
2021 --	<b>COVID-19</b> ;	437,984 US deaths/2.6K deaths per 1M pop.; AK rate 1.2K	-- 947
2022 --	<b>COVID-19</b> ;	217,370 US deaths/death rate 6.50; AK death rate 3.35	-- 245
2023 --	<b>COVID-19</b> ,	subset of 71,691 US deaths	-- 88

#### Breakout by Type of **Alaska** Large-Loss-of-Life Events (10 or more fatalities):

- 48 -- **Aviation**. (Plus 29 events incidentally noted with 5-9 deaths each.)
- 48 -- **Maritime and Inland watercraft**.
- 30 -- **Disease**, select communicable, especially epidemics. (Plus 21 events in Select Other.)
- 29 -- **Winter Weather, Cold, Hypothermia (exposure to excessive natural cold)**.
- 5 -- **Violence**.
- 3 -- **Mining**
- 1 -- **Avalanche**. (Plus two with 6 fatalities each in 1999 and 2001 in "Other.")
- 1 -- **Earthquake**.
- 1 -- **Fire, Structural**. (Plus one with 8 deaths in "Other.")
- 1 -- **Landslide**.
- 1 -- **Paralytic Shellfish Poisoning**.
- 1 -- **Tsunami**. (Plus two -- one with 5 deaths in 1900 and another with 5 deaths in 1958.)

## AZ

## Arizona

1. 1870 -- **smallpox** (State subset of 4,597 smallpox deaths nationwide) -- 95
2. 1871 -- Apr 30, **massacre** of Apache, Camp Grant Arivaipa, Arizona Territory --125-150
3. 1890 -- Feb 22, **dam failure** and **flood**, Walnut Grove, Hassayampa River, AZ -- 100
4. 1891 -- Feb 18-26, heavy rain, **flooding**, Central Highlands, esp. Clifton, AZ -- 18
5. 1898 -- **smallpox** Epidemic, Moqui Indian Tribe, AZ -- 220
6. 1903 -- Jan 28, **trains collide**/burn on Southern Pacific, Esmond, near Tucson, AZ --  $\geq$ 14
7. 1903 -- June 9, downpour, Chase Creek/San Francisco River **flash flood**, Clifton, AZ<sup>46</sup>--7-13
8. 1906 -- Dec 03, heavy rain, Detroit Copper Mine Co. **dam fails**, **flooding**, Clifton, AZ --18-20
9. 1912 -- **smallpox**, southeast AZ -- 15
10. 1918 -- fall, **influenza**, esp. Flagstaff, Winslow, Jerome, Fort Whipple, Seligman AZ --2,252
11. 1926 -- July 18-22, **heatwave**, especially Yuma vicinity (subset of 160-175 US deaths)-- 11
12. 1931 -- **epidemic cerebrospinal meningitis**;<sup>47</sup> AZ subset, 2,832 US meningitis deaths-- 58
13. 1931 -- **measles**, especially children (State subset, 3,576 measles deaths nationwide) -- 140
14. 1931 -- **tuberculosis**; subset of 81,395 US TB deaths --1,290
15. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; AZ 10.2 -- 45
16. 1931 -- July 24-30 especially, **excessive natural heat**, Salt River Valley, AZ -- 57
17. 1934 -- summer, **excessive natural heat** deaths; subset of 3,250 US heat deaths; AZ -- 33
18. 1936 -- summer, **excessive natural heat** (4,678-5,000 US heat deaths), AZ -- 45
19. 1938 -- Aug 01-02, **heatwave and excessive natural heat**, especially Phoenix, AZ -- 10
20. 1939 -- summer, **excessive heat** (subset of 527-1,073 heat deaths nationwide) -- 15
21. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); AZ rate 22.0 -- 110
22. 1940 -- **whooping cough**; 2926 US WC deaths/US death rate 2.2 per 100K, AZ 10.4 -- 52
23. 1941 -- **measles**, especially children (AZ subset of 2,279 Measles deaths nationwide) -- 95
24. 1942 -- Sep 11, **plane crash**, US Army Air Force B-24, Mt. Baldy, AZ -- 10
25. 1943 -- Jan 18, **plane crash**, US Army Air Force B-24, Bassett Peak, AZ -- 11
26. 1943 -- Jan 31, **plane crash**, US Army AF Consolidated Liberator, Tucson, AZ -- 11
27. 1943 -- Apr 12, **plane crash**, USAAF, near Davis-Monthan Field, Tucson, AZ -- 10
28. 1944 -- **measles**, especially Jan-June (State subset of 1,923 US measles deaths) -- 39
29. 1944 -- Jan 6, Army Air Force **bus** and **train** collide, Kingman Army Air Field, AZ -- 28
30. 1944 -- Feb 18, **planes collide**, USAAF B-24's, near Williams Field, AZ -- 17
31. 1944 -- Mar 18, **plane crash**, USAAF B-24H, near Davis-Monthan Field, Tucson, AZ-- 10
32. 1944 -- Apr 25, **planes collide**, USAAF B-24, near Yuma Army Air Field, AZ -- 12
33. 1944 -- Apr 28, **plane crash**, Navy R4D transport, Anderson Mesa, northern AZ -- 19
34. 1944 -- Nov 03, **planes collide**, USAAF, near Kingman Army Air Field, AZ -- 15
35. 1944 -- Nov 30, **planes collide**, USAAF B-24, ~Davis-Monthan AAF, Tucson, AZ -- 18
36. 1944 -- Dec 25, **plane crash**, USAAF C-47B, Black Mesa Mt., Quartzsite, AZ -- 17
37. 1947 -- Dec 16, **USAF B-29 crash** after Davis-Monthan Field takeoff near Tucson, AZ-- 12
38. 1949 -- Nov 10, cotton pickers **truck** & semi collide, US Hwy. 80 near Gila Bend, AZ-- 10
39. 1950 -- Mar 23, **USAF B-50 in-flight engine fire**/explosion/wing loss/crash NNW Hyder, AZ--12
40. 1950 -- Nov 16, USAF KB29 **tanker and B-50 collide**/crash ~Sil Nakya village, AZ -- 13
41. 1951 -- **measles**, 688 US deaths; subset for AZ -- 18

<sup>46</sup> These figures represent the varying reports on bodies recovered. News reports on the totality of lives thought to have been lost, mostly poor Mexican miner family members, range from 17 to 75, with many reporting 30-50.

<sup>47</sup> "Epidemic Cerebrospinal Meningitis," is name used for this malady in U.S. Census, *Mortality Statistics 1931*.

**Arizona (continued):**

42.	1951 --	tuberculosis	(respiratory), 31,163 US deaths, AZ subset	--	501
43.	1951 --	whooping cough	, 960 US deaths, subset for AZ	--	27
44.	1951 --	Dec 30, USAF C-47 transport flies into mountain	near Roosevelt, AZ	--all	28
45.	1952 --	Oct 29, plane crash	, USAF Stratofreighter, Gray Mountain, AZ	--	16
46.	1953 --	heat	, excessive natural (code E931), 576 US heat deaths, esp. Aug 22-Sep 5	--	19
47.	1953 --	measles	, 483 US deaths/23 states in double digits, AZ subset	--	10
48.	1954 --	dysentery	, infectious, all forms (codes 045-048), 655 US deaths; AZ	--	14
49.	1954 --	measles	; 524 US deaths; 21 states double digits; AZ subset	--	10
50.	1955 --	measles	, 345 US deaths (7 states double digits); AZ (4 <sup>th</sup> highest death toll)	--	25
51.	1956 --	June 30, TWA Flight 2 & United 718 collide	(all killed), Grand Canyon, AZ	--	128
52.	1956 --	Dec 16, car	, inebriated driver, hits train at Crossing, SW Phoenix, AZ	--	12
53.	1957 --	measles	; 389 US deaths; 15 states double digit deaths; AZ subset	--	15
54.	1957 --	fall-spring 1958, H2N2 Asian influenza/pneumonia	pandemic (US 116K) <sup>48</sup>	--	438
55.	1957 --	Oct 29, USAF KC-97G Stratofreighter crash	, Grey Mt. near Flagstaff, AZ	--all	16
56.	1959 --	tuberculosis	; 11,456 US TB deaths; AZ subset	--	163
57.	1959 --	June 08, farm labor truck/bus	crash, fuel explosion & fire, near Phoenix, AZ	--	17
58.	1960 --	tuberculosis	; 10,866 deaths/death rate 6.1 per 100K; AZ death rate 12.1	--	157
59.	1961 --	influenza	, 2,137 US deaths/death rate 1.2 per 100K; AZ death rate 1.4	--	19
60.	1961 --	tuberculosis	, 9,938 US deaths/death rate 5.4 per 100K; AZ death rate 9.4	--	131
61.	1962 --	measles	, 408 US deaths/death rate 0.2 per 100,000 population, AZ rate 0.9	--	13
62.	1962 --	tuberculosis	; 9,508 US deaths/death rate 5.1 per 100K pop.; AZ rate 9.7	--	146
63.	1963 --	dysentery	; 294 US deaths/death rate 0.2 per 100K pop.; AZ death rate 1.6	--	25
64.	1963 --	excessive heat	; 196 US deaths; AZ	--	10
65.	1963 --	measles	; 364 US deaths/death rate 0.2 per 100K; AZ death rate 1.5	--	24
66.	1963 --	tuberculosis	, 9311 US deaths/ death rate 4.9 per 100K pop.; AZ death rate 9.7	--	152
67.	1964 --	tuberculosis	; US deaths 8,303/death rate 4.3 per 100K; AZ death rate 7.1	--	142
68.	1964 --	May 11, train	hits station wagon with 8 children at crossing, near Mesa, AZ	--	10
69.	1965 --	tuberculosis	, 7,934 US deaths, death rate 4.1 per 100K; AZ death rate 7.5	--	121
70.	1966 --	measles	, 276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; AZ	--	10
71.	1966 --	tuberculosis	, 7,625 US TB deaths; subset for AZ	--	105
72.	1966 --	July 03, two cars collide	, Ajo Highway ~12 miles west of Three Points AZ	--all	10
73.	1967 --	Dec 13-20 snowstorms	; subset of 34-51 US deaths; esp. Navajo Res., AZ	--	14
74.	1968 --	influenza	, ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; AZ 4.1	--	67
75.	1968 --	tuberculosis	, 6,292 US deaths/death rate 3.15 per 100K; AZ 6.24 (2 <sup>nd</sup> high state)	--	102
76.	1969 --	excessive natural heat	, ICD-8 code E900; 271 US deaths; AZ (2 <sup>nd</sup> highest)	--	22
77.	1969 --	tuberculosis	, US death rate 2.76 per 100K; AZ 5.95 (2 <sup>nd</sup> highest state rate)	--	102
78.	1970 --	excessive natural cold	; ICD-8 code E901; 466 US deaths; AZ	--	11
79.	1970 --	excessive natural heat	, ICD-8 code E900; 179 US deaths; AZ	--	15
80.	1970 --	tuberculosis	; 5,217 US deaths/death rate 2.56 per 100K; AZ death rate 3.87	--	69
81.	1970 --	Aug 3, storm/lightning	, Navy P3A Orion turbulence breakup ~Searchlight NV <sup>49</sup>	10	
82.	1970 --	Sep 04-6, heavy rain, flash flooding	, Four Corners, AZ (26), CO, NM, UT (2) <sup>50</sup>	--	28

<sup>48</sup> "...in early September...New Mexico, Utah, and Arizona suffered explosive school and community outbreaks." (Communicable Disease Center. *Asian Influenza 1957-1960*. 1960, p. 13.)

<sup>49</sup> Cross-listed in Lightning.



### Arizona (continued):

83.	1970 -- Dec 20, Pioneer International Hotel <b>arson fire</b> , Tucson, AZ	--	29
84.	1971 -- excessive <b>natural cold</b> ; ICD-8 code E901; 361 US deaths; AZ	--	11
85.	1971 -- <b>tuberculosis</b> ; 4,501 US deaths/death rate 2.18 per 100K; AZ death rate 3.26	--	62
86.	1971 -- May 06, <b>Apache Airlines</b> Carstedt jetliner, wing failure/ <b>crash</b> Coolidge, AZ	--all	12
87.	1971 -- Oct 16, Scenic Airlines Cessna 402 <b>plane crash</b> , adverse weather, Peach Springs, AZ	--	10
88.	1972 -- <b>excessive natural heat</b> ; ICD-8 code E900; 234 US deaths; AZ	--	18
89.	1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; AZ 2.39	--	48
90.	1972 -- <b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; AZ death rate 2.97	--	58
91.	1973 -- <b>excessive natural cold</b> ; ICD-8 code E901; 381 US deaths; AZ	--	18
92.	1973 -- <b>excessive natural heat</b> ; ICD-8 code E900; 181 US deaths; AZ	--	12
93.	1973 -- <b>influenza</b> ; 5,131 US deaths/death rate 2.43; AZ death rate 2.49	--	53
94.	1973 -- <b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; AZ death rate 2.78	--	59
95.	1973 -- July 05, LP gas <b>railroad tank car fire/explosion</b> , Doxel Gas Co., Kingman, AZ	--	13
96.	1974 -- <b>excessive natural cold</b> ; ICD-8 code E901; 348 US deaths; AZ (highest US loss)	--	26
97.	1974 -- <b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; AZ death rate 2.47	--	55
98.	1975 -- exposure to <b>excessive natural cold</b> (ICD-8 E901); 359 US deaths; AZ	--	10
99.	1975 -- <b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; AZ death rate 2.62	--	60
100.	1975 -- July 03, car/truck-camper headon <b>collision</b> , Rt 98 Navajo Reservation, no. AZ	--	10
101.	1976 -- <b>excessive natural heat</b> ; ICD-8 E900; 100 deaths/death rate 0.05, AZ 0.47	--	11
102.	1976 -- <b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; AZ death rate 1.6	--	38
103.	1977 -- <b>excessive natural heat</b> (esp. summer), ICD-8 E900; US death rate 0.14, AZ, 0.58	--	14
104.	1977 -- <b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; AZ death rate 1.8	--	43
105.	1977 -- Mar 27, KLM & Pan AM <b>planes collide, fog</b> , Tenerife AP, Canary Isl., AZ victims	--	11
106.	1978 -- exposure to <b>excessive natural cold/hypothermia</b> ; 652 US deaths; AZ	--	14
107.	1978 -- <b>excessive natural heat</b> ; ICD-8 E900; US death rate 0.12, AZ, 1.23	--	31
108.	1978 -- <b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; AZ death rate 1.78	--	45
109.	1979 -- exposure to <b>excessive natural cold/hypothermia</b> ; 356 US deaths; AZ	--	12
110.	1979 -- <b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; AZ, 1.10	--	29
111.	1979 -- <b>excessive natural heat</b> ; ICD-9 code E900; esp. Maricopa County	--	15
112.	1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, AZ, 1.32	--	36
113.	1980 -- <b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; AZ, 1.25	--	34
114.	1980 -- summer (esp.) <b>heat</b> , esp. Maricopa County (14) and Yuma County (9), AZ	--	30
115.	1980 -- July 5-6, <b>smugglers abandon immigrants, dehydration</b> , Organ Pipe Cactus Nat. Mon., AZ <sup>51</sup>	--	13
116.	1981 -- <b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; AZ rate 1.35	--	38
117.	1981 -- summer (especially), <b>excessive natural heat</b> (ICD-9 E900 code); AZ	--	17
118.	1982 -- exposure to excessive natural <b>cold/hypothermia</b> ; 402 US deaths; AZ	--	14
119.	1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, AZ 0.52	--	15
120.	1982 -- <b>tuberculosis</b> , 1,807 US deaths/death rate 0.78 per 100K, AZ, 0.97	--	28
121.	1982 -- summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 196	--	15
122.	1983 -- <b>tuberculosis</b> , 1,779 US TB deaths/death rate 0.76 per 100K; AZ, 1.04	--	31
123.	1983 -- July-Aug, <b>heat</b> , especially Maricopa/10 and Yuma/6 Counties, AZ (597 US)	--	18

<sup>50</sup> The UT deaths were a Scottsdale, AZ couple who drove off a washed-out bridge near Aneth, UT, just no. of AZ.

<sup>51</sup> Noted as Violence in that smugglers abandoned immigrants (men, women, children), after stealing possessions (and an 18-month-old baby), and did not disclose that safety could be sought at a highway three miles away.

### Arizona (continued):

124.	1983 -- Aug 17, <b>Las Vegas Airlines</b> Flight 88 flies into mountain, Grand Canyon, AZ--	10
125.	1983 -- Sep 29 to Oct 3, storms, prolonged heavy rain and <b>flooding</b> , AZ <sup>52</sup>	-- 15
126.	1984 -- <b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; AZ, 1.01	-- 31
127.	1984 -- summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 228--	16
128.	1985 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; AZ	-- 13
129.	1985 -- summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 227--	21
130.	1986 -- <b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; AZ, 0.87	-- 29
131.	1986 -- June 18, <b>Grand Canyon Air &amp; Helitech helicopter collide</b> , Grand Canyon AZ--	25
132.	1987 -- exposure to excessive natural <b>cold/hypothermia</b> ; 326 US deaths; AZ	-- 14
133.	1987 -- <b>influenza</b> ; 632 US deaths, death rate 0.26 per 100K; AZ, 0.44	-- 15
134.	1987 -- <b>summer heat</b> , especially Maricopa County (5) and Yuma County (2), AZ	-- 11
135.	1988 -- exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; AZ	-- 12
136.	1988 -- <b>summer (especially), heat</b> , especially Maricopa (17) and Pinal (4) counties	-- 22
137.	1988 -- Oct 25, <b>helicopters crash</b> , USMC CH-46/UH-1N, Goldwater Gun. Range, AZ--	10
138.	1989 -- exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; AZ	-- 21
139.	1989 -- Mar 12, USAF CH-3C <b>helicopter crash</b> , 20 miles NW of Tucson ~Marana, AZ--	15
140.	1989 -- June-Aug (esp.), <b>heat</b> , ICD-9 E900 code for excessive heat and hyperthermia--	15
141.	1989 -- Sep 27, <b>plane crash</b> , Grand Canyon Airlines flight 5 (sightseeing), Tusayan, AZ-10	
142.	1990 -- exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; AZ	-- 23
143.	1990 -- <b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K, AZ rate 0.74	-- 27
144.	1990 -- summer esp. <b>heat</b> , ICD-9 E900 code for excessive <b>heat and hyperthermia</b> , AZ--	30
145.	1991 -- exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; AZ	-- 16
146.	1991 -- summer esp. <b>heat</b> , ICD-9 E900 code for excessive <b>heat and hyperthermia</b>	-- 10
147.	1992 -- exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; AZ	-- 21
148.	1992 -- <b>tuberculosis</b> , 1,705 US TB deaths, death rate of 0.66 per 100K; AZ rate 0.84--	33
149.	1992 -- June 19, <b>Adventure Air crash</b> , Grand Canyon sightseeing, ~Meadview, AZ--	10
150.	1992 -- July-Aug esp. (1 death in April), <b>heat</b> , esp. Maricopa, Yuma, Pima counties	-- 10
151.	1993 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; AZ	-- 20
152.	1993 -- <b>tuberculosis</b> , 1,631 US TB deaths, death rate of 0.63 per 100K; AZ, 0.69	-- 28
153.	1993 -- June-Aug (1 death in May), <b>heat</b> , esp. Maricopa (9) and Pima (5) counties	-- 19
154.	1994 -- exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; AZ	-- 16
155.	1994 -- <b>influenza</b> , 1,229 US deaths; death rate 0.47 per 100K; AZ, 0.66	-- 28
156.	1994 -- <b>tuberculosis</b> ; subset, 1,478 US TB deaths; US death rate .56 per 100K; AZ, .61-26	
157.	1994 -- May-Sep (esp. June-July), <b>heat</b> , esp. Maricopa/14, Pima/11 counties; 221 US deaths--	47
158.	1995 -- <b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K; AZ, 0.61	-- 27
159.	1995 -- Apr 09, dust storm-related <b>vehicle accidents</b> , Bowie, AZ	-- 10
160.	1995 -- May-Oct, esp. July (24) Aug (19), <b>heat</b> , esp. Maricopa (17) Pima (12) counties	-- 51
161.	1996 -- exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; AZ	-- 11
162.	1996 -- <b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; AZ, 0.305--	14
163.	1996 -- June-Aug (esp.), <b>excessive heat</b> , especially Maricopa County (18), AZ	-- 54
164.	1997 -- exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; AZ	-- 20
165.	1997 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, AZ, 0.51	-- 24

<sup>52</sup> Not all were flood deaths: one was auto accident on wet road, two when US Navy bomber crashed in storm, two in Public Safety Dept. helicopter crash in rescue attempt. Ten drownings and five storm and flooding related deaths.



### Arizona (continued):

166.	1997 -- Aug 12, flash <b>flood</b> , Antelope Canyon, near Page, AZ	--	11
167.	1997 -- May-Sep, <b>heat</b> , esp. Maricopa (11), Pima (4), Yuma (3) and Cochise (2) counties	--	23
168.	1998 -- exposure to excessive natural <b>cold/hypothermia</b> ; 420 US deaths; AZ	--	16
169.	1998 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; AZ, 0.49	--	24
170.	1998 -- June-Sep (esp. July-Aug), <b>heat</b> , esp. Maricopa (37), Pima (11) Yuma/11 counties--		74
171.	1999 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; AZ, 0.617--		31
172.	1999 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; AZ, 0.418	--	21
173.	1999 -- March, May-Oct, Dec (esp. June-Aug), <b>heat</b> , esp. Maricopa and Yuma counties--		58
174.	2000 -- exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; AZ	--	18
175.	2000 -- <b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; AZ, 0.292	--	15
176.	2000 -- Apr 08, USMC tilt-rotor <b>Osprey V-22 crash</b> , Marana Airport ~Tucson, AZ	--	19
177.	2000 -- June-Aug esp., <b>heat</b> , esp. Pima (26) and Maricopa (21) Counties	--	66
178.	2001 -- exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; AZ	--	22
179.	2001 -- <b>excessive natural heat</b> ; 538 US deaths; esp. Pima/37 and Maricopa Co.'s/21--		74
180.	2001 -- May ~24, <b>heat</b> , undocumented immigrants abandoned by smugglers, AZ desert--		14
181.	2002 -- exposure to excessive natural <b>cold/hypothermia</b> ; 646 US deaths; AZ	--	17
182.	2002 -- <b>excessive natural heat</b> , esp. counties of Pima (75), Maricopa (38), Yuma (8)--		130
183.	2002 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.273 per 100K; AZ rate 0.426--		23
184.	2003 -- exposure to excessive natural <b>cold/hypothermia</b> ; 620 US deaths; AZ	--	20
185.	2003 -- Apr-Oct, <b>heat</b> , esp. counties of Pima (65) Maricopa (49) and Yuma (10)	--	153
186.	2004 -- exposure to excessive natural <b>cold/hypothermia</b> ; 676 US deaths; AZ	--	18
187.	2004 -- <b>excessive heat</b> , esp. June-Sep, esp. Pima/57, Maricopa/42, Yuma/16 counties--		130
188.	2005 -- exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths;	--	32
189.	2005 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; AZ, 0.29	--	17
190.	2005 -- <b>excessive heat</b> , July esp., esp. Pima/116, Maricopa/75, Yuma/29 counties, AZ--		244
191.	2006 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; AZ	--	21
192.	2006 -- <b>excessive heat</b> , July esp., esp. Maricopa (53), Pima (50), Yuma (14) counties--		169
193.	2006 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.285 per 100K; AZ, 0.299	--	11
194.	2006 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; AZ rate 0.35	--	21
195.	2006 -- Aug 07, <b>SUV</b> with illegals flips evading Border Patrol spike strip, ~Yuma, AZ--		10
196.	2007 -- exposure to excessive natural <b>cold/hypothermia</b> ; 711 US deaths; AZ	--	19
197.	2007 -- <b>excessive natural heat</b> , especially counties of Maricopa (51) and Pima (54)	--	134
198.	2007 -- <b>tuberculosis</b> , death rate 0.184 per 100K; AZ, 0.195	--	12
199.	2008 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; AZ, 0.35	--	22
200.	2008 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; AZ, 0.24	--	15
201.	2008 -- <b>excessive natural heat</b> , especially counties of Maricopa (50) and Pima (34)	--	112
202.	2009 -- exposure to excessive natural <b>cold/hypothermia</b> ; 616 US deaths; AZ	--	24
203.	2009 -- <b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); AZ, 0.7	--	44
204.	2009 -- <b>H1N1 "swine flu,"</b> especially spring through winter, AZ	--	140-152
205.	2009 -- <b>excessive natural heat</b> , especially counties of Maricopa (74) and Pima (48) <sup>53</sup> --		156
206.	2009 -- June 6, illegal immigrant (22) <b>smuggling SUV</b> blowout/rolls, ~Sonoita, AZ	--	11
207.	2010 -- exposure to excessive natural <b>cold/hypothermia</b> ; 710 US deaths; AZ	--	19
208.	2010 -- <b>excessive natural heat</b> ; 874 US deaths, esp. Maricopa and Pima counties, AZ--		228

<sup>53</sup> AZ had the largest loss of life to heat than any other state in the country in 2009.

### Arizona (continued):

209.	2010	--	<b>viral hepatitis</b> , ICD-10 code B-15-19; US death rate 2.4 per 100K; AZ, 3.5	--	224
210.	2011	--	exposure to excessive natural <b>cold/hypothermia</b> ; 0.2 death rate; AZ 0.309	--	20
211.	2011	--	exposure to <b>excessive natural heat</b> , 1,060 US deaths, esp. Clark Co. (106)	--	229
212.	2011	--	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; AZ 3.4	--	221
213.	2012	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, death rate 0.8 per 100K; AZ 0.9	--	60
214.	2012	--	exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; AZ	--	14
215.	2012	--	<b>viral hepatitis</b> , ICD-10 code B-15-19, US death rate 2.6 per 100K; AZ 4.4	--	291
216.	2012	--	exposure to <b>excessive heat</b> , especially Maricopa County (102), AZ	--	209
217.	2013	--	<b>viral hepatitis</b> , ICD-10 code B-15-19; US death rate 2.6 per 100K; AZ 4.3	--	283
218.	2013	--	exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths, AZ <sup>54</sup>	--	30
219.	2013	--	<b>excessive natural heat</b> , 651 US deaths; AZ subset, esp. Maricopa Co./75	--	151
220.	2013	--	June 30, <b>wildfire</b> , Granite Mt. Hotshot firefighters killed, Yarnell Hill, AZ	--	19
221.	2014	--	exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; AZ	--	20
222.	2014	--	<b>viral hepatitis</b> , ICD-code B15-B19, US death rate 2.5 per 100,000; AZ, 4.2	--	283
223.	2014	--	summer (especially), exposure to <b>excessive natural heat</b> , AZ	--	91
224.	2015	--	exposure to excessive natural <b>cold/hypothermia</b> , 815 US deaths; AZ	--	23
225.	2015	--	<b>excessive natural heat</b> , esp. Maricopa Co. (85), Pima Co. (29) AZ (led US)	--	139
226.	2015	--	<b>tuberculosis</b> , ICD-10 Codes A16-19; US death rate 0.1 per 100K; AZ, 0.2	--	12
227.	2015	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; AZ, 3.9	--	267
228.	2016	--	exposure to <b>excessive natural heat</b> ; subset 786 US deaths, esp. Maricopa Co.	--	219
229.	2016	--	<b>diarrhoea/Gastroenteritis</b> , infectious origin, US death rate 0.7 per 100K; AZ 0.9	--	60
230.	2016	--	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; AZ	--	21
231.	2016	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.9 per 100K, AZ rate 2.4	--	164
232.	2016	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; AR, 3.1	--	217
233.	2017	--	exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths; AZ	--	26
234.	2017	--	exposure to <b>excessive natural heat</b> ; 817 US deaths, esp. Maricopa Co. (179)	--	264
235.	2017	--	July 16, flash <b>flood</b> , Verde River, Tonto National Forest, Phoenix north, AZ	--	10
236.	2018	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; AZ	--	19
237.	2018	--	exposure to <b>excessive natural heat</b> ; 1,012 US deaths; AZ highest loss in US	--	252
238.	2019	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths; AZ	--	38
239.	2019	--	exposure to <b>excessive natural heat</b> ; US death rate 0.27, AZ 3.00	--	283
240.	2019	--	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, AZ, 1.21	--	88
241.	2020	--	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); 1,218 AZ deaths per M	--	8,864
242.	2020	--	exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; AZ 0.36	--	27
243.	2020	--	<b>excessive heat</b> , natural sources, especially Maricopa County (322), AZ	--	522
244.	2021	--	<b>COVID-19</b> , 437,984 US deaths/2.6K deaths per 1M pop.; AZ, 3.3K	--	15,365
245.	2021	--	exposure to <b>excessive natural heat</b> ; 1,923 US heat deaths; AZ led US with	--	854
246.	2022	--	<b>exposure to excessive natural heat</b> ; 2,159 US deaths; AZ (US high)	--	1,030
247.	2022	--	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; AZ death rate 10.93	--	7,953
248.	2023	--	<b>COVID-19</b> , subset of 71,691 US deaths (AZ had highest 2020-23 death rate)	--	1,592
249.	2023	--	<b>excessive natural heat</b> ; 2,155 US deaths; subset for AZ, esp. Maricopa Co.	--	867

<sup>54</sup> At 0.45 deaths per 100K pop., 2<sup>nd</sup> highest state death rate for hypothermia in 2013. MN was 0.46; US was 0.23.

### Some Select/Notable Other **Arizona** Large Loss of Life Events:<sup>55</sup>

1861 -- Dec-Jan 1862, <b>flooding</b> , Angel, Bright, Colorado, Gila, Verde, Yuma river basins-- <sup>56</sup>	?
1889-90, June-May, <b>croup</b> , (subset of 13,862 U.S. croup deaths)	-- 10
1889-90, June-May, <b>diphtheria</b> , AZ	-- 16
1889-90, June-May, <b>measles</b> , subset of 9,256 US measles deaths	-- 14
1889-90, June-May, <b>typhoid fever</b> , AZ subset of 27,058 US typhoid deaths	-- 15
1900 -- <b>diphtheria</b> (subset of 16,475 US diphtheria deaths in 1900)	-- 15
1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 22
1900 -- <b>measles</b> (subset of 12,866 US measles deaths)	-- 69
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	-- 18
1900 -- <b>tuberculosis</b> (subset, 109,750 tuberculosis deaths), out of 1,223 AZ total deaths	-- 152
1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	-- 22
1927 -- <b>polio</b> (acute) esp. late Summer and Fall (subset, 2,013 polio deaths nationwide)	-- 25
1931 -- <b>influenza</b> (AZ subset of 31,701 US influenza deaths)	-- 142
1936 -- Nov 19, Bates coal <b>mine</b> explosion, Bates, AZ	-- 5
1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec; subset of 1,997 US diphtheria deaths; AZ	-- 18
1939 -- <b>influenza and pneumonia</b> (AZ subset, 99,097 U.S. influenza/pneumonia deaths)	-- 496
1939 -- <b>tuberculosis</b> (AZ subset of 61,609 US tuberculosis deaths)	-- 741
1939 -- <b>whooping Cough</b> (State subset of 3,026 whooping cough deaths nationwide)	-- 45
1940 -- <b>influenza and pneumonia</b> (AZ subset of 92,525 U.S. flu and pneumonia deaths)	-- 612
1940 -- <b>tuberculosis</b> (State subset of 55,576 tuberculosis deaths nationwide)	-- 674
1942 -- Apr 06 USAAF <b>plane crash</b> , Santa Catalina Mts. near Davis Monthan Field, AZ	-- 5
1944 -- <b>tuberculosis</b> (State subset of 54,731 tuberculosis deaths nationwide)	-- 784
1944 -- <b>whooping cough</b> (State subset of 1,878 whooping cough deaths nationwide)	-- 37
1945 -- Jan 20, <b>USAAF B-25D</b> Mitchell bomber crash, Wrong Mt., Saguaro Nat. Park, AZ--	5
1945 -- June 29, <b>USAAF TB-24</b> No.2 engine power loss after takeoff/crash, 6M SE Chandler AZ--	7
1945 -- July 24, <b>USAAF TB-29</b> on-board fire/explosion/crash near Oracle Junction, AZ	-- 6
1945 -- Aug 11, <b>USAAF B-25</b> training flight crash into mountain 25M SSW of Yucca AZ--	all 5
1946 -- <b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths)	-- 12
1948 -- <b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	-- 18
1949 -- <b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	-- 15
1950 -- <b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	-- 6
1951 -- <b>polio</b> , July-Nov especially; (1,551-1,555 US polio deaths), subset for AZ	-- 20
1952 -- <b>dysentery</b> , infections (all forms); 949 US deaths; subset for AZ	-- 18
1952 -- <b>measles</b> , 621 US deaths; 24 states double digits; subset for AZ	-- 10
1952 -- <b>polio</b> , subset of ~3,300 US polio deaths	-- 29
1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; AZ subset	-- 362
1952 -- Mar 26, <b>USAF B-29 Superfortress plane crash</b> , Davis Monthan AFB, Tucson, AZ--	8
1953 -- <b>influenza</b> ; 9,500 US deaths; AZ subset	-- 45
1953 -- <b>polio</b> (State subset of 1,450 polio deaths nationwide)	-- 21
1953 -- <b>tuberculosis</b> (respiratory); 17,954 US deaths; AZ subset	-- 302

<sup>55</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>56</sup> Have not seen numbers for this epical flooding event for repetitive storms of tropical storm (if not hurricane) force for entire Pacific coast, continuing inland. Settlements in AZ were reportedly damaged and some washed away.

### Arizona (continued):

1954 --	<b>heat</b> (especially July); 978-984 US heat-related deaths; subset for AZ	--	7
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; AZ subset	--	244
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; AZ subset	--	256
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US TB deaths; AZ subset	--	200
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; subset for AZ	--	199
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; subset for AZ	--	201
1959 --	rainfall and flash <b>flood</b> drownings and a fatal car accident on rainswept road, AZ	--	6-7
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; AZ death rate 2.3	--	30
1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; AZ death rate 0.6	--	9
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; AZ death rate 1.6	--	25
1963 --	Mar 29, <b>natural gas leak explosion</b> , Supreme Cleaners, Tucson, AZ	--	7
1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; AZ death rate 0.4	--	5
1964 --	July 30 pm, <b>flash flood</b> /bridge destroyed/car goes into Nazlini Wash near Chinle, AZ	--	7
1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; AZ death rate 0.7	--	12
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for AZ	--	34
1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; AZ	--	8
1968 --	Sep-Mar 1969, A2 Hong Kong <b>influenza</b> -pneumonia epidemic, Phoenix & Tucson	--	92
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; AZ 2.57	--	44
1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; AZ 1.12	--	20
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; AZ, 0.719	--	16
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.986 pre 100K; AZ, 1.6	--	37
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; AZ 2.4	--	57
1977 --	<b>chickenpox</b> , 89 US chickenpox deaths/death rate 0.04 per 100K, AZ rate 0.21	--	5
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; AZ death rate 1.35	--	34
1980 --	July 21, <b>Scenic Airlines Cessna 404 Titan II crash</b> on takeoff, Tusayan, AP	--	all 8
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, AZ death rate 1.31	--	37
1981 --	Jan 12, <b>Beechcraft A36 Bonanza icing crash</b> , Aubrey Cliffs area ~Grand Canyon, AZ	--	6
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, AZ death rate 0.50	--	16
1985 --	<b>measles</b> , (subset of 5 US measles deaths)	--	1
1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; AZ rate 0.69	--	22
1986 --	<b>influenza</b> , 1,838 US flu deaths; death rate 0.76 per 100K, AZ rate 0.45	--	15
1986 --	summer <b>excessive natural heat</b> ; >400 U.S. heat-related fatalities; AZ	--	8
1986 --	July 12, <b>Scottsdale Aero Mech Flying Cessna approach crash</b> , Bullhead City AZ	--	6
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; AZ rate 3.19	--	110
1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, AZ rate 0.70	--	24
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8; AZ rate 4.26	--	151
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; AZ death rate 0.42	--	15
1988 --	<b>tuberculosis</b> ; 1,921 US TB deaths, death rate 0.78 per 100K; AZ rate 0.68	--	24
1988 --	Oct 16, <b>Northern Arizona Aircraft</b> sightseeing <b>engine failure crash</b> , Sedona, AZ	--	5
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate per 100K 8.9, AZ death rate 5.37	--	195
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; AZ rate 0.61	--	22
1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; AZ rate 0.63	--	23
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; AZ rate 0.57	--	21
1990 --	July 27, <b>US Army Black Hawk helicopter crash</b> (uncommanded spin), Fort Chafee, AZ	--	5



### Arizona (continued):

1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, AZ rate 0.63	--	24
1991 --	May 13, <b>Air Grand Canyon</b> engine failure on takeoff, landing crash, Grand Canyon AZ--		7
1991 --	Dec 10, <b>Las Vegas Airlines</b> Piper Chieftain crash into Mt. Wilson, poor weather, AZ--		5
1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, AZ rate 0.31	--	12
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate of 0.40 per 100K, AZ rate 0.30	--	12
1993 --	July 4, <b>Cessna Crusade "joy ride" crash</b> at 3:20 a.m., short of runway, Prescott, AZ--		5
1995 --	Feb 13, <b>Las Vegas Airlines Piper takeoff engine loss and crash</b> , Tusayan, AZ	--	8
1995 --	Sep 2, <b>Cessna turbocharger glitch after takeoff, returns to AP, improper landing crash</b> , Beaver Dam AZ--		8
1996 --	<b>tuberculosis</b> , AZ subset of 1,202 US TB deaths, death rate 0.45 per 100K, AZ, 0.39	--	18
1997 --	<b>influenza</b> , code 487.0; US death rate 0.26 per 100K (720 US deaths); AZ, 0.232	--	11
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; AZ rate 0.25	--	12
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; AZ, 0.273	--	14
2001 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.268 per 100K; AZ rate 0.209	--	11
2002 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.253 per 100K; AZ rate 0.241	--	13
2003 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; AZ rate, 0.363	--	20
2003 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; AZ rate 0.22	--	12
2004 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; AR rate 0.21	--	12
2005 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; AZ rate 0.565	--	33
2008 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; AZ rate 0.32	--	20
2009 --	<b>diarrhoea/gastroenteritis</b> of infections origin; US death rate 0.9 per 100K; AZ 0.8--		50
2009 --	Jan 30, tour <b>bus</b> crash (loss of control and rollover), Dolan Springs, AZ	--	7
2009 --	Dec 22, <b>dust storm, auto</b> collisions, Casa Grande, south of Phoenix, AZ	--	3
2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; AZ, 0.8--		54
2010 --	<b>influenza</b> , 500 US flu deaths, US death rate 0.2 per 100K; AZ rate 0.2	--	10
2010 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; AZ rate 0.2	--	15
2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; AZ below US 0.9 per 100K death rate	--	43
2011 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5; AZ rate 0.5	--	32
2011 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US, and AZ, death rate 0.2 per 100,000	--	14
2011 --	Jan 08, mass <b>shooting</b> (inc. Gabby Giffords), grocery parking lot, Casas Adobes, AZ--		6
2011 --	Nov 23, <b>Ponderosa Aviation Inc. small plane crash</b> , Superstition Mountains, AZ--		6
2012 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.4 per 100K; AZ rate 0.3	--	20
2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; AZ, 0.6--		43
2013 --	<b>influenza</b> , ICD-10 Codes J09-J11; US death rate 1.2 per 100,000; AZ rate 0.7	--	47
2013 --	<b>tuberculosis</b> , ICD-10 Code A16-A19; US and AZ death rate 0.2 per 100,000	--	15
2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; ICD-10 code A09; US & AZ death rate 0.8 per 100K--		52
2014 --	<b>influenza</b> (ICD-10 codes J09, J10, J11), US avg. death rate 1.4; AZ death rate 1.2--		78
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; ICD-10 code A09; US & AZ death rate 0.8 per 100K--		56
2015 --	<b>influenza</b> (ICD-10 codes J09-11, US avg. death rate 1.6 per 100,000; AZ was 0.6	--	41
2016 --	<b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; AZ death rate 1.4	--	97
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; AZ death rate 1.28	--	90
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; AZ death rate 1.71	--	120
2017 --	<b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; AZ subset	--	10
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; AZ death rate 1.22	--	80
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., AZ death rate 2.97	--	213

2018 --	tuberculosis	ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; AZ subset	--	10
2019 --	HIV/AIDS	5,054 US deaths/death rate of 1.54 per 100,000 pop.; subset AZ	--	68
2019 --	tuberculosis	ICD-10 codes A16-A19 (526 US TB deaths); AZ subset	--	11
2020 --	HIV/AIDS	ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; AZ 0.98	--	73
2020 --	influenza	5,943 US deaths/death rate 1.8 per 100K; AZ 1.39	--	103
2020 --	tuberculosis	ICD-10 codes A16-A19 ; 600 US deaths; AZ	--	15
2021 --	exposure to excessive natural cold	1,179 US deaths/death rate 0.36; AZ 0.33	--	24
2021 --	HIV/AIDS	4,977 deaths/death rate 1.50 per 100K; AZ death rate 1.39	--	94

#### Breakout by Type of **Arizona** Large-Loss-of-Events (10 or more fatalities):

- 94 -- **Disease**, especially communicable, especially epidemics. (Plus 111 in “Other.”)
- 59 -- **Heat** (Exposure to excessive natural heat.) Seven deaths in 1954 and 8 in 1986.
- 42 -- **Winter Weather/Cold/Hypothermia (exposure to excessive natural cold)**. Plus 1.
- 29 -- **Aviation**. (Plus 17 events noted with 5-8 deaths each.)
- 10 -- **Vehicular/Road/Highway**. (Plus two – one with 7 and one with 4 fatalities in “Other.”)
- 8 -- **Floods/flooding**. (Plus 2, 7 deaths each, 1959 and 1964 flash floods.)
- 4 -- **Rail**. (Two are cross-listed in Road/Highway/Vehicular -- RR crossing events.)
- 3 -- **Violence**. Plus 6 deaths in 2011 shooting.
- 2 -- **Fire, Structural**. (One cross-listed in rail and in explosions.)
- 2 -- **Structural Failures (dams)**
- 1 -- **Lightning**. (Cross-listed in Aviation.)
- 1 -- **Wildfire**.
- 0 -- **Explosions**. (But a 1963 natural gas leak explosion in Tucson, with 7 deaths.)
- 0 -- **Mining**. (But 5 lives lost in 11-19-1936 Bates coal mine explosion.)

## AR

## Arkansas

1. 1542 --Mid-May, **massacre**, de Soto's men attack Natives in Nilco province town, AR~100
2. 1811 -- Dec 16-Feb 7, 1812, **New Madrid earthquakes**, esp. Big and Little Prairie vic.-->20
3. 1832 -- Apr 09, steamer **Brandywine** burns, Miss. River, Brandywine Island, AR --60-155
4. 1836 -- June 09, steamboat **Rob Roy** boiler explosion, Miss. River, near Columbia, AR-- 17
5. 1839 -- Nov 18, **Wilmington** boiler explosion, MS Riv., ~AR Riv. and Napoleon, AR -- 6-10
6. 1838 -- Nov 25, **General Brown** boiler explosion, Mississippi River, Helena, AR --30-60
7. 1840 -- Nov 07, steamboat **Persian** boiler flue collapse, MS Riv., near Napoleon, AR -- >25
8. 1840 -- Dec 12, steamboat **Cherokee** explosion, Arkansas River, Lewisburg, AR -- 17
9. 1841 -- Steamer **Carolina** snags, Mississippi River, Osceola, AR -- 34
10. 1845 -- Dec 11, steamer **Caspian** snags/sinks, Mississippi River, Island No. 25, AR -- 40
11. 1845 -- Dec 18-19, steamer **Belle Zane** snags/capsizes, MS Riv., Island No. 75, AR --40-76
12. 1847 -- May 06, steamboat **New Hampshire** boiler explosion, Ark riv., Pine Bluff AR--12-18
13. 1848 -- May 27, stmr. **Clarksville** burns, MS River, ~Isl. 75/Ozark Isl. ~Napoleon, AR--21-41
14. 1849 -- Summer-winter, **cholera**, AR -- 33
15. 1850 -- Spring, **cholera** (we only have information on the spring) -- 54
16. 1850 -- Jan 23, **St. Joseph** boiler explos., MS Riv., Islands No 80/81, ~Napoleon, AR -- 8-20
17. 1851 -- Mar 02, steamer **Oregon** boiler explosion/fire, Miss. River, Island No. 82, AR --20-21
18. 1851 -- May 31-July 26, **cholera** outbreak, Fort Smith, AR -- 37
19. 1851 -- Dec 04 or 09, steamboat **Clermont** snags, sinks, White River ~Augusta, AR --20-23
20. 1852 -- Feb 16, stmr. **May Queen** flues collapse, Ark. Riv., 45m below Little Rock AR-- 12
21. 1852 -- Apr 16, steamer **Pocahontas** fire, MS Riv., Island No. 78, Choctaw Bend, AR--10-11
22. 1854 -- Jan 09, steamboat **General Bem** snags/lost, Arkansas Riv., Walnut Bend, AR -- 10
23. 1854 -- Mar 05, steamboat **Caroline** burns White Riv. ~20M from MS Riv. mouth, AR --45-60
24. 1857 -- Mar 30, steamer **Forest Rose** boiler explosion, Miss. Riv., near Napoleon AR --11-14
25. 1857 -- Nov 21, steamer **Rainbow** burns/sinks, MS Riv., Victoria Bend, Napoleon AR--62-75
26. 1858 -- Jun 13, **Pennsylvania** boiler explos./fire, MS River, Ship Isl., Hardin Pt., AR--60-160
27. 1859 -- Apr 24 steamer **St. Nicholas** boiler explosion/fire, MS Riv., 9m above Helena AR--60
28. 1860 -- **croup** (contagious upper airway viral infection), subset 15,188 US croup deaths-- 377
29. 1860 -- **scarlet fever** (subset of 26,402 deaths in 38 Census States & DC), AR -- 437
30. 1860 -- **typhoid fever**; 19,236 deaths in 38 "registration" States and DC; AR -- 599
31. 1860 -- **whooping cough**; 8,408 US whooping cough deaths; AR -- 187
32. 1862 -- Feb 23, Confederate steamer **Cambridge** snags, Grand Glaise, AR -- 42
33. 1862 -- Aug 21, steamer **Acacia** snags, sinks, Mississippi River, Grand Cut Off, AR -- ~40
34. 1864 -- Apr 18, Rebels & Choctaws **kill wounded** and captured blacks, Poison Spring-- >10
35. 1864 -- Apr 25, Rebels **murder** runaway slaves with Union force, Marks' Mills -->100-150
36. 1864 -- Apr 30, captured and/or wounded soldiers **killed**, Battle of Jenkins' Ferry -- >20
37. 1865 -- Mar 02, Union transport **James Watson** snags/burns, MS River, Island No. 76, AR --34-35
38. 1865 -- Apr 27, steamer **Sultana** boiler explos./fire, Miss. Riv., Redman Point --1,547-2000
39. 1865 -- Nov 24, steamer **Niagara** sinks after *Post Boy* collision, MS Riv. ~Prairie Pt., AR- 75
40. 1865 -- Dec 01, steamer **Progress** snags/sinks, Arkansas Riv., 20m below Fort Smith AR--20
41. 1866 -- Jan 28, steamer **Miami** boiler explosion and fire, Arkansas River ~Napoleon AR-- 40
42. 1866 -- May 31, **City of Memphis** boiler explosion/fire, MS Riv. off Buck Island AR -11~60
43. 1866 -- July 28-Oct 4, **cholera**, especially Fort Smith/75, also Helena, Little Rock AR-- >85
44. 1867 -- July (summer-?), **cholera**, especially Helena, AR -- >26



## Arkansas (continued):

45. 1869 -- Apr 10, steamboat **G.A. Thomson** snags/burns, AR Riv. ~40M below Little Rock AR--17
46. 1870 -- **diarrhoea** (173), **dysentery** (39), and **enteritis** (94); from U.S. Census -- 306
47. 1870 -- **measles** (AR subset of 9,237 measles deaths nationwide) -- 204
48. 1870 -- **typhoid fever** (AR subset of 22,187 typhoid fever deaths nationwide) -- 237
49. 1870 -- **whooping cough** (AR subset of 9,008 whooping cough deaths nationwide) -- 219
50. 1873 -- **cholera**, Chicot, Helena, Little Rock Osceola, Perkins Plantation, Pine Bluff --76-77
51. 1870 -- Dec 18, **Nick Wall** snags and sinks Mississippi River, near Napoleon, AR -- 39
52. 1873 -- Aug 22, **George C. Wolfe** boiler explos., MS Riv., St Francis Is. ~Helena AR --15-30
53. 1874 -- Apr 30-May 9 "Brooks-Baxter (contending Govs.) **War**" Little Rock AR -- >200
54. 1878 -- Aug-Oct, **yellow fever**, esp. Helena, Hopefield, and Terrene Landing, AR --37-56
55. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)-- 495
56. 1879 -- June-May 1880, **malarial fever**, (AR subset, 20,231 such deaths U.S.) --1,046
57. 1879 -- June-May 1880, **measles**, especially children (AR subset, 8,254 measles deaths)- 254
58. 1879 -- June-May 1880, **meningitis** (AR subset of 7,481 meningitis deaths nationwide)-- 180
59. 1879 -- June-May 1880, **whooping cough** (AR subset, 11,064 U.S. W.C. deaths) -- 446
60. 1879 -- Oct 02-Nov 28, **yellow fever** outbreak, Forest City, AR --13-15
61. 1880 -- Apr 18, **tornadoes**, Charleston/1, El Paso/4, Fayetteville/2, Ft. Smith/2, Rover-- 10
62. 1882 -- July 12, **lightning/wind hits building, falls on saloon, fire**, Texarkana, AR -- 30
63. 1883 -- Nov 21, **tornado** outbreak (4), AR -- 10
64. 1887 -- Apr 22, **tornado**, near Clarksville, AR -- 20
65. 1888 -- Aug, Cloudburst, **flash flood**, near Hot Springs, AR -- 13
66. 1889-90, June-May, **croup**, (subset of 13,862 U.S. croup deaths) -- 356
67. 1889-90, June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths -- 590
68. 1892 -- May 20, **passenger/freight trains collide**, Crooked Bayou near Goldman, AR-- 9-13
69. 1895 -- Feb 01-Apr 20, **smallpox**, Clay County & Hot Springs, Garland County, AR -- 46
70. 1896 -- Aug 10, **heat prostration**, Little Rock, AR --10-15
71. 1897 -- Mar 04, **mine** explosion, Kansas & Texas No. 44 Coal Mine, Huntington, AR-- 14
72. 1898 -- Jan 11, **tornado**, Sebastian and Crawford Counties, Fort Smith, AR -- 55
73. 1900 -- **croup** (upper airway viral infection), AR -- 561
74. 1900 -- **dysentery**; 11,710 US dysentery deaths; AR subset, 7<sup>th</sup> highest by state -- 541
75. 1900 -- **excessive natural heat exposure**, coded "sunstroke" in some Census docs.) -- 12
76. 1900 -- **malarial fever** (14,874 US malarial fever deaths; highest loss of any state --1,730
77. 1900 -- **measles** (subset of 12,866 US measles deaths; 2<sup>nd</sup> largest loss in a state) --1,274
78. 1900 -- **meningitis** (subset, 19,423 US meningitis deaths) -- 571
79. 1900 -- **smallpox** (subset, 8,484 US smallpox deaths; 6<sup>th</sup> highest loss in any state, 1900-- 195
80. 1900 -- **tuberculosis** (subset, 109,750 tuberculosis deaths) and 22,518 AR deaths --1,889
81. 1900 -- **typhoid fever** (AR subset of 35,379 typhoid fever deaths nationwide) --1,172
82. 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths) -- 316
83. 1903 -- Apr 07, **tornadoes** (2), White, Cleburne, Van Buren Counties, AR -- 10
84. 1903 -- Nov 20, **mine** explosion, Bonanza No. 20 Coal Mine, Bonanza, AR -- 11
85. 1904 -- Mar 23-24, **racial violence** against Blacks, St. Charles, AR -- 13
86. 1908 -- Apr 26, **Miriam** hit by "**Cyclone**," Capsizes, Miss. River, ~Hardins Point, AR-- 11
87. 1908 -- Nov 23, **tornado**, Franklin County, AR -- 14
88. 1909 -- Feb 23, **tornadoes** (3), AR -- 10

**Arkansas (continued):**

89.	1909 -- Mar 08, <b>tornado</b> outbreak (6), AR	-- 67
90.	1909 -- Apr 29, <b>tornadoes</b> , esp. Cleburne, Crittenden, Independence, Montgomery Co's.--	17
91.	1912 -- Feb 25, <b>tornadoes</b> , Lincoln, Jefferson, Arkansas, Lee Counties, AR	-- 14
92.	1915 -- Nov 25, <b>tornado</b> , Garland County, AR	-- 10
93.	1916 -- June 05, <b>tornadoes</b> (16), AR	--60-79
94.	1916 -- Dec 26, <b>tornadoes</b> (2), AR	-- 17
95.	1918 -- <b>typhoid fever</b> (AR subset of 9,100 U.S. Typhoid Fever deaths)	-- 243
96.	1918-19 -- <b>influenza and pneumonia</b> epidemic, AR	--5,614-8,449
	1918 -- Fall/Winter, <b>influenza</b> epidemic, AR	--4,165-7,000
	1919 -- Jan-Apr, <b>influenza</b> epidemic, AR	-- 1,449
97.	1919 -- Sep 30-Oct 2, <b>racial violence</b> , Hoop Spur, Elaine vic., Phillips Co., AR	--100-200
98.	1920 -- Apr 19, <b>tornadoes</b> , Yell, Logan, Johnson, Pope Counties, AR	-- 19
99.	1921 -- Apr 15, <b>tornadoes</b> , Miller, Hempstead, Pile, Yell, Pope Counties, AR	-- 56
100.	1921 -- Nov 17, <b>tornadoes</b> , Polk, Clark, Hot Springs, Garland Counties, AR	-- 11
101.	1926 -- Nov 25, <b>tornadoes</b> , AR	-- 58
102.	1927 -- Mar 17, <b>tornado</b> , Hot Springs, Saline, Pulaski Counties, AR	-- 12
103.	1927 -- Mar 18, <b>tornado</b> , Carroll and Boone Counties, AR	-- 24
104.	1927 -- Apr-May, esp. Apr, <b>flooding</b> and <b>levee failures</b> , Drownings, AR	--59-126
105.	1927 -- May 09, <b>tornadoes</b> , AR, esp. Strong area (24), and Hoxie (11)	-- 70
106.	1928 -- Feb 24, <b>mine</b> explosion, Mama No. 3 Coal Mine, Jenny Lind, AR	-- 13
107.	1929 -- Apr 10, <b>tornadoes</b> , AR	-- 55
108.	1929 -- Apr 21, <b>tornado</b> , Crew and Desha Counties, AR	-- 13
109.	1930 -- May 18, <b>tornadoes</b> , Arkansas and Phillips Counties, AR	-- 20
110.	1931 -- <b>diphtheria</b> , especially children (AR subset, 5,738 U.S. diphtheria deaths) <sup>57</sup>	-- 267
111.	1931 -- <b>influenza</b> (AR subset of 31,701 influenza deaths nationwide)	-- 743
112.	1931 -- <b>malaria</b> , AR led nation in deaths (2,536 malaria US deaths)	-- 481
113.	1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths	--1,365
114.	1931 -- Summer, <b>heat waves and excessive heat</b> deaths (State subset, 2,768 deaths)	-- 20
115.	1934 -- Summer, <b>excessive heat</b> deaths; subset of 3,250 US heat deaths; AR	-- 60
116.	1936 -- Jan 14, <b>plane crash</b> , American Airlines Douglas DC-2, Goodwin, AR	-- 17
117.	1936 -- July-Aug (especially), <b>heat wave</b> (4,678-5,000 US heat deaths), AR	-- 43
118.	1937 -- Jan 25-Feb 01, <b>flooding</b> , OH/MS Riv. Valley areas, includes illness	--54-56
119.	1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (AR subset of 1,997 US diphtheria deaths)--	60
120.	1939 -- <b>influenza and pneumonia</b> (AR subset, 99,097 US flu/pneumonia deaths)	--1,720
121.	1939 -- <b>malaria</b> (AR subset of 1,761 malaria deaths nationwide)	-- 265
122.	1939 -- <b>whooping cough</b> (AR subset of 3,026 whooping cough deaths nationwide)	-- 60
123.	1939 -- Apr 16, <b>tornadoes</b> , Drew, Cleveland, Jefferson Counties, AR	-- 32
124.	1939 -- summer, <b>heat</b> (subset of 527-1,073 heat deaths nationwide)	-- 27
125.	1940 -- <b>influenza &amp; pneumonia</b> (AR subset, 92,525 US flu & pneumonia deaths)	--1,926
126.	1940 -- <b>malaria</b> (AR subset of 1,442 U.S. malaria deaths)	-- 176
127.	1940 -- <b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, AR, 2.8	-- 56
128.	1940 -- Aug 27, <b>mine</b> explosion, Bates No. 2 Coal Mine, Bates, AR	-- 10
129.	1941 -- <b>measles</b> , especially children (AR subset of 2,279 Measles deaths nationwide)--	48

<sup>57</sup> AR had highest rate increase in US (5.6 per 100,000 in 1930, to 14.3), which also was highest rate in the country.

**Arkansas (continued):**

130.	1941 -- Oct 26, <b>tornadoes</b> , F4, Yell, Pope, Ashley Counties, AR	-- 19
131.	1942 -- Oct 29, <b>tornado</b> , F4, Carroll County, AR	-- 29
132.	1944 -- <b>influenza</b> (subset, 17,320 US influenza deaths), esp. Jan-Apr, Dec, AR	-- 389
133.	1944 -- <b>whooping cough</b> (subset, 1,878 US whooping cough deaths), AR	-- 51
134.	1944 -- Feb 03, <b>planes collide</b> mid-air, USAAF B-26B's, near Garland, AR	-- 13
135.	1944 -- Mar 13, <b>anti-personnel surface mine explosion</b> , Camp Robinson, AR	-- 12
136.	1944 -- Mar 16, <b>assault boat training drownings</b> , Lakewood, ~Camp Robinson, AR--	11
137.	1944 -- Apr 10, <b>tornadoes</b> , AR	-- 39
138.	1945 -- Apr 12, <b>tornadoes</b> , Crawford, Madison, Carroll, Logan, Johnson Counties AR--	21
139.	1945 -- Oct 31, <b>US Navy R4D-7 transport crash</b> in heavy fog, Rich Mountain, AR--	14
140.	1947 -- June 01, <b>tornado</b> , F4, Jefferson County, especially Pine Bluff area, AR	-- 35
141.	1947 -- Aug 01-11, <b>heat</b> (US excessive heat deaths all year/540), subset for AR	-- 10
142.	1949 -- Jan 3, AR <b>tornadoes</b> , especially Warren (55 deaths), Bradley County, AR	--57-58
143.	1949 -- Mar 26, <b>tornadoes</b> , esp. Lonoke/Clark/Prairie/Woodruff/Jackson counties, AR	--18-24
144.	1951 -- <b>diphtheria</b> ; 302 US deaths; 13 States in double digits; subset for AR	-- 16
145.	1951 -- <b>measles</b> , 688 US deaths; subset for AR	-- 15
146.	1951 -- <b>tuberculosis</b> (respiratory), 31,163 US deaths, AR subset	-- 552
147.	1951 -- <b>whooping cough</b> , 960 US deaths, subset for AR (10 <sup>th</sup> highest loss in US)	-- 29
148.	1952 -- <b>dysentery</b> , infections (all forms); 949 US deaths; AR (5 <sup>th</sup> high US state loss)--	37
149.	1952 -- Mar 21, <b>tornadoes</b> , esp. White, Woodruff, Lonoke, Howard Counties	--110-112
150.	1953 -- <b>excessive natural heat</b> , (code E931), 576 US heat deaths, esp. Aug 22-Sep 5--	13
151.	1953 -- <b>measles</b> , 483 US deaths/23 states double digits; AR subset (4 <sup>th</sup> highest US)	-- 24
152.	1953 -- <b>whooping cough</b> ; 271 US deaths, 11 States double digits; AR subset	-- 10
153.	1954 -- <b>excessive heat</b> (esp. July), subset of 978-984 US heat-related deaths, AR	-- 24
154.	1954 -- <b>dysentery</b> , infectious, all forms (codes 045-048), 655 US deaths; AR subset--	31
155.	1954 -- <b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; AR subset--	67
156.	1954 -- <b>polio</b> , acute; 1,400 US deaths; AR subset	-- 18
157.	1954 -- <b>whooping cough</b> /pertussis; 375 US deaths, 17 states double digits, AR	-- 19
158.	1954 -- Dec 24, <b>explos./fire</b> , kerosene thrown in stove, tenant farmhouse ~Parkin, AR--	13
159.	1955 -- <b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); AR subset	-- 10
160.	1955 -- <b>whooping cough</b> /pertussis, 476 US deaths/15 states in double digits; AR	-- 23
161.	1956 -- <b>measles</b> , 530 US deaths/21 states in double digits; AR tied for 17 <sup>th</sup> high loss--	15
162.	1956 -- <b>polio</b> /acute, 566 US deaths/15 states in double-digits; AR subset	-- 11
163.	1959 -- <b>polio</b> (acute, as opposed to late effects of); 454 US deaths; AR subset	-- 12
164.	1959 -- <b>tuberculosis</b> ; 11,456 US TB deaths; AR subset	-- 163
165.	1959 -- <b>whooping cough</b> (pertussis); 269 US deaths, especially children; AR subset--	10
166.	1959 -- Mar 5, <b>fire</b> , Negro Boys Industrial School Reformatory dorm, Wrightsville AR--	21
167.	1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; AR death rate 10.5	-- 187
168.	1960 -- <b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; AR death rate 10.5	-- 188
169.	1961 -- <b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; AR death rate 2.6	-- 47
170.	1961 -- <b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; AR death rate 0.7	-- 13
171.	1961 -- <b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100K; AR death rate 10.6	-- 190
172.	1962 -- <b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; AR death rate 3.4	-- 62
173.	1962 -- <b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; AR rate 9.7	-- 177

## Arkansas (continued):

174.	1962 --	Jan 15, <b>fire</b> , Paladino home, Catholic Point community ~Center Ridge, AR	--	10
175.	1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; AR death rate 7.8	--	144
176.	1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; AR death rate 7.6	--	141
177.	1963 --	Feb 21, farm/tenant home <b>fire</b> (defective heater or flue), near Luxora, AR	--	10
178.	1964 --	<b>influenza</b> ; 1,687 US deaths/date rate 0.9 per 100K; AR death rate 1.2	--	24
179.	1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; AR death rate 0.5	--	10
180.	1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; AR death rate 7.1	--	138
181.	1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; AR death rate 3.0	--	58
182.	1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; AR, 5.6 death rate	--	109
183.	1965 --	Aug 09, <b>fire</b> and workmen suffocation, Titan II ICBM silo near Searcy, AR	--	53
184.	1966 --	<b>excessive natural heat</b> , subset of 613 US heat deaths, AR	--	15
185.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; AR--		10
186.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for AR	--	114
187.	1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; AR 7.2-		134
188.	1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; AR rate 5.14	--	96
189.	1968 --	Apr 19, <b>tornado</b> , F4, Greenwood, Sebastian County, AR	--	14
190.	1968 --	May 15, <b>tornadoes</b> , Baxter, Craighead, Independence, Jackson counties, AR--		45
191.	1969 --	<b>excessive natural heat</b> , ICD-8 code E900; 271 US deaths; AR	--	14
192.	1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; AR--		101
193.	1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; AR death rate 3.90--		74
194.	1969 --	Apr 05, kerosene explosion/ <b>fire</b> , house, Oakwood Bayou community ~Dumas, AR--		10
195.	1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; AR 3.6--		69
196.	1971 --	<b>tuberculosis</b> ; 4,501 US deaths/death rate 2.18 per 100K; AR death rate 2.84--		56
197.	1971 --	Nov 12, USAF Lockheed C-130 takeoff <b>plane crash</b> /fire, Little Rock AFB, AR-		10
198.	1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; AR 4.66--		94
199.	1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; AR death rate 2.97--		60
200.	1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; AR, 2.72 per 100K--		56
201.	1973 --	Sep 27, <b>plane crash</b> , Texas International Air N94230, Black Fork Mt., AR	--	11
202.	1974 --	<b>tuberculosis</b> ; 3513 US TB deaths/death rate 1.65 per 100K; AR death rate 1.62--		34
203.	1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; AR, 2.2--		48
204.	1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; AR, 2.59	--	56
205.	1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; AR, 1.94	--	42
206.	1976 --	Sep 26, <b>plane crash</b> , Johnson & Johnson Co., Hot Springs, AR	--	11
207.	1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; AR, 1.22	--	27
208.	1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; AR, 1.81	--	40
209.	1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; AR, 3.93	--	88
210.	1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; AR, 1.65	--	37
211.	1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; AR, 1.50	--	34
212.	1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; AR, 1.31	--	30
213.	1980 --	June 05, Central Texas charter tour <b>bus</b> goes off Highway 7, near Jasper, AR--		20
214.	1980 --	summer <b>heat</b> , esp. Pulaski/17, Mississippi/14, Jefferson/11 counties, AR --		148-153
215.	1980 --	summer (especially), <b>heat</b> (ICD-9 E900 code for excessive natural heat)	--	14
216.	1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, AR, 2.79	--	64
217.	1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; AR, 1.13	--	26



## Arkansas (continued):

218.	1982 -- exposure to excessive natural <b>cold/hypothermia</b> ; 402 US deaths; AR	--	10
219.	1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, AR, 0.52	--	12
220.	1982 -- <b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, AR, 1.18	--	27
221.	1982 -- Apr 02, <b>tornadoes</b> , 7 counties, esp. Faulkner and Hempstead Co's., AR	--	14-15
222.	1983 -- exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; AR	--	12
223.	1983 -- <b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, AR, 0.69	--	16
224.	1983 -- <b>tuberculosis</b> , 1,779 US TB deaths/death rate 0.76 per 100K; AR, 0.87	--	20
225.	1983 -- June-Aug, <b>excessive heat</b> , deaths in 15 counties (subset of US total of 597)	--	20
226.	1983 -- Dec 18-30, <b>winter weather</b> , severe cold (exposure deaths), icy roads	--	31
227.	1984 -- <b>influenza</b> , 1,096 US flu deaths/death rate 0.46 per 100K, AR, 1.34	--	31
228.	1984 -- <b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; AR, 1.12	--	26
229.	1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, AR, 0.94	--	22
230.	1985 -- <b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; AR, 0.90	--	21
231.	1986 -- <b>influenza</b> , 1,838 US flu deaths; death rate 0.76 per 100K, AR, 0.99	--	23
232.	1986 -- <b>tuberculosis</b> , 1,782 US TB deaths, death rate 0.74 per 100K; AR, 1.33	--	31
233.	1986 -- summer <b>excessive heat</b> , AR (subset of >400 U.S. heat-related fatalities)	--	28
234.	1987 -- <b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; AR rate 0.43	--	10
235.	1987 -- <b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, AR, 0.85	--	20
236.	1987 -- summer <b>heat</b> , State substate of approximately 387 U.S. heat deaths	--	21
237.	1987 -- Dec 22, 26, 28, R. Gene Simmons <b>killing spree</b> , Dover & Russellville, AR <sup>58</sup> --		16
238.	1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; AR, 1.24	--	29
239.	1988 -- <b>tuberculosis</b> ; 1,921 US TB deaths, death rate 0.78 per 100K; AR rate 1.19	--	28
240.	1989 -- <b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; AR rate 0.81	--	19
241.	1989 -- <b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; AR, 1.28	--	30
242.	1990 -- <b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; AR, 0.85	--	20
243.	1990 -- <b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K, AR rate, 0.94	--	22
244.	1990 -- summer (esp.), <b>heat</b> , ICD-9 E900 code for excessive heat and hyperthermia	--	17
245.	1991 -- <b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; AR, 0.46	--	11
246.	1991 -- <b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, AR, 1.17	--	28
247.	1991 -- summer (esp.), <b>heat</b> , ICD-9 E900 code for excessive heat and hyperthermia	--	10
248.	1992 -- <b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; AR, 0.87	--	21
249.	1993 -- <b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K, AR, 0.93	--	23
250.	1993 -- <b>tuberculosis</b> , 1,631 US TB deaths, death rate 0.63 per 100K; AR, 0.73	--	18
251.	1993 -- summer especially, <b>excessive heat</b> (AR subset of 311 U.S. heat deaths)	--	10
252.	1994 -- <b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; AR, 0.76	--	19
253.	1994 -- <b>tuberculosis</b> ; subset, 1,478 US TB deaths; US death rate .56 per 100K; AR 0.61--		16
254.	1995 -- <b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K; AR, 0.83	--	21
255.	1995 -- summer, <b>excessive heat</b> , subset of 1,563-1,601 U.S. heat-related deaths, AR--		25
256.	1996 -- exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; AR	--	11
257.	1997 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, AR, 0.69	--	18
258.	1997 -- Mar 01, <b>tornadoes</b> , deaths in Clark, Greene, Jackson, Pope, Pulaski, Saline co., AR--		27
259.	1998 -- <b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; AR, 1.10	--	29
260.	1998 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; AR, 0.69	--	18

<sup>58</sup> Drowns 1, strangles 7/shoots 6 family members in Dover Dec 22 and 26. Shoots two in Russellville, Dec 28<sup>th</sup>.



## Arkansas (continued):

261.	1999 --	tuberculosis	, ICD-10 code A16-19, death rate 0.333 per 100K; AR, 0.453	--	12
262.	1999 --	May 01, Miss Majestic	DUKW tour boat sinks ~St. John's Isl., Lake Hamilton, AR--		13
263.	1999 --	June 01, American Airlines 1420	, storm/landing collision, Little Rock, AR	--	11
264.	1999 --	summer, especially late July-early Aug,	excessive heat	, AR	-- 21
265.	2000 --	exposure to excessive natural	cold/hypothermia	; 742 US deaths; AR	-- 10
266.	2000 --	exposure to	excessive natural heat	, 494 US deaths, subset for AR	-- 11
267.	2000 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.63 per 100K; AR, 1.35	--	36
268.	2000 --	tuberculosis	, ICD-10 code A16-19; death rate 0.276 per 100K; AR, 0.374	--	10
269.	2003 --	influenza	, ICD-10 codes J09-11; US death rate 0.618 per 100K; AR, 0.286	--	31
270.	2004 --	Oct 09, MCI motorcoach	crash, I-55 near Turrell, AR		-- 15
271.	2005 --	exposure to	excessive natural heat	; 939 US deaths, subset for AR	-- 13
272.	2006 --	exposure to	excessive natural heat	; 1,104 US deaths, subset for AR	-- 12
273.	2006 --	influenza	, ICD-10 codes J09-11; US death rate 0.285 per 100K; AR, 0.390	--	11
274.	2006 --	tuberculosis	, ICD-10 code A16-19, death rate 0.22 per 100K; AR, 0.35	--	10
275.	2007 --	exposure to	excessive natural heat	; 582 US deaths, subset for AR	-- 12
276.	2008 --	exposure to excessive natural	cold/hypothermia	; 641 US deaths; AR	-- 10
277.	2008 --	influenza	, ICD-10 codes J09-11; US death rate 0.57 per 100K; AR, 1.22	--	35
278.	2008 --	Feb 5-6, tornadoes	, Baxter, Conway, Izard, Pope, Stone, Van Buren counties--		14
279.	2009 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.9 per 100K; AR 1.0--		28
280.	2009 --	influenza (avian)	, ICD-10 code J09 (US death rate 0.5 per 100K); AR, 0.8	--	24
281.	2009 --	spring through winter (especially),	H1N1 "Swine Flu"		--17-32
282.	2009 --	Jan 26-28, ice and snow storm	, AR		-- 18
283.	2010 --	influenza	, 500 US deaths/death rate 0.2 per 100K; AR, 0.4		-- 11
284.	2010 --	exposure to	excessive natural heat	; 874 US deaths, subset for AR	-- 25
285.	2010 --	June 11, flash flood	, campers, Ouachita Mts., Albert Pike Rec. Area, AR		-- 20
286.	2011 --	exposure to excessive natural	cold/hypothermia	; 0.2 death rate; AR 0.34	-- 10
287.	2011 --	exposure to	excessive natural heat	, 1,060 US deaths, subset for AR	-- 24
288.	2011 --	Apr 25, severe storms,	flash floods	, tornadoes, Ark.	-- 10
289.	2012 --	exposure to	excessive natural heat	; 879 US deaths; subset for AR	-- 19
290.	2012 --	influenza	, ICD-10 codes J09-11; US death rate 0.4 per 100K; AR rate, 0.5	--	14
291.	2012 --	summer especially,	excessive heat	; subset of 598 US heat-related deaths, AR--	12
292.	2013 --	viral hepatitis	, ICD-10 code B-15-B19; US death rate 2.6 per 100K; AR, 2.7	--	80
293.	2013 --	influenza	, ICD-10 Codes J09-J11; US death rate 1.2 per 100K; AR rate 1.5	--	43
294.	2014 --	Apr 27, tornado outbreak	, especially Faulkner, Pulaski, White Counties, AR--		15
295.	2014 --	influenza	(ICD-10 codes J09-11), US avg. death rate 1.4; AR death rate 2.2	--	65
296.	2015 --	exposure to	excessive natural heat	; 567 US deaths; subset for AR	-- 20
297.	2015 --	influenza	(ICD-10 codes J09-11), US avg. death rate 1.6; AR death rate 2.3	--	68
298.	2015 --	viral hepatitis	, ICD-10 code B15-B19; US death rate 2.3 per 100K; AR, 2.4	--	70
299.	2016 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.7 per 100K; AR, 1.0--		29
300.	2016 --	viral hepatitis	, ICD-10 code B15-19; US death rate 2.0 per 100K; AR, 2.2	--	66
301.	2017 --	influenza	; 6,515 US deaths/death rate 2.0 per 100K pop.; AR rate 2.46		-- 74
302.	2018 --	exposure to excessive natural	cold/hypothermia	; subset of 1,028 US deaths--	11
303.	2018 --	exposure to	excessive natural heat	; 1,012 US deaths; subset for AR	-- 14
304.	2018 --	influenza	, ICD codes J09-11.8/death rate 3.41 per 100K pop., AR rate 4.68	--	141

305.	2019 --	<b>hypothermia</b> ; exposure to excessive natural cold; subset of 1,115 US deaths--	10
306.	2019 --	exposure to <b>excessive natural heat</b> , subset of 915 US heat deaths	-- 14
307.	2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; AR 2.02	-- 61
308.	2019 --	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, AR, 3.08	-- 93
309.	2020 --	<b>COVID-19</b> ; 354,215 US COVID deaths/1,070 per 1M; AR 1,218 per 1M pop.--	3,676
310.	2020 --	exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; AR	-- 10
311.	2020 --	exposure to <b>excessive natural heat</b> ; 1,174 US deaths/ death rate 0.3; AR	-- 13
312.	2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; AR 2.51	-- 76
313.	2021 --	exposure to <b>excessive natural heat</b> ; 1,923 US heat-related deaths; AR	-- 16
314.	2021 --	<b>COVID-19</b> , 437,984 US deaths/2.6K deaths per 1M pop.; AR, 3.0K	--5,427
315.	2022 --	exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for AR	-- 34
316.	2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; AR death rate 1.75	-- 53
317.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; AR death rate 11.90	--3,592
318.	2023 --	exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for AR	-- 33

### Some Select/Notable Other **Arkansas** Large Loss of Life Events:<sup>59</sup>

1801-02 --	<b>smallpox</b> epidemic, Native Amer., Central, Midwest, esp. Upper, Northwest <sup>60</sup>	--	?
1850 --	<b>croup</b> ; subset, 10,706 deaths/36 States/DC/Territories, and 3,021 AR deaths	--	38
1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	--	58
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	--	98
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	--	33
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (average 931)	--	132
1850 --	<b>typhoid fever</b> , subset 13,099 typhoid fever deaths, 36 states/DC/territories	--	39
1850 --	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	--	55
1860 --	<b>measles</b> (AR subset of 3,900 measles deaths nationwide)	--	51
1860 --	<b>tuberculosis</b> , reported as “consumption” (AR subset of 49,082 death nationwide)	--	329
1870 --	<b>croup</b> (AR subset of 10,692 deaths nationwide)	--	183
1870 --	<b>tuberculosis</b> (consumption) (AR subset of ~70,000 TB deaths nationwide)	--	431
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	157
1879 --	June-May 1880, <b>scarlet fever</b> , especially children (AR subset, 16,388 SF deaths)	--	295
1879 --	June-May 1880, <b>tuberculosis</b> (AR subset of 91,270 TB deaths nationwide)	--	951
1879 --	June-May 1880, <b>typhoid fever</b> (AR subset of 23,339 U.S. Typhoid deaths)	--	437
1882 --	<b>smallpox</b> , especially Forrest City, AR (13 deaths, March-May 8)	--	17
1889-90, June 1-May 31.	<b>diphtheria</b> ; subset of 27,815 U.S. Diphtheria deaths; AR	--	64
1889-90, June-May,	<b>measles</b> , subset of 9,256 US measles deaths	--	87
1898 --	<b>typhoid fever</b> (>4,627 nationwide), First and Second Ark. Infantry Regiments <sup>61</sup>	--	39
1900 --	<b>diphtheria</b> (subset of 16,475 US diphtheria deaths in 1900)	--	15
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths)	--	319
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	59
1908 --	Apr 23, <b>tornadoes</b> (two) Little River Co., near Forman and Hector/Pope County	--	6

<sup>59</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

<sup>60</sup> We do not have a number. What we have are sources which state the Osage were especially hit hard. Part of the Osage territory was in northwest Arkansas. Overall, we estimate more than 9,090 Native Americans died.

<sup>61</sup> This number is for Arkansas servicemen dying of typhoid this year, in various locations in the U.S., three in Ark.

## Arkansas (continued):

1919 --	<b>diphtheria</b> (subset, 9,160 US diphtheria deaths)	-- 141
1927 --	<b>polio</b> (acute) esp. late Summer and Fall (AR subset, 2,013 U.S. polio deaths)	-- 32
1931 --	<b>epidemic cerebrospinal meningitis</b> , AR subset, 2,832 US meningitis deaths	-- 21
1931 --	<b>measles</b> , especially children (AR subset, 3,576 measles deaths nationwide)	-- 27
1931 --	<b>polio</b> , esp. July-Oct, (AR subset of 2,139-2,144 U.S. polio deaths, esp. children)	-- 26
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; AR, 3.4	-- 64
1939 --	<b>tuberculosis</b> (AR subset of 61,609 tuberculosis deaths nationwide)	-- 955
1940 --	<b>polio</b> (AR subset of 1,026 polio deaths nationwide)	-- 17
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); AR death rate 13.5	-- 263
1940 --	<b>tuberculosis</b> (AR subset of 55,576 tuberculosis deaths nationwide)	-- 985
1940 --	Oct 20, <b>plane catches parachute's shroud, crashes</b> , Marianna Airshow, AR	-- 6
1942 --	May 11, Peerless coal <b>mine</b> number 2 shaft explosion, Excelsior, AR	-- 6
1944 --	<b>cerebrospinal meningitis</b> (2,812 cerebrospinal meningitis deaths nationwide)	-- 22
1944 --	<b>measles</b> , especially Jan-June; 1,923 US measles deaths; subset for AR	-- 29
1944 --	<b>tuberculosis</b> (AR subset of 54,731 tuberculosis deaths nationwide)	-- 826
1946 --	<b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths)	-- 26
1947 --	Apr 29, <b>tornado</b> , Bright Water (4) and Garfield area (5), AR	-- 9
1947 --	Nov 17, <b>USAF B-25 crash</b> in storm, Mount Magazine, 5M NW of Havana, AR	-- all 6
1948 --	<b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	-- 14
1948 --	Feb 06, <b>USAF B25 crash</b> , Roundtop Mountain 3M south of Jasper, AR	-- 5
1948 --	Feb 28, Sun Excelsior coal <b>mine</b> explosion, Excelsior, AR	-- 8
1949 --	<b>polio</b> , especially July-Nov, (AR subset of ~2,725 polio deaths nationwide)	-- 50
1950 --	<b>measles</b> ; subset of 468 US polio deaths	-- 7
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deathsm AR	-- 20
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths, AR	-- 22
1951 --	Jan 27-Feb 4, <b>cold waves/winter storms/ice/sleet/snow</b> , AR (US 175-200)	-- 9
1952 --	<b>influenza</b> , 5,649 US deaths, subset for AR	-- 128
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths, subset for AR	-- 36
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; AR subset	-- 455
1952 --	<b>whooping cough</b> (pertussis); 406 US deaths; subset for AR	-- 13
1953 --	<b>influenza</b> ; 9,500 US deaths; AR subset	-- 244
1953 --	<b>polio</b> , subset of 1,450 US polio deaths, AR subset	-- 21
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; AR subset	-- 381
1953 --	<b>typhoid fever</b> , <i>Vital Statistics-Mortality 1953</i> ; 53 US deaths, esp. TX/8 and AR/7--	7
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; AR subset	-- 282
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; AR subset	-- 265
1956 --	<b>influenza</b> , 2,323 US deaths; AR subset	-- 43
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US TB deaths; AR subset	-- 228
1957 --	<b>influenza</b> ; 7,463 US deaths; AR subset	-- 126
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; AR subset	-- 234
1957 --	Dec 02, home <b>fire</b> , overheated stove, expectant mother, 7 children, Westor, AR	-- 8
1957-58 --	fall-spring, <b>influenza and pneumonia</b> pandemic (subset 116,000 US deaths)	-- 714
1958 --	<b>influenza</b> ; 4,442 US deaths; AR subset	-- 113
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; AR subset	-- 200

## Arkansas (continued):

1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; AR death rate 0.3	--	5
1963 --	<b>whooping cough</b> (pertussis); 115 US deaths; AR	--	6
1964 --	Mar 03 <b>lightning</b> hits residence starting <b>fire</b> , Forrest City, AR	--	7
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for AR	--	30
1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; AR	--	7
1968-69 --	fall-spring, <b>influenza and pneumonia</b> pandemic (subset, ~34,000 US deaths)	--	138
1970 --	<b>tuberculosis</b> ; 5,217 US deaths/death rate 2.56 per 100K; AR death rate 2.44	--	47
1970 --	July 31, <b>USAF C130 Hercules crashed</b> and burned .9 miles SW of Piggott, AR	--	all 6
1971 --	Mar 06, <b>Beechcraft Bonanza crash</b> on final approach turn (icing?), Harrison, AR--	all	6
1972 --	Feb 19, <b>USAF C-130E (5) and T-37 (0) planes collide</b> , NE of Little Rock AFB, AR--		5
1973 --	<b>influenza</b> ; 5,131 US deaths/death rate 2.43; AR death rate 2.09	--	43
1973 --	Oct 15, <b>USAF C-130 Hercules</b> flies into fog-shrouded Sugar Loaf Mountain, AR--	all	7
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; AR, 0.619--		13
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; AR/3.0--		66
1978 --	Sep 08, low <b>USAF C130 crash</b> into ridge ~8 miles north of Little Rock AFB, AR--		8
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, AR death rate 0.66	--	15
1982 --	May 12, <b>USAF C130 Hercules wing failure and crash</b> , Judsonia, AR	--	all 7
1983 --	Mar 25, school <b>bus</b> crash, Jonesboro School District, near Newport, AR	--	9
1985 --	summer <b>heat</b> (ICD-900 code for excessive heat/hyperthermia) subset of 227, AR--		9
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; AR death rate 1.28	--	30
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8; AR, 2,26	--	53
1988 --	Nov 18, <b>M &amp; L Aircraft Beech hits mt.</b> terrain on too-low AP approach, Locust Grove AR--		6
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate per 100K 8.9, AR, 2.72	--	64
1989 --	July 01, <b>private Cessna crash</b> in adverse weather and pilot error, Pettigrew, AR	--	all 6
1990 --	Jan 19, <b>Eastman Kodak Gulfstream II jet crash</b> short of runway, Little Rock Nat. AP, AR--		7
1993 --	Aug 06, <b>Piper Cherokee breaks-up in flight</b> in stressed condition ~Delight AR	--all	6
1996 --	May 29, <b>Mid South Engineering takeoff crash</b> , Malvern Municipal AP, AR	--	all 5
1998 --	Mar 24, violence, Westside Middle school <b>shootings</b> , Jonesboro, AR	--	5
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; AR, 0.377	--	10
2001 --	summer, <b>heat (exposure to excessive natural heat)</b> AR <sup>62</sup>	--	≥5
2002 --	summer, <b>heat (exposure to excessive natural heat)</b> , AR	--	≥5
2003 --	summer, <b>heat (exposure to excessive natural heat)</b> , AR	--	≥5
2004 --	summer, <b>heat (exposure to excessive natural heat)</b> , AR	--	≥5
2005 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; AR, 0.467	--	13
2006 --	summer, <b>heat (exposure to excessive natural heat)</b> , AR	--	≥5
2008 --	summer, <b>heat (exposure to excessive natural heat)</b> , AR	--	≥5
2009 --	summer, <b>heat (exposure to excessive natural heat)</b> , AR	--	≥5
2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US and AR death rate 0.9 per 100K	--	26
2010 --	<b>viral hepatitis</b> , ICD-10 code B-15-19; US death rate 2.4 per 100K; AR, 2.1	--	60
2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K, AR, 0.8	--	23
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; AR, 2.5	--	74
2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; AR, 0.6	--	17
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; AR 2.6	--	78

<sup>62</sup> There were 5-23 heat-related deaths in AR each year, 2001-2011. AR Dept. of Health. Aug 2011, p. 2.

2013 --	diarrhoea/gastroenteritis, infectious origin; US and AR death rate 0.8 per 100K	--	23
2014 --	diarrhoea/gastroenteritis, infectious origin; US and AR death rate 0.8 per 100K	--	24
2014 --	viral hepatitis, ICD-code B15-B19, US death rate 2.5 per 100,000; AR, 2.4	--	72
2015 --	diarrhoea/gastroenteritis, infectious origin; US death rate 0.8 per 100K; AR, 0.7	--	22
2016 --	HIV AIDS, 6,160 US deaths/death rate 1.9 per 100,000; AR rate 1.6	--	48
2016 --	influenza (ICD-10 codes J09, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8)	--	15
2017 --	HIV/AIDS; 5,698 US deaths/death rate 1.75 per 100K; AR rate 1.50	--	45
2018 --	HIV/AIDS; 5,425 US deaths/death rate 1.66 per 100K; AR death rate 1.26	--	38
2020 --	HIV; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; AR 1.35	--	41
2021 --	exposure to excessive natural cold; 1,179 US deaths/death rate 0.36; AR subset	--	10
2023 --	COVID-19, subset of 71,691 US deaths	--	551

### Breakout by Type of Arkansas Large Loss-of-Life Events (10 or more fatalities):

- 158 -- Disease, select communicable, especially epidemics. (Plus 89 in "Other.")
- 39 -- Tornadoes. (We note two tornadoes with 6 and 9 deaths in 1908 and 1947.)
- 36 -- Heat. (Plus 7 years 5-9 deaths.)
- 36 -- Maritime and Inland Water Craft.
- 12 -- Winter Weather/Cold/Hypothermia (Plus 3 years 8-10 deaths – 1951, 1968, 2021.)
- 8 -- Violence
- 7 -- Aviation. (Plus 14 events noted with 5-8 deaths each.)
- 7 -- Fire-structural. (Plus two >10: 8 in 1957 and 7 in 1964.)
- 5 -- Flooding
- 4 -- Mining. (Plus two: 6 in 1942 coal mine explosion; 8 deaths in 1948 coal mine explosion.)
- 2 -- Structural Failures.
- 2 -- Vehicular – road and highway. (Plus one event in 1983 with 9 deaths.)
- 1 -- Earthquake (But one event in 1811 with "several" deaths.)
- 1 -- Explosion.
- 1 -- Fog as a Contributing Factor.
- 1 -- Lightning (contributing cause to deadly fire). Plus one event with 7 deaths in 1964 fire.
- 1 -- Rail.



## CA

## California

1. 1709-10 -- **smallpox** epidemic, Native Americans, lower CA ≥2,000
2. 1763 -- **smallpox** epidemic, Native Americans, CA -- >100
3. 1812 -- Dec 8, Wrightwood/San Juan Capistrano **Earthquake**, CA -- 42
4. 1829-33--**malaria**? epidemic, Natives, esp. San Joaquin and Sacramento Valleys<sup>63</sup> ---30,000
5. 1837 -- **smallpox**, California Native Americans<sup>64</sup> 2,000-10,000
6. 1853 -- **pneumonia** outbreak, Native Americans, near Cherokee, Butte County, CA -- 40
7. 1846 -- mid Apr, Sacramento River **massacre**, Carson/Fremont attack Natives, N. CA-->175
8. 1847 -- Feb, Donner Party tragedy, **winter storms, snow, Starvation**, Donner Lake, CA-- 43
9. 1849-50 -- **scurvy**,<sup>65</sup> California Gold Rush Immigrants ~10,000
10. 1849 -- Mar, Ore. miners **kill** Maidus, American River, Weber's Creek, Coloma, CA -- >22
11. 1849 -- Apr 26~ Whites **massacre** Natives Daylor mine & ranch, Cosumnes Riv. area, No. CA--≥17
12. 1849 -- summer-winter, **cholera**, CA -- 95
13. 1850 -- "Friendship Feast," Whites **poison** Trinity Riv. Wintu Natives, Shasta Co., CA-- 145
14. 1850 -- Sweathouse **massacre**, Sonoma County Whites kill Natives, Napa County, CA-- 11
15. 1850 -- Feb 25, Smith/Kelsey **massacre** natives, Henry Fowler ranch, no. Napa Villy., CA>13
16. 1850 -- Apr 21, Quechan/Yuma Natives **massacre** Glanton Gang, Winterhaven, CA -- 11
17. 1850 -- May 15, Bloody Island **massacre**, USA Attack Pomo, Clear Lake, CA --60-200
18. 1850 -- May 19, Russian River **massacre**, US Army attacks Pomo, ~Healdsburg, CA -- >75
19. 1850 -- Oct-Dec, **cholera** epidemic, esp. Sacramento and San Francisco, CA --1,274-1,663
20. 1850 -- Oct 29, steamboat **Sagamore** boiler explosion, Central wharf, San Francisco, CA--30-50
21. 1851 -- **massacre**, white miners kill Wintu, burn Council House, Old Shasta, CA -- 300
22. 1851 -- Jan, Four Creeks **massacre**, Natives attack cattle herders, present-day Bakersfield, CA-- 13
23. 1851 -- Jan, early, Rattlesnake Creek **massacre** [?], Natives attack white miners, CA -- 72
24. 1851 -- Jan 11, Whites **attack** Natives, Mt. ~No. Fork, San Joaquin Ri., Mariposa Co., CA --23-50
25. 1851 -- May 3-4, **conflagration**, "Fifth Great Fire," San Francisco, CA -- ~14~30
26. 1852 -- **smallpox** outbreak, Native Americans, Nevada City vicinity, CA -- ~100
27. 1852 -- Mar 12, **massacre** of Natives, upper crossing Klamath Ri. Ferry & Indian Flat, CA--30-40
28. 1852 -- Apr 23, Bridge Gulch **massacre**, whites attack natives ~Hayfork, No. CA --140-153
29. 1852 -- July 3~, Harvey party **attacks** Yokut village, Kings River rancheria, CA --9~30
30. 1852 -- Sum., Capt. Crosby Force **massacre** Modocs, Tule Lake reg., CA/OR Border<sup>66</sup>-11-15
31. 1852 -- Sep, Bloody Point **massacre**, Modocs attack wagon train, Tule Lake, North CA-- 62
32. 1852 -- Sep-Oct esp., **cholera**, Sacramento and Barton's Bar, Yuba River, CA -- 115
33. 1852 -- Nov, Ben Wright **massacre** of Modocs, peace talks, Lost riv., Tule Lake, CA --30-41
34. 1852 -- Nov/Dec, **unknown epidemic**, Natives, Hock Farm, Sutter County, CA<sup>67</sup> -- 40
35. 1853 -- **smallpox** outbreak, Native Americans, Nevada City vicinity, CA -- 400

<sup>63</sup> From contemporary accounts, it appears that the year 1833 was the deadliest.

<sup>64</sup> Shelburne Friend Cook in his *The Conflict Between the California Indian and White Civilization*, Part 4, 1976, p. 213, writes that the accounts he has which show estimates of 100,000, and 200,000 to 300,000, are "obviously wild guesses." He guesstimates (p. 214) 2,000. In a 1978 book he writes that "the mortality may have reached 10,000."

<sup>65</sup> Severe vitamin C deficiency which can lead to death. GARD (Genetic and Rare Diseases Information Center), National Institutes of Health, U.S. Dept. of Health & Human Services, includes scurvy as a disease and shows a table which "lists symptoms that people with this disease may have."

<sup>66</sup> Cross-listed in Oregon since this event transpired at an unknown place in the border region.

<sup>67</sup> Our use of Nov/Dec in the dating is speculative. The source is the Sacramento *Union* of Dec. 13 and 17, 1852, noting fatalities during one month at John Augustus Sutter's Hock Farm.

### California (continued):

36. 1853 -- typhoid outbreak, Native Americans, Nevada City vicinity, CA ---100
37. 1853 -- Burnt Ranch massacre, settlers kill Tolowa, Yontocket, Smith Riv., No. CA--450-600
38. 1853 -- Pence party attacks Native American camp ~Messilla Valley, Butte Co., CA -- 27
39. 1853 -- Feb 16, steamer *Independence* hits rock/sinks, Margarita Island, Lower CA--120-172
40. 1853 -- Mar 01, cattle theft reported, Whites attack Natives in cave ~Oak Grove, CA -- 13
41. 1853 -- Apr 11, steamship *Jenny Lind* boiler explosion, San Fran. Bay ~Redwood City, CA-33-34
42. 1853 -- Fall, Natives kill Chinese, west branch Feather River, Butte County, CA -- 10
43. 1853 -- Fall, White/Chinese retaliatory attack re. Natives, Feather Riv., Butte Co., CA --40-60
44. 1854 -- Apr 15, steamer *Secretary* explosion, SF Bay, at San Pablo Bay, CA -- 50
45. 1854 -- May 15~, Asbill party kill Yuki Natives, Round Valley, Mendocino Co., CA--32~40
46. 1854 -- Oct 02, S.S. *Yankee Blade* capsizes on reef in fog, near Pt. Arguello, CA --15-30
47. 1855 -- Jan 1, settlers massacre Tolowa, Etchulet (Achulet), ~Lake Earl, No. CA --30->100
48. 1855 -- Jan 27, steamer *Pearl* boiler explosion, Sacramento River, Marysville, CA --40-80
49. 1855 -- Sep, cholera aboard Pacific steamer *Uncle Sam* on way to SF, CA -- 111
50. 1855 -- Sep, "Cpt." Jarboe force massacres Achomawi Natives, Pit River village, CA-- >70
51. 1856 -- Feb 05, steamer *Belle* boiler explosion, nine miles above Sacramento, CA -- ~30
52. 1856 -- Apr/May 13, Whites attack Natives, near Visalia, Keysville & Battle Mt., CA-- >40
53. 1858 -- Early May, killing of Yana Natives near Battle Creek, Tehama Co, No. CA -- 15
54. 1858 -- Early-mid Jun, Whites attack Mattole natives, Mattole Valley, Humboldt Co. --15-20
55. 1858 -- Dec 31, Whites kill Natives ~Eden Valley, Russian River area, Sonoma Co., CA-- 14
56. 1859 -- Jan 01, Whites kill Natives, Round Valley, Mendocino County, CA -- 40
57. 1859 -- late Mar-May, White massacres of Yuki Natives, Round Valley, Mendocino Co., CA--240-400
58. 1859 -- ~July, Hildreth militia massacres Natives, Round Valley vicinity, No. CA -- 17
59. 1859 -- July, last week, Breckenridge militia attack Natives, Tehama Co., No. CA --10-16
60. 1859 -- July 28, Whites massacre Natives near Forks of Butte, Butte County, CA -- ~10
61. 1859 -- Summer, Chico Creek Canyon massacre, Whites attack Maidu Natives, N. CA-- ~40
62. 1859 --~Late Aug,<sup>68</sup> McElroy party massacres Natives, Roff's Ranch, Pitt Riv. vic. -- ≥49
63. 1859 --~Oct 11, massacre, Jarboe volunteers attack Yuki camp, Round Valley, CA -- 11
64. 1859 -- ~Nov 24, Jarboe's Eel River Rangers attack Natives, Round Valley vic., CA -- ≥27
65. 1860 -- Scarletina (scarlet fever) (subset of 26,402 deaths in 38 Census States & DC)-- 441
66. 1860 -- tuberculosis, reported as "consumption" (subset of 49,082 US TB deaths)<sup>69</sup> -- 524
67. 1860 -- Whites attack Yuki Natives near Round Valley, Mendocino County, CA -- 250
68. 1860 -- Jan 5, steamer *Northerner* hits rock off Centerville Beach, S of Humboldt Bay CA--33-38
69. 1860 -- Feb 26, Whites massacre Natives, Indian Isl. & Humboldt Bay vic., CA --100->250
70. 1861 -- Late Sep, Horse Canyon massacre, Whites/Natives attack Wailaki, Round Val. --100-240
71. 1861 -- Dec-Jan 1862, flooding, CA, OR, WA, UT, AZ, especially CA -->1,000?
72. 1862 -- July 27, steamboat *Golden Gate* burns off Mexican Coast (Manzanilla)<sup>70</sup> -- ~213
73. 1862 -- Aug, massacre of Wailaki Natives, Upper Station, Round Valley Resvn., CA --23-24
74. 1863 -- Feb 22, tug *Merrimac* wrecks, Humboldt Bar, CA -- 13
75. 1863 -- early spring, smallpox, southern CA, esp. Los Angeles and San Diego Co.'s<sup>71</sup>-- ≥16

<sup>68</sup> Date is uncertain. We have it as late August based on Cpt. Adams report of the incident dated Sep 3, Ft. Crook.

<sup>69</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>70</sup> Listed herein in that the *Golden Gate* was a California boat.

### California (continued):

76. 1863 -- Apr 11, Chilula **massacre** by Hoopa/Chilulas ~Stone Lagoon, Humboldt Co. -- ~30
77. 1863 -- Apr 19, Keysville **Massacre**, US Army attacks Natives, near Keysville, CA -- 35
78. 1863 -- Apr 27, steamer **Ada Hancock** explosion, San Pedro Bay, LA, CA -- 26
79. 1863 -- Sep 4-18, Nome Cult **Trail of Tears**, Concow Maidu, Chico to Round Valley CA- ~32
80. 1864 -- Jan 23, schooner **Dashaway** wrecks, Cape Mendocino, CA -- 14
81. 1864 -- Sep, general **massacre** of Yana Natives, Northern CA ≥335-500
82. 1864 -- Sep 5, steamer **Washoe** boiler explos., Sacramento Riv., ~10m N. of Rio Vista, CA-51-103
83. 1864 -- Nov 26, sternwheel **Sophie McLane** boiler explosion, Suisan City dock, CA -- ≥10
84. 1865 -- July 30, stmr. **Brother Jonathan** hits rock/sinks, storm, off Crescent City, CA--171-225
85. 1865 -- Aug 16, Workman/Three Knolls **Massacre**, Whites kill Yana's, Mill Creek -- ~40
86. 1865 -- Oct 12, steamer **Yosemite** boiler explosion, Sacramento Riv., Rio Vista, CA --55-68
87. 1866 -- Apr 16, **nitroglycerin explosion**, Wells Fargo building, San Francisco, CA --15-20
88. 1866 -- Dec, **cholera**, Lake Nicaragua U.S. Army camp, CA -- 27
89. 1866 -- Sep 29, steamer **Julia**, steam drum explosion, steam release, San Francisco, CA-- 10
90. 1868 -- June-Dec, **smallpox**, esp. San Francisco/760, also San Juan, Watsonville, etc. -- 960
91. 1868 -- July 04, **drawbridge/plank to boat** at wharf gives way, drownings, Oakland CA--≥11
92. 1868 -- Oct 21, **Hayward Earthquake**, SF Bay Area, CA -- 30
93. 1870 -- **diarrhoea** (131), **dysentery** (91) and **enteritis** (220); from U.S. Census -- 442
94. 1870 -- **diphtheria** (subset of 6,303 deaths nationwide) -- 255
95. 1870 -- **scarlet fever**, especially children (State subset of 20,339 deaths nationwide) -- 479
96. 1870 -- **smallpox** (State subset of 4,597 smallpox deaths nationwide) -- 254
97. 1870 -- **typhoid fever** (State subset of 22,187 typhoid fever deaths nationwide) -- 392
98. 1870 -- **typhus** (State subset of 1,770 typhus deaths nationwide) -- 51
99. 1871 -- Cowboys (4) **massacre** Yahi women/children, Kingsley Cave, Tehama Co. -- ~30
100. 1871 -- July 3, CA brig **Shelehoff** disabled Pacific Ocean storm, starvation, found Oct 19--11
101. 1871 -- Oct 24, racial violence and **massacre**, Chinatown, Los Angeles, CA -- 21
102. 1872 -- Mar 26, **earthquake**, Lone Pine, Owens Valley, CA --27-30
103. 1872 -- Nov 29-30 Modoc "Hooker Jim" band **kills** white males, SE Tule Lake, CA --14-18
104. 1876 -- May 19-July 1, 1877, **smallpox** epidemic, San Francisco, CA -- 482
105. 1876 -- Oct 30, Fire Scare/**trampling**, Chinese Royal Theatre, Jackson St. SF, CA --19-20
106. 1877 -- **diphtheria** epidemic, especially Santa Cruz, CA -- 118
107. 1879 -- Feb 22, **explosion**, thrashing engine, pump exhibition, Stockton, CA -- 20
108. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 US deaths)-- 295
109. 1879 -- June-May 1880, **tuberculosis**; subset of 91,270 US TB deaths; CA --1,016
110. 1879 -- Nov 18, **tunneling gas explosions**, Railroad Tunnel No. 3, ~San Jose, CA -- ~30
111. 1879 -- Dec, schooner **Mary D. Pomeroy** lost at sea, Crescent City, CA to SF, CA -- 14
112. 1880 -- Apr 16, **explosion**, Giant Powder Works, Berkeley, CA --22-27
113. 1880 -- Aug-Dec 18, **smallpox** outbreak, San Francisco, CA -- 27
114. 1881 -- Jan-Dec 3, **smallpox**, San Francisco (47) and Oakland (1), CA -- 48
115. 1883 -- Jan 20, **train derails**, Southern Pacific Railroad, near Tehachapi, CA --15-25
116. 1883 -- Jan 21, **explosions**, Giant Powder-Works, Point Clement, ~Oakland, CA --30-40
117. 1883 -- May 25, steamboat **Pilot** boiler explosion, Petaluma River near Lakeville, CA- 9-10

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<sup>71</sup> While we show a low number, essentially those we could count, it has been written that the Hispanic and Native populations were "decimated. It appears that there was a large loss of life.

### California (continued):

118. 1885 -- Aug 20, Brit. bark **Haddingtonshire** strands 3 miles north of Point Reyes, CA-- 15  
 119. 1885 -- Oct 12, last sighting, whaling bark **Amethyst** of San Fran., CA on Arctic trip-- 40  
 120. 1886 -- Dec 17, whaling bark **Atlantic** grounds near San Francisco, CA -- 27  
 121. 1887 -- Dec 20, freighter **San Vincente** burns off Pigeon Point ~45m south of S.F., CA--12  
 122. 1888 -- Feb 27, ferry **Julia** boiler explosion/fire, Carquinez Strait, South Vallejo, CA-- 30  
 123. 1888 -- Aug 22, fog, steamers collide, **City of Chester** sinks, San Francisco Bay, CA-15-16  
 124. 1889 -- Feb 09, last sighting, SF schooner **Annie** leaves San Francisco for Unalaska, AK--11  
 125. 1889 -- Mar 02, SF whaling schooner **James A Hamilton** departs San Francisco for AK, lost- 21  
 126. 1889 -- Mar 02, sealing schooner **Otter** leaves San Francisco for Shumagin Isl., AK, lost<sup>72</sup>-23  
 127. 1889 -- June-May 1890, typhoid fever, State subset of 27,058 US typhoid deaths -- 479  
 128. 1889 -- Dec 22, Utica Gold mine North Shaft Collapse/cave-in, Angels Camp CA --16-17  
 129. 1890 -- Apr 26, SF CA ship **Oneida** strands, Oneida Rock, off Sanak Island SW, AK<sup>73</sup>-- 77  
 130. 1890 -- May 30, train falls through open drawbridge, drownings, Oakland, CA -- 29  
 131. 1890 -- Jan-Mar, influenza (La Grippe/Russian Flu), esp. L.A., Oakland, San Fran. -- 720  
 132. 1891 -- Feb 21, ship **Elizabeth**, NYC to SF, grounds, Tenn. Cove, Marin Ct. CA --17-20  
 133. 1892 -- June 13, munitions explosion, **USS Boston**, Mare Island Navy Yard, CA -- 15  
 134. 1892 -- Oct 06, LA CA whaling bark **Helen Mar** crushed by icebergs, Chukchi Sea, AK<sup>74</sup>27  
 135. 1893 -- Mar 21, SF CS seal schooner **Helen Blum** last seen, Shumagin Isles. vic., AK<sup>75</sup>--26  
 136. 1893 -- Dec 15, schooner **Mascot** leaves SF, CA homeport, sealing trip, lost at sea -- 17  
 137. 1894 -- May 11, SF, Cal. whaling bark **James Allen** hits rock/sinks, Amlia Island, AK<sup>76</sup>-25  
 138. 1895 -- Apr 24, SF CA seal/fishing sch. **C G White** grounds/storm, Trinity Isl. reefs, AK<sup>77</sup>-- 11  
 139. 1895 -- May 21, nitroglycerine explosions, California Powder Works, Pinole, CA -- 15  
 140. 1895 -- May 27, storm, **Colima** (SF, CA) founders off Manzanilla, Mexico<sup>78</sup> -- 153  
 141. 1896 -- measles, especially Los Angeles, CA -- ≥14  
 142. 1896 -- Sep 01, powder explosion, Hercules Powder Works, Pinole, CA -- 12  
 143. 1898 -- Mar 20/21, bark **Helen W. Almy** capsizes in gale near Point Bonita, CA --40-41  
 144. 1898 -- Apr 26, California Powder Works explosions, near Santa Cruz, CA --11-13  
 145. 1899 -- Apr 04, steamer **Chilkat** wrecks in "Heavy Sea," Humboldt Bay Bar, CA -- 10  
 146. 1900-04 -- May 1900-Feb 1904, bubonic plague, Greater San Francisco, CA -- 113  
 147. 1900 -- tuberculosis (subset, 109,750 tuberculosis deaths) and 22,506 CA deaths --3,480  
 148. 1900 -- typhoid fever (State subset of 35,379 typhoid fever deaths nationwide) -- 512  
 149. 1900 -- Nov 29, roof collapse, San Francisco Pacific Glass Works, San Francisco, CA-- 20  
 150. 1901 -- Feb 22, **City of Rio de Janeiro** grounds/sinks/fog, Fort Point, SF Bay CA--127-131  
 151. 1902 -- Jan 02, steamer **Walla Walla** hit by bark **Max**, 9m off Cape Mendocino, CA--36-43  
 152. 1902 -- Dec 03, fuel tank explosion, ship **Progreso**, Fulton Shipyard, SF, CA -- 12  
 153. 1904 -- Dec 07, SF CA fishing schr. **Pearl** departs; wreck found Mar 7 ~Sanak Isl., AK<sup>79</sup>--36

<sup>72</sup> Cross-listed in Alaska, where registered in Sitka and probably lost in Alaskan waters.

<sup>73</sup> Cross-listed in Alaska where the *Oneida* was lost – was registered in CA and sailed from San Francisco.

<sup>74</sup> Cross-listed in California in that she was owned, home-ported, and sailed from Los Angeles, CA.

<sup>75</sup> Though lost in Alaskan waters, cross listed in CA. Built, owned and sailed from San Francisco this voyage.

<sup>76</sup> Cross listed in California, where she was owned, registered, and homeported.

<sup>77</sup> Cross-listed in CA: built (1887) and registered in San Francisco. Capt. was from SF. Owner lived in Alameda.

<sup>78</sup> Listed herein in that the *Colima* was a California boat.

<sup>79</sup> Cross-listed in CA in that the *Pearl* was a San Francisco boat, where it was owned and registered.



### California (continued):

154. 1905 -- **tuberculosis**, subset, 56,770 registration area deaths (10 states/135 cities)<sup>80</sup> --1,251
155. 1905 -- July 21, USS **Bennington** gunboat boiler explosion, San Diego, CA --60-65
156. 1906 -- Jan 22, steamer **Valencia** grounds/sinks south side Vancouver Isl., BC<sup>81</sup> --117-136
157. 1906 -- Feb 24, SF CA steamer **Centennial** departs Hakodate, Japan for San Fran., lost-- 38
158. 1906 -- Apr 18, **earthquake, fire, landslides**, San Francisco and vicinity, CA --3,000-5,000
- 1906 -- June 11, steamer **Corinthian** grounds, Humboldt Bar, CA<sup>82</sup> -- 2
159. 1906 -- Nov 09, **building collapse**, Bixby Hotel, Long Beach, CA -- 10
160. 1907 -- **tuberculosis** (CA subset of 76,650 TB deaths nationwide) --4,090
161. 1907 -- **typhoid fever**, esp. LA/56, Oakland/44, Sacramento/24, San Francisco/119 -- 545
162. 1907 -- Mar 28, **train derails**, Sunset Express, Southern Pacific Rail, Colton, CA --24-28
163. 1907 -- May 11, **train derails**, Coast Line, Southern Pacific RR, near Honda, CA --32-40
164. 1907 -- May 27-Dec 31, **bubonic plague** epidemic, San Francisco, CA --77-96
165. 1907 -- July 21, liner **Columbia** hit by sch. *San Pedro*, **fog**, sinks ~Shelter Cove, no. CA--80-88
166. 1907 -- Nov 30, **mine** fire, Fremont Gold Mine, Drytown, CA -- 11
167. 1908 -- Feb 20, **nitroglycerin explosion**, Hercules Powder Works, Pinole, CA --28-30
168. 1908 -- Sep 20, SF CA bark **Star of Bengal** grounds/wrecks, Coronation Isl., AK --111-112
169. 1910 -- **polio** outbreak, especially children, CA -- 29
170. 1910 -- Aug 08, **train crash**, Northwestern Pacific Railroad, Ignacio, CA -- 11
171. 1910 -- Oct 01, Los Angeles Trade Unionist **attack**, LA Times, LA, CA -- 21
172. 1911 -- Mar 10?, **avalanches**, Mono County, CA -- 17
173. 1911 -- July 07, steamer **Santa Rosa** grounds north of Point Arguello, CA -- 12
174. 1911 -- Aug-Oct, **tuberculosis**, statewide CA --1,096
175. 1911 -- Nov-Dec, **smallpox**, especially Los Angeles, CA -- 10
176. 1912 -- **polio**, especially summer to fall, especially children -- 129
177. 1912 -- Jan-Nov, **smallpox**, esp. Los Angeles, also Pasadena, SF, San Bernardino --16-19
178. 1912 -- Apr, **tuberculosis**, CA (17,463 US) -- 420
179. 1913 -- **heat**; 1,226 "registration area" (65% of US) deaths; subset for CA (11<sup>th</sup> highest)-- 37
180. 1913 -- May 24, **auditorium floor collapse**, Pine Ave Municipal Pier, Long Beach CA --40-47
181. 1913 -- June 19, **electric trains collide**, S.F., Napa & Calistoga RR, near Vallejo, CA-- 13
182. 1913 -- July 13, Pacific **electric RR trains collide**, ~Vineyard Station, L.A., CA -- 16
183. 1913 -- Aug 17, SF steamer **State of California** hits rock/sinks, Gambier Bay, Admiralty Is. AK-31-32
184. 1914 -- **polio**, Aug-Oct, especially children (subset of 720 US polio deaths), CA -- 33
185. 1914 -- Nov 23, steamer **Hanalei** grounds, Duxbury Reef near San Francisco, CA -- 23
186. 1915 -- Aug-Nov, **polio**, especially children (CA subset of 311 US polio deaths) -- 19
187. 1916 -- **diphtheria**, especially children, CA -- 290
188. 1916 -- Jan 14-30, heavy rain, Southern CA **flooding**, **Lower Otay dam failure** --22-60
189. 1916 -- May 09, steamer **Roanoke** founders off Point Buchon ~San Luis Obispo, CA-- 47
190. 1916 -- July 22, **bombing**, Preparedness Day Parade, San Francisco, CA -- 10
191. 1916 -- July-Oct, esp., **polio** epidemic, CA subset of 6,745-7,000 US polio deaths -- 26
192. 1917 -- **polio**, esp. June-Sep, especially children (State subset, ≥1,182 US polio deaths)--24
193. 1917 -- Dec 17, **Submarine F-1 collides** with *F-3*, sinks off Coast of San Diego, CA-- 19

<sup>80</sup> CA subset is of Fresno, Sacramento, San Diego, San Jose, San Francisco/1006, 3<sup>rd</sup> highest large city death rate.

<sup>81</sup> Listed herein in that the *Valencia* was a California boat.

<sup>82</sup> Listed only because we are aware of reports of twelve lives lost, when there were actually two.



### California (continued):

194. 1918 -- **typhoid fever**; subset of 9,100 US Typhoid Fever deaths; CA -- 194
195. 1918-1919 -- **influenza and pneumonia** epidemic, CA --21,675  
 1918 -- Sep-Dec, **influenza/pneumonia** epidemic, esp. S.F., LA, Oakland, CA--15,747  
 1919 -- Jan-Apr, **influenza and pneumonia** epidemic, CA -- 5,928
196. 1918 -- Sep 17, storm, Cal. steamer **San Gabriel** founders off Cape Lucas, Mexico -- 20
197. 1918 -- Dec 19, tanker **George Loomis** leaves SF CA for OR, sinks/storm, so. OR coast<sup>83</sup> --18-19
198. 1920 -- **diphtheria and croup** (CA subset, 13,395 such deaths, 34 registration states)-- 461
199. 1920 -- **influenza & pneumonia** epidemic, esp. Los Ang., Oakland, San Fran., CA --5,846
200. 1920 -- **measles** (CA subset of 7,712 measles deaths in 34 registration states) -- 220
201. 1920 -- **scarlet fever** (CA subset, 4,004 scarlet fever deaths in 34 registration states)-- 92
202. 1920 -- **typhoid fever**; 6,805 typhoid fever deaths, 34 registration states; CA subset -- 166
203. 1920 -- **tuberculosis of lungs**, esp. LA, Oakland, Sacramento, and San Francisco --4,935
204. 1920 -- **whooping cough**; CA subset/7<sup>th</sup> highest; 10,968 deaths, 34 registration states-- 410
205. 1921 -- **polio**, acute, esp. late Sum-Fall; subset, 1,597 US polio deaths; above avg. -- 95
206. 1921 -- Aug 06, fog, coastal passenger steamer **Alaska** grounds off Blunts Reef, CA-- 42
207. 1922 -- Aug 27, **mine** fire, Argonaut Gold Mine, Jackson, CA -- 47
208. 1923 -- Sep 08, **seven US Navy destroyers run aground in fog**, Honda Point, CA -- 23  
 -- 3 Flagship destroyer USS *Delphy*  
 --20 destroyer USS *Young*
209. 1924 -- May 31, **fire**, Hope Development School, Playa Del Rey, near Venice CA -- 24
210. 1924 -- June 12, battleship **USS Mississippi** gun turret cordite fire off San Pedro CA-- 48
211. 1924 -- Oct-Nov esp. **pneumonic and bubonic plague** epidemic, Los Angeles, CA --35-37
212. 1925 -- **diphtheria** (CA subset, 9<sup>th</sup> highest, 8,058 US diphtheria deaths) -- 275
213. 1925 -- **dysentery** (CA subset, 3,257 US dysentery deaths) -- 91
214. 1925 -- **excessive heat** (CA subset, 4<sup>th</sup> highest, of 1,587 US excessive heat deaths) -- 69
215. 1925 -- **influenza** (CA subset, 30,538 US influenza deaths) -- 804
216. 1925 -- **meningococcus meningitis** (CA state, 7<sup>th</sup> highest, 1,095 US meningitis deaths)--47
217. 1925 -- **polio** (CA subset, 2<sup>nd</sup> highest, 1,518 US polio deaths) -- 129
218. 1925 -- **scarlet fever** (CA subset, 2,762 US scarlet fever deaths, 48 states) -- 64
219. 1925 -- **smallpox** (CA subset, 3<sup>rd</sup> highest state, of 709 US smallpox deaths in 1925) -- 59
220. 1925 -- **tuberculosis** (CA subset, 3<sup>rd</sup> highest, 89,268 US tuberculosis deaths) --5,934
221. 1925 -- **whooping cough** (subset, 3<sup>rd</sup> highest, 6,948 US whooping cough deaths); CA-- 481
222. 1925 -- June 29, **earthquake**, Santa Barbara, CA -- 13
223. 1927 -- **polio**, esp. late summer-fall (subset, US high, 2,013 US polio deaths), CA -- 230
224. 1928 -- Mar 12-13, **St. Francis dam failure/flood**, Santa Clara River val., CA --370-431
225. 1928 -- Aug 09, steamer **William A. McKenney**, storm/drownings, coast of CA -- 14
226. 1929 -- Aug 29, steamer **San Juan** hit by tanker *S.C.T. Dodd*, sinks ~Pigeon Pt., CA--75-78
227. 1930 -- Jan 02, **planes collide**, Motion Picture rentals, Santa Monica, CA -- 10
228. 1930 -- Jan 19, **plane crash**, Transcontinental Air Transport Flight 7, Oceanside, CA-- 16
229. 1930 -- Sep 16/17, SF CA schooner **South Coast** sinks, OR Coast, ~Cape Blanco<sup>84</sup> --18-19
230. 1930 -- Nov 8, lumber steamer **Brooklyn** swamped by breakers, Humboldt Bar, Eureka, CA- 18
231. 1931 -- **epidemic cerebrospinal meningitis**; CA subset, 2,832 US meningitis deaths -- 148

<sup>83</sup> Home-ported San Francisco where the majority of the crew lived. Captain lived in Oakland.

<sup>84</sup> Cross listed in OR. On trip from CA port apparently lost off OR coast. Home-ported and crewed in San Fran.

### California (continued):

232.	1931 --	diphtheria	, especially children (State subset, 5,738 U.S. diphtheria deaths)	--	181
233.	1931 --	influenza	(31,701 US influenza deaths), subset for CA	--	806
234.	1931 --	measles	, especially children (State subset, 3,576 measles deaths nationwide)--		124
235.	1931 --	polio	, esp. July-Oct, (CA subset, 2,139-2,144 US polio deaths, esp. children)--		51
236.	1931 --	tuberculosis	; subset of 81,395 US TB deaths	--	5,308
237.	1931 --	summer, esp. July 2-3, 24-30,	heat waves	, especially Imperial Valley, CA	-- 127
238.	1932 --	Sep 30,	flash flood	, Tehachapi Creek Basin, Woodford, Kern County, CA	-- ≥15
239.	1933 --	Mar 11,	earthquake	, Long Beach, CA	-- 120
240.	1933 --	Mar 25,	plane crash	, Varney Speed (Air) Lines, San Leandro, CA	-- 14
241.	1933 --	June 02,	explosion	, Richfield Meandor Oil Refinery, Long Beach, CA	-- 10
242.	1933 --	Oct 03,	wildfire	, Griffin Park, Los Angeles County, CA	--28-33
243.	1933 --	Dec 30-31,	flooding	, Southern CA	-- 45
244.	1934 --	summer,	excessive natural heat	; subset of 3,250 US heat deaths; CA	-- 32
245.	1934 --	June 12,	Tuna Clipper Belle Isle	sails from San Diego, CA, lost at sea	-- 12
246.	1936 --	Feb 03,	fire	, dormitory, Parker Dam construction site, Colorado River, CA	-- 10
247.	1936 --	July 01-24 (especially),	heat wave	, especially Southern CA	-- 49
248.	1936 --	Dec 27,	plane crash	, United Air Flight 34, Rice Canyon, Newhall, CA	-- 12
249.	1937 --	Feb 09,	plane crash	, United Air Flight 23, San Francisco Bay, CA	-- 11
250.	1937 --	Feb 17,	construction scaffolding collapse	, Golden Gate Bridge, San Fran.	-- 10
251.	1938 --	Feb 02,	planes collide	mid-air, two US Navy PBY-2 bombers, off S. CA	-- 11
252.	1938 --	Feb 27-Mar 4,	storm/flash flooding	, esp. LA/62, Orange/45 counties, So. CA--	≥146
253.	1938 --	July 31-Aug 04,	heat wave	, especially Imperial Valley, CA	-- 10
254.	1939 --	diphtheria	, esp. Jan-Mar, Sep-Dec; CA subset, 1,997 US diphtheria deaths	--	59
255.	1939 --	influenza and pneumonia	(CA subset, 99,097 U.S. flu/pneumonia deaths)	--	3,639
256.	1939 --	tuberculosis	(CA subset of 61,609 tuberculosis deaths nationwide)	--	3,483
257.	1939 --	June-Sep (esp. Sep 15-23, LA),	heat	(subset of 527-1,073 US heat deaths)	-- 546
258.	1939 --	Sep 25,	trop. storm, boat & beach drownings	, esp. Long Beach/San Pedro	--50-54
259.	1940 --	influenza and pneumonia	; 92,525 US flu & pneumonia deaths; CA	--	4,043
260.	1940 --	polio	(CA subset of 1,026 polio deaths nationwide)	--	47
261.	1940 --	syphilis	, US death rate 14.4 per 100,000 pop. (19K US); CA death rate 18.0--		1,245
262.	1940 --	tuberculosis	(CA subset of 55,576 tuberculosis deaths nationwide)	--	3,541
263.	1940 --	whooping cough	(CA subset, 2,926 US whooping cough deaths)	--	102
264.	1941 --	Jan 04,	plane crash	on landing, USN Transport R2D-I, San Diego, CA	-- 11
265.	1941 --	Dec 30,	3 USAAF planes crash	in CA; ~Allensworth, Keller Peak, Oakland--	11
266.	1942 --	Apr 12,	planes crash	, two U.S. Navy Bombers, near Livermore, CA	-- 14
267.	1942 --	June 4,	plane crash	, US Army AF LB-30, near Hamilton Field, CA	-- 14
268.	1942 --	Oct 23,	planes collide	, American Air/USAAF B-4, Palm Springs, CA	-- 12
269.	1943 --	Jan 21,	plane crash	, Pan Am 1104/USN Transport, Mt. ~Boonville & Ukiah--	19
270.	1943 --	May 29,	plane lost	, USAAF B-24D, Pacific Ocean off Coast of CA	-- 10
271.	1943 --	July 05,	plane crash	, USAAF B-24E, fog, Green Mt., San Miguel Island, CA--	12
272.	1943 --	Aug 12,	plane crash	, USAAF B-24A, near Indio, CA	-- 10
273.	1943 --	Oct 01,	plane crash	, U.S. Army Air Force, B-24D, Elk, CA	-- 10
274.	1943 --	Oct 03,	Hauser Creek wildfire	, Cleveland National Forest, So. CA	-- 11
275.	1943 --	Oct 04,	plane crash	, USAAF, B-24D, Army Air Base, Blythe, CA	-- 10

### California (continued):

276. 1943 -- Oct 14, **plane crash**, USAAF, B-24D, Neighbours, CA -- 10
277. 1943 -- Oct 15, **plane crash**, USAAF B-24E near Army Air Base, Blythe, CA -- 10
278. 1943 -- Oct 29, **plane crash**, USAAF B-24E, Cucamonga Peak, Fontana, CA -- 10
279. 1944 -- **cerebrospinal meningitis**; CA subset, 2,812 US cerebrospinal meningitis deaths-- 154
280. 1944 -- **influenza**, esp. Jan-Apr, Dec (subset of 17,320 US influenza deaths); CA -- 492
281. 1944 -- **measles**, especially Jan-June (subset of 1,923 US measles deaths); CA -- 101
282. 1944 -- **polio**, especially July-Nov (subset of 1,070 US polio deaths); CA -- 39
283. 1944 -- **whooping cough** (subset of 1,878 US whooping cough deaths); CA -- 41
284. 1944 -- **tuberculosis** (CA subset of 54,731 tuberculosis deaths nationwide) --3,826
285. 1944 -- Jan 02, **plane breakup**, USAAF B-17G, McClellan Field, Sacramento, CA -- 13
286. 1944 -- Jan 03, **plane crash**, USAAF B-24J, 25 miles SE of Muroc, CA -- 10
287. 1944 -- Jan 20, USN PB4Y-1 **Liberator** 32163 **crash** after takeoff, Camp Kearny, CA-- 13
288. 1944 -- Mar 28, **arson fire**, New Amsterdam Hotel, San Francisco, CA -- 22
289. 1944 -- Apr 09, **plane crash**, USAAF B-24D, near USMC Air Station, Mojave, CA -- 10
290. 1944 -- May 30, **USN PB4Y** and **F4F collide**, Palomar Mt., San Diego County, CA -- 12
291. 1944 -- July 04, **planes collide**, USAAF B-24J, near Palm Springs, CA -- 10
292. 1944 -- July 17, **munitions ships collide/explosion**, Port Chicago, CA --320-325
293. 1944 -- July 25, **USAAF crash**, San Pablo Bay, near Hamilton Field, San Rafael, CA-- 10
294. 1944 -- Aug 01, **planes collide**, USAAF B-24's, ~Furnace Creek, Death Valley, CA-- 17
295. 1944 -- Sep 01, USAAF B-24J **plane crash**, near Muroc Army Air Field, CA -- 10
296. 1944 -- Oct 21, **USN LSMs 211/212 explosion/fire**, Berth 223, LA Harbor, CA -- 16
297. 1944 -- Nov 04, **plane crash**, TWA Flight 8, in thunderstorm, near Hanford, CA -- 24
298. 1944 -- Nov 08, Southern Pacific Challenger **train derailment**, near Colfax, CA -- 9-10
299. 1944 -- Nov 11, **plane crash**, USAAF C-47B, Strawberry Peak, near Glendale CA --12-13
300. 1944 -- Nov 18, **plane crash**, USAAF B-24J, near March Field, Riverside, CA -- 11
301. 1944 -- Dec 22, **break-up/crash**, USAAF B-24, Mt. Gleason, La Crescenta, CA -- 10
302. 1945 -- Jan 10, American 6001 missed approach crash, **fog**, Verdugo Mts. ~Burbank AP, CA--24
303. 1945 -- Jan 20, **USAAF B-24J landing approach crash**, 2½M SE of Muroc AAF, CA--10
304. 1945 -- Feb 13, **USN transport crash**, wing hits water, early AM takeoff, off Alameda, CA--24
305. 1945 -- May 04, **one USN and two USAAF aircraft crashes**, in CA -- 21
- 7 **USN PBY-5A Catalina** hits hillside in initial climb ~Ft. Baker SF Bay area, CA
- 6 **USAAF B-26 engine cutting out after takeoff**, crash Hwy-41, Pinedale, CA
- 8 **USAAF B-24J March Field takeoff crash** about 8M NW near Edgemont, CA
306. 1945 -- May 12, USAAF B-24 flies into cloud-covered **tree-tops** ~Anderson Cliff, CA--all 11
307. 1945 -- Aug 22, **USN PB4Y-2 loss of control crash** into Pacific off San Diego, CA -- 10
308. 1946 -- **polio**, the year, especially July-Nov (CA subset of 1,845 U.S. polio deaths) -- 99
309. 1946 -- Mar 03, **American Airlines 6-103 plane crash**, zero visibility, Thing Mt. CA-- 25
310. 1946 -- Mar 19, **USAAF C-47 structural failure/crash**, near Hobart Mills, CA --all 26
311. 1946 -- Aug 01, **USN PB4Y-2 Privateer crash** after takeoff from Camp Kearny MCAS, CA--all 12
312. 1946 -- Nov 13, **Western Air 23 crash** (descended too soon in snow storm), White Mt., Lebec, CA--11
313. 1946 -- Dec 24, **Western Air 44** hits Cuyapaipe Mt., too-low approach to San Diego, CA--12
314. 1947 -- Feb 20, **chemical explosion**, O'Connor Electroplating Works, Los Angeles -- 17
315. 1947 -- Feb 22, **USCG PBM-5 plane crash**, in Mexico on way back to San Diego<sup>85</sup>-- 10

<sup>85</sup> Heading back to San Diego CG Station after “mercy mission.” Crash was in “adverse weather conditions.”

### California (continued):

316. 1947 -- Jun 22, tanker **Markay** petrol. products loading **vapor explosion**, Mormon Isl., LA--11-12
317. 1948 -- **polio**, year, especially July-Nov with 306 deaths (1,895 US polio deaths) -- 365
318. 1948 -- Jan 28, **Airline Transport Carriers crash** (U.S. INS Charter) ~Coalinga, CA-- 32
319. 1949 -- **polio**, the year, especially July-Nov (CA subset, ~2,725 US polio deaths) -- 136
320. 1949 -- July 12, **Standard Airlines #897** hits Mt. in **fog**, approach to Burbank, CA -- 35
321. 1949 -- Aug 31, **USN Martin Mariner PBM-5 takeoff crash** off NAS San Diego, CA--10
322. 1949 -- Nov 16, **two USAF B-29 Superfortresses collide over** Stockton area, CA -- 18  
 --9 USAF Boeing B-29 Superfortress, 44-69939  
 --9 USAF Boeing B-29 Superfortress, 44-86364
323. 1950 -- **measles**, especially children (CA subset of 468 measles deaths nationwide) -- 10
324. 1950 -- **polio**, especially July-Nov (CA subset of 1,904 polio deaths nationwide) -- 112
325. 1950 -- Aug 5, **USAF B-29 with nuke component crash** & **explos.** ~Fairchild-Suisun AFB, CA--19  
 --12 of the 20 B-29 flight crew  
 -- 7 on ground fire-fighters when bombs exploded ~10-12 minutes later
326. 1950 -- Aug 25, **USN hosp. ship Benevolence** sinks, collision with freighter ~SF, CA-- 23
327. 1951 -- **diphtheria**; 302 US deaths; 13 States in double digits; subset for CA -- 14
328. 1951 -- **measles**, 688 US deaths; subset for CA (4<sup>th</sup> highest US state loss) -- 37
329. 1951 -- **polio**, the year, especially July-Nov (1,551-1,555 polio deaths nationwide) -- 156
330. 1951 -- **tuberculosis** (respiratory), 31,163 US deaths, CA subset (3<sup>rd</sup> highest in US) --2,177
331. 1951 -- Apr 06, **Southwest Air Flight 7** flies into north slope Santa Ynez Peak, CA --all 22
332. 1951 -- Aug 24, **United 615** too-low crash in fog on Oakland AP approach, Decoto, CA--all 50
333. 1951 -- Nov 27, USN Martin PBM-5 **Mariner crash** in ocean 7M off San Diego CA--all 11
334. 1952 -- **diphtheria** (225 US deaths; 7 states in double digits), subset for CA -- 17
335. 1952 -- **polio**, CA subset of ~3,300 US polio deaths -- 217
336. 1952 -- **tuberculosis** (respiratory): 22,700 US deaths; CA (2<sup>nd</sup> highest US state loss)--1,678
337. 1952 -- Jan 10-19, **rain and snow storms**; flooding, avalanches, slides, CA -- 9-10
338. 1952 -- Apr 5, USAF B-29 weather plane airport approach **crash**, McClellan AFB, CA--all 10
339. 1952 -- Apr 18, Robin Airlines C-46 charter **crash**, LAX approach near Whittier, CA--all 29
340. 1952 -- July 21, **earthquake**, Kern County, CA -- 12
341. 1952 -- Dec 1, **USAF C47B** flies into Mt. San Gorgonio, snowstorm, ~Banning, CA--all 13
342. 1953 -- **heat, excessive natural** (code E931), 576 US heat deaths, esp. Aug 22-Sep 5-- 28
343. 1953 -- **measles**, 483 US deaths, 23 states in double digits; CA 3<sup>rd</sup> highest -- 25
344. 1953 -- **polio** (CA subset, highest in US, of 1,450 polio deaths nationwide) -- 158
345. 1953 -- **tuberculosis** (respiratory); 17,954 US deaths; CA subset (3<sup>rd</sup> high US State)--1,383
346. 1953 -- **whooping cough**; 271 US deaths, 11 States double digits; CA subset -- 13
347. 1953 -- Jan 13, **USAF B-50D** Superfortress spins down out-of-control ~Gridley, CA--all 12
348. 1953 -- Feb 12, **fire, dynamite explosion**, Hercules Powder Co., near Pinole, CA -- 12
349. 1953 -- Mar 20, **Transocean Air 942** (military charter) approach crash, NE of Alvarado, CA--all 35
350. 1953 -- July 9, arson **Rattlesnake Wildfire** (firefighters killed), Mendocino Nat. Forest, CA--15
351. 1953 -- Oct 29, **British Commonwealth Pacific Air** 304 S.F. approach crash in fog ~Half Moon Bay, CA--19
352. 1954 -- **excessive heat**, especially July, subset of 978-984 US heat-related deaths, CA-- 27
353. 1954 -- **dysentery**, infectious, all forms (codes 045-048), 655 US deaths; CA subset-- 31
354. 1954 -- **encephalitis**, acute infectious (viral); 407 US deaths, esp. NY PA MI TX CA-- 24
355. 1954 -- **measles**; 524 US deaths; 21 states double digits; CA subset -- 10



### California (continued):

356. 1954 -- **polio**, acute; 1,400 US deaths; CA subset (2<sup>nd</sup> highest behind TX) -- 119
357. 1954 -- **scarlet fever**/streptococcal sore throat; 263 US deaths; CA subset -- 10
358. 1954 -- **tuberculosis** (respiratory); 15,146 US deaths; CA (2<sup>nd</sup> highest US state toll) --1,108
359. 1954 -- **whooping cough**/pertussis; 375 US deaths, 17 states double digits, CA -- 17
360. 1954 -- June 27, USAF KC-97G **Stratotanker** flies into Box Springs Mountain, CA--all 14
361. 1954 -- Oct 06, USAF RB-50G **plane crash** and fire, near Willows, Glenn County, CA--13
362. 1955 -- **measles**, 345 US deaths (7 states double digits); CA subset (2<sup>nd</sup> US high state)-- 30
363. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); CA subset -- 38
364. 1955 -- **tuberculosis** (respiratory); 13,676 US TB deaths; CA subset 3<sup>rd</sup> highest --1,076
365. 1955 -- **whooping cough**/pertussis, 476 US deaths/15 states in double digits; CA -- 11
366. 1955 -- July 13, **USAF KC-97** tanker fire after takeoff and crash near Cressy, CA --all 10
367. 1955 -- Aug 31–Sep 9, **heatwave**/excessive deaths, greater Los Angeles, CA<sup>86</sup> --115-946
368. 1955 -- Dec 18-27, **flooding**, **levee failure**, north two-thirds CA, esp. Yuba City/38 --76-80
369. 1956 -- **measles**, 530 US deaths/21 states in double digits; CA tied for 17<sup>th</sup> state high-- 15
370. 1956 -- **polio**/acute, 566 US deaths/15 states in double-digits; CA 3<sup>rd</sup> highest toll -- 62
371. 1956 -- **scarlet fever/streptococcal sore throat**; 240 US deaths; CA subset -- 10
372. 1956 -- **tuberculosis** (respiratory), 12,978 US TB deaths; CA had 3<sup>rd</sup> highest US toll-- 938
373. 1956 -- Jan 22, speeding Santa Fe RDC **train overturns** in curve, Redondo Jct., LA, CA--30
374. 1956 -- Feb 17, **USN DC-4 flies into terrain**, USN crew/5; USMC/35 ~Niles, CA --all 40
375. 1956 -- Nov 25, **Inaja wildland fire**, firefighters trapped, Cleveland National Forest, CA--11
376. 1956 -- Nov 30, USAF B-52 **plane crash** after Castle AFB takeoff near Ballico, CA--all 10
377. 1957 -- **measles**; 389 US deaths; 15 states double digit deaths; CA subset (US high) -- 37
378. 1957 -- **polio**, acute; 221 US deaths; six double digit states; CA, IL IN MI OH TX; CA-- 22
379. 1957 -- **tuberculosis** (respiratory); 12,384 US deaths; CA subset (3<sup>rd</sup> US high) -- 833
380. 1957 -- Jan 29, tanker **SS Jeanny vapor explosions**, Todds shipyard, Alameda, CA -- 10
381. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) --4,213
382. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including CA -- 12
383. 1958 -- **polio** (acute); 255 US deaths; 11 states in double digit deaths; CA -- 13
384. 1958 -- **whooping cough** (pertussis); 177 US deaths; CA subset (2<sup>nd</sup> US state high) -- 15
385. 1958 -- **tuberculosis**; 12,361 US TB deaths; CA subset (3<sup>rd</sup> highest of the States) -- 872
386. 1958 -- Feb 01, USAF C-118A/all 41 & USN P2V-5F/6 **planes collide**, Norwalk, CA-- 48
387. 1958 -- June 16, migrant farm worker **truck** fire (spilled gasoline) Soledad, CA -- 14
388. 1959 -- **influenza**; 2,845 US deaths, CA subset -- 101
389. 1959 -- **measles**, especially children; 385 US deaths; CA subset -- 31
390. 1959 -- **polio** (acute, as opposed to late effects of); 454 US deaths; CA subset -- 20
391. 1959 -- **tuberculosis**; 11,456 US TB deaths; CA subset -- 815
392. 1960 -- **measles**, especially children (CA subset of 380 measles deaths nationwide) -- 12
393. 1960 -- **polio** (acute, as opposed to late effects of); 230 US deaths, CA -- 24
394. 1960 -- Mar 01, **train** and oil tank **truck** collision, Fire, Bakersfield, CA -- 14
395. 1960 -- July 19, USN Destroyers **Ammen & Collett** collide, **fog** ~Newport Beach CA-- 11
396. 1960 -- Oct 29, Arctic-Pacific (football team charter) **takeoff crash**, Toledo Express AP<sup>87</sup>- 22

<sup>86</sup> 115 direct heat deaths from LA Coroner's Office. 946 number is compilation of daily "above-the-norm" deaths (previous year) reported by Coroner. At heatwave start deaths were dozens higher than 1954. At end was hundreds.

<sup>87</sup> Though crash was in Ohio, cross-list because charter 16 members of the Caltech football team were lost.



### California (continued):

397. 1961 -- **scarlet fever and streptococcal sore throat**, 130 deaths, esp. CA/TN/TX (10)-- 10  
 398. 1961 -- Jan 06, **fire**, Thomas Hotel, San Francisco, CA -- 20  
 399. 1961 -- June 30, wrong-way, Cal. speeding **pickup** hits Cal. station wagon, Jean, NV<sup>88</sup>-- 11  
 400. 1962 -- Jan 28-Feb 2, **dense fog**, traffic accidents/pileups/**train hits bus**, Central Valley CA--28-29  
 401. 1962 -- Feb 7-12, **heavy rain**, flooding/mudslides/falling trees/slick roads, southern CA--26  
 402. 1962 -- Oct 10-13, **wind/rain storms**, tree falls, slides, drownings, accidents --18-19  
 403. 1962 -- Dec 26, USN P5M1 Marlin **seaplane lost at sea** 350M SW of San Diego<sup>89</sup> -- 13  
 404. 1963 -- **excessive heat**; 196 US deaths; CA -- 22  
 405. 1963 -- Sep 17, **train** hits migrant worker **truck-bus**, grade-crossing, Chualar, CA -- 32  
 406. 1964 -- **dysentery**; 283 US deaths, CA subset -- 25  
 407. 1964 -- **measles**; 421 US deaths/death rate 0.2; CA death rate 0.2 -- 34  
 408. 1964 -- **polio**, acute (2), and late effects of acute poliomyelitis (20) -- 22  
 409. 1964 -- Mar 01, **plane crash/snowstorm**, Paradise Air # 901A, Genoa Peak, NV<sup>90</sup> -- 85  
 410. 1964 -- Mar 27, **tsunami**, Crescent City/11, Requa, mouth of Klamath/1, Bolinas Bay/1, CA--13  
 411. 1964 -- May 07, **plane crash/pilot shot**, Pacific Air 773, near San Ramon, CA -- 44  
 412. 1964 -- May 23, Samoan Fire-Dance **fire**, All Hallows Parish Hall, San Fran., CA -- 17  
 413. 1964 -- Oct 27, USN **bomber** hits pole/crashes into bldgs., low-level flyover, El Centro NAF, CA-12  
 414. 1964 -- Dec 04, **USN P3A Orion fire, crash**, 25M W off Luzon, Cubi Pt NAS, Philippines<sup>91</sup>--13  
 415. 1964 -- Dec 21-28, **flooding**, Del Norte, Siskiyou, Trinity, Mendocino, esp. Humboldt --24-28  
 416. 1965 -- June 25, USAF **Stratolifter crash** after takeoff, Loma Ridge, El Toro MCAS, CA--all 84  
 417. 1965 -- Aug 11-17, **Watts Race Riots**, Los Angeles, CA -- 34  
 418. 1965 -- Nov 22-24, heavy rain, flash **flooding** and mudslide, Southern CA --<sub>≥</sub>7-13  
 419. 1966 -- **dysentery**, 172 US deaths; subset for CA -- 11  
 420. 1966 -- **excessive natural heat**, subset of 613 US heat deaths, CA -- 18  
 421. 1966 -- **influenza**; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for CA -- 636  
 422. 1966 -- **measles**, 276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; CA-- 19  
 423. 1966 -- **meningococcal infections**, 876 US deaths, esp. CA/109, TX/59, OH/50; CA-- 109  
 424. 1966 -- **polio**, acute and late effects of acute poliomyelitis, 148 US deaths; CA -- 22  
 425. 1966 -- **tuberculosis**, 7,625 US TB deaths; subset for CA -- 537  
 426. 1966 -- Mar 05, air turbulence, BOAC **plane breakup/crash**, Mount Fuji, Japan--124/CA 19  
 427. 1966 -- Apr 09, **USN Orion P-3A auto-pilot loss/crash**, Pacific 187m off San Diego, CA-11  
 428. 1966 -- Nov 1-4, **wildfires**, Angeles Nat. Forest/12, Camp Pendleton/5, Oroville/1, CA--18  
 429. 1966 -- Dec 12, US Navy Sea Knight **helicopter crash** 34 miles off San Diego, CA --all 10  
 430. 1966 -- Dec 20, **Executive Aviation Lodestar** out of San Fran., CA crash ≈San Felipe MX<sup>92</sup>--10  
 431. 1968 -- **excessive natural heat**, ICD-8 code E900; subset of 231 US heat deaths; CA-- 15  
 432. 1968 -- **polio**; ICD-8 codes 040-044; 130 US polio deaths; CA (highest of States) -- 15  
 433. 1968 -- Mar 07, wrong-side/intoxicated driver's **auto** hits **bus, fire**, I-15, Baker, CA-- 20  
 434. 1968 -- May 22, Los Angeles Air helicopter rotor detachment/**crash**, Paramount, CA--all 23

<sup>88</sup> Cross-listed in Nevada where the crash occurred. Listed here in that all the fatalities were from California.

<sup>89</sup> Plane was based and crewed out of San Diego.

<sup>90</sup> Cross-listed in CA in that Paradise Air was a CA airline serving CA passenger trips to Lake Tahoe. Went off course in attempt to land at Tahoe Valley Airport and flew into mountain peak across border in Nevada.

<sup>91</sup> Listed in CA in that eleven of the thirteen were from CA, five from Mountain View.

<sup>92</sup> Family of eight from San Francisco and two pilots from Alameda.

### California (continued):

435. 1968 -- Aug 14, Los Angeles Airways helicopter rotor failure/**crash**, Compton CA --all 21
436. 1968 -- Oct 10-Mar 29, A2/Hong Kong/68 **influenza-pneumonia** Epidemic<sup>93</sup> -- 950
437. 1969 -- **excessive natural heat**, ICD-8 code E900; 271 US deaths; CA (US high) -- 36
438. 1969 -- **influenza**, ICD-8 codes 470-474; 5,971 US deaths/death rate 2.9 per 100K; CA 3.<sup>94</sup>-593
439. 1969 -- **polio**; ICD-8 codes 040-044; 110 US deaths; highest loss was CA -- 17
440. 1969 -- Jan 13, **SAS Flight 933 plane crash** on approach, Santa Monica Bay, CA -- 15
441. 1969 -- Jan 18, **United Flight 266 system failure and crash**, Ocean off LA, CA -- 38
442. 1969 -- Jan 18-26, storms, **flooding**, vehicle deaths, **mudslides**, Southern CA --97-103
443. 1969 -- Feb 18, Hawthorne Nevada/Mineral County Air 708 **plane crash**, Mt. Whitney, CA--all 35
444. 1969 -- Feb 22-25, heavy rain, **flooding** and mudslides, esp. Orange Co., southern CA-- 18
445. 1969 -- Dec 22, USN jet engine failure; **crash** kills ground personnel, Miramar NAS, CA--14
446. 1970 -- **excessive natural cold**; ICD-8 code E901; 466 US deaths; CA -- 15
447. 1970 -- **chickenpox**; ICD-8 code 052; 93 US deaths, especially CA -- 16
448. 1970 -- **excessive natural heat**, ICD-8 code E900; 179 US deaths; CA -- 17
449. 1970 -- **polio**; ICD-8 codes 040-044; 128 US deaths; CA -- 17
450. 1970 -- Jan-Feb, **excessive rain & snow**; drowning/traffic deaths, north / central CA-- 18
451. 1970 -- May 04, USAF Convair T-29D **plane crash** after takeoff ~Hamilton AFB, CA-- 13
452. 1970 -- Sep 13, **fire**, Ponet Square Hotel and Apartments, Los Angeles, CA -- 19
453. 1970 -- Sep 22-Oct 4, CA **wildfires** (some arson), esp. Laguna Fire, esp. Southern CA--13-16
454. 1971 -- **excessive natural heat**, ICD-8 code E900, 112 US deaths; especially CA -- 17
455. 1971 -- **chickenpox**; ICD-8 code 052; 98 US deaths; CA -- 16
456. 1971 -- **excessive natural cold**; ICD-8 code E901; 361 US deaths; CA -- 15
457. 1971 -- **influenza**; ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; CA<sup>95</sup>--201
458. 1971 -- **polio**; ICD-8 codes 040-044; 108 US deaths; CA -- 13
459. 1971 -- Feb 09, mag. 6.6 San Fernando/Sylmar **Earthquake**, San Fernando area, CA--64-65
460. 1971 -- Feb 25-May 21, Juan Corona migrant **farm worker killings**, ~Yuba City, CA-- 25
461. 1971 -- June 06, **planes collide**, Hughes Air 706/Marine Corps Phantom II, Duarte -- 50
462. 1971 -- June 24, **tunnel** under construction gas **explosion**, CA Water Project, Sylmar, CA-17
463. 1971 -- June 27, **takeoff crash**, Shelter Cove Sea Park Co. plane, Shelter Cove, CA -- 17
464. 1972 -- **chickenpox**; 122 US deaths; CA (tied with NY and OH for US high) -- 12
465. 1972 -- **excessive natural heat**; ICD-8 code E900; 234 US deaths; CA -- 16
466. 1972 -- **polio**; ICD-8 codes 040-044; 76 US deaths; CA only state in double-digits -- 18
467. 1972 -- Sep 24, air show **plane crash/fire**, Ice Cream Parlor, Sacramento, CA --22-23
468. 1973 -- **chickenpox**; 138 US deaths; CA -- 10
469. 1973 -- **excessive natural heat**; ICD-8 code E900; 181 US deaths; CA -- 20
470. 1973 -- **influenza**; 5,131 US deaths/death rate 2.43; CA 4.3 (most State deaths in US)-- 897
471. 1973 -- Feb 6-11, rain, earthslides/1, drownings/3, **vehicular**/7-12, esp. So. CA<sup>96</sup> --11-16
472. 1973 -- Feb 07, US Navy Corsair II **jet crash** into apartment building/10, Alameda, CA--11
473. 1973 -- Apr 12, **planes collide**, NASA Convair/NAVY P-3C Orion, Sunnyvale, CA -- 16

<sup>93</sup> This is just for the CDC reporting cities of: Berkeley, Fresno, Glendale, Long Beach, Los Angeles, Oakland, Pasadena, Sacramento, San Diego, San Francisco, and San Jose.

<sup>94</sup> Largest loss-of-life of any State to influenza in 1969.

<sup>95</sup> Had higher than average death rate and more deaths than any other state

<sup>96</sup> The drownings were vehicular related – vehicle swept from road, and vehicle going off slick road into creek.

### California (continued):

474.	1973 -- Nov 03, driver heart attack, charter <b>bus</b> crash, I-880 ~Sacramento, CA	-- 13
475.	1973 -- Nov 15, <b>fire</b> , Stratford Apartments building, Los Angeles, CA	-- 25
476.	1974 -- <b>chickenpox</b> ; 106 US deaths; CA	-- 10
477.	1974 -- <b>polio</b> ; acute poliomyelitis/ICD-8 codes 040-044; 89 US deaths; CA	-- 10
478.	1974 -- Jan 15, speeding farm labor <b>bus</b> goes into irrigation ditch, drownings, Blythe, CA-19	
479.	1974 -- Mar 08, U.S. INS prison <b>van</b> hits parked tractor trailer, I-8, Jacumba Mts., CA--	13
480.	1974 -- Mar 13, <b>Sierra Pacific Air</b> fl. 802 charter <b>crash</b> into Mt. near Bishop, CA	--all 36
481.	1974 -- Apr 22, <b>Pan Am 812</b> , Hong Kong to LA, crash, Mesehe Mt., Indonesia <sup>97</sup>	--107, US 26
482.	1974 -- Sep 8, TWA Flight 841, Tel Aviv to NYC, terrorist bomb, Ionian Sea <sup>98</sup> --CA	13 of 88
483.	1975 -- exposure to <b>excessive natural heat</b> ; ICD-8 code E900; 190 US deaths; CA	-- 21
484.	1975 -- Jan 09, <b>Golden West Air #261 and Cessna planes collide</b> , Whittier, CA	-- 14
485.	1975 -- Dec 12, condemned Gartland Apartments arson <b>fire</b> , San Francisco, CA	-- 14
486.	1976 -- exposure to excessive natural <b>cold/hypothermia</b> ; 424 US deaths; CA	-- 10
487.	1976 -- exposure to <b>excessive natural heat</b> ; code E900; 100 US deaths; CA US high--	25
488.	1976 -- <b>polio</b> (acute poliomyelitis, ICD-8 codes 040-045); 90 US polio deaths; CA	-- 11
489.	1976 -- May 21, Yuba City High School <b>bus</b> goes off cliff, near Martinez, CA	-- 29
490.	1976 -- Dec 20, Witmer Street apartment house juvenile arson <b>fire</b> , Los Angeles, CA--	10
491.	1977 -- <b>chickenpox</b> , 89 US chickenpox deaths/death rate 0.04 per 100K, CA 0.06	-- 13
492.	1977 -- <b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; CA	-- 13
493.	1977 -- <b>heat</b> (esp. summer), ICD-8 E900 excessive natural/US death rate 0.14, CA .11--	24
494.	1977 -- Mar 27, <b>KLM &amp; Pan Am collide</b> , <b>fog</b> , Tenerife AP, Canary Isl., CA victims--~250	
495.	1978 -- <b>chickenpox</b> , 91 US chickenpox deaths/death rate 0.04 per 100K, CA, 0.06	-- 14
496.	1978 -- <b>polio</b> (acute poliomyelitis, ICD-8 codes 040-045), death rate .04 per 100K, CA/.11--	11
497.	1978 -- exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; CA	-- 18
498.	1978 -- Feb 10-11, storm, <b>flash floods</b> , esp. Hidden Springs/Big Tujunga Canyon/13--	≥20
499.	1978 -- Mar 04-05, <b>flooding</b> and <b>mudslides</b> , northern CA (1), southern CA (16-25)	--17-26
500.	1978 -- <b>heat</b> (esp. summer), ICD-8 E900 excessive natural heat, US & CA death rate 0.12--	27
501.	1978 -- Sep 25, <b>Pacific Southwest 182/Cessna collide</b> , fall onto homes, fire, San Diego, CA--	144
502.	1979 -- <b>chickenpox</b> , 103 US chickenpox deaths/death rate 0.05 per 100K, CA, 0.05	-- 11
503.	1979 -- exposure to excessive natural <b>cold/hypothermia</b> ; 356 US deaths; CA	-- 10
504.	1979 -- <b>influenza</b> , 604 US deaths/death rate 0.27 per 100K; CA, 0.30	-- 69
505.	1979 -- summer (esp.) <b>heat</b> (ICD-9, E900 excessive heat code), esp. L.A. County	-- 32
506.	1979 -- Oct 27/28, <b>plane crash</b> , Mexican General Prosecutor Office, San Ysidro, CA--	10
507.	1979 -- Oct 31, <b>Western Airlines flight 2605 crash</b> , Mexico City IAP--73 (34 US; CA--	29
508.	1980 -- Feb 13-21, rainstorms, <b>flooding</b> , mudslides, south-coastal, CA <sup>99</sup>	-- 30
509.	1980 -- summer, <b>excessive heat</b> , esp. counties of Riverside/12 and Imperial/9, CA	-- 43
510.	1981 -- exposure to excessive natural <b>cold/hypothermia</b> ; 289 US deaths; CA	-- 10
511.	1981 -- Mar-Apr, hospital nurse <b>kills</b> elderly patients, Perris & Banning, CA	-- 12
512.	1981 -- June-Aug (especially), <b>heat</b> (ICD-9 E900 code for excessive natural heat)	-- 44

<sup>97</sup> A passenger and 8 crew were US citizens from CA; a Danish stewardess and one from Sweden lived in CA.

<sup>98</sup> Though noted as Tel Aviv to NY, the plane was to have continued on to California. Of the 20 known US passengers (including NYC-based cockpit crew), 13 were from Fresno, Pasadena and Richmond.

<sup>99</sup> At least 18 of the 30 were drownings. There were auto, plane crash, rafting and mudslide deaths. There were at least 3 deaths in central AZ, 1 in UT, and 3 American tourist deaths in Tijuana, Mexico--swept away by floodwater.

### California (continued):

513.	1981 -- June 26, converted <b>bus</b> /motor home fire, I-15, Cajon Pass, ~Victorville CA	-- 10
514.	1982 -- exposure to excessive natural <b>cold/hypothermia</b> ; 402 US deaths; CA	-- 18
515.	1982 -- <b>chickenpox</b> ; 61 US deaths/death rate 0.03 per 100K, esp. CA, 0.04 death rate--	11
516.	1982 -- Jan 03-5, rainstorms, <b>land-mudslides</b> , esp. San Francisco Bay Area, CA <sup>100</sup>	--31-36
517.	1982 -- summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 196--	25
518.	1982 -- Sep 04, <b>arson fire</b> , Dorothy Mae Apartment Hotel, Los Angeles, CA	-- 25
519.	1982 -- Oct 08, truck <b>semitrailer</b> collides head-on with church van near Lemoore, CA--	10
520.	1982 -- Oct 17, private Beechcraft C-45 parachuting jump <b>plane crash</b> near Taft, CA--	14
521.	1983 -- exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; CA	-- 16
522.	1983 -- June-Aug, <b>heat</b> , deaths in 9 counties, 65 in Riverside County (US total 597)--	29
523.	1983 -- Aug 10, <b>car/tractor-trailer</b> head-on collision, Hwy 86 ~Coachella, CA	-- 11
524.	1984 -- exposure to excessive natural <b>cold/hypothermia</b> ; 359 US deaths; CA	-- 15
525.	1984 -- summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 228--	53
526.	1984 -- July 18, <b>mass shooting</b> , James Oliver Huberty, McDonald's, San Ysidro, CA--	21
527.	1984 -- Aug 24, <b>Wings West Air &amp; Rockwell Comd. collide</b> , San Luis Obispo, CA--	17
528.	1985 -- <b>chickenpox</b> ; 68 US deaths, death rate 0.03 per 100K; CA, 0.05	-- 13
529.	1985 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; CA	-- 11
530.	1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, CA, 1.13	-- 298
531.	1985 -- <b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; CA, 0.76	-- 200
532.	1985 -- Apr-July, <b>listeria food poisoning</b> ; unpasteurized milk contaminated cheese, esp. LA Co., CA <sup>101</sup> --	85
533.	1985 -- summer <b>heat</b> ; excessive heat/hyperthermia; subset (highest State), of 227 US	-- 29
534.	1985 -- Oct 06, 33- <b>vehicle</b> pileup, brush fire smoke, I-5 near Sacramento, CA	-- 10
535.	1986 -- <b>meningococcal Meningitis</b> , 88 US deaths/death rate 0.04 per 100K, CA .05--	13
536.	1986 -- Feb, heavy rain, <b>flooding</b> , <b>levee failures</b> , Northern half of CA	-- 14
537.	1986 -- May 30, tour <b>bus</b> crash, West Walker River, Walker, CA	-- 21
538.	1986 -- summer <b>excessive heat</b> (subset of >400 U.S. heat-related fatalities), CA	-- 22
539.	1986 -- Aug 31, <b>Aeronaves de Mexico 498 &amp; Piper collide</b> , Cerritos, CA (15 on ground)--	82
540.	1987 -- exposure to excessive natural <b>cold/hypothermia</b> ; 326 US deaths; CA	-- 21
541.	1987 -- <b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; CA, 9.51	--2,648
542.	1987 -- <b>influenza</b> ; 632 US deaths, death rate 0.26 per 100K; CA 0.27	-- 74
543.	1987 -- <b>meningococcal meningitis</b> ; US death rate 0.03 per 100K, CA, 0.05	-- 13
544.	1987 -- Feb 5, fishing vessel <b>Fish-n-Fool</b> (LA, CA) capsizes ~Isla De San Martin, MX <sup>102</sup> --	10
545.	1987 -- summer <b>excessive heat</b> , substate of approximately 387 US heat deaths; CA	-- 20
546.	1987 -- Dec 07, <b>plane hijacked/crashed</b> , Pacific SW #1771, Cayucos, CA	-- 43
547.	1988 -- exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; CA	-- 17
548.	1988 -- <b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8; CA, 11.14	--3,180
549.	1988 -- <b>meningococcal meningitis</b> ; 87 US deaths/death rate 0.04 per 100K; CA, 0.05--	13
550.	1988 -- <b>tuberculosis</b> ; 1,921 US TB deaths, death rate 0,78 per 100K; CA, 0.81	-- 232
551.	1988 -- <b>summer, heat</b> , esp. Riverside (12) and San Bernardino (4) Counties, CA	-- 37

<sup>100</sup> Nineteen to twenty-five deaths attributed to slides. Non-slide deaths attributed to drownings, pedestrian killed by vehicle in rainstorm, trees falling into houses, a clean-up accident wherein a bulldozer rolled over killing operator.

<sup>101</sup> Contaminated from cheese producer, Jalisco, in L.A. County, which, with at least 43 deaths, out of 85 in CA, had most deaths. At least ten deaths in other states from same source. About half were stillborns or miscarriages.

<sup>102</sup> Listed here in that this was a California boat with California crew, as well as passengers.



**California (continued):**

552.	1989 --	<b>chickenpox</b> , 89 US deaths, death rate 0.04 per 100K; CA, 0.06	-- 18
553.	1989 --	exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; CA	-- 23
554.	1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate per 100K 8.9, CA, 14.91	--4,369
555.	1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; CA, 0.99	-- 291
556.	1989 --	<b>measles</b> , Los Angeles County (17) and San Bernardino County (5)	-- 22
557.	1989 --	<b>meningococcal meningitis</b> , ICD-9 code 036.0, 88 US deaths, CA subset	-- 20
558.	1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; CA, 0.81	-- 236
559.	1989 --	Feb 04-9, <b>winter weather</b> /snow/ice/freezing rain/extreme cold (US 76-91), CA--11	
560.	1989 --	Feb 19, <b>Las Vegas Flyers Cessna 402 crash</b> , Santa Ana Mts. ~Corona, CA <sup>103</sup> --	10
561.	1989 --	June-Aug (esp.), <b>heat</b> , ICD-9 E900 code for excessive heat and hyperthermia--	32
562.	1989 --	Oct 17, <b>Loma Prieta Earthquake</b> , San Francisco Bay Area, CA	--66-68
563.	1990 --	<b>chickenpox</b> , 120 US deaths, death rate 0.05 per 100K; CA, 0.09	-- 26
564.	1990 --	exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; CA	-- 42
565.	1990 --	<b>measles</b> , particularly southern CA	-- 56
566.	1990 --	summer (esp.), <b>heat</b> , ICD-9 E900 code for excessive heat and hyperthermia --	44
567.	1991 --	<b>chickenpox</b> , 81 US deaths, rate 0.03 per 100K, especially CA, 0.06	-- 17
568.	1991 --	exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; CA	-- 23
569.	1991 --	<b>meningococcal meningitis</b> , 59 US deaths, rate 0.02 per 100K, CA 0.03	-- 10
570.	1991 --	Feb 01, <b>landing plane</b> (USAir 1493) <b>hits SkyWest 5569</b> on runway, LAX, CA--	34
571.	1991 --	Mar 16, Reba McEntire band charter <b>plane crash</b> , Otay Mt. ~San Diego, CA--	10
572.	1991 --	Mar 21, <b>planes collide</b> , US Navy P-3C's, SW off San Diego Coast, CA	-- 27
573.	1991 --	summer (esp.), <b>heat</b> , ICD-9 E900 code for excessive natural heat/hypothermia--	21
574.	1991 --	Oct 20, <b>wildfire/firestorm</b> , East Bay Hills, Oakland/Berkeley Hills, CA	-- 25
575.	1991 --	Nov 29, <b>dust storm</b> , massive <b>I-5 pileup</b> , Coalinga, CA	-- 17
576.	1992 --	exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; CA	-- 21
577.	1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate of 0.66 per 100K; CA, 0.65	-- 203
578.	1992 --	Apr 22, <b>plane crash</b> , Perris Valley Aviation (Skydiving), Perris, CA	-- 16
579.	1992 --	Apr 29-May 4, <b>riots</b> following Rodney King Verdict, Los Angeles, CA	--53-54
580.	1992 --	summer <b>heat</b> , esp. July-Aug; CA subset (highest in US), 155 US heat deaths)--	37
581.	1993 --	<b>chickenpox</b> , 100 US chickenpox deaths, death rate 0.04 per 100K, CA, 0.05--	15
582.	1993 --	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; CA	-- 17
583.	1993 --	<b>meningococcal meningitis</b> ; US deaths 260, death rate 0.10 per 100K; CA 0.14--	45
584.	1993 --	<b>tuberculosis</b> (1,631 US TB deaths, death rate of 0.63 per 100K); CA, 0.65	-- 203
585.	1993 --	Jan 05-Feb 28, <b>winter storms</b> /heavy rain/ <b>flooding</b> /landslides, Southern, CA <sup>104</sup> --	39
586.	1993 --	May 03, <b>arson fire</b> , apt./tenement bldg., Burlington Ave., Los Angeles, CA	-- 10
587.	1994 --	exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; CA	-- 24
588.	1994 --	<b>chickenpox</b> (subset of 124 US chickenpox deaths)	-- 17
589.	1994 --	<b>meningococcal meningitis</b> , ICD-9 code 36.0; death rate 0.10 per 100K; CA .14--	44
590.	1994 --	<b>tuberculosis</b> ; subset, 1,478 US TB deaths; US death rate .56 per 100K; CA, .63--	198
591.	1994 --	Jan 17, <b>Northridge Earthquake</b> , Los Angeles vicinity, CA	--71-72
592.	1994 --	Mar 09, <b>pickup truck</b> with 20 illegals wrecks, I-15 near Barstow, CA	-- 12

<sup>103</sup> Cross-listed in Nevada in that the passengers and the pilot lived in Las Vegas, Nevada.

<sup>104</sup> Of 39 deaths we note, at least 31 were from drowning -- 15 immigrants drowning in Tijuana River. Two from vehicular on rain-slickened roads. Six described as weather-related. One or more could have been from drowning.



**California (continued):**

593.	1994 -- summer esp., <b>excessive heat</b> ; 221 US deaths) CA subset (highest in US) -- 33
594.	1995 -- exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; CA -- 12
595.	1995 -- <b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K; CA, 0.61 -- 194
596.	1995 -- summer, <b>excessive heat</b> ; CA subset of 1,563-1,601 U.S. heat-related deaths -- 38
597.	1996 -- exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; CA -- 15
598.	1996 -- <b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; CA, 0.309-- 99
599.	1996 -- <b>tuberculosis</b> , CA subset, 1,202 US TB deaths, death rate 0.45 per 100K, CA, 0.58-- 185
600.	1996 -- summer esp., <b>excessive heat</b> (CA subset of 249 U.S. heat deaths) -- 249
601.	1997 -- <b>chickenpox</b> , ICD-9 code 052 (CA subset of 99 chickenpox deaths) -- 12
602.	1997 -- exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; CA -- 23
603.	1997 -- <b>influenza</b> , code 487.0; US death rate 0.26 per 100K (720 US deaths); CA, 0.341 -- 111
604.	1997 -- <b>meningococcal meningitis</b> , ICD-9 code 036.0; death rate 0.03; CA, 0.4 -- 12
605.	1997 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, CA, 0.58 -- 190
606.	1997 -- Jan 07-18, <b>winter snow and cold</b> , San Diego County Mountains, CA -- 14
607.	1997 -- Mar 23~, <b>mass suicide</b> , Heaven's Gate Cult, Rancho Santa Fe, CA -- 39
608.	1997 -- summer especially, <b>excessive heat</b> (CA subset of 182 U.S. heat deaths) -- 19
609.	1997 -- Sep 09, <b>van/pickup</b> collide/burn, hwy. 1, ~San Julian Ranch & Lompoc, CA-- 11
610.	1997 -- Nov 16, <b>highway</b> collision/fog, van and semi, Mendota, CA -- 11
611.	1998 -- <b>chickenpox</b> , ICD-9 code 052 (CA subset of 81 US chickenpox deaths) -- 10
612.	1998 -- exposure to excessive natural <b>cold/hypothermia</b> ; 420 US deaths; CA -- 25
613.	1998 -- <b>infectious colitis</b> /enteritis/gastroenteritis, ICD-9 code 009.0, CA death rate 0.13 per 100K--44
614.	1998 -- <b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; CA 0.65 -- 213
615.	1998 -- <b>meningococcal meningitis</b> , ICD-9 code 036.0; death rate 0.03; CA, 0.04 -- 13
616.	1998 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; CA, 0.51 -- 168
617.	1998 -- summer especially, <b>excessive heat</b> ; subset of 435 US heat-related deaths, CA-- 32
618.	1999 -- exposure to excessive natural <b>cold/hypothermia</b> ; 598 US deaths; CA -- 29
619.	1999 -- <b>meningococcal meningitis</b> , ICD-10 code A39.0; death rate 0.024; esp. CA -- 10
620.	1999 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; CA, 0.469 -- 157
621.	1999 -- summer-fall especially, <b>heat</b> (CA subset of 1,050 U.S. heat-related deaths) -- 33
622.	1999 -- Aug 09, farm worker <b>van</b> collides with truck, Five Points, CA -- 13
623.	1999 -- Oct 31, <b>EgyptAir 990</b> (217 deaths), off Nantucket Isl. MA (32 CA passengers)-- 32
624.	2000 -- exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; CA -- 17
625.	2000 -- exposure to <b>excessive natural heat</b> , 494 US deaths, subset for CA -- 49
626.	2000 -- <b>meningococcal meningitis</b> , death rate 0.025; CA, 0.044 (only state >9 deaths) -- 71
627.	2000 -- <b>streptococcal toxic shock syndrome</b> , ICD-10 code A48.3; 74 US deaths -- 11
628.	2000 -- <b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; CA, 0.307 -- 104
629.	2000 -- Jan 31, <b>Alaska Airlines Flight 261 crash</b> , Off Point Mugu, Ventura Co., CA-- 88
630.	2001 -- <b>streptococcal toxic shock syndrome</b> , ICD-10 code A48.3; 75 US deaths -- 10
631.	2001 -- exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; CA -- 29
632.	2001 -- exposure to <b>excessive natural heat</b> ; 538 US deaths; subset for CA -- 29
633.	2001 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.268 per 100K; CA 0.374 -- 129
634.	2002 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate .032 per 100K, CA .034-- 93
635.	2002 -- exposure to excessive natural <b>cold/hypothermia</b> ; 646 US deaths; CA -- 29
636.	2002 -- <b>streptococcal toxic shock syndrome</b> , ICD-10 code A48.3; 78 US deaths -- 10

### California (continued):

637.	2002	--	<b>excessive natural heat</b> ; 626 US deaths; esp. Los Angeles County/11, CA	--	44
638.	2002	--	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.273 per 100K, CA, 0.384	--	134
639.	2003	--	exposure to excessive natural <b>cold/hypothermia</b> ; 620 US deaths; CA	--	36
640.	2003	--	exposure to <b>excessive natural heat</b> ; 426 US deaths; subset for CA	--	39
641.	2003	--	<b>meningococcal meningitis</b> , ICD-10 code A39.0, CA only state over 9 deaths	--	10
642.	2003	--	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; CA, 0.35	--	122
643.	2003	--	July 16, <b>car</b> collides with car and pedestrians, Santa Monica, CA	--	10
644.	2003	--	Oct 25-Nov 4, <b>arson wildfires</b> (esp. Cedar, Old Fire, Paradise), southern CA	--22-24	
645.	2003	--	Dec 25, heavy rain, <b>landslides/mudslides</b> , St. Sophia Camp, So. CA	--	16
646.	2004	--	exposure to excessive natural <b>cold/hypothermia</b> ; 676 US deaths; CA	--	40
647.	2004	--	<b>streptococcal toxic shock syndrome</b> , ICD-10 code A48.3 (71 deaths US) CA	--	10
648.	2004	--	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; CA, 0.32	--	117
649.	2004	--	exposure to <b>excessive natural heat</b> , especially summer-fall, CA	--	39
650.	2005	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.04 per 100K, CA 0.05	--17	
651.	2005	--	exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; CA	--	530
652.	2005	--	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; CA, 0.34	--	121
653.	2005	--	Jan 10, <b>mudslide</b> , La Conchita, CA	--	10
654.	2005	--	Jan 26, <b>train</b> hits parked <b>SUV</b> ; derails; hits parked train, Glendale, CA <sup>105</sup>	--	11
655.	2005	--	exposure to <b>excessive natural heat</b> ; 939 US deaths, subset for CA	--	64
656.	2006	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.05; CA 0.06	--	20
657.	2006	--	exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; CA	--	24
658.	2006	--	exposure to <b>excessive natural heat</b> ; 1,104 US deaths, esp. San Joaquin Val.	--	194
659.	2006	--	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; CA, 0.37	--	132
660.	2007	--	exposure to excessive natural <b>cold/hypothermia</b> ; 711 US deaths; CA	--	37
661.	2007	--	exposure to <b>excessive natural heat</b> ; 582 US deaths, subset for CA	--	74
662.	2007	--	<b>tuberculosis</b> , death rate 0.184 per 100K; CA. 0.287	--	104
663.	2007	--	Oct 20-Nov 9, <b>wildfires</b> , Southern CA	--	10
664.	2008	--	<b>diarrhoea &amp; gastroenteritis</b> of infectious origin, US 134 deaths	--	17
665.	2008	--	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; CA	--	42
666.	2008	--	exposure to <b>excessive natural heat</b> ; 502 US deaths, subset for CA	--	51
667.	2008	--	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; CA, 0.32	--	117
668.	2008	--	June 20-Nov, <b>wildfires</b> (1 <sup>st</sup> death July 3/last Sep 11), esp. Iron/Alps Complex CA	--14	
669.	2008	--	Sep 12, pass. Metrolink 111 & Union Pacific <b>trains collide</b> , Chatsworth, CA	--	25
670.	2008	--	Dec 24, Pardo <b>mass shooting</b> of wife, in-laws, self & arson deaths, Covina, CA	--10	
671.	2009	--	exposure to excessive natural <b>cold/hypothermia</b> ; 616 US deaths; CA	--	31
672.	2009	--	exposure to <b>excessive natural heat</b> ; 555 US deaths, subset for CA	--	63
673.	2009	--	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K), CA, 0.9	--	348
674.	2009	--	<b>H1N1 "swine flu,"</b> especially spring through winter,	--479-657	
675.	2009	--	<b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.2 per 100K; CA, 0.3	--	95
676.	2010	--	exposure to excessive natural <b>cold/hypothermia</b> ; 710 US deaths; CA	--	29
677.	2010	--	exposure to <b>excessive natural heat</b> ; 874 US deaths, subset for CA	--	47
678.	2010	--	<b>meningococcal meningitis</b> , ICD-10 Code A39.0 (CA only state $\geq$ 10 deaths)	--	12
679.	2010	--	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; CA, 0.3	--	110

<sup>105</sup> SUV driver (aborted suicide?) got out prior to impact. Was sentenced to eleven life sentences for murder.

**California (continued):**

680.	2010	--	<b>viral hepatitis</b> , ICD-10 code B-15-19; US death rate 2.4 per 100K; CA, 3.3	--1,319
681.	2011	--	exposure to excessive natural <b>cold/hypothermia</b> ; 0.2 death rate; CA rate 0.11	-- 40
682.	2011	--	exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for CA	-- 31
683.	2011	--	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100K; CA 0.3	-- 108
684.	2011	--	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; CA 3.5	--1,311
685.	2012	--	exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; CA, US high	-- 32
686.	2012	--	exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for CA	-- 66
687.	2012	--	<b>tuberculosis</b> , ICD-10 code A16-A19; US death rate 0.2 per 100K, CA 0.3	-- 101
688.	2012	--	<b>viral hepatitis</b> , ICD-10 code B-15-19 US death rate 2.6 per 100K; CA 3.6	--1,387
689.	2013	--	exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; CA	-- 33
690.	2013	--	exposure to <b>excessive natural heat</b> ; 651 US heat-related fatalities; CA	-- 67
691.	2013	--	<b>tuberculosis</b> , ICD-10 Code A16-19, US death rate 0.2 per 100K, CA, 0.3	-- 133
692.	2013	--	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; CA 3.7	--1,413
693.	2014	--	exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths subset, CA	-- 25
694.	2014	--	exposure to <b>excessive natural heat</b> , esp., summer, CA	-- 53
695.	2014	--	<b>tuberculosis</b> ; highest loss of any State; only State above 0.2 per 100K death rate	-- 101
696.	2014	--	<b>viral hepatitis</b> , ICD-code B15-B19, US death rate 2.5 per 100,000; CA, 3.5	--1,358
697.	2014	--	Apr 11, FedEx <b>truck</b> hits high school charter bus, I-5 near Orland, CA	-- 10
698.	2015	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; CA, 3.1	--1,222
699.	2015	--	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.1 per 100K, CA 0.2	-- 85
700.	2015	--	exposure to excessive natural <b>cold/hypothermia</b> ; 815 US deaths; CA	-- 32
701.	2015	--	exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for CA	-- 51
702.	2015	--	Dec 02, <b>terrorism</b> , Muslim couple attack, Inland Regional Ctr., San Bernardino, CA	-- 14
703.	2016	--	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; CA <sup>106</sup>	-- 32
704.	2016	--	exposure to <b>excessive natural heat</b> , 786 US deaths, subset for CA	-- 70
705.	2016	--	<b>tuberculosis</b> , ICD-10 codes A16-19; US death rate 0.2 per 100K, CA 0.3	-- 111
706.	2016	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; CA 2.7	--1,078
707.	2016	--	Oct 23, tour <b>bus</b> runs into semi, I-10, Indian Canyon ~Palm Springs, CA	-- 13
708.	2016	--	Dec 02, <b>fire</b> , rave party in warehouse, Fruitvale district, Oakland, CA	-- 36
709.	2017	--	exposure to excessive natural <b>cold/hypothermia</b> ; 804 US deaths; CA <sup>107</sup>	-- 48
710.	2017	--	exposure to <b>excessive natural heat</b> ; 817 US deaths, subset for CA	-- 93
711.	2017	--	<b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; CA 0.27	-- 108
712.	2017	--	Oct 01 Las Vegas country music show <b>mass shooting</b> from hotel, NV <sup>108</sup>	-- 33
713.	2017	--	Oct 08-14, <b>wildfires</b> , northern CA, esp. Sonoma/Napa/Mendocino/Yuma counties	-- 42
714.	2018	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths CA subset	-- 43
715.	2018	--	exposure to <b>excessive natural heat</b> ; 1,012 US deaths; 3 <sup>rd</sup> behind AZ and NV	-- 106
716.	2018	--	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; NY death rate 1.47 <sup>109</sup>	-- 580
717.	2018	--	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., CA 3.15 <sup>110</sup>	--1,245
718.	2018	--	<b>tuberculosis</b> , ICD-10 codes A16-19; 542 US deaths/death rate 0.17; CA 0.25	-- 100

<sup>106</sup> Though below US avg. death rate of 0.23 per 100K (CA was 0.08), CA had 3<sup>rd</sup> highest hypothermia death toll.

<sup>107</sup> Below US average of 0.247 deaths per 100K pop. But, CA had highest number of hypothermia deaths in 2017.

<sup>108</sup> Cross-listed here in that 33 of 58 fatalities were visiting from California homes. Next was Nevada with 7 dead.

<sup>109</sup> Though death rate was lower than US average, the loss of 580 lives was second highest in the US; FL had 693.

<sup>110</sup> Though CA was somewhat below US average death rate, given its high pop., represented largest loss of life.

719.	2018 -- Jan 09, heavy rain; <b>mudslides/debris flows</b> (after forest fires), Montecito CA--	23
720.	2018 -- July 13-Sep 19, <b>wildfires</b> , Carr/8, Ferguson/2, Mendocino Complex/1, CA --	11
721.	2018 -- Nov 7, <b>mass shooting</b> (12) suicide/1, Borderline Bar & Grill, Thousand Oaks, CA--	13
722.	2018 -- Nov 08-11, esp. 8 <sup>th</sup> -9 <sup>th</sup> , <b>wildfires</b> , esp. Camp Fire (85), Butte Co., Paradise, CA--	88
723.	2019 -- exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths; CA --	41
724.	2019 -- exposure to <b>excessive natural heat</b> , 915 US deaths/death rate 0.27, CA 0.15--	58
725.	2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; subset CA <sup>111</sup> --	589
726.	2019 -- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, CA, 1.42 <sup>112</sup> --	560
727.	2019 -- <b>tuberculosis</b> ; 526 US TB deaths/death rate 0.16 per 100K pop.; CA 0.28 <sup>113</sup> --	112
728.	2019 -- Sep 02, diving boat <b>Conception</b> fire, near north side of Santa Cruz Island, CA--	34
729.	2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); CA 657 per 1M pop. --	25,967
730.	2020 -- exposure to <b>excessive natural heat</b> ; 1,174 US deaths/ death rate 0.3, CA 0.3--	137
731.	2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; CA 1.57 --	617
732.	2020 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/ death rate 0.18; CA 0.3--	119
733.	2020 -- Aug 11-Sep 28 (deaths), <b>wildfires</b> , esp. northern CA, esp. Butte Co. (16) --	33-34
734.	2021 -- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; CA (4 <sup>th</sup> US high)--	140
735.	2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; CA, 1.9 --	50,772
736.	2021 -- <b>tuberculosis</b> ; 602 US TB deaths/ death rate 0.18 per 100K; CA 0.27 --	106
737.	2021 -- Mar 02, illegal's <b>SUV</b> and semi-truck collide, State hwy. 115 near Holtville, CA-13	
738.	2021 -- May 16, <b>mass shooting</b> /9 and suicide, San Jose Light Rail Yard, San Jose, CA--	10
739.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; CA death rate 5.56 --	21,976
740.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; CA (3 <sup>rd</sup> highest state)--	169
741.	2022 -- Dec 27-Jan 14, heavy rains/flooding/rockfalls/tree falls/vehicular accidents, CA--	23
742.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for CA --	75
743.	2023 -- Jan 01-14, winter weather, storms, heavy rain, levees breach, trees down, CA--	19
744.	2023 -- Jan 21, Lunar New Year <b>mass shooting</b> , Dance Studio, Monterey Park, CA --	11
745.	2023 -- <b>COVID-19</b> , subset of 71,691 US deaths --	7,468

#### Some Other Select/Notable **California** Large Loss of Life Events:<sup>114</sup>

1801-02--	<b>smallpox</b> pandemic, Native Americans, Pacific Northwest, including No. CA <sup>115</sup> --	?
1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571 --	54
1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths --	73
1860 --	<b>measles</b> (subset of 3,900 measles deaths nationwide), CA --	16
1863 --	<b>malaria</b> (probably), Maidu Natives, Pence's Ranch, Butte County, CA <sup>116</sup> --	30
1870 --	<b>tuberculosis</b> (Consumption) (CA subset of ~70,000 TB deaths nationwide) --	764
1876 --	July 24, Black Diamond coal <b>mine</b> fire, Nortonville, CA --	6
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths) --	80

<sup>111</sup> Though below US average death toll of 1.54, at 1.49, CA had 2<sup>nd</sup> highest death toll, behind FL with 694 deaths.

<sup>112</sup> CA had larger loss of life to influenza than any other State in 2019.

<sup>113</sup> Led the US in tuberculosis fatalities. Texas was next with 54.

<sup>114</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>115</sup> We do not have a number. What we have are sources which state the Osage were especially hit hard. Part of the Osage territory was in northwest Arkansas. Overall, we estimate more than 9,090 Native Americans died.

<sup>116</sup> Deaths in a three-week period (Aug 30, 1863 Marysville, CA *Appeal* report). Cook (1976, p. 275) estimates that "at least 100 must have perished" in an extended time-frame. "undoubtedly" from malaria.



**California (continued):**

1879 -- June-May 1880, <b>malarial fever</b> , (State subset, 20,231 such deaths nationwide)	-- 129
1879 -- June-May 1880, <b>meningitis</b> (State subset of 7,481 meningitis deaths nationwide)	-- 37
1879 -- June-May 1880, <b>scarlet fever</b> , especially children (CA subset, 16,388 SF deaths)	-- 50
1879 -- June-May 1880, <b>typhoid fever</b> (State subset of 23,339 U.S. Typhoid deaths)	-- 163
1879 -- June-May 1880, <b>whooping cough</b> (State subset, 11,064 U.S. W.C. deaths)	-- 101
1881 -- <b>diphtheria</b> , especially San Francisco (38), Sacramento (10)	-- 53
1882 -- Jan-June, Dec. <b>smallpox</b> , especially San Francisco, CA (21)	-- 24
1889-90, June-May, <b>croup</b> , (subset of 13,862 U.S. croup deaths)	-- 199
1889-90, June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; CA	-- 339
1889-90, June-May, <b>measles</b> , subset of 9,256 US measles deaths	-- 76
1894 -- <b>diphtheria</b> , San Francisco, Oakland, Los Angeles, Sacramento, especially	-- 115
1897 -- <b>typhoid fever</b> , subset of >9,192 US typhoid deaths, esp. San Fran/47, LA/25	-- 99
1891 -- Jan 05, steel cable breaks, hoist car falls, Utica Gold <b>Mine</b> , Angels Camp, CA	-- 9
1900 -- <b>croup</b> (upper airway contagious viral infection)	-- 95
1900 -- <b>diphtheria</b> (CA subset of 16,475 US diphtheria deaths in 1900)	-- 15
1900 -- <b>dysentery</b> (CA subset of 11,710 US dysentery deaths in 1900)	-- 135
1900 -- <b>influenza</b> (CA subset, 16,645 US influenza deaths)	-- 217
1900 -- <b>malarial fever</b> (CA subset of 14,874 US malarial fever deaths)	-- 119
1900 -- <b>measles</b> (CA subset of 12,866 US measles deaths)	-- 56
1900 -- <b>meningitis</b> (CA subset, 19,423 US meningitis deaths)	-- 396
1900 -- <b>scarlet fever</b> (CA subset, 6,333 US scarlet fever deaths)	-- 74
1900 -- <b>smallpox</b> (CA subset, 8,484 US smallpox deaths)	-- 14
1900 -- <b>whooping cough</b> (CA subset, 9,958 US whooping cough deaths)	-- 151
1906 -- <b>epidemic cerebrospinal meningitis</b> , CA	-- 100
1909 -- Jan 19, Stone Canyon coal <b>mine</b> explosion, Chancellor, CA	-- 6
1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; CA, 19.2	-- 460
1911 -- <b>polio</b> , acute; subset of 1,060 "registration area" deaths (63.1% pop.), CA	-- 31
1913 -- <b>heat</b> ; 1,226 "registration area" (65% of US) deaths; subset for CA	-- 37
1913 -- <b>measles</b> , 8,108 US "registration area" (65.1% pop.) deaths; CA	-- 155
1913 -- <b>polio</b> , acute, esp. June-Sep (Sep peak), 864 "registration area" (65% pop.) deaths, CA--29	-- 29
1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; CA rate 6.1	-- 168
1915 -- <b>polio</b> ; 691 registration area deaths (67.1% population); subset for CA	-- 33
1917 -- <b>anthrax</b> , Gridley, Sacramento, Salinas, San Francisco (2), Sonoma	-- 6
1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; CA, 9.4	-- 285
1919 -- <b>diphtheria</b> (CA subset, 9,160 US diphtheria deaths)	-- 266
1925 -- <b>anthrax</b> (CA subset of 22 US anthrax deaths)	-- 2
1925 -- <b>malaria</b> (CA subset of 2,132 US malaria deaths)	-- 26
1925 -- <b>measles</b> (CA subset of 2,404 measles deaths in 40 "registration" states)	-- 35
1925 -- <b>scurvy</b> (vitamin C deficiency), CA subset, 58 scurvy deaths in 24 States	-- 2
1925 -- <b>typhoid/paratyphoid fever</b> (CA subset of 8,287 US Typhoid Fever deaths)	-- 121
1930 -- July 14, <b>mine</b> fire, Glenn gold mine, Placer County, CA	-- 5
1930 -- Aug 31, <b>tsunami</b> , Southern California, Redondo Beach, CA	-- 1
1931 -- <b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; CA, 2.5	-- 146
1934 -- Nov 12, Rohl Connolly granite <b>quarry</b> explosives detonation, Avalon, CA	-- 9



**California (continued):**

1937 -- Feb 19, detonation of explosives, Walker copper <b>quarry</b> , Walkermine, CA	--	6
1939 -- <b>whooping cough</b> ; 3,026 US whooping cough deaths; subset for CA	--	46
1940 -- May 19, <b>earthquake</b> , Imperial Valley, CA	--	9
1941 -- <b>measles</b> , especially children (CA subset of 2,279 Measles deaths nationwide)	--	10
1942 -- Feb 04, <b>plane crash</b> , USAAF Martin B-26A, Trinity Alps, NW of Trinity Center, CA--	6	
1942 -- Mar 18, <b>flight of five USAAF Vultee BT-13As crash</b> , near Tehachapi, CA	--	5
1942 -- May 15, <b>plane crash</b> , USAAF Lockheed A-29, Pacific, Table Bluff, off Eureka CA--	7	
1942 -- June 01, <b>US Navy Consolidated PBY-5 plane crash</b> , Scarper Peak, Half Moon Bay--	7-8	
1943 -- Dec 19, <b>USAAF B-24 plane crash</b> , ridge above Richardson Bay, ~Sausalito, CA	--	9
1945 -- Feb 02, <b>US Navy Curtiss R5C-1 Commando crash</b> south of Los Angeles, CA	--	8
1945 -- Mar 14, <b>USN Douglas R4D-5 turbulence plane crash</b> 2M west of San Carlos, CA--	7	
1945 -- May 03, <b>USN blimp engine fire</b> leads to cover fire and crash, Santa Ana, CA	--	8
1945 -- Sep 25, <b>US Navy PV-1</b> Ventura's collide, team training ex. off Santa Catalina Isl. CA--	6	
1945 -- Nov 28, <b>USAAF C-47</b> crash into hill trying to locate McClellan Field at night, ~Auburn--	9	
1945 -- Dec 21, <b>private Cessna UC-78 crash</b> near Lake Hodges, CA	--	all 6
1946 -- Aug 03, <b>USAAF B-25 crash</b> 7 miles east of Long Beach, CA	--	all 6
1946 -- Aug 07, <b>USCG Consolidated PBY-5A Catalina</b> crash, Pacific ½M N, Point Arena, CA--	6	
1947 -- Jan 14, <b>USN PV-2 Harpoon</b> plane engine fire, stall <b>and crash</b> ~MCAS Miramar CA--	5	
1947 -- Jan 17, Southern Pacific <b>train derailment</b> , Lerdo, CA	--	8
1947 -- Oct 29, <b>USAF A-26C Invader crashed</b> into Monte Balmy 10M N of Fontana, CA--	5	
1947 -- Nov 21, Miramar NAS <b>US Navy P2V-2 Neptune crash</b> in sea 112M off San Diego--	9	
1948 -- Jun 5, <b>USAF YB-49</b> experimental "Flying Wing" test flight crash, Mohave Desert ~Muroc, CA--	5	
1948 -- Dec 06, private <b>Stinson Reliant flies into mountainside in fog</b> 18M E of Salinas CA--	5	
1949 -- Jan 04, <b>USAF C-47 engine fire and crash</b> near Weimar, CA	--	8
1949 -- Feb 3, <b>USN Beechcraft crash</b> , Sierra Nevada mts., Indian Wells Canyon, ~Owens Peak, CA--	7	
1949 -- Feb 10, <b>US Navy plane crash</b> in Sierras near Owens Peak, CA	--	7
1949 -- June 13, <b>US Navy plane crash</b> into mountain near Clover Field, CA	--	7
1949 -- Oct 16, <b>USAF Dougals TB026C Invader</b> plane crash 8M SW of Chino, CA	--	5
1951 -- <b>whooping cough</b> ; 960 US deaths; subset for CA	--	15
1951 -- Jan 10, <b>USAF B-50D Superfortress</b> hits Shadow Mt. peak, Edwards AFB approach, CA--	8	
1952 -- <b>dysentery</b> , infections (all forms); 949 US deaths; subset for CA	--	32
1952 -- <b>influenza</b> , 5,649 US deaths, subset for CA	--	122
1952 -- <b>measles</b> , 621 US deaths; 24 states double digits; subset for CA	--	15
1952 -- <b>whooping cough</b> (pertussis); 406 US deaths; subset for CA	--	15
1952 -- May 13, <b>USMC Corsair collides with USAF B-29</b> , 30M W of Oceanside, CA	--12 or 8	
--7 <b>USAF B-29 Superfortress</b> crew (five survived).		
--1 <b>US Marine Corps Corsair</b> pilot.		
1953 -- <b>influenza</b> ; 9,500 US deaths; subset for CA	--	189
1953 -- Apr 20, <b>Western Air Lines 636</b> , San Francisco to Oakland, flies into SF Bay, CA--	8	
1954 -- <b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; CA subset	--	56
1955 -- Sep 2, <b>wildfire</b> , 5 youths, fire Cpt., fighting arson brush fire, Puente Hills, CA	--	6
1957 -- <b>influenza</b> ; 7,463 US deaths; CA subset	--	179
1957 -- Jan 31, <b>DC-7 &amp; USAF Scorpion fighter collide</b> , debris hits school, Sunland, CA--	8	
1958 -- <b>influenza</b> ; 4,442 US deaths; CA subset	--	109

**California (continued):**

1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; CA death rate 2.8	-- 437
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; CA death rate 5.0	-- 788
1961 --	<b>influenza</b> ; 2,137 US deaths/death rate 1.2 per 100K; CA death rate 0.8	-- 137
1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; CA death rate 0.2	-- 26
1961 --	<b>tuberculosis</b> ; 9,938 US deaths/death rate 5.4 per 100K; CA death rate 3.8	-- 620
1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; CA death rate 0.8	-- 140
1962 --	<b>measles</b> ; 408 US deaths/death rate 0.2 per 100,000 population, CA 0.1	-- 16
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; CA 3.8	-- 646
1963 --	<b>dysentery</b> ; 294 US deaths/death rate 0.2 per 100K pop.; CA death rate 0.2	-- 27
1963 --	<b>influenza</b> ; 7,083 US deaths/death rate 3.8; CA death rate 0.7	-- 115
1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; CA death rate 0.1	-- 22
1963 --	<b>tuberculosis</b> ; 9,311 US deaths/death rate 4.9 per 100K pop.; CA death rate 3.4	-- 599
1963 --	Dec 14, <b>dam (reservoir), failure</b> , Baldwin Hills, Los Angeles, CA	-- 5
1964 --	<b>influenza</b> ; 1,687 US deaths/date rate 0.9 per 100K; CA death rate 0.8	-- 153
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; CA death rate 3.2	-- 584
1964 --	Mar 28, <b>tsunami</b> , Klamath River, CA	-- 1
1964 --	Dec 25, <b>USCG helicopter crash</b> , 20 miles north of Arcata, CA	-- 6
1965 --	<b>influenza</b> ; 2,295 US deaths/death rate 1.2 per 100K; CA death rate 0.3	-- 62
1965 --	<b>measles</b> ; 276 US deaths/death rate 0.1 per 100,000, CA subset 0.1 death rate	-- 11
1965 --	<b>tuberculosis</b> ; 7,934 US deaths, death rate 4.1 per 100K; CA 3.2 death rate	-- 596
1968 --	<b>chickenpox</b> ; ICD-8 code 052; 99 US polio deaths; CA	-- 8
1968 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; CA 2.1	-- 408
1968 --	<b>rubella</b> (German measles), ICD-8 code 056, 24 US rubella deaths, esp. CA	-- 5
1968 --	<b>tuberculosis</b> ; 6,292 US deaths/death rate 3.15 per 100K; CA rate lower	-- 409
1969 --	<b>chickenpox</b> ; ICD-8 code 052; 81 US deaths; CA	-- 5
1969 --	<b>rubella (German measles)</b> ; ICD-8 code 056; 29 US deaths; CA (led the US)	-- 5
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; CA 2.00	-- 395
1969 --	May 25, CA racing schooner yacht <b>Goodwill</b> wrecks on reef off Baja CA, MX	-- 9
1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; CA 0.72	-- 145
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; CA 1.83	-- 366
1971 --	<b>tuberculosis</b> ; 4,501 US deaths/death rate 2.18 per 100K; CA death rate 1.44	-- 293
1972 --	<b>influenza</b> ; ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; CA 1.55 <sup>117</sup>	-- 318
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; CA death rate 1.23	-- 254
1973 --	<b>polio</b> ; ICD-8 codes 040-044; 93 US polio deaths; CA	-- 8
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; CA 1.28 per 100K	-- 267
1974 --	<b>influenza</b> ; ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; CA/1.27	-- 131
1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; CA, 1.19	-- 252
1974 --	Aug 06, Los Angeles Int. Airport <b>bomb</b> , near Pan Am overseas check-in, CA	-- 3
1975 --	<b>chickenpox</b> (Varicella); 83 US deaths/death rate 0.039 per 100K; CA, 0.028	-- 6
1975 --	<b>influenza</b> ; ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; CA, 1.54	-- 332
1975 --	<b>measles/rubeola</b> ; ICD-8 code 055; 20 US deaths/death rate 0.009 per 100K; CA, 0.014	-- 3
1975 --	<b>poliomyelitis</b> , acute; 78 US polio deaths/death rate 0.036 per 100K, CA, 0.042	-- 9
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; CA, 1.03	-- 223

<sup>117</sup> While CA had more deaths than any other state, due to high population, the death rate was below US average.

### California (continued):

1976 --	<b>chickenpox</b> (Varicella); 106 US deaths/death rate 0.05 per 100K; CA, 0.04	--	9
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; CA/2.5-	544	
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; CA, 1.27	--	278
1976 --	July 12, <b>shooting</b> rampage, Cal State University Library, Fullerton, CA	--	7
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; CA, 0.39	--	88
1977 --	<b>poliomyelitis</b> , acute; 100 polio deaths/death rate 0.05 per 100K; CA, 0.05	--	9
1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; CA, 1.05	--	235
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; CA death rate 0.98	--	224
1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; CA, 0.95	--	217
1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; CA, 0.76	--	177
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, CA, 0.97	--	230
1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; CA, 0.72	--	171
1981 --	<b>chickenpox</b> (Varicella); 84 US deaths/death rate 0.04 per 100K; CA, 0.03	--	7
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, CA, 0.92	--	225
1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; CA, 0.64	--	157
1981 --	Feb 10, <b>USMC Sea Knight and Sea Stallion</b> collide at night, Santa Ama MCAB, CA--	6	
1982 --	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, CA, 0.27	--	66
1982 --	<b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, CA, 194	--	194
1982 --	Mar 31, <b>avalanche</b> , Alpine Meadows, CA	--	7
1982 --	Apr 07, hazmat gasoline <b>truck</b> collision, Caldecott Tunnel, Oakland CA	--	7
1982 --	Dec 16, <b>USAF B52 pilot error crash after takeoff</b> , Mather AFB, CA	--	all 9
1983 --	<b>chickenpox</b> , 57 US chickenpox deaths/death rate 0.02 per 100K, CA, 0.02	--	5
1983 --	<b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, CA, 0.27	--	69
1983 --	<b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K;	--	175
1984 --	<b>chickenpox</b> , 53 US chickenpox deaths, death rate 0.02 per 100K, CA, 0.03	--	8
1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, CA, 0.42	--	109
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; CA death rate 0.62	--	161
1986 --	<b>influenza</b> , 1,838 US flu deaths; death rate 0.76 per 100K, CA death rate 0.33	--	89
1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; CA death rate 0.62	--	167
1986 --	May 17, <b>private Cessna 320D plane crash</b> , Van Nuys, CA	--	all 6
1986 --	Dec 27, private <b>Beechcraft Baron takeoff crash</b> San Fran. Bay off East Palo Alto CA--	6	
1987 --	<b>chickenpox</b> ; 89 US deaths/death rate 0.04 per 100K; CA death rate 0.04	--	10
1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, CA, 0.72	--	200
1987 --	Apr 8, So. Air Transport L-100 Hercules USAF trng. missed approach crash, Travis AFB, CA--	5	
1987 --	Sep 30, <b>Aerotaxis de Sonora Cessna plane crash</b> south of San Diego, CA	--	all 6
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; CA, 0.76	--	216
1988 --	Feb 16, Richard Wade Farley workplace <b>shootings</b> . ESL Inc., Sunnyvale, CA	--	7
1990 --	<b>influenza</b> , 2,098 US deaths; death rate 0.84 per 100K; CA, 0.52	--	156
1990 --	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K, CA, 0.71	--	211
1990 --	Feb 19, <b>camp teens go through thin ice, 4 rescuers as well</b> , Lake Convict, CA	--	7
1990 --	Sep 29, <b>private PV-2D Harpoon, crash while buzzing seaplanes in lake</b> , Lakeport CA--	8	
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K; CA, 0.36	--	109
1991 --	<b>measles</b> , CA	--	8
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate of 0.68 per 100K, CA, 0.65	--	199

**California (continued):**

1991 -- June 30,	<b>Beechcraft Queen Air landing crash</b> (engine problem, pilot error), Pioneer CA--	8
1991 -- Nov 14,	<b>Cessna Skymaster flies in high obscured terrain</b> , near Big Bear City, CA--	5
1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, CA at 0.39	-- 122
1992 -- Jan 11,	<b>Bell helicopter flies into power line</b> , crashed, Carquinez Strait ~Crockett, CA--	5
1992 -- Feb 16,	<b>Piper plane flies into mt.</b> on AP approach, broken clouds, Clarks Summit, CA--	7
1992 -- Apr 12,	<b>Cessna crash</b> , vacuum system malfunction, loss of directional gyro, Baxter CA--	5
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate of 0.40 per 100K, CA, 0.33	-- 103
1993 -- Mar 16,	<b>Skys The Limit Piper unexplained crash</b> in Pacific 1M off Carpinteria, CA--	all 6
1993 -- July 25,	<b>Cessna 310H approach crash</b> , ran out of fuel, ~William J. Fox AP, Lancaster CA--	6
1993 -- Nov 02-11,	<b>Old Topanga urban/wildland fire</b> , (Malibu, CA)	-- 3
1993 -- Dec 15,	<b>Martin Aviation approach crash</b> , wake turbulence too close to 757, Santa Ana AP, CA--	5
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; CA, 0.42	-- 132
1995 --	<b>influenza</b> , 606 US flu deaths; ICD-9 code 487.0, US death rate 0.23 per 100K, CA, 0.16--	52
1996 -- July-Aug 15,	<b>excessive natural heat</b> , Death Valley (4) and Kern County (4), CA	-- 8
1998 -- Feb 23,	<b>debris flow</b> , Castle Rock Canyon, Orange County, CA	-- 3
1998 -- Feb 24,	<b>debris flow</b> , Castle Rock/Laguna Beach/Orange County CA	-- 2
1998 -- June-Aug,	<b>heat (excessive natural heat)</b> , CA	-- 7
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; CA, 0.370	-- 124
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; CA, 0.514	-- 174
2001 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.09 per 100K; CA, 0.08	-- 29
2002 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.253 per 100K; CA, 0.072	-- 25
2003 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; CA, 0.286	-- 101
2003 -- July-Aug,	<b>exposure to excessive natural heat</b> , especially San Bernardino County	-- 9
2004 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.376 per 100K; CA, 0.149	-- 53
2005 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; CA, 0/128	-- 46
2006 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.285 per 100K; CA, 0.128	-- 36
2006 -- Oct 26,	<b>wildfire</b> , Esperanza fire traps USFS firefighters, San Jacinto Mts. So. CA	-- 5
2007 --	<b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.042; CA, 0.036	-- 13
2007 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.14 per 100K; CA, 0.10	-- 36
2008 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; CA, 0.21	-- 78
2009 --	<b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.9 per 100K; CA, 0.7	-- 251
2009 -- May 19-Sep 24,	<b>excessive heat</b> , Death Valley, SF area, El Cerrito, Los Angeles, CA--	6
2009 -- Oct 29,	<b>USMC helicopter and USCG C-130 collide</b> , near San Clemente Isl., CA--	9
2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K, CA 0.6	-- 231
2010 --	<b>influenza</b> , 500 US flu deaths (50K flu/pneumonia), death rate 0.2 per 100K; CA, 0.1	-- 50
2010 -- Aug 14,	Cal 200 Race <b>crash</b> into crowd, Soggy Dry Lake Bed, Mojave Desert CA	-- 8
2010 -- Sep 09,	<b>explosion</b> and fire, Pacific Gas & Electric Pipeline, San Bruno, CA	-- 8
2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K, CA 0.6	-- 214
2011 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; CA, 0.4	-- 155
2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; CA rate 0.5--	209
2012 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.4 per 100K; CA, 0.2	-- 72
2012 -- Apr 02,	<b>school shootings</b> , Oikos University, Oakland, CA	-- 7
2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, CA 0.6	-- 218
2013 --	<b>influenza</b> , ICD-10 Codes J09-J11; US death rate 1.2 per 100,000; CA rate 0.8	-- 309



2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; CA rate 0.5--	178
2014 --	<b>influenza</b> , ICD-10 codes J09-11.8, US avg. death rate 1.4 per 100,000; CA had 1.2 --	457
2014 --	Apr 16-July 30, <b>heat</b> , including Bakersfield, Death Valley, Hanford, Healdsburg --	8
2014 --	May 23, <b>mass murder</b> (6 students, 1 suicide), UC at Santa Barbara, Isla Vista, CA--	6-7
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; CA rate 0.5--	192
2015 --	<b>influenza</b> (ICD-10 codes J09-11), US avg. death rate 1.6 per 100,000; CA, 0.9 --	339
2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.7 per 100K; CA 0.3 --	230
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; CA rate 1.9	-- 734
2016 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.9 per 100K; CA rate 0.8	-- 164
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; CA rate 1.61	-- 635
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; CA rate 1.65	-- 653
2020 --	exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; CA 0.11	-- 43
2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; CA death rate 1.69	-- 664
2020 --	Sep 06, <b>mass murder</b> of Laotians, illegal marijuana growing house, Aguanga, CA--	7
2021 --	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; CA rate 0.14--	56
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; CA death rate 1.45	-- 569

#### Breakout by Type of **California** Large Loss-of-Life Events (10 or more fatalities):

- 261 -- **Disease**, especially communicable, especially epidemics (Plus 159 in “Other.”)
- 106 -- **Aviation** (plus 44 noted with 5-9 deaths; 9 were non-CA crashes with  $\geq 10$  CA residents.)
- 74 -- **Violence** (Including 3 arsons cross-listed in fire.) Plus 6 – 5 with 7 deaths and 1 with 3.
- 72 -- **Maritime and Inland Water craft**. (We also note 9 deaths in 1969 grounding.)
- 66 -- **Heat**. (Plus 5 years 6-9 deaths: 8 in 1996, 7 in 1998, 9 in 2003, 6 in 2009, 8 in 2014.)
- 53 -- **Winter Weather/Cold/Hypothermia**. (Plus 43 deaths in 2020 and 56 in 2021.<sup>118</sup>)
- 25 -- **Road/Highway/Vehicle**. (Plus one with 8 fatalities and one with 7 in “Other.”)
- 17 -- **Flooding**. (Includes one cross-listed in Winter Storms.)
- 16 -- **Explosions** (including 3 cross-listed in maritime and one with 8 fatalities in “Other.”)
- 15 -- **Fires, Structural** (including fires in 1906 earthquake)
- 14 -- **Fires, Wildfire**. (Plus 3 – 1 with 6 deaths in 1995; 1 with 8 in 2006. 1 with 3 in 1993.)
- 13 -- **Rail**. (Includes three railroad crossing events cross-listed in Vehicular/Road/Highway.)
- 12 -- **Fog as a Contributing Factor**.
- 10 -- **Earthquakes**. (Plus one with nine deaths.)
- 9 -- **Structural Failures** (including dam failures). Plus one dam failure with 5 deaths.
- 6 -- **Landslides, Mudslides, Debris Flows**. (Plus one with 5 deaths over two days.)
- 4 -- **Mining/Tunneling**. (Plus 6 events <10 deaths: 1876, 1891, 1911, 1930, 1934, 1937.)
- 1 -- **Avalanche/Snowslide**. (Plus one with 7 deaths.)
- 1 -- **Dust Storm** (Cross-listed in Vehicular.)
- 1 -- **Food Poisoning**.
- 1 -- **Hurricane/Tropical Storm**.
- 1 -- **Starvation (Donner Party)**.
- 1 -- **Tsunami**. (Plus two years, one death each.)
- 1 -- **Wind and Rain Storm**.
- 0 -- **Drownings**. (But 1 event in 1990 with 7 deaths.)

<sup>118</sup> Though a large number of deaths in 2020 and 2021, the State ranked below the US average death rate.



## CO

## Colorado

1. 1849 -- cholera outbreak, Julesburg area, then part of 49ers trail westward<sup>119</sup> -- >10
2. 1857 -- Sep 3, Bluewater Creek massacre, Col. Harney Attacks Sioux Camp, CO -- 85
3. 1864 -- Nov 29, Sand Creek massacre of Cheyenne/Arapaho near Fort Lyon, CO --130-150
4. 1867 -- July especially, cholera, Fort Lyon, CO -- 12
5. 1874 -- Pueblo-area flooding, CO -- 30
6. 1879 -- June-May 1880, typhoid fever (CO subset of 23,339 U.S. Typhoid deaths) -- 78
7. 1879 -- Sep 29, Meeker massacre by Utes, White River, Northwestern CO -- 12
8. 1883 -- smallpox, especially Leadville (69), Denver (5) -- ≥79
9. 1883 -- Jan 30, avalanche, Howard Smith Coal Mine, near Crested Butte, CO -- ~10
10. 1883 -- Dec 25, avalanche (Mendota Slide), Near Telluride, CO -- 13
11. 1884 -- Jan 24, mine explosion, Crested Butte Coal Mine, Crested Butte. CO -- 59
12. 1884 -- Mar 11~, avalanche, Woodstock, CO -- ~15
13. 1884 -- May 30, cloudburst, flash flood, cattle camp, Frenchman's Creek, CO -- 11
14. 1884 -- Aug 28/29, fire, Orton's Anglo-American Circus Train, near Greeley, CO -- 10
15. 1885 -- Nov 13, Bull Domingo Silver/Gold mine dynamite explosion, Silver Cliff, CO-- 10
16. 1889-90--June-May, typhoid fever, State subset of 27,058 US typhoid deaths -- 418
17. 1889 -- Sep 09, mine flooding, White Ash Coal Mine, Golden, CO -- 10
18. 1890 -- Jan-Feb, influenza (La Grippe/Russian Flu), Denver, CO -- 199
19. 1891 -- July 12, train engine and train collide, scalding, near Aspen Junction, CO -- 10
20. 1893 -- Jan 10, mine explosion, Como Coal Mine, King, CO -- 24
21. 1895 -- Aug 19, boiler explosion/fire, Gumry Hotel, Denver, CO -- 25
22. 1895 -- Aug 29, mine flood, Sleepy Hollow Gold Mine, Sleepy Hollow, CO -- 12
23. 1896 -- measles, especially Denver, also Colorado Springs and Pueblo -- ≥17
24. 1896 -- Feb 18, mine explosion, Vulcan Coal Mine, New Castle, CO -- 49
25. 1896 -- July 24, flash floods, Bear Creek and Clear Creek Canyons, Golden, CO --29-30
26. 1897 -- Sep 03, mine Explosion, Sunshine Coal Mine, Sunshine, CO -- 12
27. 1897 -- Sep 10, trains collide, fire, near Newcastle, CO -- 30
28. 1898 -- July 01-Oct 25, typhoid fever, Denver, CO -- 20
29. 1889-90--June 01-May 31, diphtheria; Denver (146); 27,815 US diphtheria deaths<sup>120</sup> -- 294
30. 1899 -- Jan 29-Feb 3, freezing, falls through river ice, snowslides other than Sil. Plume- ~13
31. 1899 -- Feb 12, avalanche, Silver Plume, CO -- 10
32. 1900 -- typhoid fever (CO subset of 35,379 typhoid fever deaths nationwide) -- 222
33. 1901 -- July 04, strike riot, dynamite explosion, Smuggler Mine, Telluride, CO -- 15
34. 1901 -- Nov, 20, Smuggler-Union gold mine suffocation, Pandora, CO -- 28
35. 1902 -- Feb 28, snow slide, Liberty Bell Mine, Near Telluride, CO -- 19
36. 1902 -- Aug 07, mine explosion, Bowen Coal Mine, Bowen, CO -- 13
37. 1904 -- Jan 26, mine cage fall, Stratton Independence Gold Mine, Victor, CO -- 15
38. 1904 -- June 06-08, labor bombing/shooting, Cripple Creek, Teller County, CO -- 21
39. 1904 -- Aug 07, wood bridge/trestle fails under train, Eden/Pueblo, CO -- ~83-116

<sup>119</sup> Our number extrapolating from Colorado Dept. of Health document on *Health in Colorado: The First One Hundred Years* (1969, p. 2) which writes: "One of Colorado's first recorded epidemics occurred in 1849, when an outbreak of cholera snuffed out many lives in the Julesburg area. Drainage wells in that area were polluted by the first wagon trains heading west over the Oregon Trail."

<sup>120</sup> At a proportional death rate of 56.67 per 1,000 deaths all causes, Denver was far above US average of 33.06.

**Colorado (continued):**

40.	1904 -- Oct 28, coal <b>mine</b> explosion, Tercio Coal Mine, Tercio, CO	--	19
41.	1905 -- <b>tuberculosis</b> , subset, 56,770 Census deaths; Denver/692 and Pueblo/103 <sup>121</sup>	--	795
42.	1906 -- Feb 19, <b>mine</b> explosion, Maitland Coal Mine, Walsenburg, CO	--	14
43.	1906 -- Feb 29, <b>avalanche</b> , Mace, CO	--	60
44.	1906 -- Mar 16, <b>trains collide</b> , Denver & R.G. Passenger, Adobe, CO	--	22
45.	1906 -- Mar 18-19, <b>snow storm, avalanches</b> , CO	--	16
46.	1906 -- Apr 22, <b>mine</b> explosion, Cuatro Coal Mine Tercio, CO	--	18
47.	1907 -- <b>scarlet fever</b> , especially Denver, CO (subset of 4,309 US deaths), CO	--	229
48.	1907 -- <b>tuberculosis of the lungs</b> ; subset of 76,650 US TB deaths, CO	--	1,682
49.	1907 -- <b>typhoid fever</b> , especially Denver (103) ~13K Census area, CO	--	400
50.	1907 -- Jan 23, <b>mine</b> explosion, Primero Coal Mine, Primero, CO	--	24
51.	1909 -- Jan 15, <b>train collision</b> , Denver and Rio Grande RR, Dotsero, CO	--	21
52.	1909 -- Aug 14, head-on <b>train collision</b> , near Husted, CO	--	10
53.	1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; CO, 41.9	--	337
54.	1910 -- Jan 31, <b>mine</b> explosion, Primero Coal Mine, Primero, CO	--	75
55.	1910 -- Oct 08, coal <b>mine</b> dust explosion, Colorado Fuel Co., Starkville, CO	--	56
56.	1910 -- Nov 08, coal <b>mine</b> explosion, Victor American No. 3, Delagua, CO	--	79
57.	1910 -- Dec 14, Leyden coal <b>mine</b> fire, Leyden, CO	--	10
58.	1911 -- Feb 09, Cokedale coal <b>mine</b> disaster, Trinidad, CO	--	17
59.	1912 -- June 18, <b>mine</b> explosion, Hastings Coal Mine, Hastings, CO	--	12
60.	1913 -- <b>measles</b> , 8,108 US "registration area" (65.1%) deaths. (100% CO death rate increase)--		35
61.	1913 -- Dec 16, <b>mine</b> explosion, Vulcan Coal Mine, New Castle, CO	--	37
62.	1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; CO rate 9.1	--	85
63.	1914 -- Apr 20, <b>Ludlow Massacre</b> (CO NG attacks <b>striking coal miners</b> ), CO	--	18-25
64.	1917 -- Apr 27, coal <b>mine</b> explosion, Hastings Coal Mine, near Trinidad, CO	--	121
65.	1918-19 -- <b>influenza and pneumonia</b> epidemic, CO		7,738-9,301
	1918 -- <b>influenza and pneumonia</b> Epidemic, CO		5,762-6,938
	1919 -- <b>influenza and pneumonia</b> Epidemic, CO		1,976-2,363
66.	1919 -- Mar 31, coal <b>mine</b> explosion, Empire Coal Mine, Aguilar, CO	--	13
67.	1919 -- Aug 18, coal <b>mine</b> gas explosion, Oakdale Coal Mine, La Veta, CO	--	18
68.	1920 -- <b>influenza and pneumonia</b> Epidemic, CO	--	2,718
69.	1920 -- <b>smallpox</b> (CO subset of 508 smallpox deaths in 34 registration states)	--	10
70.	1920 -- <b>typhoid fever</b> (CO subset, 6,805 typhoid fever deaths, 34 registration states)	--	87
71.	1920 -- <b>whooping cough</b> ; CO subset, 10,968 whooping cough deaths, 34 reg. states <sup>122</sup> --		250
72.	1920 -- Sep 06, <b>trains collide</b> , Denver & Interurban RR, ~ Globeville, CO	--	13
73.	1921 -- June 02, <b>levee failures/flooding</b> /drowning, Arkansas River, Pueblo County, CO--		120
74.	1922 -- Mar 24, coal <b>mine</b> explosion, Sopris No. 2 Coal Mine, Sopris, CO	--	17
75.	1923 -- May 05, <b>Coal mine</b> gas explosion, Southwestern Coal Mine, Aguilar, CO	--	10
76.	1924 -- Aug 10, <b>tornado</b> , Thurman (Washington, Kit Carson Counties), CO	--	10
77.	1926 -- Sep 05, <b>train derailment</b> , near Waco, CO	--	30
78.	1927 -- <b>polio</b> (acute) esp. late summer and fall (CO subset, 2,013 U.S. polio deaths)	--	15
79.	1928 -- Apr 20, <b>fire</b> , Alexander Industries Plane Plant, Englewood, CO	--	11

<sup>121</sup> Denver had highest large city death rate (460.4) of all Census nonregistration state cities (134); avg. was 168.2.

<sup>122</sup> With 26.4 deaths per 100,000 population, CO had highest death toll of 34 registration states; average was 12.5.

**Colorado (continued):**

80. 1929 -- July 18, **flash flood**, bridge down, train wreck, Stratton, CO -- 10
81. 1929 -- Oct 3-4, CO State **Penitentiary uprising** (8 guards, 5 convicts die), Canon City, CO--13
82. 1931 -- **tuberculosis**; subset of 81,395 US TB deaths --1,077
83. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; CO, 8.0 -- 83
84. 1935 -- May 30, downbursts and flash **floods**, CO --26-27
85. 1936 -- Feb 7-25, Arctic **cold waves, snow, blizzards, avalanches**, CO -- 11
86. 1939 -- **influenza and pneumonia** (CO subset, 99,097 US flu/pneumonia deaths) --1,154
87. 1940 -- **whooping cough**; 2926 US WC deaths/US death rate 2.2 per 100K, CO, 2.8 -- 31
88. 1942 -- Jan 27, **mine** explosion (gas), Wadge Coal, Mount Harris, CO -- 34
89. 1943 -- Jan 24, **plane crash**, U.S. Army Air Force B-17, near Ordway, CO -- 10
90. 1943 -- July 19, **plane crash**, USAAF B-24E, Taylor Canyon, 27M NE of Gunnison, CO--11
91. 1943 -- July 28, **plane crash**, U.S. Army AF B-24E, structural failure, Adena, CO -- 12
92. 1943 -- Aug 16, **plane crash**, U.S. Army Air Force B-24E, near Pueblo, CO -- 10
93. 1943 -- Aug 27, **plane crash**, USAAF B-24, Cheyenne Mt., near Peterson Field, CO -- 10
94. 1943 -- Sep 28, **plane crash**, U.S. Army Air Force B-24H, near Fountain, CO -- 11
95. 1943 -- Sep 30, **plane crash**, U.S. AAF B-24H, near Villa Santa Maria Del Norte, CO-- 11
96. 1943 -- Nov 03, **plane crash**, U.S. Army Air Force, B-24J, near Pueblo, CO -- 10
97. 1944 -- Feb 26, **plane crash**, U.S. Army Air Force B-17, near Palmer Lake, CO -- 10
98. 1944 -- June 29, **plane crash**, U.S. Army Air Force B-24D near Tobe, CO -- 10
99. 1944 -- Aug 09, **plane fire and crash**, U.S. Army Air Force B-24J, near Kiowa, CO -- 10
100. 1944 -- Aug 21, **planes collide**, U.S. Army Air Force B-24J's, near Model CO -- 18
101. 1945 -- July 8, **USAAF B-29 encounters thunderstorm**/loses tail/crashes 20M ~Pueblo AAB, CO--13
102. 1946 -- **polio**, July-Nov especially; subset of 1,845 U.S. polio deaths) -- 58
103. 1951 -- **polio**, especially July-Nov (1,551-1,555 polio deaths nationwide) -- 50
104. 1951 -- **whooping cough**; 960 US deaths; subset for CO -- 25
105. 1951 -- June 30, **United Flight 610** flies into Crystal Mt., 18M from Ft. Collins, CO-- 50
106. 1951 -- Sep 15, **airshow stunt plane crash** kills 19 spectators and pilot, Flagler, CO-- 20
107. 1952 -- Apr 08, **plane crash**, U.S. Air Force B-25, Golden Peak, near Golden, CO -- 11
108. 1952 -- Nov 25-26, **winter storm**; subset of approximately 38 US deaths; CO -- 11
109. 1953 -- **measles**, 483 US deaths, 23 states in double digits; CO subset -- 13
110. 1955 -- Nov 01, **United 629 blown-up** (relative of passenger bomb), Longmont, CO-- 44
111. 1956 -- **measles**, 530 US deaths/21 states in double digits; CO 16<sup>th</sup> highest loss -- 16
112. 1956 -- Sep 24, **plane crash**, USAF C-47, Mount Yale, near Buena Vista, CO -- 12
113. 1957 -- June 11, **train** hits farm worker **truck** at railroad crossing, Vroman, CO -- 12
114. 1957 -- Fall-Spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) -- 984
115. 1961 -- July 11, **plane crash/fire**, on landing United Air #859, Stapleton, Denver, CO-- 18
116. 1961 -- Dec 14, **train** and school **bus** collision at railroad crossing, Auburn, CO -- 20
117. 1962 -- Jan 09-13, **snow, sleet, extreme cold-wave**; 153-219 US deaths; CO subset -- 8-10
118. 1963 -- Jan 11-18, **cold waves/exposure** deaths, **snow**/road accidents, CO poisoning-- 10
119. 1965 -- June 16-17, intense rain/**flooding**, South Platte & Arkansas River basins, CO-- 25
120. 1968 -- **influenza**, ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; CO 7.0--147
121. 1969 -- **influenza**, ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; CO 3.5--76
122. 1970 -- Oct 2, Golden Eagle **Aviation charter crash**, WSU FB team, w. of Silver Plume, CO-- 32
123. 1971 -- **influenza**, ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; CO 0.82--19

**Colorado (continued):**

124.	1972	--	<b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; CO	--	22
125.	1972	--	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; CO 2.58--	--	62
126.	1973	--	<b>excessive natural cold</b> ; ICD-8 code E901; 381 US deaths; CO	--	12
127.	1973	--	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; CO 2.85	--	71
128.	1974	--	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; CO/1.9-	47	
129.	1976	--	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; CO/7.9-	209	
130.	1976	--	July 31, <b>flash flood</b> , Big Thompson, CO	--	144
131.	1977	--	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; CO, 1.22	--	33
132.	1977	--	<b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; CO	--	10
133.	1978	--	exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; CO	--	10
134.	1979	--	<b>influenza</b> , 604 US deaths/death rate 0.27 per 100K; CO, 0.35	--	10
135.	1980	--	Mar 27, Lufkin Inc., Beechcraft <b>plane crash</b> (icing), fire, near Parker, CO	--	10
136.	1980	--	June 18, <b>Cessna 182 and Cessna 310 collide</b> , East Maroon Pass ~Aspen, CO--all	10	
137.	1981	--	Apr 15, Dutch Creek No. 1 methane/ <b>coal dust mine</b> explosion, Redstone, CO--	15	
138.	1981	--	Apr 17, <b>planes collide</b> , Air US 716 & Sky West Parachute, Loveland, CO	--	15
139.	1982	--	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, CO, 0.59	--	18
140.	1984	--	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, CO, 0.54	--	17
141.	1985	--	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, CO, 1.43	--	46
142.	1985	--	Dec 16, <b>gas explosion</b> , Rocky Mt. Natural Gas Co., Glenwood Springs, CO	--	12
143.	1986	--	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K, CO, 0.93	--	30
144.	1987	--	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; CO, 0.67	--	22
145.	1987	--	Nov 15, <b>takeoff crash</b> , Continental Airlines flight 1713 DC-9, Denver, CO	--	28
146.	1988	--	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; CO, 1.07	--	35
147.	1989	--	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; CO, 0.76	--	25
148.	1990	--	exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; CO	--	10
149.	1991	--	exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; CO	--	17
150.	1991	--	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; CO, 0.47	--	16
151.	1991	--	Mar 03, <b>plane crash</b> , United Airlines Boeing 737, Colorado Springs, CO	--	25
152.	1991	--	Mar 04, <b>fire</b> , Crystal Springs Estates Boarding Home, Colorado Springs	--	10
153.	1992	--	exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; CO	--	15
154.	1992	--	<b>influenza</b> , 1,006 US deaths, death rate 0.39 per 100K, CO at 0.54	--	19
155.	1993	--	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; CO	--	14
156.	1993	--	<b>influenza</b> , 1,044 US deaths, death rate of 0.40 per 100K, CO, 0.44	--	16
157.	1994	--	exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; CO	--	20
158.	1994	--	<b>meningococcal meningitis</b> , ICD-9 code 36.0; death rate 0.10 per 100K; CO, 0.27--	10	
159.	1994	--	July 6, <b>South Canyon wildfire</b> , Storm King Mt., Glenwood Springs, CO	--	14
160.	1997	--	Oct 24-25, <b>blizzard</b> , CO	--	10
161.	1998	--	exposure to excessive natural <b>cold/hypothermia</b> ; 420 US deaths; CO	--	11
162.	1999	--	Apr 20, Columbine High School <b>shooting</b> , Columbine, CO <sup>123</sup>	--	13-15
163.	2000	--	exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; CO	--	15
164.	2001	--	exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; CO	--	15
165.	2001	--	Jan 27, charter <b>plane crash</b> , OK State U. basketball members, Strasburg, CO--	10	
166.	2001	--	Mar 29, Avjet Corp. <b>Gulfstream III charter crash</b> on approach, Aspen, CO	--	18

<sup>123</sup> Two seniors killed 12 students and 1 teacher before committing suicide; thus 13 victims and 15 total deaths.



**Colorado (continued):**

167.	2002	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	646 US deaths;	CO	--	16
168.	2002	-- <b>influenza</b> ,	ICD-10 codes J09-11;	US death rate 0.253 per 100K;	CO, 0.423	--	19
169.	2003	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	620 US deaths;	CO	--	10
170.	2003	-- <b>influenza</b> ,	ICD-10 codes J09-11;	US death rate 0.618 per 100K;	CO, 1.921	--	87
171.	2004	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	676 US deaths;	CO	--	19
172.	2004	-- <b>influenza</b> ,	ICD-10 codes J09-11;	US death rate 0.376 per 100K;	CO, 0.415	--	19
173.	2005	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	700 US deaths;	CO	--	31
174.	2005	-- <b>influenza</b> ,	ICD-10 codes J09-11;	US death rate 0.613 per 100K;	CO, 0.691	--	32
175.	2006	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	519 US deaths;	CO	--	18
176.	2006	-- <b>influenza</b> ,	ICD-10 codes J09-11;	US death rate 0.285 per 100K;	CO, 0.403	--	19
177.	2007	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	711 US deaths;	CO	--	16
178.	2008	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	641 US deaths;	CO	--	13
179.	2009	-- exposure to excessive natural	<b>cold/hypothermia</b> );	616 US deaths;	CO	--	14
180.	2009	-- <b>H1N1 "Swine Flu,"</b>	especially spring through winter,			--	70-82
181.	2011	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	0.2 death rate;	CO, 0.214	--	11
182.	2011	-- <b>influenza</b> ,	ICD-10 codes J09-J11;	US death rate 0.5 per 100,000;	CO, 0.6	--	31
183.	2012	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	501 US deaths;	CO	--	18
184.	2012	-- <b>influenza</b> ,	ICD-10 codes J09-11;	US death rate 0.4 per 100K;	CO, 0.5	--	26
185.	2012	-- July 20, James Holmes	<b>mass shooting</b> ,	Century 16 Theater, Aurora, CO		--	12
186.	2013	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	725 US deaths;	CO	--	20
187.	2014	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	930 US deaths;	CO	--	22
188.	2014	-- <b>influenza</b> (ICD-10 codes J09-11),	US death rate 1.4 per 100K;	CO was 2.1		--	114
189.	2015	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	815 US deaths;	CO	--	19
190.	2015	-- <b>influenza</b> (ICD-10 codes J09-11),	US death rate 1.6 per 100K;	CO was 1.7		--	91
191.	2016	-- <b>diarrhoea/gastroenteritis</b> ,	infectious origin;	US death rate 0.7, CO, 1.00		--	14
192.	2016	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	731 US deaths;	CO	--	28
193.	2016	-- <b>influenza</b> (ICD-10 codes J09-11),	US death rate 0.9 per 100,000;	CO, 1.0		--	54
194.	2017	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	804 US deaths;	CO	--	22
195.	2017	-- <b>influenza</b> ;	6,515 US deaths/death rate 2.0 per 100K pop.;	CO rate 2.37		--	133
196.	2018	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	1,028 US deaths;	CO <sup>124</sup>	--	34
197.	2018	-- exposure to <b>excessive natural heat</b> ;	1,012 US deaths;	subset for CO		--	10
198.	2019	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	1,115 US deaths;	CO	--	33
199.	2019	-- <b>influenza</b> ;	subset of 5,902 US deaths,	1.08 death rate per 100K, CO, 1.93		--	111
200.	2020	-- <b>COVID-19</b> ;	354,215 US Covid deaths (1,070 per 1M);	CO 836 per 1M pop.		--	4,814
201.	2020	-- exposure to excessive	<b>natural cold</b> ;	919 US deaths/death rate 0.28;	CO 0.60--		35
202.	2020	-- exposure to <b>excessive natural heat</b> ;	1,174 US deaths/	death rate 0.3; CO		--	10
203.	2021	-- <b>COVID-19</b> ;	437,984 US deaths/2.6K deaths per 1M pop.;	CO, 1.8K per M		--	5,720
204.	2021	-- exposure to excessive	<b>natural cold</b> ;	1179 US deaths/death rate 0.36;	CO 0.71--		41
205.	2021	-- exposure to <b>excessive natural heat</b> ;	1,912 US heat deaths;	subset for CO		--	15
206.	2021	-- Mar 22, Ahmad Alissa	<b>mass shooting</b> ,	King Soopers grocery, Boulder, CO		--	10
207.	2022	-- exposure to <b>excessive natural heat</b> ;	2,159 US deaths;	subset for CO		--	14
208.	2023	-- exposure to <b>excessive natural heat</b> ;	2,155 US deaths;	subset for CO		--	12

<sup>124</sup> 2<sup>nd</sup> highest State death rate. US average 0.31; Colorado was 0.60 (MN had highest death rate, at 0.64).



### Some Select/Notable Other **Colorado** Large Loss-of-Life Events:<sup>125</sup>

1801-02--	<b>smallpox</b> pandemic, Native Americans, Central, Midwest, esp. Upper, Northwest <sup>126</sup> --?	
1870 --	<b>diarrhoea</b> (8), <b>dysentery</b> , and <b>enteritis</b> (26); from U.S. Census	-- 41
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	-- 33
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	-- 196
1879 --	June-May 1880, <b>malarial fever</b> , (CO subset, 20,231 such deaths nationwide)	-- 25
1879 --	June-May 1880, <b>measles</b> , esp. children (CO subset, 8,254 measles deaths)	-- 60
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (CO subset, 16,388 SF deaths)	-- 34
1889-90,	June-May, <b>croup</b> , (subset of 13,862 U.S. croup deaths)	-- 88
1889-90,	June-May, <b>measles</b> , subset of 9,256 US measles deaths	-- 66
1894 --	<b>diphtheria</b> , esp. Denver (71); State subset of $\geq 14,606$ US diphtheria deaths	-- 75
1897 --	<b>typhoid fever</b> , subset of $>9,192$ US typhoid deaths; especially Denver (48)	-- 55
1898 --	<b>typhoid fever</b> , July 1-Oct 25, subset of $>4,627$ US typhoid fever deaths	-- 20
1900 --	<b>croup</b> (upper airway contagious viral infection), CO	-- 58
1900 --	<b>diphtheria</b> (subset of 16,475 US diphtheria deaths in 1900); CO	-- 148
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths); CO	-- 40
1900 --	<b>malarial fever</b> (14,874 US malarial fever deaths); CO	-- 21
1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900); CO	-- 28
1900 --	<b>measles</b> (subset of 12,866 US measles deaths); CO	-- 59
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths); CO	-- 183
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths); CO	-- 79
1900 --	<b>smallpox</b> (subset, 8,484 US smallpox deaths); CO	-- 54
1900 --	<b>tuberculosis</b> (7,428 CO deaths all causes) (subset of 109,750 US deaths); CO	-- 874
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths); CO	-- 94
1905 --	<b>epidemic cerebrospinal meningitis</b> ; 5,114 such deaths in US; Denver, CO	-- 15
1906 --	<b>epidemic cerebro-spinal meningitis</b> , CO	-- 70
1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; CO, 14.4	-- 143
1919 --	<b>diphtheria</b> (subset, 9,160 US diphtheria deaths); CO	-- 59
1920 --	<b>diphtheria and croup</b> (subset of 13,395 such deaths in 34 registration states); CO--	138
1920 --	<b>measles</b> (subset of 7,712 measles deaths in 34 registration states); CO	-- 220
1920 --	<b>scarlet fever</b> (subset of 4,004 scarlet fever deaths in 34 registration states); CO	-- 42
1925 --	exposure to <b>excessive natural cold (hypothermia)</b> , 239 US deaths; CO	-- 5
1925 --	<b>diphtheria</b> (subset, 8,058 US diphtheria deaths); CO	-- 149
1925 --	<b>dysentery</b> (subset, 3,257 US dysentery deaths); CO	-- 34
1925 --	<b>influenza</b> (subset, 30,538 US influenza deaths); CO	-- 583
1925 --	<b>meningococcus meningitis</b> (subset, 1,095 US meningitis deaths); CO	-- 15
1925 --	<b>scarlet fever</b> (subset of 2,762 US scarlet fever deaths, 48 states); CO	-- 30
1925 --	<b>tuberculosis</b> (subset, 89,268 US tuberculosis deaths); CO	--1,585
1925 --	<b>typhoid/paratyphoid fever</b> (subset of 8,287 US typhoid fever deaths); CO	-- 92
1925 --	<b>whooping cough</b> (subset, 6,948 US whooping cough deaths); CO	-- 103
1927 --	Nov 21, Colorado Rangers <b>shoot striking miners</b> , Columbine Mine, Serene, CO	-- 6

<sup>125</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>126</sup> We do not have a number. We do have sources which state the Arapaho and Kiowa who lived in or moved about Colorado were effected (especially eastern Colorado for the Kiowa). We estimate more than 9,090 Natives died.

**Colorado (continued):**

1931 --	<b>epidemic cerebrospinal meningitis</b> ; subset, 2,832 US meningitis deaths; CO	--	31
1931 --	<b>influenza</b> (subset of 31,701 US influenza deaths); CO	--	392
1931 --	<b>measles</b> , especially children (subset, 3,576 US measles deaths); CO	--	50
1935 --	Mar 12-25, "suffocating" <b>dust storm</b> , Southeast CO	--	6
1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (subset of 1,997 US diphtheria deaths); CO	--	28
1939 --	<b>tuberculosis</b> (subset of 61,609 US tuberculosis deaths); CO	--	499
1939 --	<b>whooping cough</b> (subset of 3,026 US whooping cough deaths); CO	--	50
1940 --	<b>influenza and pneumonia</b> (subset of 92,525 US flu and pneumonia deaths); CO	--	976
1940 --	<b>polio</b> , especially children (subset of 1,026 US polio deaths); CO	--	12
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); CO death rate 12.0	--	135
1940 --	<b>tuberculosis</b> (subset of 55,576 US tuberculosis deaths); CO	--	458
1941 --	<b>measles</b> , especially children (subset of 2,279 US measles deaths); CO	--	18
1944 --	<b>cerebrospinal meningitis</b> (subset, 2,812 US cerebrospinal meningitis deaths); CO	--	24
1944 --	<b>influenza</b> (subset of 17,320 US influenza deaths), esp. Jan-Apr, Dec; CO	--	158
1944 --	<b>measles</b> , especially Jan-June (subset of 1,923 US measles deaths); CO	--	26
1944 --	<b>tuberculosis</b> (subset of 54,731 US tuberculosis deaths); CO	--	419
1944 --	<b>whooping cough</b> (subset of 1,878 US whooping cough deaths); CO	--	27
1948 --	<b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths; CO	--	12
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths; CO	--	36
1949 --	Jan 2-5, <b>blizzard and extreme cold</b> , especially northern CO	--	7
1950 --	<b>measles</b> , especially children (subset of 468 US measles deaths); CO	--	10
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths; CO	--	8
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, CO subset	--	267
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for CO	--	13
1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; subset for CO	--	13
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths; CO	--	23
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for CO	--	176
1953 --	<b>influenza</b> ; 9,500 US deaths; CO subset	--	106
1953 --	<b>polio</b> , subset of 1,450 US polio deaths; CO	--	5
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; CO subset	--	196
1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; CO subset	--	24
1954 --	<b>measles</b> ; 524 US deaths; 21 states double digits; CO subset	--	6
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; CO subset	--	145
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; CO subset	--	155
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US TB deaths; CO subset	--	127
1957 --	<b>influenza</b> ; 7,463 US deaths; CO subset	--	84
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; CO subset	--	129
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; CO subset	--	110
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; CO subset	--	103
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; CO death rate 3.5	--	61
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; CO death rate 4.3	--	76
1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; CO death rate 0.9	--	16
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100K; CO death rate 4.0	--	71
1962 --	<b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population, CO rate 0.3	--	6

**Colorado (continued):**

1962 --	<b>tuberculosis</b> ;	9,508 US deaths/death rate 5.1 per 100K pop.;	CO rate 3.7	--	70
1962 --	Jan 21, Mt. Elbert <b>avalanche</b>	hits two homes, Twin Lakes, near Leadville, CO		--	7
1963 --	<b>influenza</b> ;	7,083 US deaths [63,678 pneumonia deaths];	death rate 3.8; CO death rate 1.7-34		
1963 --	<b>tuberculosis</b> ;	9,311 US deaths/death rate 4.9 per 100K pop.;	CO death rate 3.2	--	63
1964 --	<b>influenza</b> ;	1,687 US deaths/date rate 0.9 per 100K;	CO death rate 0.7	--	13
1964 --	<b>tuberculosis</b> ;	US deaths 8,303/death rate 4.3 per 100K;	CO death rate 3.5	--	69
1965 --	<b>influenza</b> ;	2,295 US deaths/death rate 1.2 per 100K;	CO death rate 1.1	--	22
1965 --	<b>tuberculosis</b> ;	7,934 US deaths, death rate 4.1 per 100K;	CO death rate 3.1	--	61
1966 --	<b>tuberculosis</b> ;	7,625 US TB deaths;	subset for CO	--	44
1968 --	fall-spring 1969, A2 Hong Kong <b>influenza-pneumonia</b>	epidemic; subset for CA		--	246
1969 --	<b>tuberculosis</b> ;	5,567 US deaths/death rate 2.76 per 100K;	CO death rate 1.06	--	47
1970 --	<b>influenza</b> ;	ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K;	CO 1.54	--	34
1970 --	<b>tuberculosis</b> ;	ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K;	CO 1.49--		33
1971 --	<b>tuberculosis</b> ;	4,501 US deaths/death rate 2.18 per 100K;	CO/1.43	--	33
1972 --	<b>tuberculosis</b> ;	4,376 US deaths, death rate 2.09 per 100K;	CO 1.08	--	26
1973 --	<b>tuberculosis</b> ;	3,875 US deaths/death rate 1.84 per 100K;	CO 1.08	--	27
1974 --	<b>tuberculosis</b> ;	3,513 US TB deaths/death rate 1.65 per 100K;	CO, 0.98	--	25
1975 --	<b>influenza</b> ;	ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K;	CO, 1.51	--	39
1975 --	<b>tuberculosis</b> ;	3,333 US TB deaths/death rate 1.55 per 100K;	CO, 1.43	--	37
1976 --	<b>tuberculosis</b> ;	3,130 US TB deaths/death rate 1.44 per 100K;	CO, 1.02	--	27
1977 --	<b>tuberculosis</b> ;	2,968 US TB deaths/death rate 1.35 per 100K;	CO, 0.67	--	18
1978 --	<b>influenza</b> ;	4,052 US flu deaths/death rate 1.82 per 100K;	CO, 1.55	--	43
1978 --	<b>tuberculosis</b> ;	2,914 US TB deaths/death rate 1.31 per 100K;	CO, 0.97	--	27
1979 --	<b>tuberculosis</b> ;	2,007 US TB deaths/death rate 0.89 per 100K;	CO, 0.49	--	14
1979 --	July 30, <b>hailstorm</b> ,	3-month girl hit in head, dies Aug 7, Fort Collins, CO		--	1
1979 --	Oct 31~, <b>winter snow storm</b> ,	CO poisoning in car/2, semi's collide/3, rockslide/1--			6
1980 --	<b>influenza</b> ;	2,702 US flu deaths/death rate 1.19 per 100K,	CO death rate 1.00	--	29
1980 --	<b>tuberculosis</b> ;	1,978 US TB deaths/death rate 0.87 per 100K;	CO, 0.45	--	13
1980 --	Nov 8, <b>Mooney M20K plane crash</b> ,	north of Grand Junction, CO		--	all 5
1981 --	<b>influenza</b> ;	3,006 US flu deaths/death rate 1.31 per 100K,	CO, 1.14	--	34
1981 --	Nov 14, hazardous material <b>tanker</b>	sideswipes truck, explodes ~Canon City <sup>127</sup>		--	8
1982 --	<b>tuberculosis</b> ;	1,807 US TB deaths/death rate 0.78 per 100K,	CO, 0.36	--	11
1983 --	<b>influenza</b> ;	1,431 US flu deaths, death rate 0.61 per 100K,	CO death rate 0.61	--	19
1983 --	Dec 20-27, <b>winter weather</b> ,	severe cold/exposure deaths, heavy snow, icy roads		--	8
1985 --	<b>tuberculosis</b> ;	1,752 US TB deaths, death rate 0.74 per 100K;	CO, 0.40	--	13
1985 --	June 17, Neilson Leasing <b>Cessna 402B</b>	flies into cloud shrouded mountain, Bailey CO--			8
1986 --	<b>tuberculosis</b> ;	1,782 US deaths, death rate 0.74 per 100K;	CO, 0.37	--	12
1986 --	Jan 11, <b>Jayhawk Aircraft Cessna 425 Corsair AP approach crash</b> ,	Granby CO--			5
1986 --	Sep 25, <b>private Cessna 340A flies into high cloud-shrouded terrain</b> ,	Crawford, CO--all 5			
1986 --	Nov 29, <b>Beechcraft Bonanza flies into terrain</b>	after takeoff, Steamboat Springs CO--all 5			
1987 --	<b>HIV AIDS</b> ;	13,468 deaths/US death rate 5.55 per 100K;	CO, 4.08	--	133
1987 --	<b>tuberculosis</b> ;	1,755 US TB deaths, death rate 0.72 per 100K,	CO, 0.49	--	16
1987 --	Sep 28, bird strike and <b>USAF B1-B plane crash</b> ,	, La Junta, CO		--	3

<sup>127</sup> Gasoline tanker ruptured/exploded burning to death all 6 passengers in nearby car. Two truck fatalities.

**Colorado (continued):**

1988 -- Nov 24,	<b>private Cessna crash</b> in snow, fog and diminishing daylight, Cortez, CO--	5
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8; CO, 5.12	-- 167
1988 --	<b>tuberculosis</b> ; 1,921 US TB deaths, death rate 0,78 per 100K; CO, 0.40	-- 13
1988 -- Jan 19,	<b>Trans-Colorado Airlines approach crash</b> 5M NE of Durango-La Plata AP, CO--	8
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate per 100K 8.9, CO, 6.81	-- 223
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; CO, 0.73	-- 24
1990 -- Apr 27,	<b>Piper Cherokee flies into cloud shrouded mt.</b> , too-low altitude ~Leadville, CO--	6
1991 -- Mar 29,	<b>Cessna crash</b> (pilot didn't file flight plan or get deteriorating weather brief), Cortez. CO--	5
1992 -- Mar 05,	<b>private Mitsubishi approach crash</b> stall, pilot overmedicated, New Castle, CO--	6
1992 -- Apr 11,	<b>Wings of Denver Flying Club crash</b> returning to AP after takeoff, Englewood CO--	5
1993 -- Aug 08,	<b>Cameron balloon</b> collides with static power line, crashes, ~Woody Creek CO--	6
1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; death rate .56 per 100K; CO, 0.43	-- 16
1995 -- Sep 24,	<b>Piper flies VFR into IFR weather, flying low into ridge</b> , Westcliffe, CO--	5
1996 -- Nov 17,	<b>Piper pilot flies into adverse weather without proper certification</b> /crashes, Eagle, CO--	5
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; CO, 0.51	-- 21
1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; CO, 0.34	-- 14
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; CO, 0.473	-- 20
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; CO, 0.395	-- 17
2005 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; CO, 0.22	-- 10
2007 -- Oct 02,	<b>fire</b> , 1,000 deep tunnel at Xcel hydroelectric plant, Georgetown, CO	-- 5
2008 -- July 24,	<b>lightning</b> , Colorado State University, Fort Collins, CO	-- 2
2009 --	<b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.9 per 100K; CO, 0.5--	45
2010 --	<b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.9 per 100K; CO, 0.6--	31
2010 --	<b>viral hepatitis</b> , ICD-10 code B-15-19; US death rate 2.4 per 100K; CO, 2.0	-- 100
2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K, CO 0.6	-- 31
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; CO, 2.2	-- 112
2011 -- Aug-Oct,	<b>listeriosis food poisoning; cantaloupes</b> ; packing facility ~Holly, CO	-- 9
2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, CO 0.7	-- 35
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; CO 2.6	-- 133
2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, CO, 0.7--	39
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; CO, 2.1	-- 113
2013 --	<b>influenza</b> , ICD-10 Codes J09-J11; US death rate 1.2 per 100,000; CO rate 0.9	-- 49
2013 -- Apr 20,	<b>avalanche</b> , snowboarders, west flank Mt. Sniktau ~Loveland Pass, CO	-- 5
2013 -- Sep 11-12,	<b>flooding</b> , Front Range area in and near Boulder, CO	-- 8
2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, CO, 0.5--	25
2014 --	<b>viral hepatitis</b> , ICD-code B15-B19, US death rate 2.5 per 100,000; CO had 2.1	-- 112
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, CO, 0.5-	-- 25
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; CO, 2.3	-- 124
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; CO rate 0.8	-- 45
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; CO rate 1.6	-- 88
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rage 1.75 per 100K; CO rate 0.98	-- 55
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; CO death rate 0.88	-- 50
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., CO rate 2.65	-- 151
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; CO rate 0.69	-- 40



2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; CO 0.77	--	45
2020 --	<b>influenza</b> ; <sup>128</sup> 5,943 US deaths/death rate 1.8 per 100K; CO death rate 1.50	--	87
2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; CO death rate 1.57	--	906
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; CO death rate 0.77	--	44
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	844

### Breakout by Type of **Colorado** Large Loss-of-Life Events (10 or more fatalities):

- 69 -- **Disease**, especially communicable, especially epidemics. (Plus 147 in “Other.”)
- 36 -- **Winter Weather/Cold/Hypothermia**. (Plus 4 events >10 deaths.)
- 30 -- **Mining**. (Includes two that were miner-related conflicts.)
- 27 -- **Aviation**. (Plus 15 -- 1 with three fatalities, 9 with five, 3 with six, and 2 with 8.)
- 11 -- **Rail** (Two, however, are road-crossing collisions, cross-listed in “Vehicular.”)
- 11 -- **Violence**. (Plus one with 6 fatalities in “Other.”)
- 9 -- **Floods**. (Plus one with 8 fatalities in 2013 in “Other”)
- 9 -- **Fog as contributing factor**.
- 7 -- **Avalanche/Snowslides**. (Plus two – one with 7 fatalities and one with 5 in “Other.”)
- 5 -- **Heat**
- 4 -- **Fire, structural** (one explosion cross-listed; one as circus train fire). In 2007, 5 deaths.)
- 2 -- **Explosions**.
- 2 -- **Structural Failure**.
- 2 -- **Vehicular--Road/Highway/Railroad Crossings**.
- 1 -- **Tornado**.
- 1 -- **Wildfire**.
- 0 -- **Dust Storm**. (But one event in March, 1935 with 6 deaths.)
- 0 -- **Lightning**. (But one event in 2008 with 2 deaths.)
- 0 -- **Poisoning (unintentional)**. (But 9 deaths in 2011, listeriosis food poisoned cantaloupes.)

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<sup>128</sup> Distinct from 47,601 pneumonia deaths in 2020 (ICD codes J12-J18).

## CT

## Connecticut

1. 1633-34 -- **smallpox** epidemic, Native Americans, esp. along Connecticut River<sup>129</sup> --100's
2. 1637-- May 26, Mystic **Massacre**, English colonists attack Pequot Village, CT --400-700
3. 1643-- Fall, Dutch/English force assisted by Stamford, CT settlers **attack** Natives, CT-- 18-20
4. 1644 -- Feb, **massacre**, Dutch attack Siwanoy, Petuquapaen, ~Cos Cob, CT<sup>130</sup> --500-700
5. 1647 -- **influenza**, CT (~40-50) and MA (~40-50) --40-50
6. 1697-98 -- ~Nov 1697--~Feb 1698 (3 mo.), "**mortal disease**" (**influenza?**), Fairfield, CT--70
7. 1711-12 -- Winter (within two months), "**Malignant Distemper**" (**influenza?**), CT -- 250
8. 1712-13 -- Oct 1712-Sep 1713, "**Malignant Distemper,**" Waterbury, CT --21-30
9. 1726 -- Summer, **unknown typhoid fever-like epidemic**, Newent Parish, Norwich, CT--~20
10. 1727 -- Sum. esp., **typhoid fever-like** epidemic Norwich (~40) & Woodbury (≥44), CT<sup>131</sup> --≥84
11. 1732 -- Spring, **smallpox** epidemic, Wallingford/New Cheshire, New Haven Co., CT --14-18
12. 1736-41 -- "Throat Distemper" (**diphtheria**) epidemic, esp. East/New Haven<sup>132</sup> --500-1,000
13. 1742 -- Aug-Summer 1743, **dysentery** outbreak, East Haven (population ~500), CT --43-60
14. 1745 -- **malignant dysentery (typhoid fever?)** epidemic, Stamford (one street), CT -- 70
15. 1749 -- **dysentery** epidemics, CT, esp. Waterbury (130) Woodbury (57), CT --252-262
16. 1751 -- **dysentery** epidemic, Canaan (~10), Hartford (64) and New Haven (45), CT -- ~119
17. 1753 -- late summer-fall (~2 mo.), **dysentery** ("Camp Distemper"), esp. Norwich, CT - - 28
18. 1760-61, winter-spring -- **influenza** epidemic, esp. Bethlehem and East Haven, CT. -- >85
19. 1775 -- summer-Fall (esp.), **dysentery**, esp. Danbury, Middletown, Coventry, CT -- ≥146
20. 1777 -- summer-Fall (especially), **dysentery**, especially Norfolk (≤56), CT -- ~59
21. 1793 -- **dysentery**, reportedly "killed almost every person whom it seized," Coventry<sup>133</sup>-- 10
22. 1793 -- **scarlet fever**, Branford, Middletown and especially Stonington (children), CT-- ≥10
23. 1794 -- **scarlet fever**, Bolton, Lebanon, East Haven, etc., and esp. New Haven (52) CT-- ≥76
24. 1794 -- June-Nov, **yellow fever** epidemic, New Haven, CT (160 cases) -- 64
25. 1795 -- **dysentery** epidemics, especially Branford, East Haven and New Haven, CT -- ≥96
26. 1796 -- Aug-early Sep, **yellow fever**, Chatham/Middle Haddam, Middlesex Co., CT -- 11
27. 1798 -- Aug 25-Oct 28, **yellow fever** epidemic, New London, CT -- 81
28. 1832 -- July 11-Sep 10, **cholera** outbreak, esp. Hartford and New Haven, CT -- 32
29. 1833 -- Oct 16, steamer **New England** boiler explosion, CT River, Essex, CT --13-20
30. 1838 -- Sep 07, sloops **Alabama, Dread, Caution** out of Mystic lost in storm off FL<sup>134</sup>-- >20
31. 1849 -- summer-winter, **cholera**, CT -- 59
32. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States, Territories, DC; avg. 571-- 965
33. 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) -- 968
34. 1853 -- May 06, **train** goes through open drawbridge into Norwalk Riv., S. Norwalk CT-45-46
35. 1854 -- Aug-Sep especially, **cholera**, especially Hartford and New Haven, CT --141-151
36. 1854 -- Mar 02, **boiler explosion/fire**, Fales & Gray **RR Car Works**, Hartford, CT -- 21

<sup>129</sup> There is no definitive figure. However, in the words of Collin Calloway (*Western Abenakis of Vermont, 1600-1800*, 1994, p. 36), "Governor William Bradford of Plymouth Colony reported that one Indian village up the Connecticut River had suffered 'such a mortalitie that of a 1000, above 900 and a half of them dyed....'"

<sup>130</sup> Some place massacre in Westchester Co., NY (Dinan. "Historians Sift Clues..." *Greenwich Time*, 3-5-2006.)

<sup>131</sup> Epidemic cause not known. One of the sources (Duffy) notes it bore "some resemblance to typhoid attacks."

<sup>132</sup> There were deaths in multiple locations. For example, there were at least 22 in Coventry, 30 in Farmington, 35 in Guilford, 24 in Killingly, and 17 in New London.

<sup>133</sup> Number is ours for the purpose of recognition. Population according to 1790 US Census was 2,130.

<sup>134</sup> Subset of 38 lives lost in hurricane near Cape Florida, FL.

**Connecticut (continued):**

37. 1857 -- Aug 15, steamers collide, **J.N. Harris** sinks, L.I. Sound, ~Falkland Island, CT --13-15
38. 1860 -- **measles** (State subset of 3,900 measles deaths nationwide) -- 85
39. 1860 -- **scarlet fever** (subset of 26,402 deaths in 38 Census States & DC) -- 389
40. 1860 -- **smallpox** (State subset of 1,263-1,271 smallpox deaths in reporting States) -- 16
41. 1860 -- **tuberculosis**, reported as “consumption” (subset of 49,082 US deaths)<sup>135</sup> --1,269
42. 1865 -- Aug 15, **train collision** “Fairfield” and Bridgeport, near Bridgeport, CT -- 11
43. 1867 -- Sep 05, **Branch River bridge fails, Naugatuck Train Wreck** ~Thomaston, CT-- 10
44. 1869 -- Jan 31, **dam failures/flood**, Upper/Lower Kohanza/Flint, Danbury, CT --11-13
45. 1870 -- **diarrhoea** (72), **dysentery** (116), and **enteritis** (72); from U.S. Census -- 260
46. 1870 -- **tuberculosis** (Consumption) (CT subset of about 70,000 US TB deaths) --1,218
47. 1871 -- Nov 22, steamer **City of New London** burns, Norwich, CT -- 17
48. 1877 -- June 08, **fire, wall failure**, Sanford & Son’s Hat Factory, Bridgeport, CT --11-13
49. 1878 -- Jan 14, **bridge failure, train falls into river**, CT Western RR, Tariffville, CT-- 13
50. 1878 -- Aug 09, **tornado**, Wallingford, New Haven County, CT --27-34
51. 1878 -- Sep 28, steamer **Adelphi** boiler explosion, ~Gregory’s Pt. E. Norwalk, CT --14-15
52. 1879 -- June-May 1880, **tuberculosis**; subset of 91,270 TB deaths nationwide; CT --1,150
53. 1880 -- June 11, steamer **Narragansett** hit/burns/sinks, **fog**, off Saybrook, CT --27-50
54. 1886 -- Feb 26, snowstorm, steamer **Idlewild** strands, lifeboat lost, off Stamford, CT -- 8-11
55. 1888 -- Mar 11-14, **blizzard**, CT -- 30
56. 1889 -- Feb 17, Park Central Hotel **boiler explosion** & bldg. collapse, Hartford, CT --21-23
57. 1889-90--June 1-May 31, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; CT<sup>136</sup> -- 574
58. 1890 -- Jan-Mar, **influenza** (La Grippe/Russian Flu), especially New Haven, CT --1,366
59. 1894 -- **diphtheria**, especially children; State subset of  $\geq 14,606$  US diphtheria deaths -- 319
60. 1896 -- **measles**, esp. Hartford (76), New Haven (28), Waterbury (33), Bridgeport (16)-- 254
61. 1896 -- Feb 6, **train bridge failure** (workmen die), Pequabuck Riv., East Bristol CT -- 11
62. 1896 -- Aug 10-11, **heat wave**, sunstroke, heat prostration, especially Hartford, CT -- 12
63. 1897 -- **typhoid fever**, subset of >9,192 US typhoid deaths -- 326
64. 1898 -- **typhoid**, esp. June-Dec, >4,627 US deaths, Spanish War Army camps/civilians-- 365
65. 1899 -- Aug 06, **train derailment**, Peck’s Mill Pond, Oronoque, near Bridgeport, CT -- 36
66. 1900 -- **influenza** (subset, 16,645 US influenza deaths; 8<sup>th</sup> largest state loss) -- 644
67. 1900 -- **measles** (subset of 12,866 US measles deaths) -- 161
68. 1900 -- **tuberculosis** (15,520 CT deaths all causes; 109,750 US TB deaths), CT<sup>137</sup> --1,529
69. 1900 -- July-Aug (especially), **excessive natural heat**; subset of 1,266 US heat deaths-- 30
70. 1901 -- June-July (especially), **heat waves** (subset of 4,012 US heat deaths) -- 47
71. 1903 -- June-Aug (especially first half July), **heat** (subset of 520 US heat deaths) -- 18
72. 1904 -- **epidemic cerebrospinal meningitis**, esp. Hartford; highest state death rate, 42.7--200
73. 1905 -- **cerebrospinal meningitis**, highest rate of death ever and highest in US -- 272
74. 1907 -- **influenza** (subset of over 10,066 deaths in “registration” areas), CT<sup>138</sup> -- 452
75. 1907 -- **tuberculosis of the lungs**; subset of 76,650 US TB deaths, CT --1,531
76. 1910 -- **polio** outbreak, especially children, CT (1,635 US polio deaths) -- 40

<sup>135</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>136</sup> Avg. US diphtheria deathrate 33.06 per 1K deaths; CT/39.97/Hartford 65.97/New Haven/50.12/Bridgeport, 47.9.

<sup>137</sup> Leading cause of death in Connecticut in 1900, with pneumonia second.

<sup>138</sup> With death rate of 44.2 per 100,000 population, only Vermont, among registration States, had higher rate --51.5.

**Connecticut (continued):**

77.	1911 -- July 6 & 11, <b>heat wave</b> , especially New Haven, CT	-- 24
78.	1911 -- July 11, <b>train derailment</b> , Burr Crossing, Bridgeport, CT	-- 14
79.	1913 -- Sep 02, <b>fog, trains collide</b> , North Haven, CT	-- 21
80.	1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; CT rate 12.0	-- 144
81.	1916 -- Archer Home for the Elderly <b>murders</b> , Winsor, New Haven County, CT	-- 10
82.	1916 -- Feb 22, <b>three train collision</b> , near Milford, CT	-- 10
83.	1916 -- July-Oct (esp.), <b>polio</b> epidemic, esp. children, esp. Bridgeport, Hartford, CT	-- 235
84.	1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; CT. 25.3	-- 143
85.	1917 -- Aug 13, <b>trains collide</b> , near North Branford, CT	-- 19
86.	1918 -- Sep-Dec, <b>influenza</b> epidemic, CT	--7,602-8,630
87.	1919 -- <b>influenza</b> epidemic, CT	--1,583-2,367
88.	1919 -- <b>diphtheria</b> ; subset, 9,160 US diphtheria deaths (3 <sup>rd</sup> highest State death rate)	-- 253
89.	1919 -- Dec 25-29, <b>wood alcohol poisoning</b> , esp. Hartford, also Thompsonville, CT	--17-18
90.	1920 -- <b>diphtheria and croup</b> (CT subset, 13,395 such deaths, 34 registration states) <sup>139</sup> --	237
91.	1920 -- <b>influenza</b> epidemic, CT	--3,088
92.	1921 -- Feb 22, <b>trolleys collide</b> head-on, 5-gallon gas can ignites, <b>fire</b> , Shelton, CT	-- 10
93.	1923 -- Mar 31, <b>water tank/tower on roof fails</b> , Fuller Brush Co., Hartford, CT	-- 10
94.	1925 -- <b>excessive heat</b> (State subset of 1,587 US excessive heat deaths)	-- 31
95.	1929 --~Jan 13, fishing trawler <b>Seiner</b> lost, Georges Bank, out of New London, CT	-- 21
96.	1930 -- Apr 24, Long Island Sound freighter <b>Thames</b> burns, near Captains Island, CT	-- 16
97.	1931 -- <b>polio</b> , esp. July-Oct, (State subset of 2,139-2,144 US polio deaths, esp. children)--	97
98.	1938 -- Sep 21, <b>New England Hurricane "Long Island Express,"</b> subset for CT	--97-100
99.	1941 -- Feb 05, <b>fire</b> , New Haven Quilt and Pad Company, New Haven, CT	-- 10
100.	1941 -- Dec 04, <b>bridge failure</b> , Charter Oak Bridge, Hartford, CT	-- 15
101.	1944 -- July 6, <b>fire</b> , Barnum & Ringling Broth. Circus, Stampede, Hartford, CT	--168-169
102.	1945 -- Dec 24, <b>fire</b> , Niles Street Convalescent Hospital, Hartford, CT	-- 21
103.	1946 -- Jan 18, <b>Eastern Air Flight #105</b> engine fire/wing collapse/crash, Cheshire, CT--	17
104.	1955 -- <b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); CT subset	-- 18
105.	1955 -- Aug 18-19, <b>flooding, Hurricane Diane</b> , esp. Waterbury/29, Farmington/13	-- 87
106.	1957 -- Jan 24, <b>fire</b> , M. Baer Dress Company Factory, New Haven, CT	-- 15
107.	1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	-- 689
108.	1958 -- Mar 16, <b>snowstorm</b> ; heart attacks shoveling snow/7, exposure/1, vehicular/2--	10
109.	1960 -- Mar 02-05, <b>snowstorm</b> , CT	-- 18
110.	1960 -- Dec 11-12, <b>snowstorm/blizzard/coldwave</b> , esp. snow removal heart attacks, CT--	15
111.	1961 -- Feb 04, snow storm, heart attack deaths shoveling snow, CT	-- 10
112.	1961 -- Dec 08, <b>fire</b> , Hartford Hospital, Hartford, CT	-- 16
113.	1966 -- <b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; CT--	12
114.	1969 -- Apr 06, <b>fire</b> , wood-frame Tenement/Apartment House, Bridgeport, CT	-- 11
115.	1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; CT 1.5--	46
116.	1971 -- June 07, <b>plane crash</b> , Allegheny Airlines, New Haven, CT	-- 28
117.	1974 -- <b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; CT/1.3--	39
118.	1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; CT/5.6--	173
119.	1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, CT, 2.48	-- 77

<sup>139</sup> Bridgeport, CT had the 4<sup>th</sup> highest death rate (30.2 per 100,000) among registration cities (average was 15.3).



### Connecticut (continued):

120.	1980 -- Dec 04, <b>fire</b> , Conference Ctr. at Stouffer's Inn ( <b>arson?</b> ), Harrison, NY <sup>140</sup>	--	13
121.	1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, CT, 1.53	--	48
122.	1982 -- June 4-7, <b>flooding</b> , especially central and eastern CT	--	11-12
123.	1982 -- July 5, <b>arson fire</b> , apartment building, Waterbury, CT	--	14
124.	1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K, CT, 0.87	--	28
125.	1987 -- Apr 23, <b>construction collapse</b> , L'Ambiance Plaza Apartments, Bridgeport	--	28
126.	1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; CT, 0.82	--	27
127.	1990 -- <b>influenza</b> , 2,098 US deaths; death rate 0.84 per 100K; CT, 1.28	--	42
128.	1991 -- Feb 16, apartment building <b>fire</b> (extension cord related), New Britain, CT	--	10
129.	1992 -- <b>influenza</b> , 1,006 US deaths, death rate 0.39 per 100K, CT at 0.85	--	28
130.	1997 -- <b>influenza</b> , code 487.0; US death rate 0.26 per 100K (720 US deaths); CT, 0.33	--	11
131.	1998 -- <b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; CT, 0.68	--	23
132.	1998 -- Sep 2, Swissair 111 <b>plane crash</b> attempting emer. landing in Nova Scotia <sup>141</sup>	--	10
133.	2002 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; CT, 0.29	--	10
134.	2003 -- exposure to excessive natural <b>cold/hypothermia</b> ; 620 US deaths; CT	--	14
135.	2003 -- Feb 26, <b>fire</b> (set by patient), Greenwood Nursing Home, Hartford, CT	--	16
136.	2004 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; CT, 0.49	--	17
137.	2005 -- exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; CT	--	17
138.	2005 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; CT, 0.71	--	25
139.	2006 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; CT	--	10
140.	2006 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; CT, 0.54	--	19
141.	2007 -- exposure to excessive natural <b>cold/hypothermia</b> ; 711 US deaths; CT	--	15
142.	2009 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; CT 1.3--	45	
143.	2009 -- <b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K) CT, 0.6	--	22
144.	2009 -- especially spring through winter, <b>H1N1 "Swine Flu,"</b> CT	--	31-35
145.	2010 -- exposure to excessive natural <b>cold/hypothermia</b> ; 710 US deaths; CT	--	15
146.	2010 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; CT 1.1--	41	
147.	2011 -- exposure to excessive natural <b>cold/hypothermia</b> ; 0.2 death rate; CT, 0.51	--	18
148.	2011 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; CT 1.4--	51	
149.	2011 -- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; CT, 0.9	--	33
150.	2011 -- Oct 29, nor'easter <b>snowstorm</b> , CO poisonings, vehicular, fire, tree falls	--	10
151.	2012 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, CT, 0.9--	47	
152.	2012 -- Dec 14, <b>mass shooting</b> , Sandy Hook Elementary School, Newtown CT <sup>142</sup>	--	27-28
153.	2013 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, CT 0.9--	32	
154.	2013 -- <b>influenza</b> , ICD-10 Codes J09-J11; US death rate 1.2 per 100K; CT rate 1.3	--	48
155.	2014 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, CT 1.0--	35	
156.	2014 -- exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; CT	--	13
157.	2014 -- <b>influenza</b> (ICD-10 codes J09-11), US death rate 1.4 per 100,000; CT rate 1.6--	59	
158.	2015 -- <b>influenza</b> (ICD-10 codes J09-11), US death rate 1.6 per 100,000; CT rate 2.3--	82	
159.	2016 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.7 per 100K; CT, 1.0--	37	

<sup>140</sup> Cross-listed in CT where 13 of the 26 fatalities were from. A waiter was charged with arson and 26 counts of murder and found guilty by jury; however, the presiding judge overturned the verdict citing insufficient evidence.

<sup>141</sup> All aboard NY to Geneva flight died (229), of which 117 were U.S. citizens and ten were from Connecticut.

<sup>142</sup> Shooter killed 27 – 20 children, 6 adults at the school, plus his mother at home. Then committed suicide (#28).

160.	2016 --	<b>influenza</b> (ICD-10 codes J09-11), US death rate 0.9 per 100,000; CT rate 1.0--	34
161.	2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; CT rate 4.59	-- 164
162.	2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., CT rate 4.59	-- 164
163.	2019 --	<b>influenza</b> ; 5,902 US deaths, 1.08 death rate per 100K, CT death rate 2.24	-- 80
164.	2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; CT death rate 2.05	-- 73
165.	2020 --	<b>COVID-19</b> ; 354,215 US deaths/1,070 per 1M); CT 1,681 per 1M pop.	--5,995
166.	2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; CT, 2.6K	--3,165
167.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; CT death rate 7.35	--2,621

### Some Select/Notable Other **Connecticut** Large Loss-of-Life Events:<sup>143</sup>

1637 --	Apr 23, <b>massacre</b> , Wongunk and Pequots attack Wethersfield, CT	--	9
1715 --	<b>measles</b> , New London, CT	--	9
1789-90 --	Fall-Spring, <b>influenza</b> epidemic; CT, ME, MA, NH, NY, Philadelphia, RI <sup>144</sup>	--Many	
1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), CT	--	38
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	--	91
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65; CT--		17
1850 --	<b>typhoid fever</b> , subset 13,099 US typhoid fever deaths, 36 states/DC/territories; CT--		151
1850 --	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	--	48
1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	--	164
1860 --	<b>whooping cough</b> (subset of 8,408 US whooping cough deaths); CT	--	97
1870 --	<b>scarlet fever</b> , especially children (subset of 20,339 US deaths); CT	--	286
1870 --	<b>typhoid fever</b> (subset of 22,187 US typhoid fever deaths); CT	--	414
1870 --	<b>whooping cough</b> (subset of 9,008 US whooping cough deaths); CT	--	83
1870 --	<b>typhus</b> (subset of 1,770 US typhus deaths); CT	--	19
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 US croup deaths); CT--		138
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 US deaths); CT	--	189
1879 --	June-May 1880, <b>malarial fever</b> , (subset, 20,231 US malaria deaths); CT	--	187
1879 --	June-May 1880, <b>measles</b> , esp. children (subset, 8,254 US measles deaths); CT	--	28
1879 --	June-May 1880, <b>meningitis</b> (subset of 7,481 US meningitis deaths); CT	--	76
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (subset, 16,388 S.F. deaths); CT	--	102
1879 --	June-May 1880, <b>smallpox</b> (subset of approximately 1,270 US smallpox deaths); CT--		11
1879 --	June-May 1880, <b>typhoid fever</b> (subset of 23,339 US typhoid deaths); CT	--	167
1879 --	June-May 1880, <b>whooping cough</b> (subset, 11,064 US whooping cough deaths); CT--		61
1880 --	<b>smallpox</b> , CT	--	11
1881 --	<b>diphtheria</b> , esp. New Haven/23, Norwich/8 and Waterbury/10, CT	--	47
1885 --	<b>diphtheria and croup</b> , New Haven, CT	--	26
1889-90, June-May,	<b>croup</b> , subset of 13,862 US croup deaths; CT	--	123
1889-90, June-May,	<b>measles</b> , subset of 9,256 US measles deaths; CT	--	43
1889-90, June-May,	<b>smallpox</b> , subset of 398 US smallpox deaths; only 4 states double dig.--		12

<sup>143</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>144</sup> Sources consulted do not provide an estimate. Kohn ("New England Influenza Epidemic of 1789," *Encyclopedia of Plague and Pestilence*), writes it was widespread in states we note, affected thousands/Fall of 1789, lasted about 4-6 weeks in each place in the first (1789) wave, was "particularly harsh on the elderly and chronically ill," and that there were especially "many" deaths from the derivative pneumonia. Notes the "case-mortality is believed to have been less than 50 percent during the epidemic." If there were thousands of cases, there would be many deaths.

Some Select/Notable Other **Connecticut** Large Loss-of-Life Events (continued):

1889-90, June-May, <b>typhoid fever</b> , subset of 27,058 US typhoid deaths; CT	-- 331
1890 -- <b>diphtheria and croup</b> (subset of 41,677 US deaths); CT	-- 578
1892 -- May 21, <b>explosion</b> and <b>fire</b> , Aetna Pyrotechnic (fireworks) Co., Hartford, CT	-- 5
1897 -- <b>typhoid fever</b> (subset of approximately US 6,000 deaths); CT	-- 326
1900 -- <b>croup</b> (upper airway contagious viral infection), CT (12,484 US croup deaths)	-- 73
1900 -- <b>diphtheria</b> (CT subset of 16,475 US diphtheria deaths in 1900)	-- 253
1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 166
1900 -- <b>malarial fever</b> ; 14,874 US malarial fever deaths; CT	-- 110
1900 -- <b>meningitis</b> ; 19,423 US meningitis deaths; CT	-- 327
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths); CT	-- 61
1900 -- <b>typhoid fever</b> (State subset of 35,379 typhoid fever deaths nationwide); CT	-- 249
1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths); CT	-- 119
1902 -- <b>smallpox</b> ; CT	-- 14
1904 -- Jan 2-5, <b>snow storm and cold wave</b> , CT	-- 7
1905 -- <b>tuberculosis</b> , 56,770 census deaths/10 states/135 cities; CT death rate 148, avg. 168--1,462	
1906 -- <b>epidemic cerebrospinal meningitis</b> , CT	-- 94
1907 -- <b>typhoid fever</b> (subset of approximately 13,000 US deaths); CT	-- 209
1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; CT, 14.7	-- 165
1911 -- <b>polio</b> ; subset of 1,060 "registration area" deaths (63.1% pop.)	-- 15
1912 -- Oct 03, <b>train derails</b> , NY, New Haven & Hartford RR, Westport, CT	-- 7
1913 -- <b>measles</b> , 8,108 US "registration area" (65.1%) deaths; CT	-- 100
1915 -- <b>polio</b> ; 691 registration area deaths (67.1% population); subset for CT	-- 12
1916 -- <b>diphtheria</b> , especially children (8,000-17,000 US diphtheria deaths); CT	-- 187
1917 -- <b>polio</b> , esp. June-Sep, especially children (subset, $\geq$ 1,182 US polio deaths); CT	-- 16
1918 -- <b>typhoid fever</b> (subset of 9,100 US typhoid fever deaths); CT	-- 75
1920 -- <b>measles</b> (subset of 7,712 measles deaths in 34 registration states); CT	-- 135
1920 -- <b>scarlet fever</b> (subset of 4,004 scarlet fever deaths in 34 registration states); CT	-- 75
1920 -- <b>typhoid fever</b> (subset of 6,805 typhoid fever deaths in 34 registration states); CT	-- 57
1920 -- <b>whooping cough</b> (subset, 10,968 whooping cough deaths in 34 reg. states); CT	-- 250
1920 -- June 27, <b>wood alcohol poisoning</b> , Hartford, CT	-- 4
1921 -- <b>polio</b> (acute) esp. late summer-fall (subset, 1,597 U.S. polio deaths); CT	-- 25
1921 -- Nov 27, <b>fire</b> , Rialto Theatre, New Haven, CT	-- 9
1925 -- <b>anthrax</b> (subset of 22 US anthrax deaths); CT	-- 1
1925 -- <b>excessive natural cold</b> ; subset of 239 US excessive cold deaths; CT	-- 8
1925 -- <b>diphtheria</b> (subset, 8,058 US diphtheria deaths); CT	-- 128
1925 -- <b>influenza</b> (subset, 30,538 US influenza deaths); CT	-- 327
1925 -- <b>measles</b> (subset of 2,404 measles deaths in 40 "registration" states); CT	-- 40
1925 -- <b>meningococcus meningitis</b> (subset, 1,095 US meningitis deaths); CT	-- 14
1925 -- <b>polio</b> (subset, 1,518 US polio deaths); CT	-- 19
1925 -- <b>scarlet fever</b> (subset of 2,762 US scarlet fever deaths, 48 states); CT	-- 46
1925 -- <b>tuberculosis</b> (subset, 89,268 US tuberculosis deaths); CT	--1,160
1925 -- <b>typhoid/paratyphoid fever</b> (subset of 8,287 US typhoid fever deaths); CT	-- 40
1925 -- <b>whooping cough</b> (subset, 6,948 US whooping cough deaths); CT	-- 113
1927 -- <b>polio</b> (acute) esp. late summer and fall (subset, 2,013 US polio deaths); CT	-- 16

**Connecticut (continued):**

1931 --	<b>influenza</b> (subset of 31,701 US influenza deaths); CT	-- 260
1931 --	<b>measles</b> , especially children (subset, 3,576 US measles deaths); CT	-- 38
1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths; CT	-- 901
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; CT, 2.7	-- 44
1939 --	<b>influenza and pneumonia</b> (subset, 99,097 US influenza/pneumonia deaths); CT	-- 869
1939 --	<b>tuberculosis</b> (subset of 61,609 US tuberculosis deaths); CT	-- 561
1939 --	<b>whooping cough</b> (subset of 3,026 US whooping cough deaths); CT	-- 22
1940 --	<b>influenza and pneumonia</b> (subset of 92,525 US flu and pneumonia deaths); CT	-- 670
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); CT death rate 9.1	-- 156
1940 --	<b>tuberculosis</b> (subset of 55,576 US tuberculosis deaths); CT	-- 564
1942 --	Feb 11, <b>plane crash</b> , USAAF Lockheed A-29, Bradley Field, East Granby, CT	-- 6
1944 --	<b>cerebrospinal meningitis</b> (2,812 US cerebrospinal meningitis deaths) CT	-- 56
1944 --	<b>tuberculosis</b> (State subset of 54,731 tuberculosis deaths nationwide); CT	-- 661
1944 --	<b>whooping cough</b> ; subset of 1,878 whooping cough deaths nationwide; CT	-- 14
1944 --	Sep 15, <b>Great Atlantic Hurricane</b> , CT	-- 3-6
1946 --	<b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths; CT	-- 17
1947 --	Feb 20-22, <b>snow-storm</b> , CT	-- 5-8
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths; CT	-- 31
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths; CT	-- 22
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths; CT	-- 11
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths; CT subset	-- 22
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, CT subset	-- 280
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; CT subset	-- 223
1953 --	<b>influenza</b> ; 9,500 US deaths; CT subset	-- 20
1953 --	<b>polio</b> , subset of 1,450 polio deaths nationwide; CT subset	-- 16
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; CT subset	-- 207
1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; CT subset	-- 10
1954 --	<b>measles</b> ; 524 US deaths; 21 states double digits; CT subset	-- 7
1954 --	<b>polio</b> , acute; 1,400 US deaths; CT subset	-- 10
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; CT subset	-- 144
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; CT subset	-- 150
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US TB deaths; CT subset	-- 127
1956 --	Mar 16 & 18, <b>snowstorms</b> ; US deaths in 14 states 95-138; CT	-- 7-9
1956 --	Dec 23, <b>fire</b> , downtown apartment bldg., mother, four children, Meriden, CT	-- 5
1957 --	<b>influenza</b> ; 7,463 US deaths; CT subset	-- 33
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; CT subset	-- 105
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; CT subset	-- 140
1958 --	Jan 07-08, <b>winter storm</b> (snow-related fatalities in 9 localities), CT	-- 9
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; CT subset	-- 116
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; CT death rate 1.0	-- 25
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; CT death rate 3.9	-- 100
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100K; CT death rate 4.0	-- 105
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; CT death rate 4.0	-- 103
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; CT death rate 1.6	-- 42



**Connecticut (continued):**

1963 --	tuberculosis	, 9311 US deaths/death rate 4.9 per 100K pop.;	CT death rate 3.2	--	86
1964 --	tuberculosis	; US deaths 8,303/death rate 4.3 per 100K;	CT death rate 2.5	--	69
1965 --	influenza	, 2,295 US deaths/death rate 1.2 per 100K;	CT death rate 0.6	--	18
1965 --	tuberculosis	, 7,934 US deaths, death rate 4.1 per 100K;	CT death rate 3.0	--	84
1966 --	tuberculosis	, 7,625 US TB deaths; subset for CT		--	75
1968 --	excessive natural cold	; ICD-8 code E901; subset of 494 of US cold deaths;	CT	--	7
1968 --	excessive natural heat	, ICD-8 code E900; subset of 231 US heat deaths;	CT	--	5
1968 --	influenza	, ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K;	CT 2.9	--	87
1968 --	tuberculosis	, 6,292 US deaths/death rate 3.15 per 100K;	CT death rate 1.47	--	44
1968 --	Dec 1-Feb 8, 1969, A2/Hong Kong	influenza-pneumonia	epidemic, CT <sup>145</sup>	--	183
1969 --	influenza	, ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K;	CT 2.42	--	73
1969 --	tuberculosis	; 5,567 US deaths/death rate 2.76 per 100K;	CT death rate 1.62	--	49
1969 --	June 14, private	Beechcraft (4) and Piper (5) collide	in haze, off Waterford, CT	--	all 9
1970 --	influenza	; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K;	CT 0.59	--	18
1970 --	tuberculosis	; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K;	CT 1.62	--	49
1971 --	tuberculosis	; 4,501 US deaths/death rate 2.18 per 100K;	CT death rate 1.34	--	41
1972 --	influenza	, ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K;	CT rate 2.09	--	64
1972 --	tuberculosis	; 4,376 US deaths, death rate 2.09 per 100K;	CT death rate 1.76	--	54
1973 --	influenza	; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43;	CT rate 1.7	--	52
1973 --	tuberculosis	; 3,875 US deaths/death rate 1.84 per 100K;	CT 1.05 per 100K	--	32
1974 --	tuberculosis	; 3,513 US TB deaths/death rate 1.65 per 100K;	CT rate 1.01	--	31
1975 --	chickenpox	(varicella); 83 US deaths/death rate 0.039 per 100K;	CT rate 0.162	--	5
1975 --	influenza	, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K;	CT, 1.07	--	33
1975 --	tuberculosis	; 3,333 US TB deaths/death rate 1.55 per 100K;	CT death rate 0.78	--	24
1976 --	tuberculosis	; 3,130 US TB deaths/death rate 1.44 per 100K;	CT death rate 1.04	--	32
1977 --	excessive natural heat	, ICD-8 E900, esp. summer, US death rate 0.14, CT, 0.29		--	9
1977 --	influenza	; 1,305 US flu deaths/death rate 0.59 per 100K;	CT death rate 1.16	--	5
1977 --	tuberculosis	; 2,968 US TB deaths/death rate 1.35 per 100K;	CT, 0.71	--	22
1978 --	chickenpox	(Varicella); 91 US deaths/death rate 0.04 per 100K, CT, 0.16		--	5
1978 --	influenza	, 4,052 US flu deaths/death rate 1.82 per 100K;	CT, 1.78	--	55
1978 --	tuberculosis	, 2,914 US TB deaths/death rate 1.31 per 100K;	CT, 1.00	--	31
1978 --	Feb 06-07,	blizzard	, CT	--	5-9
1979 --	tuberculosis	, 2,007 US TB deaths/death rate 0.89 per 100K;	CT, 0.39	--	12
1980 --	tuberculosis	; 1,978 US TB deaths/death rate 0.87 per 100K;	CT, 0.55	--	17
1982 --	tuberculosis	, 1,807 US TB deaths/death rate 0.78 per 100K, CT, 0.54		--	17
1982 --	Apr 07-08,	snow, cold and wind	; CT	--	4-5
1983 --	influenza	, 1,431 US flu deaths, death rate 0.61 per 100K, CT, 0.51		--	16
1983 --	tuberculosis	, 1,779 US TB deaths, death rate 0.76 per 100K;	CT, 0.38	--	12
1983 --	Jan 19, driver dozes,	semi	hits cars/fire, toll booth, CT Turnpike, Stratford, CT	--	7
1983 --	Summer	heat	(ICD-9 E900 code, excessive heat/hyperthermia) subset of 597 US)	--	5
1983 --	June 28, eastbound	Mianus River bridge span collapse	, I-95, Greenwich, CT	--	3
1984 --	tuberculosis	, 1,729 US TB deaths, death rate 0.73 per 100K;	CT, 0.47	--	15
1984 --	Summer	heat	(ICD-9 E900 code, excessive heat/hyperthermia) subset of 228	--	6

<sup>145</sup> Just the CDC reporting cities of Bridgeport, Hartford, New Haven and Waterbury.

**Connecticut (continued):**

1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, CT, 0.53	--	17
1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; CT, 0.31	--	10
1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; CT, 0.56	--	18
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; CT, 4.46	--	145
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population: CT, 6.08	--	199
1988 --	<b>tuberculosis</b> ; 1,921 US TB deaths, death rate 0.78 per 100K; CT, 0.40	--	13
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate per 100K 8.9, CT, 7.54	--	248
1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; CT, 0.37	--	12
1991 --	Aug 19-20, <b>Hurricane Bob</b> , esp. Hartford, New Haven, New London, Windham Co's-5-6		
1992 --	<b>tuberculosis</b> ; 1,705 US TB deaths, death rate 0.66 per 100K; CT, 0.36	--	12
1992 --	Dec 11-12, <b>nor'easter</b> , CT	--	5
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K); CT, 0.30	--	10
1894 --	Apr 27, <b>Action Air Charters runway crash</b> (landed too close to end), Sikorsky Mem. AP CT--8		
1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K; CT, 0.33	--	11
1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; CT, 0.33	--	11
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; CT, 0.413	--	14
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; CT, 0.587	--	20
2003 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; CT, 0.545	--	19
2008 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; CT, 0.45	--	16
2010 --	<b>viral hepatitis</b> , ICD-10 code B-15-19; US death rate 2.4 per 100K; CT, 1.5	--	53
2010 --	Aug 03, workplace <b>shootings</b> , worker kills 8 coworkers/self, Manchester, CT	--	9
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; CT, 1.6	--	57
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; CT, 1.9	--	68
2012 --	Oct 29-30, <b>Hurricane Sandy</b> , CT (subset of 154-155 U.S. deaths)	--	6
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; CT, 1.9	--	67
2013 --	Feb 08-9, <b>winter storm Nemo</b> , Bridgeport, Danbury, New Milford, Prospect, Sheldon--		5
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; CT rate 1.7--		62
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US & CT death rate 0.8 per 100K	--	25
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; CT, 1.6	--	58
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; CT rate 1.7	--	61
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; CT, 1.1	--	39
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rage 1.75 per 100K; CT rate 1.45	--	52
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; CT rate 1.46	--	52
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; CT 1.54	--	55
2019 --	Oct 02, Collings Found. <b>B17 Flying Fortress landing crash</b> , Windsor Locks AP, CT--		7
2020 --	<b>HIV/AIDS</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; CT 1.24	--	44
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; CT death rate 1.11	--	40
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	583

**Breakout by Type of Connecticut Large Loss-of-Life Events (10 or more fatalities):**

95 -- **Disease**, especially communicable, especially epidemics. (Plus 168 in "Other.")

**Connecticut (continued):**

- 13 -- **Winter Weather and Hypothermia** (exposure to excessive cold).<sup>146</sup> (10 events 5-9 deaths)
- 11 -- **Rail**. (Includes 1921 event with all deaths from fire; plus **one** with 7 deaths in “Other.”)
- 10 -- **Fire, structural**. (Plus **three** – one with 9 and two with 5 deaths in “Other.”)
- 9 -- **Maritime and Inland Water craft**.
- 8 -- **Structural Failures (including dam and bridge failures)**.
- 7 -- **Violence**. (Plus **two** – one with 4 deaths in 1920, one with 9 deaths in 2010 in “Other.”)
- 6 -- **Heat**. (Plus 4 years 5-9 deaths: 5 in 1968, 9 in 1977, 5 in 1983 and 6 in 1984.)
- 3 -- **Aviation**. (Plus 4 events with 6-9 deaths: 1 with six, 1 with seven, 1 with 8, and 1 with 9.)
- 2 -- **Flooding**.
- 2 -- **Fog as a contributing factor**. (Cross-listed in Maritime and in Rail.)
- 1 -- **Explosion**. (Plus **one** with 5 deaths in “Other.”)
- 1 -- **Hurricane**. (Plus **two** with 5-6 deaths and one with 3-6 deaths in “Other.”)
- 1 -- **Tornado**
- 1 -- **Wood Alcohol Poisoning**.
- 0 -- **Vehicular – Road/highway** (But one with 7 fatalities in “Other.”)

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<sup>146</sup> Includes Nor’easter of 10-29-2011.

## DE

## Delaware

1. 1632 -- **massacre**, Natives attack Fort Zwaanendael (Lewes), first Dutch colony, DE -- 32
2. 1785 -- Sep 02, immigrant ship **Faithful Steward** sinks, near Cape Henlopen, DE -- >200
3. 1798 -- **yellow fever** outbreak, Wilmington, DE -- 255
4. 1802 -- **yellow fever** outbreak, Wilmington, DE -- 86
5. 1818 -- Mar 19, **explosion**, Du Pont Gun Powder Mill, Brandywine, DE -- 40
6. 1832 -- Aug 7-26, **cholera** outbreak, New Castle and esp. Wilmington, DE -- 50
7. 1847 -- Apr 14, **explosion**, Du Pont Powder Works, Brandywine Ri., Wilmington, DE-- 18
8. 1849 -- summer-fall, especially July, **cholera**, especially Wilmington (65), DE -- 95
9. 1850 -- Nov 7, steamboat **Telegraph** boiler explosion, off New Castle, DE -- 15
10. 1860 -- **scarlet fever** (subset of 26,402 deaths in 38 Census States & DC); DE -- 74
11. 1860 -- **tuberculosis**, reported as "consumption" (subset of 49,082 US TB deaths)<sup>147</sup> -- 201
12. 1863 -- Sep-Nov esp., **smallpox**, Confederate POWs, Ft. Delaware, Delaware City --272-450
13. 1863 -- Aug-Jun 1865, **diarrhea & dysentery**, Confederate POWs, Fort Delaware, DE-- 644
14. 1863 -- Aug-June 1865 (23 months), **scurvy**, Confederate POWs, Fort Delaware, DE -- 94
15. 1866 -- **cholera**, Delaware City, DE -- 30
16. 1870 -- **typhoid fever** (subset of 22,187 US typhoid fever deaths); DC -- 91
17. 1878 -- Oct 21-23, **hurricane**, DE -- 18
18. 1879 -- Nov 08, steamer **Champion** collision with British Bark, Cape Henlopen. DE --31-32
19. 1881 -- Jan-Dec 7, **smallpox**, Wilmington, DE -- 118
20. 1883 -- Jan-Dec, **smallpox**, Wilmington, DE -- 81
21. 1888 -- Mar 11-14, **blizzard**, DE (Maritime) -- 25
22. 1889 -- June-May 1890, **typhoid fever**, subset of 27,058 US typhoid deaths, DE -- 102
23. 1889 -- Sep 09-10, **hurricane**, Lewes, Delaware Bay, Delaware Capes, DE --39-50
24. 1889 -- Nov 20, stmr. **Manhattan** sinks, collision, sch. *Agnes Manning*, off Fenwick Isl., DE--12
25. 1890 -- Jan-Feb (two months), **influenza** (La Grippe/Russian Flu), Wilmington, DE -- 108
26. 1902 -- Aug 20, **explosion**, wood digesters, Delaware Pulp Mills, Wilmington, DE -- 17
27. 1903 -- Sep 15-17, **hurricane**, DE Maritime -- 31
28. 1910 -- **typhoid**; subset, 12,673 US deaths/21 states/death rate 23.5; Wilmington, 37.7-- 33
29. 1910 -- Feb 06, US Navy tug **Nina** departs Norfolk, lost in gale, Fenwick Isl. Shoals, DE--31-33
30. 1915 -- Apr 03, storm, **Cumberland** and **two barges** wreck, Cape Henlopen, DE -- 10
31. 1915 -- Nov 30, **explosion**, Upper Hagley Yard, du Pont Powder Co., ~Wilmington, DE-- 31
32. 1918 -- Feb 26, U.S. Naval tug, **Cherokee**, founders, storm, Delaware Capes, DE -- 30
33. 1918 -- May 01, steamship **City of Athens** sinks after collision off coast of DE -- 67
34. 1918-19 -- **influenza and pneumonia** epidemic, DE --2,013
  - 1918 -- **influenza and pneumonia** epidemic, DE --1,505
  - 1919 -- Jan-Apr, **influenza and pneumonia** epidemic, DE -- 508
35. 1920 -- **influenza/pneumonia**; subset, 141,609 to 220,798 US flu/pneumonia deaths; DE--68
36. 1920 -- **scarlet fever** (subset, 4,004 scarlet fever deaths, 34 registration states); DE<sup>148</sup> -- 33
37. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; DE, 6.3 -- 15
38. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); DE death rate 21.8 -- 58
39. 1942 -- Feb 02, US tanker **W.L. Steed** sunk by U-boat, ~90m off Delaware River mouth, DE-34
40. 1943 -- Nov 21, tanker **Altair/20** hit by tanker *Bostonian*, fog, 58m off Cape Henlopen DE--20

<sup>147</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>148</sup> DE had highest death rate of 34 reg. states, at 14.7 per 100,000; avg. was 4.6. Wilmington was 24.31 per 100,000



**Delaware (continued):**

41.	1952 --	May 25, tankers <b>A. C. Dodge</b> and <b>Michael</b> collide, explos./fire, Delaware Riv., DE--	10
42.	1957 --	Mar 6, USN tanker <i>Mission San Francisco &amp; Elna II</i> collide/ <i>MSF</i> explodes, Delaware Riv. DE--	10
43.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia pandemic</b> (US 116K) --	144
44.	1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100K; DE death rate 5.7 --	26
45.	1963 --	<b>tuberculosis</b> , 9,311 US deaths/death rate 4.9 per 100K pop.; DE death rate 5.9--	28
46.	1963 --	Sep 22, USAF C-133A <b>Cargomaster crash</b> , Atlantic SE of Dover AFB, DE --	10
47.	1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; DE death rate 6.3 --	31
48.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; death rate higher than US average; DE --	19
49.	1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; DE 3.60 --	19
50.	1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; DE 2.97 --	16
51.	1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; DE 3.3--	18
52.	1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; DE/2.30 --	13
53.	1972 --	<b>tuberculosis</b> ; 4,376 US TB deaths/death rate 2.09 per 100K; SW, 4.19 --	24
54.	1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; DE 2.06 --	12
55.	1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; Dem 1,87 --	11
56.	1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; DE rate 2.03 --	12
57.	1996 --	Jan 7-8, <b>snow storm/blizzard</b> , DE --	10
58.	2001 --	Jan 03, single family dwelling <b>fire</b> , Oak Orchard, Sussex County, DE --	11
59.	2005 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; DE, 1.302 --	11
60.	2010 --	<b>diarrhoea and gastroenteritis</b> of infections origin (ICD-10 code A09) <sup>149</sup> --	10
61.	2010 --	<b>viral hepatitis</b> , ICD-10 code B-15-19; US death rate 2.4 per 100K; DE, 3.6 --	30
62.	2011 --	<b>diarrhoea and gastroenteritis</b> of infections origin (ICD-10 code A09) <sup>150</sup> --	10
63.	2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; DE, 3.6 --	33
64.	2013 --	<b>diarrhoea and gastroenteritis</b> of infections origin (ICD-10 code A09) <sup>151</sup> --	11
65.	2015 --	<b>diarrhoea and gastroenteritis</b> of infections origin (ICD-10 code A09) <sup>152</sup> --	12
66.	2015 --	<b>influenza</b> ; CT subset; 1.6 death rate per 100K pop.; DE rate 2.4 --	23
67.	2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; DE rate 2.08 --	20
68.	2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; DE rate 2.58 --	25
69.	2020 --	<b>HIV/AIDS</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; DE 2.03 --	20
70.	2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); DE 951 per 1M pop. --	926
71.	2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; DE, 2.3 per M --	1,360
72.	2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; DE death rate 2.19 --	22
73.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; DE death rate 9.45 --	920

**Some Select/Notable Delaware Other Large Loss-of-Life Events:<sup>153</sup>**

1850 --	<b>croup</b> ; subset, 10,706 deaths/36 States/DC/Territories, and 1,209 DE deaths --	28
1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571--	68

<sup>149</sup> National death rate was 0.9 per 100,000. DE had above average death rate of 1.1.

<sup>150</sup> National death rate was 0.9 per 100,000. DE had above average death rate of 1.1.

<sup>151</sup> National death rate was 0.8 per 100,000. DE had above average death rate of 1.2.

<sup>152</sup> National death rate was 0.8 per 100,000. DE had above average death rate of 1.3.

<sup>153</sup> We include in "Other" two categories: (1) events wherein fewer than 10 lives were lost, but which we take note, and (2) diseases that caused more than ten lives lost, but perhaps not at an epidemic level (subjective judgement) and generally below US or "Registration Area" average death rate when we have those statistics.

Some Select/Other **Delaware** Large Loss of Life Events (continued):

1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), AL	--	38
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	--	118
1850 --	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	--	34
1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	--	59
1862 --	Jan 15, <b>train</b> goes into canal at open drawbridge near St. George's station, DE	--	7
1870 --	<b>diarrhoea</b> (31), <b>dysentery</b> (20) and <b>enteritis</b> (16); from U.S. Census	--	67
1870 --	<b>tuberculosis</b> (consumption) (subset of ~70,000 US TB deaths); DE	--	296
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	31
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	56
1879 --	June-May 1880, <b>malarial fever</b> ; DE subset, 20,231 such deaths nationwide	--	20
1879 --	June-May 1880, <b>meningitis</b> ; DE subset of 7,481 meningitis deaths nationwide	--	19
1879 --	June-May 1880, <b>tuberculosis</b> ; DE subset of 91,270 TB deaths nationwide	--	200
1879 --	June-May 1880, <b>typhoid fever</b> ; DE subset of 23,339 U.S. Typhoid deaths)	--	49
1881 --	<b>diphtheria</b> , Wilmington, DE	--	20
1882 --	Jan-May, <b>smallpox</b> , Wilmington, DE	--	13
1889-90, June-May,	<b>croup</b> , (subset of 13,862 U.S. croup deaths)	--	80
1889-90, June-May,	<b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; DE	--	83
1889-90, June-May,	<b>measles</b> , subset of 9,256 US measles deaths	--	31
1891 --	Oct 22, gale, fishing schooner <b>Red Wing</b> breaks in surf, ~Indian River Inlet, DE	--	6
1897 --	<b>typhoid fever</b> , subset of >9,192 US typhoid deaths, Wilmington, DE	--	14
1900 --	<b>croup</b> (upper airway contagious viral infection; subset, 12,484 US croup deaths; DE--	--	33
1900 --	<b>diphtheria</b> (subset of 16,475 US diphtheria deaths in 1900): DE	--	111
1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900): DE	--	21
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths), DE	--	29
1900 --	<b>malarial fever</b> (subset of 14,874 US malarial fever deaths), DE	--	19
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths). DE	--	73
1900 --	<b>tuberculosis</b> (3,075 DE deaths all causes) (109,750 US tuberculosis deaths); DE	--	382
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths); DE	--	15
1907 --	<b>tuberculosis of the lungs</b> ; subset of 76,650 US TB deaths; just Wilmington, DE	--	156
1907 --	<b>typhoid fever</b> , Wilmington; subset of ~13K census area typhoid area deaths; DE	--	44
1909 --	Feb 22, <b>trains collide in fog</b> , Delmar, DE	--	7
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; Wilmington, DE, 16.2	--	15
1920 --	<b>diphtheria and croup</b> (subset of 13,395 such deaths in 34 registration states); DE --	--	27
1920 --	<b>measles</b> (subset of 7,712 measles deaths in 34 registration states); DE	--	36
1920 --	<b>typhoid fever</b> (subset, 6,805 typhoid fever deaths in 34 registration states); DE	--	25
1920 --	<b>whooping cough</b> (subset, 10,968 whooping cough deaths in 34 reg. states); DE	--	30
1925 --	<b>anthrax</b> (subset, 2 <sup>nd</sup> highest, behind PA/4, of 22 US anthrax deaths); DE	--	3
1925 --	<b>diphtheria</b> (subset, 8,058 US diphtheria deaths); DE	--	30
1925 --	<b>influenza</b> (subset, 30,538 US influenza deaths); DE	--	56
1925 --	<b>tuberculosis</b> (subset, 89,268 US tuberculosis deaths); DE	--	239
1925 --	<b>typhoid/paratyphoid fever</b> (subset of 8,287 US typhoid fever deaths); DE	--	26
1925 --	<b>whooping cough</b> ; 6,948 US whooping cough deaths; DE subset	--	17
1931 --	<b>measles</b> , especially children; 3,576 US measles deaths; DE subset	--	20
1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths; DE subset	--	218

**Delaware – continued:**

1947 -- Nov 18, <b>Trans World Air landing crash</b> on training flight/fire, ~New Castle, DE--	all 5
1951 -- <b>tuberculosis</b> (respiratory), 31,163 US deaths, DE subset	-- 64
1952 -- <b>polio</b> , subset of ~3,300 US polio deaths; DE subset	-- 7
1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for DE	-- 46
1953 -- <b>influenza</b> ; 9,500 US deaths; subset for DE	-- 10
1953 -- <b>tuberculosis</b> (respiratory); 17,954 US deaths; DE subset	-- 58
1954 -- <b>tuberculosis</b> (respiratory); 15,146 US deaths; DE subset	-- 37
1955 -- <b>tuberculosis</b> (respiratory); 13,676 US TB deaths; DE subset	-- 38
1956 -- <b>tuberculosis</b> (respiratory), 12,978 US TB deaths; DE subset	-- 30
1957 -- <b>tuberculosis</b> (respiratory); 12,384 US deaths; DE subset	-- 46
1958 -- <b>tuberculosis</b> ; 12,361 US TB deaths; DE subset	-- 38
1959 -- <b>tuberculosis</b> ; 11,456 US TB deaths; DE subset	-- 24
1960 -- <b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; DE death rate 5.6	-- 25
1960 -- Nov 08, Synvar Corp. resin products plant dust explosion and fire, Wilmington, DE--	5
1962 -- <b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; DE 4.9	-- 23
1962 -- Mar 05-08, Ash Wednesday Nor'easter, esp. mid-Atlantic states, 52 deaths, DE	-- 7
1962 -- May 27, Dover AFB USAF C133 Cargomaster <b>plane crash</b> , Atlantic off Dover, DE--	6
1963 -- <b>influenza</b> , 7,083 US deaths/death rate 3.8; DE death rate 2.1	-- 10
1965 -- <b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; DE death rate 4.0	-- 20
1966 -- Jan 29-30, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; DE	-- 6
1968 -- Dec 29-Feb 1, A2 Hong Kong <b>influenza-pneumonia</b> epidemic, Wilmington, DC	-- 30
1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; DE 1.40--	8
1980 -- <b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; DE death rate 1.34	-- 8
1983 -- <b>tuberculosis</b> , 1,779 US TB deaths/death rate 0.76 per 100K; DE rate 1.16	-- 7
1984 -- <b>tuberculosis</b> , 1,729 US TB deaths/death rate 0.73 per 100K; DE rate 0.82	-- 5
1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, DE rate 1.29	-- 8
1986 -- <b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; DE rate 1.43	-- 9
1987 -- <b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; DE rate 4.08	-- 26
1988 -- <b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population: DE rate 4.01	-- 26
1989 -- <b>HIV AIDS</b> ; 22,082 US deaths, death rate per 100K 8.9, DE death rate 5.76	-- 38
2012 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100K; DE, 2.4	-- 22
2013 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100K; DE, 2.4	-- 22
2014 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; DE, 1.8	-- 17
2015 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; DE, 1.3	-- 12
2016 -- <b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; DE rate 1.8	-- 17
2016 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; DE, 1.5	-- 14
2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; DE subset	-- 16
2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; DE subset	-- 17
2020 -- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; DE subset	-- 17
2023 -- <b>COVID-19</b> , subset of 71,691 US deaths	-- 414

**Breakout by Type of Delaware Large Loss of Life Events (10 or more fatalities):**

46 -- **Disease**, select communicable, especially epidemics. (Plus 80 in "Other.")

**Delaware (continued):**

- 12 -- **Maritime and Inland waterways.** (Plus one with six fatalities in "Other.")
- 4 -- **Explosions.** (Plus Nov 1960 dust explosion, 5 killed.)
- 3 -- **Hurricanes**
- 3 -- **Winter Weather; Hypothermia.** Plus: March 1962/7 deaths; Jan 29-30, 1966/6 deaths.
- 1 -- **Aviation** (We also note two events with 5 and 6 deaths each.)
- 1 -- **Fire, structural.**
- 1 -- **Fog as contributing factor.**
- 1 -- **Violence.**
- 0 -- **Rail.** (Train going into canal in 1862 took 7 lives and train collision in 1909 took 7 lives.)



## DC

## District of Columbia

1. 1793 -- **dysentery** epidemic “swept away many hundreds,” Georgetown, DC vic. --Hundreds
2. 1814 -- Aug 25, **tornado**, primarily invading British Troops, Washington, D.C. -- ~30
3. 1832 -- Aug 18-Oct 1, **cholera** epidemic, D.C. --193-500
4. 1864 -- June 17, **explosion/fire**, Washington Arsenal, Greenleaf Pt.,<sup>154</sup> District of Col.-- 21
5. 1850 -- **cholera**, D.C. -- 49
6. 1857 -- Jan (beginning), **“National Hotel Disease,” dysentery?**, Washington, DC -- >36
7. 1860 -- **scarlet fever** (subset of 26,402 deaths in 38 Census States & DC) -- 61
8. 1863 -- **smallpox**, escaped and freed former slaves; DC -- ~700
9. 1868 -- July 13-17, **heatwave**, DC -- ≤10
10. 1870 -- **diarrhoea** (80), **dysentery** (31), **enteritis** (26); from U.S. Census Office; DC -- 137
11. 1872 -- **smallpox**, became epidemic after slow start (2 deaths Jan, 4 in Feb); DC -- 75
12. 1880 -- Jan-March 20, **smallpox**, DC -- 17
13. 1881 -- **diphtheria**, DC -- 107
14. 1882 -- **typhoid fever**, Washington, DC -- 120
15. 1885 -- **diphtheria and croup**, DC -- 113
16. 1885 -- **typhoid fever**, Washington, DC -- 124
17. 1886 -- **typhoid fever**, Washington, DC -- 125
18. 1887 -- **typhoid fever**, Washington, DC -- 116
19. 1888 -- **typhoid fever**, Washington, DC -- 168
20. 1889-90--June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths -- 200
21. 1891 -- **typhoid fever**, Washington, DC -- 208
22. 1892 -- **typhoid fever**, Washington, DC -- 183
23. 1893 -- **typhoid fever**, Washington, DC -- 186
24. 1893 -- June 09, **building collapse**, Ford’s Theater, Washington, DC -- 22
25. 1894 -- **diphtheria**, especially children; DC subset of ≥14,606 US diphtheria deaths -- 124
26. 1896 -- **measles** epidemic, DC -- 69
27. 1896 -- Aug 09-11, **heatwave**, DC -- 13
28. 1897 -- **typhoid fever**, subset of >9,192 US typhoid deaths -- 121
29. 1898 -- **typhoid fever**, Washington, DC -- 182
30. 1900 -- **diphtheria** (subset of 16,475 US diphtheria deaths in 1900); DC -- 193
31. 1900 -- **tuberculosis** (6,364 DC deaths all causes) (109,750 US tuberculosis deaths); DC--851
32. 1900 -- **typhoid fever** (subset of 35,379 US typhoid fever deaths); DC -- 225
33. 1901 -- June-July (especially), **heat waves** (subset of 4,012 US heat deaths) -- 73
34. 1905 -- **tuberculosis**, subset, 56,770 registration area deaths (10 states/135 cities)<sup>155</sup> -- 832
35. 1906 -- Dec 30, **trains collide**, Terra Cotta (now Fort Totten) Station, Wash. DC --53-59
36. 1907 -- **tuberculosis of the lungs**; subset of 76,650 US TB deaths, DC -- 768
37. 1907 -- **typhoid fever**; subset of ~13K, census area typhoid fever deaths; DC -- 111
38. 1911 -- July 03-10, **heat wave**, DC -- 28
39. 1917 -- **influenza**; 12,974 US influenza deaths/death rate 17.2 per 100K; DC, 23.3 -- 86
40. 1918-19 -- **influenza and pneumonia** epidemic, DC --3,316
  - 1918 -- Sep-Dec, 1918, **influenza and pneumonia** epidemic, DC --2,572
  - 1919 -- Jan-Apr, **influenza and Pneumonia** epidemic, DC -- 744

<sup>154</sup> Now part of Fort McNair between the Washington Channel to the west and the Anacostia River to the southeast.

<sup>155</sup> DC, with TB death rate of 274.6 per 100K, had 4<sup>th</sup> highest large city death rate in US; average was 168.2.

**District of Columbia (continued):**

41.	1919 --	<b>diphtheria</b> (9,160 US diphtheria deaths; 0.28 avg. death rate); DC higher rate than any State--	119
42.	1920 --	Jan-Mar, <b>influenza and pneumonia</b> epidemic, DC	-- 749
43.	1922 --	Jan 28, <b>roof collapse, snow weight</b> , Knickerbocker Theater, Washington, DC--	98
44.	1925 --	exposure to <b>excessive natural heat</b> ; DC	-- 10
45.	1925 --	<b>smallpox</b> (subset, 709 US smallpox deaths); DC	-- 20
46.	1930 --	summer, <b>heat wave</b> , District of Columbia	-- 30
47.	1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths; DC	-- 593
48.	1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; DC, 6.1	-- 30
49.	1934 --	summer, <b>excessive natural heat</b> deaths; subset of 3,250 US heat deaths; DC	-- 11
50.	1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); DC death rate 25.0	-- 166
51.	1949 --	Nov 01, <b>Eastern Air 537 &amp; Lockheed P-38 collide</b> , So. of National AP, VA <sup>156</sup> --	55
52.	1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, DC subset	-- 235
53.	1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for DC	-- 181
54.	1953 --	<b>excessive natural heat</b> , (code E931), 576 US heat deaths, esp. Aug 22-Sep 5	-- 17
55.	1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for DC	-- 155
56.	1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; DC subset	-- 100
57.	1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; DC subset	-- 97
58.	1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; DC 16.9--	93
59.	1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths/death rate 7.8 per 100K; DC 14.0--	77
60.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	-- 406
61.	1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths/death rate 7.1 per 100K; DC 16.0	-- 103
62.	1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths/death rate 6.0 per 100K; DC 14.6	-- 92
63.	1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; DC death rate 11.8	-- 90
64.	1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; DC death rate 13.4	-- 102
65.	1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; DC 11.9/US high--	93
66.	1963 --	<b>tuberculosis</b> , 9,311 US deaths/death rate 4.9 per 100K pop.; DC death rate 12.3--	98
67.	1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; DC death rate 12.0	-- 97
68.	1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; DC death rate 12.7 <sup>157</sup> --	102
69.	1965 --	July 27-Aug, <b>"Legionnaires' Disease"</b> outbreak, St. Elizabeth's Hospital, DC--	14
70.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; DC death rate higher than US average	-- 93
71.	1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; DC 10.87 <sup>158</sup>	-- 84
72.	1968 --	Apr 04-11, Martin Luther King Jr. assassination <b>rioting</b> , DC	-- 9-13
73.	1968 --	Dec 15-Mar 29, A2 Hong Kong <b>influenza-pneumonia</b> epidemic	-- 199
74.	1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; DC 9.55 (US high)	-- 73
75.	1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; DC 6.8--	52
76.	1971 --	<b>tuberculosis</b> ; 4,501 US deaths/death rate 2.18 per 100K; DC/5.84 (US high)	-- 44
77.	1972 --	<b>excessive natural heat</b> ; ICD-8 code E900; 234 US deaths; DC	-- 16
78.	1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; DC 4.83 (US high)	-- 36
79.	1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; DC 5.4 (US high)	-- 37
80.	1974 --	<b>tuberculosis</b> ; 3,513 US deaths/death rate 1.65 per 100K; DC 5.13 (US high)	-- 37

<sup>156</sup> Cross listed here, though it appears that the collision occurred over VA near the Potomac, in that half of Eastern 537 fell into the Potomac, which is within the boundary of DC.

<sup>157</sup> A higher death rate than any State.

<sup>158</sup> A higher death rate than any State.

**District of Columbia (continued):**

81.	1975	--	tuberculosis	; 3,333 US deaths/death rate 1.55 per 100K; DC, 3.8 (US high)	--	27
82.	1976	--	tuberculosis	; 3,130 US TB deaths/death rate 1.44 per 100K; DC, 4.01	--	28
83.	1977	--	tuberculosis	; 2,968 US TB deaths/death rate 1.35 per 100K; DC, 4.24	--	29
84.	1978	--	tuberculosis	; 2,914 US TB deaths/death rate 1.31 per 100K; DC, 4.02	--	27
85.	1979	--	tuberculosis	; 2,007 US TB deaths/death rate 0.89 per 100K; DC, 2.74	--	18
86.	1979	--	Apr 11, fire	, Halfway House (mental impairment), Lamont St., Wash. DC	--	10
87.	1980	--	tuberculosis	; 1,978 US TB deaths/death rate 0.87 per 100K; DC, 4.21	--	27
88.	1981	--	tuberculosis	; 1,937 US TB deaths/death rate 0.84 per 100K; DC, 1.57	--	10
89.	1982	--	tuberculosis	; 1,807 US TB deaths/death rate 0.78 per 100K, DC, 2.83	--	18
90.	1982	--	Jan 13, plane crash	, Air Florida, Potomac River, Washington, DC	--	78
91.	1983	--	tuberculosis	; 1,779 US TB deaths/death rate 0.76 per 100K; DC, 3.63	--	23
92.	1984	--	tuberculosis	; 1,729 US TB deaths, death rate 0.73 per 100K; DC, 3.62	--	23
93.	1985	--	exposure to excessive natural cold/hypothermia	; 519 US deaths; DC	--	10
94.	1985	--	tuberculosis	; 1,752 US TB deaths, death rate 0.74 per 100K; DC, 3.46	--	22
95.	1986	--	tuberculosis	; 1,782 US TB deaths, death rate 0.74 per 100K; DC, 1.72	--	11
96.	1987	--	HIV AIDS	; 13,468 deaths/US death rate 5.55 per 100K; DC, 28.01	--	179
97.	1987	--	tuberculosis	; 1,755 US TB deaths, death rate 0.72 per 100K, DC, 2.82	--	18
98.	1988	--	HIV AIDS	; 16,602 deaths/US death rate 6.8 per 100K population: DC, 39.02	--	247
99.	1988	--	tuberculosis	; 1,921 US TB deaths, death rate 0,78 per 100K; DC rate 2.05	--	13
100.	1989	--	HIV AIDS	; 22,082 US deaths, death rate 8.9 per 100K; DC rate 55.72	--	350
101.	1989	--	tuberculosis	; 1,970 US TB deaths, death rate 0.80 per 100K; DC rate 2.55	--	16
102.	1990	--	tuberculosis	; 1,810 US TB deaths, death rate 0.73 per 100K, DC rate 1.97	--	12
103.	1991	--	tuberculosis	; 1,713 US TB deaths, death rate 0.68 per 100K, DC rate 2.32	--	14
104.	1993	--	tuberculosis	; 1,631 US TB deaths, death rate 0.63 per 100K; DC rate 2.51	--	15
105.	1994	--	tuberculosis	; 1,478 US TB deaths; death rate 0.56 per 100K; DC rate 1.86	--	11
106.	1995	--	tuberculosis	; 1,336 US deaths; death rate 0.5 per 100K; DC, 1.89 (US high)--	11	
107.	1995	--	July 14-31, heat waves	, DC	--	18
108.	1996	--	tuberculosis	; 1,202 US TB deaths, death rate 0.45 per 100K; DC, 1.92	--	11
109.	2001	--	tuberculosis	; US TB death rate 0.27 per 100K; DC, 1.74 (higher than any state)--	10	
110.	2002	--	Oct 02-24, DC Beltway Sniper Killings	, Washington DC Metro Area	--	10
111.	2010	--	viral hepatitis	; ICD-10 code B15-B19; US death rate 2.4 per 100K; DC, 4.0--	24	
112.	2011	--	exposure to excessive natural heat	, 1,060 US deaths, subset for DC	--	13
113.	2011	--	viral hepatitis	; US death rate 2.5 per 100K; DC 7.1 (higher than any State)	--	44
114.	2012	--	viral hepatitis	; ICD-10 code B15-B19, US death rate 2.6 per 100K; DC 4.6	--	29
115.	2013	--	viral hepatitis	; ICD-10 code B15-B19; US death rate 2.6 per 100K; DC 5.9	--	38
116.	2013	--	Sep 16, Navy Yard mass shooting	, Washington, DC <sup>159</sup>	--	13
117.	2014	--	viral hepatitis	; ICD-10 code B15-B19, US death rate 2.5 per 100K; DC 5.3	--	35
118.	2015	--	viral hepatitis	; US death rate 2.3 per 100K; DC, 6.4 (higher than any State)--	43	
119.	2016	--	HIV AIDS	; 6,160 US deaths/death rate 1.9 per 100,000; DC rate 12.0	--	82
120.	2016	--	viral hepatitis	; US death rate 2.0 per 100K; DC, 4.8 (higher than any State)	--	33
121.	2017	--	HIV/AIDS	; 5,698 US deaths/death rate 1.75 per 100K; DC rate (US high)	--	68
122.	2018	--	HIV/AIDS	; 5,425 US deaths/death rate 1.66 per 100K; DC rate 9.25 <sup>160</sup>	--	65

<sup>159</sup> Gunman with mental health issues killed twelve Navy Yard workers before being killed by police.

<sup>160</sup> DC had higher death rate than any State on the CDC Wonder webpage.

123. 2019 -- **HIV/AIDS**; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; DC, 9.92<sup>161</sup>-- 70  
 124. 2020 -- **HIV**; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; DC 9.40 -- 67  
 125. 2020 -- **COVID-19**; 354,215 US Covid deaths (1,070 per 1M); DC 1,114 per 1M pop.--786  
 126. 2021 -- **COVID-19**; 437,984 US deaths/2.6K deaths per 1M pop.; 1.7K per M -- 425  
 127. 2021 -- **HIV/AIDS**; 4,977 deaths/death rate 1.50 per 100K; DC death rate 7.46/US high--50

### Some Select/Notable Other **District of Columbia** Large Loss-of-Life Events:<sup>162</sup>

- 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 846 total DC deaths -- 29  
 1850 -- **dysentery**; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571-- 58  
 1850 -- **scarlet fever**; subset of 9,584 such deaths 36 States/Territories/DC (average 266) -- 48  
 1850 -- **smallpox**; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65 -- 31  
 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) -- 135  
 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147) -- 20  
 1860 -- **tuberculosis** (“consumption”), leading cause DC deaths; 49,082 US TB deaths -- 255  
 1870 -- **tuberculosis** (Consumption) (DC subset of ~70,000 TB deaths nationwide) -- 442  
 1881 -- **typhoid fever**, Washington, DC -- 67  
 1882 -- Jan-Apr, **smallpox**, DC -- 15  
 1883 -- **typhoid fever**, Washington, DC -- 92  
 1884 -- **typhoid fever**, Washington, DC -- 76  
 1889 -- June-May 1890, **croup**, (subset of 13,862 U.S. croup deaths) -- 45  
 1889-90, June 1-May 31, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; DC -- 143  
 1890 -- **influenza** (La Grippe/Russian Flu)<sup>163</sup> -- >100  
 1889 -- **typhoid fever**, Washington, DC -- 170  
 1894 -- **smallpox**, subset of 1,752 US smallpox deaths; DC -- 10  
 1897 -- **typhoid fever** (subset of approximately 6,000 US typhoid deaths); DC -- 121  
 1900 -- **dysentery** (subset of 11,710 US dysentery deaths in 1900); DC -- 38  
 1900 -- **influenza** (subset, 16,645 US influenza deaths); DC -- 115  
 1900 -- **malarial fever** (subset of 14,874 US malarial fever deaths); DC -- 68  
 1900 -- **measles** (subset of 12,866 US measles deaths); DC -- 38  
 1900 -- **meningitis** (subset, 19,423 US meningitis deaths); DC -- 88  
 1900 -- **scarlet fever** (subset, 6,333 US scarlet fever deaths); DC -- 25  
 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths); DC -- 38  
 1900 -- July-Aug (especially), **heat exposure** (subset of 1,266 US heat deaths) -- 9  
 1902 -- June-Aug (especially July) **excessive natural heat** (subset of 290 heat deaths), DC-- 7  
 1903 -- June-Aug (especially first half July), **excessive heat** (subset of 520 US heat deaths)-- 8  
 1904 -- **epidemic cerebrospinal meningitis**; subset of 3,284 such deaths in US; DC -- 11  
 1906 -- **epidemic cerebrospinal meningitis**, DC -- 15  
 1907 -- **influenza**; 10,066 US flu deaths just in Census Registration States & DC -- 102  
 1910 -- **polio**, especially children, DC -- 16

<sup>161</sup> Higher death rate than any State. Highest state death rate was 3.23 in Florida.

<sup>162</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

<sup>163</sup> DC Health Office reported increase of 412 deaths over the previous year, “which may be readily accounted for by reason of the prevalence of acute influenza, or ‘la grippe,’ during the winter and spring months. The principal increase in mortality is shown to have resulted from lung diseases, such as pneumonia, bronchitis, and congestion of the lungs, having as a fore-runner the influenza referred to.” We translate into an estimate of 100 or more flu deaths.



**District of Columbia (continued):**

1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; DC, 23.2	--	77
1913 --	<b>measles</b> , 8,108 US “registration area” (65.1%) deaths. DC	--	27
1916 --	<b>diphtheria</b> , especially children	--	33
1918 --	<b>typhoid fever</b> (subset of 9,100 US typhoid fever deaths); DC	--	48
1919 --	July 19-23, <b>race riots</b> , Washington, DC	--	6
1920 --	<b>diphtheria and croup</b> (subset, 13,395 such deaths in 34 registration states); DC	--	63
1920 --	<b>typhoid fever</b> (subset, 6,805 typhoid fever deaths in 34 registration states); DC	--	29
1920 --	<b>whooping cough</b> ; subset, 10,968 whooping cough deaths, 34 registration states; DC--	--	18
1925 --	<b>diphtheria</b> (subset, 8,058 US diphtheria deaths in 1925); DC	--	37
1925 --	<b>influenza</b> , (subset of 30,538 US influenza deaths in 1925); DC	--	60
1925 --	<b>tuberculosis</b> (subset, 89,268 US tuberculosis deaths, esp. respiratory system); DC--	--	568
1925 --	<b>typhoid fever</b> (subset of 8,287 US typhoid fever deaths); DC	--	25
1925 --	<b>whooping cough</b> (subset, 6,948 US whooping cough deaths); DC	--	29
1931 --	<b>epidemic cerebrospinal meningitis</b> ; subset, 2,832 US meningitis deaths; DC	--	29
1931 --	<b>diphtheria</b> , especially children (subset, 5,738 U.S. diphtheria deaths); DC	--	36
1931 --	<b>measles</b> , especially children (DC subset, 3,576 measles deaths nationwide)	--	13
1932 --	July 28, US Military <b>engages</b> “Bonus Expeditionary Force” Veterans, DC	--	2
1939 --	<b>influenza and pneumonia</b> (subset, 99,097 US influenza/pneumonia deaths); DC	--	476
1939 --	<b>tuberculosis</b> (subset of 61,609 US tuberculosis deaths); DC	--	498
1940 --	<b>influenza and pneumonia</b> (subset of 92,525 US flu and pneumonia deaths); DC	--	526
1940 --	<b>tuberculosis</b> (subset of 55,576 US tuberculosis deaths); DC	--	503
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/US death rate 2.2 per 100K, DC, 2.0	--	9
1944 --	<b>tuberculosis</b> ; 54,731 US tuberculosis deaths; DC subset	--	547
1949 --	Dec 12, <b>Capital Airlines crash</b> , Potomac, too-slow landing approach to National AP--	--	6
1950 --	Nov 01, Puerto Rican Nationalists <b>try to assassinate</b> President Truman, Blair House, DC--	--	2
1953 --	<b>influenza</b> ; 9,500 US deaths; DC subset	--	16
1954 --	Mar 1, Puerto Rican Nationalists <b>shoot/wound 5</b> , floor of US House of Representatives--0		
1961 --	Feb 01, Mount Vernon Nursing Home <b>fire</b> , Washington, DC	--	7
1963 --	<b>influenza</b> , 7,083 US deaths <sup>164</sup> /death rate 3.8; DC death rate 2.3	--	18
1964 --	Jan 12-14, <b>snowstorm and coldwave</b> , esp. NE US (146-167), DC subset	--	5
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; DC 3.36--	--	26
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; DC/1.4--	--	10
1988 --	summer, especially, <b>exposure to excessive natural heat</b> , Washington, DC	--	8
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., DC subset	--	14
2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; DC death rate 2.83	--	200
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	23

**Breakout by Type of District of Columbia Large Loss-of-Life Events (10 or more deaths):**

- 105-- Disease**, especially communicable, especially epidemics. (Plus 56 in “Other.”)
- 11 -- Heat**. (Plus four – 9 deaths in 1900, 7 in 1902, 8 in 1903 and 8 in 1988.)
- 3 -- Violence**. (Plus 1919 race riot/6, PR Nationalists terrorism in 1950/2), 1954 (5 wounded).
- 2 -- Aviation**. Plus **1**. (1949 collision crash cross listed in VA; half of Eastern 537 fell into Potomac.)

<sup>164</sup> Distinct from the 63,678 pneumonia deaths noted in the next column in Table 1-12.

**District of Columbia (continued):**

- 2 -- **Fire** (one cross-listed in Explosion) (Plus 1961 nursing home fire with 7 deaths.)
- 2 -- **Structural Failures.** (One was roof collapse due to snow weight.)
- 2 -- **Winter Storms/Cold/Hypothermia.**
- 1 -- **Explosion.**
- 1 -- **Rail.**
- 1 -- **Tornado.**

## FL

## Florida

1. 1539 --~Sep 16, Napituca **massacre**, Hernando de Soto executes Timucuan, No. Cen. FL-30-200
2. 1559 -- Sep 19-20, **hurricane**, Spanish ships and colonists, west coast of FL --?-600
3. 1565 -- Sep 20, **massacre**, Spanish troops kill male French colonists, Fort Caroline FL<sup>165</sup>~140
4. 1659 -- **measles** epidemic, Native Americans, FL --10,000
5. 1683 -- **hurricane**, east coast of FL -- 496
6. 1715 -- July 31, **hurricane**, **Spanish ships** ground, Fort Pierce-Wabasso Beach, FL --1,000
7. 1758 -- **hurricane**, San Marcos de Apalache Spanish fortification, St. Marks, FL -- 40
8. 1765 -- **yellow fever** epidemic, Pensacola, FL -- 125
9. 1800 -- ~Sep, Revenue Cutter Brig USS **Pickering** lost, gale/hurricane off FL --70-105
10. 1820 -- **yellow fever** outbreak, Jacksonville, FL -- 26
11. 1821 -- Sep-Oct (especially), **yellow fever** epidemic, St. Augustine, FL -- 172
12. 1822 -- Aug-Dec, **yellow fever**, Pensacola, St. Marks and Fort Barrancas, FL<sup>166</sup> --249-271
13. 1823 -- Aug 19, **yellow fever** introduced to Navy's West Indies Squadron, Key West -- >32
14. 1825 -- **yellow fever** epidemics, Key West (~40), Pensacola (49), FL -- 89
15. 1836 -- Dec 19, steam schooner **Dolphin** boiler explosion, off St. Johns Bar, FL -- 15
16. 1838 -- June 14, sidewheel **Pulaski** boiler explodes/sinks SE of New River Inlet, NC<sup>167</sup>-- >10
17. 1838 -- Sep 07, **hurricane**, near Cape Florida, FL -- 38
18. 1839 --~mid-Aug-Nov 12, **yellow fever** epidemic, St. Augustine; also Pensacola, Tampa--≥60
19. 1841 -- Feb 13, sidewheel **Lamplighter** shaft breaks, sinks in storm, off Dog Island, FL-- 19
20. 1841 -- June-Nov 15, esp. July-Oct, **yellow fever**, esp. St. Joseph and Tallahassee ---~1,109
21. 1841 -- Oct 25, **pilot boat**, then **William Gaston yawl**, capsize, Indian River Bar, FL -- 14
22. 1845 -- Feb 8, steamer **Siren** boiler explodes, Apalachicola riv., below Chattahoochee, FL-10
23. 1846 -- Oct 12, **Great Havana Hurricane**, Florida, esp. Keys, East Coast to NY --60-90
24. 1847 -- summer-fall, **yellow fever** outbreak, Pensacola, FL -- 76
25. 1852 -- **cholera** outbreak, Apalachicola, FL -- 21
26. 1853 -- July-Oct, **yellow fever** epidemic, esp. Key West (112); Pensacola (200), FL -- 337
27. 1854 -- June start, **yellow fever** epidemic, Jacksonville (98), also Key West, FL -- 105
28. 1857 -- Aug-Nov, **yellow fever** epidemic, Jacksonville (127); also Milton, Key West --~137
29. 1859 -- Dec 16, ship **Silas Holmes** founders after grounding, Florida Keys vic., FL --32-33
30. 1862 -- July-Sep esp., **yellow fever**, Key West (~80), Tampa (4), Fort Jefferson (2) -- 86
31. 1863 -- **yellow fever** outbreak, Pensacola, FL -- 200
32. 1864 -- Feb 20, **atrocities**, Confederates kill wounded black US soldiers, Olustee, FL --25-75
33. 1864 -- Dec 22, U.S. steam transport **North America** sinks, storm off coast of north FL-- 197
34. 1867 -- July-Dec, **yellow fever**, esp. Pensacola/34, Tampa/38, Tortugas/38, FL -- 114
35. 1870 -- Oct 09, steamer **Mariposa** (NOLA to NY) lost/founders off east coast of FL -- 36
36. 1870 -- Oct 20, **hurricane**, steamer **Varuna** sinks, 35M NE of Jupiter Inlet, FL -- 52
37. 1871 -- Aug 18, steamer **Lodona** grounds in storm, ~7m north of Cape Canaveral, FL -- 21
38. 1873 -- Aug 24-Nov 5, **yellow fever**, Forts Barrancas & Jefferson and esp., Pensacola --77-78
39. 1874 -- **yellow fever** epidemic, Pensacola, also at Warrington and Woolsey, FL -- 381
40. 1875 -- Mar 19-Aug 11, **yellow fever** outbreak, Jacksonville, FL -- 38

<sup>165</sup> Today's Jacksonville.

<sup>166</sup> Yellow fever was in several States, but was epidemic in Pensacola, Baton Rouge, New Orleans and NYC.

<sup>167</sup> While the *Pulaski* sank off NC (95-141 deaths), the passengers were mostly from GA and SC, ~95 boarding at Savannah. Of those there were at least ten who had travelled from FL for the trip, who were identified as fatalities.

### Florida (continued):

41. 1877 -- Aug-Nov, **yellow fever**, esp. Enterprise/112, Fernandina/94, St. Augustine/50, FL-- 261
42. 1878 -- Aug-Oct, **yellow fever**, Fernandina, Jacksonville (20), Key West (39), FL --61-62
43. 1879 -- June-May 1880, **malarial fever**; subset of 20,231 US malaria deaths; FL -- 296
44. 1880 -- July 16, beginning of **yellow fever** outbreak, Jacksonville, FL -- 34
45. 1880 -- Aug 29, steamer **City of Vera Cruz** sinks, **hurricane**, off Mosquito Inlet, FL --64-69
46. 1882 -- Aug-Nov, **yellow fever**, Pensacola, FL -- 198
47. 1883 -- March-mid-June, **smallpox**, Jacksonville, FL -- ~60
48. 1883 -- Aug 05-Nov 6, **yellow fever** outbreaks, Millview & Pensacola, FL -- 46
49. 1887 -- May-Dec, **yellow fever**, especially Key West (64) and Tampa (75-100) --169-196
50. 1888 -- June-Dec, **yellow fever** epidemics, multiple locations, esp. Jacksonville (430) -- 497
51. 1896 -- Sep 28-29, "**Cedar Key**" **Hurricane**, esp. Cedar Key and coastal islands, FL -- ~100
52. 1898 -- Aug 02, **hurricane**, tugboat **Nimrod** capsizes, crew lost, off Cape San Blas, FL-- 12
53. 1899 -- Aug 31-Dec 20, **yellow fever** outbreak, Key West (68), Miami (14) Tampa/1 -- 83
54. 1899 -- Apr 22, **lifeboat** from foundered stmr. **General Whitney** capsizes ~Cape Canaveral, FL--12
55. 1900 -- **malarial fever** (14,874 US malarial fever deaths) -- 366
56. 1903 -- Sep 11-13, **hurricane**, British steamer **Inchulva** grounds (9), land deaths (9) -- 18
57. 1904 -- Apr 13, Battleship **Missouri** magazine explosion, off Pensacola, FL --32-34
58. 1905 -- **tuberculosis**, Jacksonville & Key West; 56,770 census deaths (10 states/135 cities)<sup>168</sup>--229
59. 1905 -- Aug 29-Nov 16, **yellow fever** epidemic, Pensacola, FL -- 81
60. 1905 -- Aug 28, steam freighter **Peconic** founders in gale, Atlantic, off Fernandina, FL-- 20
61. 1906 -- Sep 27, **hurricane**, especially Pensacola and northwest FL --39-57
62. 1906 -- Oct 18-21, **hurricane, Florida Keys and maritime**, FL --211-328
63. 1909 -- Oct 11, Florida Keys & south FL **hurricane**, (**tug Sybil**/11) and Key West, FL-- 19
64. 1910 -- **smallpox**, FL -- 12
65. 1910 -- **typhoid fever**; subset, 12,673 US deaths/21 states/death rate 23.5<sup>169</sup> -- 74
66. 1910 -- Oct 17-20, **hurricane**, Key West, Florida to Virginia; all deaths in or off FL --37-41
67. 1911 -- June 24, **drownings**, Pensacola, FL -- 10
68. 1918 -- Sep-Apr 1919, **influenza and pneumonia** epidemic, FL --5,282
  - 1918 -- Sep-Dec, **influenza and pneumonia** epidemic, FL --4,117
  - 1919 -- Jan-Apr, **influenza and pneumonia** epidemic, FL --1,165
69. 1918 -- Oct 3, ships collide, **Lake City & James McGee**, American Shoal Light, FL -- 30
70. 1919 -- Sep 8-10, **hurricane, Corydon, Grampus, Larimer, Lake Conway, Munisla** lost-- 127
  - Sep 08, last communication, steam tanker **Larimer**, 8m south of Key West, FL-- 36
  - Sep 09, steamboat **Corydon** sinks, hurricane, Bahama Channel off SE FL coast-- 27
71. 1919 -- Sep 12, Spanish liner **Valbanera** sinks off Rebecca Shoal, Dry Tortugas, FL -- 488
72. 1920 -- **influenza** epidemic, FL -- 827
73. 1920 -- **malaria**; FL subset, 3,136 malaria deaths, 34 registration states; 4<sup>th</sup> largest state loss--344
74. 1920 -- Jan 26, storm, steamer **Mieler** sinks off Coast of FL -- 22
75. 1925 -- **dysentery** (subset, 3,257 US dysentery deaths); FL -- 95
76. 1925 -- **malaria** (subset of 2,132 US malaria deaths; 2<sup>nd</sup> highest state death toll); FL -- 338
77. 1925 -- **typhoid/paratyphoid fever** (subset of 8,287 US typhoid fever deaths); FL -- 187

<sup>168</sup> The Census area average TB death rate was 168.2 per 100K; Jacksonville had 447.6; Key West 346.0.

<sup>169</sup> There were but two Census reporting cities in FL. Jacksonville had death rate of 102.3 with 60 deaths, and Key West had death rate of 70.3 with 14 reported deaths.



**Florida (continued):**

78. 1925 -- Nov 30-Dec 2, FL **hurricane**, Tampa/4 and **maritime losses** off east coast of FL-- 53  
 -- 6 Flagler Beach area. Rum running schooner from Bahamas grounds/breaks  
 --32 St. Augustine, ~35 miles off of; SS *Cotopaxi* founders  
 --11 Somewhere south of Savannah, heading south; Yacht *Miramar*
79. 1926 -- Sep 17-18, **Great Miami Hurricane**, FL (also Sep 20, FL, AL, MS) --372-408
80. 1928 -- Sep 16-20, **hurricane** and **flood**, Great Okeechobee & Southeast FL --2,500-3,000
81. 1929 -- Sep 24-29, **hurricane**, FL -- 10
82. 1931 -- **malaria**; 2,536 US malaria deaths; FL above avg. for reporting states -- 223
83. 1931 -- **tuberculosis**; 81,395 US TB deaths; FL --1,074
84. 1933 -- Dec 14, school **bus** hit, Atlantic Coast Line **train**, near Crescent City FL -- 11
85. 1935 -- Aug 31-Sep 10, **Labor Day Hurricane**, Florida Keys, esp. Upper FL Keys --408-500
86. 1937 -- Jan 25, Tamiami Trail tour **bus** goes in Everglades canal ~Coral Gables, FL -- 17
87. 1937 -- Aug 30-Sep 1, tropical cyclone, freighter SS **Tarpon** sinks off Panama City, FL-- 18
88. 1939 -- **influenza and pneumonia** (subset, 99,097 US flu/pneumonia deaths); FL --1,554
89. 1939 -- **malaria** (subset of 1,761 US malaria deaths); FL -- 109
90. 1940 -- **influenza and pneumonia** (subset, 92,525 US flu/pneumonia deaths) --1,551
91. 1940 -- **malaria** (subset of 1,442 US malaria deaths); FL -- 98
92. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); FL death rate 26.7 -- 506
93. 1942 -- Feb 19, US tanker **Pan Massachusetts** sunk by U-boat ~20m off Cape Canaveral FL--20
94. 1942 -- Feb 22, US tanker **Cities Service Empire** sunk by U-boat off Cape Canaveral FL-- 14
95. 1942 -- Feb 22, US tanker **W.D. Anderson** sunk by U-boat off Jupiter Island, FL -- 35
96. 1942 -- Apr 10, US tanker **Gulfamerica** torpedoed by U-boat ~5M off Jacksonville, FL-- 19
97. 1942 -- May 4, US tanker **Joseph M. Cudahy** torpedoed by U-boat ~Dry Tortugas Isl., FL--27
98. 1942 -- May 4, US tanker **Munger T. Ball** sunk by U-boat ~80M NW of Dry Tortugas, FL--30
99. 1942 -- May 08, US freighter **Ohioan** sunk by U-boat ~8M off Boynton Beach, FL -- 15
100. 1942 -- June 05, **plane lost**, US Navy PBV-5A #05023, NAS Pensacola over Gulf Mex--10
101. 1942 -- Nov 11, USN Patrol **plane** (Banana River NAS) **crash** 5M off Melbourne FL--9-11
102. 1943 -- Feb 28, two USAAF B-26 bombers **collide in Mid-Air**, Avon Park, FL -- 11
103. 1943 -- Apr 03, Gulf Oil tanker **Gulfstate** sunk by sub ~50m south Marathon Key, FL-- 43
104. 1943 -- Apr 15, **plane crash**, USAAF, Buckingham Army Air Field, Fort Myers, FL-- 11
105. 1943 -- Apr 23, **mid-air collision**, USAAF, B-26C's, Army Air Base, Venice FL -- 13
106. 1943 -- June 12, US Navy **submarine R-12** (SS 89) floods, sinks, off Key West, FL -- 42
107. 1943 -- June 25, US Navy **plane crash**, St. John River near Green Cove Springs, FL-- 13
108. 1943 -- July 12, **Nitramon test explosion mishap**, Eglin Air Force Base, Pensacola, FL-17
109. 1943 -- July 21, **planes collide**, USAAF B-26C's, near Parrish, FL -- 10
110. 1943 -- Oct 03, **plane crash**, USAAF B-17F, Army Air Field, Brooksville, FL -- 11
111. 1943 -- Oct 21, tankers **Gulfbelle & Gulfland** collide/burn, ~Lake Worth Inlet, FL --87-88  
 -- 51 **Gulfbelle** (31 crew and 20 Naval Armed Guard)  
 --36-37 **Gulfland** (34-35 crew and 2 Naval Armed Guard)
112. 1943 -- Oct 29, **plane crash**, USAAF B-24, Atlantic off West Palm Beach, FL -- 14
113. 1943 -- Nov 19, **plane crash**, USAAF B-17F, near Thonotosassa, FL -- 10
114. 1943 -- Dec 22, **plane crash**, USAAF B-24, ~Morrison Field, West Palm Beach, FL-- 14
115. 1944 -- **influenza**; FL; 17,320 US flu deaths, esp. Jan-Apr, Dec; above state avg. -- 423
116. 1944 -- Jan 22, **plane collision**, USAAF, B-17, Gulf of Mex., ~Little Marco Pass, FL-- 10

**Florida (continued):**

117. 1944 -- Jan 26, **Navy Patrol plane crash**, Key West Naval Patrol Station, FL --11-12
118. 1944 -- Feb 16, **plane crash**, USAAF, B-17F, Wimauma, FL -- 12
119. 1944 -- Mar 05, **USAAF B24 explodes and crashes**, Atlantic Ocean, off coast of FL-- 12
120. 1944 -- Mar 26, **plane crash**, USAAF B-24E, near Naval Air Station, Melbourne, FL-- 10
121. 1944 -- July 20, **planes collide**, USAAF B-17F's, Brooksville, FL -- 10
122. 1944 -- July 30, **plane breaks-up/crashes**, USAAF B-17G 6 miles from St. Marks, FL--10
123. 1944 -- Sep 13, **hurricane**, USS **Warrington** sinks off coast of FL -- 248
124. 1944 -- Oct 18-19, **hurricane**, all of FL Peninsula (Bradenton area army tugboat/9) -- 14
125. 1944 -- Nov 06, **US Navy planes collide**, St. Johns River near NAS Jacksonville, FL-- 18
126. 1945 -- Jan 26, **USAAF B-17G plane crash**, near Hendricks Field, Sebring, FL -- 10
127. 1945 -- Jan 26, **USN PB4Y-1 Liberator landing crash**, ~NAAS Jacksonville, FL -- 11
128. 1945 -- Mar 10, **USN PB4Y-1 lost**, training flight NAS Jacksonville FL to Bahamas-- 14
129. 1945 -- Apr 17, **US Navy PB4Y-1 patrol plane crash**, training ex. off Mayport, FL-- 12
130. 1945 -- Apr 24, **USAAF B-29A engine fire/crash**, Gulf of Mex. ~off 100M SW Key West, FL--11
131. 1945 -- May 11, **USAAF B-29 engine failure, crash lndg.**, MacDill AAF, Tampa, FL--9-11
132. 1945 -- July 13, **USAAF B-24 enters severe turbulence, crash**, Southport, ~Panama City, FL--13
133. 1945 -- July 18, **USN PB4Y-2 Privateer missing**, training flight out of NAS Miami, FL--15-17
134. 1945 -- July 25, thunderstorm, **USAAF TC-47B** wing fails/crash 13M NE of Tampa, FL-- 13
135. 1945 -- Aug 9, **USAAF B-24** loses No.1 engine power, crash ~Buckingham Field, Ft. Myers, FL-- 11
136. 1945 -- Sep 12, **USN PB4Y-2 Privateer take-off engine fire/crash** ~Master Field, Miami, FL-- 14
137. 1945 -- Dec 05, **5 USN Avengers** and **USN Mariner search plane lost** off east FL coast-- 27  
--14 Flight 19; **5 USN torpedo bombers** lost ~100M ENE, Banana River NAS, FL  
--13 **USN PBM-5 Mariner** search plane lost ~25M SW off Cape Canaveral, FL
138. 1946 -- **polio**, the year, July-Nov especially; subset of 1,845 U.S. polio deaths) -- 43
139. 1946 -- May 10, **two USN PB4Y-2 bombers collide** when "attacked" in exercise ~Munson, FL--28
140. 1947 -- July 13, **Burke Air Transport** flies into ground (pilots asleep?), 4M SW Melbourne, FL--14
141. 1947 -- Sep 17-19, **hurricane**, especially Fort Lauderdale, FL -- 17
142. 1948 -- Mar 18, **USAF B-29 landing crash** in **dense fog**, MacDill Field, Tampa, FL-- 10
143. 1948 -- Aug 05, **USN Douglas R4D-6 and civilian Stearman collide** ~NAS Miami, FL-10  
--10 USN Douglas R4D-6 -- 0 civilian Stearman
144. 1951 -- **whooping cough**; 960 US deaths; subset for FL -- 28
145. 1951 -- Apr 25, **Cubana Flight 493 & US Navy Beechcraft collide** off Key West, FL-- 43  
--39 (all) Cubana de Aviacion Flight CU493  
-- 4 (all) US Navy Beechcraft SNB-1 Kansan
146. 1953 -- **diphtheria**, 158 US deaths (6 states in double digits), FL subset -- 12
147. 1953 -- **polio**; FL subset, 1,450 US polio deaths; 7<sup>th</sup> highest State loss of life to polio-- 68
148. 1953 -- Mar 29, **fire**, Littlefield Nursing Home, near Largo, FL<sup>170</sup> --33-35
149. 1953 -- July 17, **USN R4Q plane** (with NROTC) takeoff crash/fire, near Milton, FL-- 44
150. 1954 -- **diphtheria**, 145 US deaths; esp. GA/24, SC/16, AL/14, FL/10 -- 10
151. 1954 -- **dysentery**, infectious, all forms (codes 045-048), 655 US deaths; FL subset -- 21
152. 1954 -- **encephalitis**, acute infectious (viral); 407 US deaths, esp. NY PA MI; FL -- 15
153. 1954 -- **influenza**, 2,696 US deaths, esp. TX/228, AL/180; FL (9<sup>th</sup> highest US State loss--93
154. 1954 -- **measles**; 524 US deaths; 21 states double digits; FL subset -- 17

<sup>170</sup> 32 patients and a nurse died in the fire. A patient on way to a hospital and car driver were killed in an accident.

**Florida (continued):**

155.	1954 --	<b>polio</b> , acute; 1,400 US deaths; FL subset (6 <sup>th</sup> highest US state)	--	56
156.	1955 --	<b>polio</b> , acute; 1,043 deaths (all states, double digits in 23); FL subset	--	12
157.	1955 --	<b>whooping cough</b> /pertussis, 476 US deaths/15 states in double digits; FL	--	13
158.	1955 --	Dec 21, <b>Eastern Air Lines 642 crash on approach</b> to AP, Jacksonville, FL--all	17	
159.	1956 --	<b>whooping cough</b> /pertussis, 266 US deaths; 8 states double digit deaths, FL	--	20
160.	1957 --	<b>measles</b> ; 389 US deaths; 15 states double digit deaths; FL subset	--	11
161.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--	1,290
162.	1958 --	<b>influenza</b> ; 4,442 US deaths; FL subset (10 <sup>th</sup> highest State death toll)	--	159
163.	1958 --	<b>measles</b> ; 552 US deaths; 23 States in double digits, including FL	--	13
164.	1958 --	Sep 29, USN Neptune P2V patrol <b>plane crash</b> , 22M north of Key West, FL <sup>171</sup>	--all	10
165.	1959 --	<b>measles</b> , especially children; 385 US deaths; FL subset	--	12
166.	1959 --	<b>polio</b> (acute, as opposed to late effects of); 454 US deaths; FL subset	--	12
167.	1960 --	Sep 09-10, <b>Hurricane Donna</b> , FL	--	13
168.	1962 --	Mar 31, F3 <b>tornado</b> , Milton area, Santa Rosa County, FL	--	17
169.	1962 --	Aug 18, overloaded Sunday school <b>boat</b> capsizes, Lake Talquin ~Quincy, FL--	18	
170.	1963 --	Feb 04, SS <b>Marine Sulphur Queen</b> disappears between Cuba and south FL	--	39
171.	1963 --	Feb 12, storm, Northwest 705 <b>plane crash</b> , Everglades, near Miami, FL	--	43
172.	1963 --	May 18, farm worker <b>bus</b> sideswiped by truck, goes into canal, ~Belle Glade, FL--	27	
173.	1963 --	Dec 29, Hotel Roosevelt <b>fire</b> , Jacksonville, FL	--	22
174.	1964 --	Feb 03, South Central Air <b>takeoff crash</b> (overloaded) Gainesville AP, FL	--all	10
175.	1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; FL death rate 1.3	--	73
176.	1965 --	Sep 07-10, <b>Hurricane Betsy</b> , Southeast FL; subset of 93-105 U.S. fatalities	--	7-13
177.	1965 --	Nov 13, SS <b>Yarmouth Castle</b> fire/capsizes/sinks, Miami to Nassau, Bahamas--	90	
178.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; FL--	22	
179.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for FL	--	214
180.	1966 --	Feb 01, farm labor <b>bus</b> hit by train engine pulling caboose, south of Miami, FL--	18	
181.	1966 --	Feb 5-6, kerosene hot plate/heater explodes, <b>fire</b> , rooming house, Miami, FL <sup>172</sup> --	10	
182.	1966 --	Apr 04, <b>tornado</b> deaths, Pinellas/3, Polk/8, Hillsborough, Osceola counties, FL--	11	
183.	1967 --	July 16, <b>riot</b> and <b>fire</b> , State Prison Road Camp 12 barracks, Jay, FL	--	38
184.	1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; FL 3.21	--	204
185.	1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; FL 2.96	--	195
186.	1969 --	Jan 12-25, A2 Hong Kong <b>influenza-pneumonia</b> epidemic, FL <sup>173</sup>	--	430
187.	1969 --	June 23, Dominicana de Aviacion 401 <b>takeoff</b> , engine fire, street <b>crash</b> ~Miami IAP, FL-10		
188.	1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; FL 2.2--	149	
189.	1970 --	Aug 03, <b>Hurricane Celia</b> , drownings off West and Gulf Coast Beaches	--	14
190.	1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; FL/2.54	--	182
191.	1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; FL 2.66	--	200
192.	1972 --	Dec 29, Eastern Airlines Flight 401 <b>plane crash</b> , Everglades, FL	--	101

<sup>171</sup> Was stationed out of Key West Naval Air Station, the departure and return destination

<sup>172</sup> Most references note Feb 6 as date of loss. A NFPA *Fire Journal* article uses each date in different places. One entry notes the fire started at about midnight [5<sup>th</sup>]. But, the deaths apparently took place shortly after midnight. *Fire Journal* article noted fire started by inebriated occupant with kerosene hot plate. Newspaper wrote of a kerosene heater "explosion" and fire. *Fire Journal* shows a photograph of the fire scene with a kerosene hot plate on the floor.

<sup>173</sup> Just the CDC reporting cities of Jacksonville, Miami, St. Petersburg and Tampa. US death toll was 133,800.

**Florida (continued):**

193.	1973 --	tuberculosis	; 3,875 US deaths/death rate 1.84 per 100K; FL 2.55 per 100K	--	202
194.	1974 --	tuberculosis	; 3,513 US TB deaths/death rate 1.65 per 100K; FL, 1.85	--	154
195.	1975 --	tuberculosis	; 3,333 US TB deaths/death rate 1.55 per 100K; FL, 1.89	--	161
196.	1975 --	June 09, mattress set on fire	, spreads, Seminole County Jail, Sanford, FL	--	11
197.	1976 --	tuberculosis	; 3,130 US TB deaths/death rate 1.44 per 100K; FL, 1.94	--	169
198.	1977 --	tuberculosis	; 2,968 US TB deaths/death rate 1.35 per 100K; FL, 1.84	--	164
199.	1977 --	Oct 02, Amtrak train hits pickup	(3 adults/7minors), RR crossing, Plant City, FL-10		
200.	1987 --	HIV AIDS	, 13,468 deaths/US death rate 5.55 per 100K; FL, 9.16	--	1,101
201.	1978 --	tuberculosis	; 2,914 US TB deaths/death rate 1.31 per 100K; FL, 1.70	--	155
202.	1979 --	tuberculosis	; 2,007 US TB deaths/death rate 0.89 per 100K; FL, 1.33	--	126
203.	1980 --	tuberculosis	; 1,978 US TB deaths/death rate 0.87 per 100K; FL, 1.32	--	129
204.	1980 --	Jan 28, collision, tanker Capricorn & USCGC Blackthorn	(sinks), Tampa Bay, FL-23		
205.	1980 --	May 09, Summit Venture hits Sunshine Skyway Bridge	, collapse, Tampa, FL--		35
206.	1980 --	May 17-18, racial riots	after jury acquits police, black beating death, Miami FL-18		
207.	1980 --	summer excessive natural heat	, deaths in 14 counties, FL	--	23
208.	1981 --	tuberculosis	; 1,937 US TB deaths/death rate 0.84 per 100K; FL, 1.43	--	146
209.	1981 --	Mar 27, construction failure	, Harbour Cay Condominium, Cocoa Beach	--	11
210.	1981 --	May 26, USN EA-68 Prowler crash	, deck, USS Nimitz, off Jacksonville, FL--		14
211.	1981 --	June-Aug (especially), heat	(ICD-9 E900 code for excessive natural heat), FL--		10
212.	1982 --	tuberculosis	; 1,807 US TB deaths/death rate 0.78 per 100K, FL, 1.00	--	105
213.	1983 --	exposure to excessive natural cold/hypothermia	; 510 US deaths; FL	--	10
214.	1983 --	tuberculosis	; 1,779 US TB deaths, death rate 0.76 per 100K; FL, 1.13	--	122
215.	1983 --	Apr 30, USN C-131 engine fire/crash	, St. John's Riv., ~Jacksonville NAS, FL--		14
216.	1983 --	Summer heat	(ICD-9, E900 code) 6 counties, esp. Miami-Dade (6); US 597--		15
217.	1983 --	Dec 25-Jan 1, winter weather	, severe cold (exposure deaths)	--	10
218.	1984 --	exposure to excessive natural cold/hypothermia	; 359 US deaths; FL	--	14
219.	1984 --	tuberculosis	; 1,729 US TB deaths, death rate 0.73 per 100K; FL, 1.14	--	126
220.	1984 --	May-Nov, Bobby Joe Long serial killings	of women, Tampa Bay Area, FL	--	≥10
221.	1984 --	Dec 06, Provincetown-Boston Air 1039 takeoff crash	, Jacksonville AP, FL	--	13
222.	1985 --	exposure to excessive natural cold/hypothermia	; 519 US deaths; FL	--	10
223.	1985 --	tuberculosis	; 1,752 US TB deaths, death rate 0.74 per 100K; FL, 1.08	--	123
224.	1985 --	Jan 20-23, winter weather, exposure/hypothermia	, FL	--	15
225.	1985 --	summer heat	(ICD-9, E900 code, excessive heat/hyperthermia) subset of 227--		12
226.	1986 --	tuberculosis	; 1,782 US deaths, death rate 0.74 per 100K; FL, 1.03	--	120
227.	1986 --	summer excessive heat	, FL (subset of >400 U.S. heat-related fatalities)	--	19
228.	1987 --	tuberculosis	; 1,755 US TB deaths, death rate 0.72 per 100K, FL, 1.11	--	133
229.	1987 --	Summer excessive heat	, FL subset of approximately 387 U.S. heat deaths	--	24
230.	1988 --	HIV AIDS	, 16,602 deaths/US death rate 6.8 per 100K pop.; FL, 11.75	--	1,449
231.	1988 --	tuberculosis	; 1,921 US TB deaths, death rate 0.78 per 100K; FL, 1.18	--	145
232.	1989 --	exposure to excessive natural cold/hypothermia	; 524 US deaths; FL	--	24
233.	1989 --	HIV AIDS	; 22,082 US deaths, death rate 8.9 per 100K; FL, 16.07	--	2,035
234.	1989 --	tuberculosis	; 1,970 US TB deaths, death rate 0.80 per 100K; FL, 1.20	--	152
235.	1989 --	Dec 23-25, coldwave/hypothermia and stove/space heater fire deaths	, FL--		26
236.	1990 --	tuberculosis	; 1,810 US TB deaths, death rate 0.73 per 100K, FL, 1.06	--	137



**Florida (continued):**

237.	1990 -- Jan 24, farm worker <b>van</b> goes into canal, curve in <b>fog</b> , near Clewiston, FL	-- 10
238.	1990 -- summer esp., <b>excessive heat and hyperthermia</b> , ICD-9 E900 code, FL	-- 10
239.	1990 -- June 17-18, violence/ <b>shootings</b> , esp. GMAC (18 <sup>th</sup> ), Jacksonville, FL <sup>174</sup>	--11-12
240.	1991 -- <b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, FL, 0.83	-- 111
241.	1992 -- exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; FL	-- 10
242.	1992 -- <b>tuberculosis</b> , 1,705 US TB deaths, death rate of 0.66 per 100K; FL, 0.92	-- 126
243.	1992 -- Aug 24, <b>Hurricane Andrew</b> , FL, especially southeast Dade County	--89-90
244.	1993 -- <b>meningococcal meningitis</b> ; US deaths 260, death rate 0.10 per 100K; FL, 0.13--18	
245.	1993 -- <b>tuberculosis</b> ; 1,631 US TB deaths, death rate of 0.63 per 100K; FL, 0.85	-- 119
246.	1993 -- Mar 12-13 Eastern Seaboard <b>"Superstorm of 1993,"</b> subset for FL	-- 51
247.	1994 -- <b>meningococcal meningitis</b> , ICD-9 code 36.0; death rate 0.10 per 100K; FL, 0.16--	23
248.	1994 -- <b>tuberculosis</b> ; 1,478 US TB deaths; US death rate .56 per 100K, FL, .79	-- 112
249.	1994 -- Jan 05, Kimura International Air (charter) <b>plane crash</b> , near Fort Drum, FL	-- 10
250.	1994 -- Nov 13-18, <b>Hurricane/Tropical Storm Gordon</b> , especially FL	-- 11
251.	1995 -- <b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K; FL, 0.57	-- 83
252.	1995 -- summer <b>excessive natural heat</b> ; 1,563-1,601 U.S. heat-related deaths; FL	-- 12
253.	1996 -- <b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K, FL 0.61	-- 90
254.	1996 -- May 11, ValuJet Flight 592 <b>plane crash</b> , cargo hold fire, Everglades, FL	-- 110
255.	1997 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, FL, 0.52	-- 79
256.	1998 -- <b>infectious colitis, enteritis, gastroenteritis</b> , ICD-9 code 009.0, FL death rate 0.155 per 100K-	24
257.	1998 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; FL, 0.46	-- 72
258.	1998 -- Feb 22-23, <b>tornadoes</b> , Orange, Osceola, Seminole, Volusia Counties, FL	-- 42
259.	1998 -- June-July esp., <b>heat</b> , esp. Lee Co., also Orange, Sarasota, Volusia counties, etc.	-- 18
260.	1999 -- exposure to excessive natural <b>cold/hypothermia</b> ; 598 US deaths; FL	-- 10
261.	1999 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; FL, 0.438	-- 69
262.	1999 -- summer esp., <b>heat</b> (subset of 1,050 US heat-related deaths); FL	-- 15
263.	2000 -- exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; FL	-- 17
264.	2000 -- <b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; FL, 0.325	-- 52
265.	2001 -- exposure to <b>excessive natural heat</b> ; 538 US deaths; subset for FL	-- 20
266.	2001 -- June 06-07 and 10-12, <b>Tropical Storm Allison</b> , especially Escambia County--	10
267.	2002 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.273 per 100K, FL, 0.330	-- 55
268.	2002 -- summer esp., <b>excessive heat</b> (subset of 626 U.S. heat-related deaths); FL	-- 17
269.	2003 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.034; FL, 0.100--	17
270.	2003 -- exposure to <b>excessive natural heat</b> ; 426 US deaths; subset for FL	-- 22
271.	2003 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; FL, 0.29	-- 50
272.	2004 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.038; FL, 0.057	-- 10
273.	2004 -- exposure to <b>excessive natural heat</b> ; $\geq 335$ US deaths, subset for FL	-- 31
274.	2004 -- Aug 13-14, <b>Hurricane Charley</b> , especially Charlotte County, FL	--33-38
275.	2004 -- Sep 02-05, <b>Hurricane Frances</b> , FL <sup>175</sup>	-- 48
276.	2004 -- Sep 15-16, <b>Hurricane Ivan</b> , esp. Escambia, Santa Rosa, Calhoun Counties	--23-39
277.	2004 -- Sep 25-28, <b>Hurricane Jeanne</b> and remnants, esp. FL (also GA/SC/NC/VA)--	22

<sup>174</sup> James Edward Pough shot and killed two people on the 17<sup>th</sup>. The next day he killed six at the GM scene, then himself. Three died later. Thus nine died as result of June 18 attack. In all there were 11 murders and one suicide.

<sup>175</sup> Includes Tyler Braden Dorang, 12, death in traffic accident ~Tuskegee, AL while evacuating from Titusville, FL.



**Florida (continued):**

278.	2005 -- exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; FL	--	11
279.	2005 -- exposure to <b>excessive natural heat</b> ; 939 US deaths, subset for FL	--	64
280.	2005 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; FL, 0.26	--	46
281.	2005 -- July 10, <b>Hurricane Dennis</b> , FL (Santa Rosa Island landfall)	--	14
282.	2005 -- Aug 25, <b>Hurricane Katrina</b> , esp. Miami-Dade & Broward Counties, FL	--	14
283.	2005 -- Oct 24, <b>Hurricane Wilma</b> , Category 3, Landfall SW Coast of Florida	--26-37	
284.	2005 -- Dec 19, <b>Chalk's Ocean Airways Flight 101plane crash</b> , off Miami, FL	--	20
285.	2006 -- exposure to <b>excessive natural heat</b> ; 1,104 US deaths, subset for FL	--	26
286.	2007 -- exposure to <b>excessive natural heat</b> ; 582 US deaths, subset for FL	--	17
287.	2007 -- <b>tuberculosis</b> , death rate 0.184 per 100K; FL, 0.207	--	38
288.	2007 -- Feb 02, <b>tornadoes</b> , Lady Lake and Lake Mack, Lake County, Central FL	--	21
289.	2008 -- exposure to <b>excessive natural heat</b> ; 502 US deaths, subset for FL	--	21
290.	2008 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; FL, 0.22	--	41
291.	2009 -- exposure to <b>excessive natural heat</b> ; 555 US deaths, subset for FL	--	39
292.	2009 -- <b>H1N1 "Swine Flu,"</b> especially spring through winter; FL	--	230
293.	2010 -- exposure to <b>excessive natural cold/hypothermia</b> ); 710 US deaths; FL	--	24
294.	2010 -- exposure to <b>excessive natural heat</b> ; 874 US deaths, subset for FL	--	27
295.	2010 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; FL 3.0	--	564
296.	2011 -- exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for FL	--	17
297.	2011 -- <b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; FL, 3.2	--	610
298.	2012 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; FL 0.9--		179
299.	2012 -- <b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.6 per 100K; FL, 2.7	--	530
300.	2012 -- Jan 29, smoke/haze/ <b>fog</b> , Interstate 75 <b>pileup</b> , south of Gainesville, FL	--	11
301.	2012 -- exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for FL	--	17
302.	2013 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, FL 0.9--		176
303.	2013 -- exposure to <b>excessive natural heat</b> ; 651 US deaths, subset for FL	--	20
304.	2013 -- <b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.6 per 100,000; FL 3.0	--	591
305.	2014 -- exposure to <b>excessive natural heat</b> , FL	--	21
306.	2014 -- <b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; FL, 3.0	--	605
307.	2015 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; FL, 2.7--		550
308.	2015 -- Mar 10, US Army Blackhawk <b>helicopter crash</b> , Gulf off Navarre Beach FL--		11
309.	2015 -- exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for FL	--	24
310.	2015 -- Oct 1, U.S. cargo ship <b>El Faro</b> sinks/ <b>Hurricane Joaquin</b> , off east Bahamas <sup>176</sup> --		18
311.	2016 -- <b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; FL, 4.2	--	865
312.	2016 -- <b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.0 per 100K; FL, 2.4	--	486
313.	2016 -- June 12, <b>shooting</b> /terrorism/hate-crime, gay nightclub, Orlando, FL	-- <sup>177</sup>	50
314.	2016 -- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for FL	--	32
315.	2016 -- Oct 07-09, <b>Hurricane Matthew</b> & aftermath, FL	--	13
316.	2017 -- exposure to <b>excessive natural heat</b> ; 817 US deaths, subset for FL	--	33
317.	2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rage 1.75 per 100K; FL 3.59, 3 <sup>rd</sup> highest--		754
318.	2017 -- Sep 10-11, <b>Hurricane Irma</b> (including 13 CO deaths), multiple counties	--	91
319.	2018 -- exposure to excessive natural cold/ <b>hypothermia</b> ; subset of 1,028 US deaths--		19

<sup>176</sup> While there were 33 fatalities -- twenty-eight U.S. nationals and five Polish nationals -- 18 U.S. crew lived in FL.

<sup>177</sup> Shooter shot and killed 49 people before being shot and killed by police -- bringing total number of deaths to 50,

320.	2018 -- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for FL	-- 24
321.	2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; FL 3.25 <sup>178</sup>	-- 693
322.	2018 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; FL 0.18--	38
323.	2018 -- Feb 14, <b>school shooting</b> , Marjory Stoneman Douglas High Sch., Parkland	-- 17
324.	2018 -- Oct 10, <b>Hurricane Michael</b> , Mexico Beach landfall, multiple counties, esp. Bay/24 <sup>179</sup> --	47-49
325.	2019 -- exposure to <b>excessive natural heat</b> ; 915 US deaths/death rate 0.27, FL 0.16--	35
326.	2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; FL, 3.23	-- 694
327.	2019 -- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, FL, 1.29	-- 277
328.	2019 -- <b>tuberculosis</b> , ICD-10 codes A16-A19 (526 US TB deaths/0.16 death rate); FL--	35
329.	2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths/1,070 per M; FL 1,009 per 1M pop.--	21,163
330.	2020 -- exposure to <b>excessive natural heat</b> ; 1,174 US deaths/ death rate 0.3, FL 0.12--	26
331.	2020 -- <b>HIV/AIDS</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; FL 3.10	-- 674
332.	2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; FL, 2.9K per M --	40,807
333.	2021 -- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for FL	-- 31
334.	2021 -- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; FL death rate 2.89	-- 629
335.	2021 -- <b>influenza</b> ; 608 US deaths/death rate 0.18; FL death rate 0.24	-- 53
336.	2021 -- June 24, <b>Champlain Towers</b> South condo structural failure/collapse, Surfside, FL--	97
337.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for FL	-- 40
338.	2022 -- Sep 29-29, <b>Hurricane Ian</b> , especially Lee County/62, 18 other counties	--139-140
339.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; FL death rate 9.84	--21,126
340.	2023 -- <b>COVID-19</b> , subset of 71,691 US deaths FL death rate 4.3, US 3.6 <sup>180</sup>	--9,000
341.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for FL	-- 81

#### Some Select/Notable **Florida** Other Large Loss-of-Life Events:<sup>181</sup>

1833 --	<b>cholera</b> , Apalachicola and Key West	-- ≥12
1850 --	<b>croup</b> ; subset, 10,706 deaths/36 States/DC/Territories, and 931 total FL deaths	-- 21
1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571--	21
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	-- 43
1850 --	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	-- 22
1854 --	Late March through early April (esp.) <b>scarlet fever</b> outbreak, Jacksonville, FL	-- ≤12
1854 --	Late March through early April (esp.) <b>smallpox</b> outbreak, Jacksonville, FL	-- ≥15
1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	-- 23
1870 --	<b>diarrhoea</b> (64), <b>dysentery</b> (40), and <b>enteritis</b> (52); from U.S. Census Office	-- 156
1870 --	<b>typhoid fever</b> (State subset of 22,187 typhoid fever deaths nationwide)	-- 107
1879-80,	June-May, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	-- 43
1879-80,	June-May, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	-- 20

<sup>178</sup> FL had the largest loss of life as well as the fourth highest death rate.

<sup>179</sup> The range has to do with whether there were two, three or four hurricane-related deaths in Gadsden County.

<sup>180</sup> Our source for all COVID data is *worldometer.com*, which is where we derive the 9,000 death toll noted here. We note that a Dec 18 *USA Today* article published in the *Palm Beach Post*, citing the *FLHealthCharts.gov* database notes that as of Dec 18 there had been 7,015 deaths from COVID in Florida. That represents about 20 deaths per day. If multiplied times the 13 days remaining in 2023 the death toll, based on FL data, could be extrapolated out to 7,274. If the death toll was approximately 9,000 then FL had the largest death toll in the USA. If the death toll was in the 7,200 range, then FL had 2<sup>nd</sup> highest death toll in the US, behind CA with 7,468.

<sup>181</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

Some Select/Notable Other **Florida** Loss-of-Life Events (continued):

1879-80, June-May, <b>meningitis</b> (State subset of 7,481 meningitis deaths nationwide)	--	37
1879-80, June-May, <b>tuberculosis</b> (State subset of 91,270 TB deaths nationwide)	--	257
1879-80, June-May, <b>typhoid fever</b> (State subset of 23,339 U.S. Typhoid deaths)	--	101
1879-80, June-May, <b>whooping cough</b> (State subset, 11,064 U.S. W.C. deaths)	--	50
1889-90, June-May, <b>croup</b> , (subset of 13,862 U.S. croup deaths)	--	40
1889-90, June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; FL	--	14
1889-90, June-May, <b>measles</b> , subset of 9,256 US measles deaths; FL	--	68
1889-90, June-May, <b>typhoid fever</b> , subset of 27,058 US typhoid deaths; FL	--	163
1897 -- <b>typhoid fever</b> , subset of >9,192 US typhoid deaths; FL	--	16
1898 -- <b>typhoid fever</b> (3,064 U.S.), esp. Fernandina, Jacksonville, Miami, Tampa, FL <sup>182</sup>	--	≥37
1900 -- <b>croup</b> (upper airway contagious viral infection); subset, 12,484 US croup deaths; FL	--	56
1900 -- <b>diphtheria</b> (subset of 16,475 US diphtheria deaths in 1900); FL	--	27
1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900); FL	--	112
1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths); FL	--	265
1900 -- <b>measles</b> (subset of 12,866 US measles deaths); FL	--	50
1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths); FL	--	80
1900 -- <b>smallpox</b> (subset, 8,484 US smallpox deaths); FL	--	16
1900 -- <b>tuberculosis</b> (6,482 deaths all causes in FL) (109,750 US tuberculosis deaths); FL	--	557
1900 -- <b>typhoid fever</b> (subset of 35,379 US typhoid fever deaths); FL	--	290
1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths); FL	--	90
1901 -- May 03, the Great Jacksonville <b>Fire</b> (conflagration), Jacksonville, FL	--	≥7
1906 -- May 14, W.G. Acreman, wife, seven children, <b>murdered</b> in their home, Allentown FL	--	9
1907 -- <b>typhoid fever</b> , Jacksonville/59, Key West/24; subset of ~13K Census area deaths; FL	--	83
1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K (four cities); FL	--	31
1919 -- <b>diphtheria</b> (subset, 9,160 US diphtheria deaths); FL	--	57
1920 -- <b>diphtheria and croup</b> (subset of 13,395 such deaths in 34 registration states); FL	--	70
1920 -- <b>measles</b> (subset of 7,712 measles deaths in 34 registration states); FL	--	13
1920 -- <b>typhoid fever</b> (subset of 6,805 typhoid fever deaths in 34 registration states); FL	--	143
1920 -- <b>whooping cough</b> (subset, 10,968 whooping cough deaths in 34 reg. states); FL	--	69
1921 -- Mar 23, <b>USN Free Balloon</b> from NAS Pensacola, FL downs in Gulf of Mexico	--	5
1923 -- Jan 01-07, Rosewood <b>rioting</b> , Whites attack Blacks, Rosewood, Levy Co., FL	--	≥8
1925 -- <b>diphtheria</b> (subset, 8,058 US diphtheria deaths); FL	--	110
1925 -- <b>influenza</b> (subset of 30,538 US influenza deaths); FL	--	431
1925 -- <b>polio</b> (subset of 1,518 US polio deaths); FL	--	15
1925 -- <b>tuberculosis</b> (subset of 89,268 US tuberculosis deaths); FL	--	1,009
1925 -- <b>whooping cough</b> (subset of 6,948 US whooping cough deaths); FL	--	79
1925 -- Apr 05, <b>tornado</b> , Dade County, FL	--	5
1931 -- <b>diphtheria</b> , especially children (subset of 5,738 US diphtheria deaths); FL	--	73
1931 -- <b>influenza</b> (subset of 31,701 US influenza deaths); FL	--	609
1931 -- <b>measles</b> , especially children (subset of 3,576 US measles deaths); FL	--	35
1931 -- <b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; FL, 1.7	--	27
1936 -- Jan 18, <b>tornadoes</b> , Washington County, especially Vernon (6) and Wausau (1) areas	--	7
1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (subset of 1,997 US diphtheria deaths); FL	--	31

<sup>182</sup> This number is for identified servicemen dying of typhoid in Florida. There were undoubtedly more such deaths.

**Florida (continued):**

1939 --	tuberculosis	(subset of 61,609 US tuberculosis deaths); FL	-- 875
1940 --	tuberculosis	(subset of 55,576 US tuberculosis deaths); FL	-- 918
1940 --	whooping cough	; 2926 US WC deaths/US death rate 2.2 per 100K, FL, 2.1	-- 39
1941 --	measles	, especially children (subset of 2,279 US measles deaths); FL	-- 17
1942 --	Mar 05,	USAAF C-39 plane crash, St. Lucie River, Port Sewall, FL	-- 7
1942 --	Apr 16,	USAAF Lockheed A-29B plane crash, MacDill Field, FL	-- 7
1942 --	Apr 29,	USAAF B-17E & Curtis P-40E planes collide, 9M west of Orlando, FL--	7
1944 --	cerebrospinal meningitis	; 2,812 US cerebrospinal meningitis deaths; FL subset	-- 43
1944 --	measles	, especially Jan-June (subset of 1,923 US measles deaths); FL	-- 18
1944 --	tuberculosis	(subset of 54,731 US tuberculosis deaths); FL	-- 823
1944 --	whooping cough	(subset of 1,878 US whooping cough deaths), FL	-- 48
1945 --	Jan 28,	USN Consolidated PBY-5 Catalina crash into water, landing, St. Johns River, FL--	5
1945 --	Mar 5,	USAAF bomber/fighter takeoff/landing runway collision, Kissimmee AAF, FL--	8
1945 --	May 14,	USN Consolidated PBY-5 Catalina crash off Daytona Beach, FL	-- 6
1945 --	May 28,	two USN PB4Y-1 Liberators collide at night near NAS Jacksonville, FL--	6
1947 --	July 29,	USAAF B-29 Superfortress takeoff crash, Eglin AAF, Valparaiso, FL	-- 9
1948 --	polio	, July-Nov especially; subset of 1,895 US polio deaths), FL	-- 19
1949 --	polio	, July-Nov especially; subset of 2,720 US polio deaths, FL	-- 13
1950 --	polio	, July-Nov especially; subset of 1,904 US polio deaths, FL	-- 22
1951 --	polio	, esp. July-Nov; subset of ~1,555 US polio deaths, FL	-- 15
1952 --	dysentery	, infections (all forms); 949 US deaths; subset for FL	-- 23
1952 --	influenza	, 5,649 US deaths, subset for FL	-- 146
1952 --	measles	, 621 US deaths; 24 states double digits; subset for FL	-- 10
1952 --	polio	, subset of ~3,300 US polio deaths, FL	-- 46
1951 --	tuberculosis	(respiratory), 31,163 US deaths, subset for FL	-- 511
1952 --	tuberculosis	(respiratory): 22,700 US deaths; subset for FL	-- 465
1953 --	heat, excessive natural	(code E931), 576 US heat deaths, esp. Aug 22-Sep 5; FL	-- 8
1953 --	influenza	; 9,500 US deaths; subset for FL	-- 236
1953 --	tuberculosis	(respiratory); 17,954 US deaths; FL subset	-- 312
1954 --	tuberculosis	(respiratory); 15,146 US deaths; FL subset	-- 267
1955 --	influenza	; 2,755 US deaths; FL subset	-- 87
1955 --	tuberculosis	(respiratory); 13,676 US TB deaths; FL subset	-- 252
1956 --	influenza	, 2,323 US deaths; FL subset	-- 79
1956 --	tuberculosis	(respiratory), 12,978 US deaths/death rate 8.4 per 100K; FL	-- 244
1957 --	influenza	; 7,463 US deaths; FL subset	-- 142
1957 --	tuberculosis	(respiratory); 12,384 US deaths; FL subset	-- 253
1958 --	tuberculosis	; 12,361 US TB deaths; FL subset	-- 288
1959 --	tuberculosis	; 11,456 US TB deaths; FL subset	-- 232
1960 --	influenza	; 7,872 US deaths/death rate 4.4 per 100K; FL death rate 3.8	-- 186
1960 --	tuberculosis	; 10,866 deaths/death rate 6.1 per 100K; FL death rate 4.3	-- 214
1961 --	influenza	; 2,137 US deaths/death rate 1.2 per 100K; FL death rate 0.9	-- 46
1961 --	tuberculosis	, 9,938 US deaths/death rate 5.4 per 100k; FL death rate 4.2	-- 220
1961 --	Sep 24,	one-ton stake-body truck (carrying 17) overturns/burns, Jacksonville, FL	-- 6
1962 --	influenza	; 3,431 US deaths/death rate 1.8 per 100K; FL death rate 1.7	-- 91



**Florida (continued):**

1962 --	<b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population, FL death rate 0.2	--	11
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; FL 4.1	--	224
1962 --	Dec 6-15, <b>snowstorms/cold-wave</b> >26 ~states east half US (188-238)	--	2-6
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; FL death rate 2.3	--	232
1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; FL death rate 0.2	--	10
1963 --	<b>polio</b> , acute; does not include late effects of poliomyelitis, esp. children, esp. FL	--	5
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; FL death rate 4.4	--	249
1964 --	<b>influenza</b> ; 1,687 US deaths/date rate 0.9 per 100K; FL death rate 0.6	--	37
1964 --	<b>scarlet fever and streptococcal sore throat</b> ; 95 US deaths; FL	--	5
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; FL death rate 3.9	--	224
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; FL death rate 3.7	--	216
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for FL	--	32
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; FL 2.02	--	128
1968 --	<b>polio</b> ; ICD-8 codes 040-044; 130 US polio deaths; FL	--	6
1969 --	<b>chickenpox</b> ; ICD-8 code 052; 81 US deaths; FL (US high)	--	7
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; FL 2.67	--	176
1969 --	<b>polio</b> ; ICD-8 codes 040-044; 110 US deaths; FL	--	8
1970 --	<b>polio</b> ; ICD-8 codes 040-044; 128 US deaths; FL	--	7
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; FL 2.53	--	172
1971 --	excessive natural <b>heat</b> , ICD-8 code E900, 112 US deaths, FL	--	8
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; FL 0.5	--	37
1972 --	<b>chickenpox</b> ; 122 US deaths; FL	--	6
1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; FL rate 1.2	--	90
1972 --	June 18-19, <b>tornadoes</b> spawned by <b>Hurricane Agnes</b> , especially Okeechobee Co.	--	9
1972 --	Dec 16, <b>USCG helicopter</b> /4 with rescued boat crew/4, crashes, Gulf of Mex., off FL	--	8
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; FL 1.26	--	84
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; FL/0.638	--	53
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; FL, 1.64	--	140
1975 --	<b>whooping cough</b> (pertussis; code 033.0); 8 US deaths/death rate 0.004; FL 0.12	--	1
1976 --	<b>chickenpox</b> ; 106 US deaths/death rate 0.05 per 100K; FL death rate 0.07	--	6
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; FL/1.8	--	157
1976 --	<b>polio</b> (Acute poliomyelitis, ICD-8 codes 040-045); 90 US polio deaths; FK	--	5
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; FL death rate 0.48	--	43
1977 --	<b>polio</b> (Acute poliomyelitis); 100 polio deaths/death rate 0.05 per 100K; FL, 0.10	--	9
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; FL death rate 1.75	--	160
1978 --	Feb 26, <b>chlorine gas release</b> when <b>train derails</b> (no train deaths), Youngstown, FL	--	8
1979 --	<b>influenza</b> , 604 US deaths/death rate 0.27 per 100K; FL death rate 0.18	--	17
1979 --	Jan 17, <b>helicopters collide</b> (four on USCG) & 1 on civilian, Opa-Locka, FL	--	all 5
1979 --	Sep 03-04, <b>Hurricane David</b> , especially east coast	--	6
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, FL death rate 0.32	--	31
1980 --	Sep 12, <b>Beechcraft 65 Queen Air approach crash</b> ~Clearwater Executive AP, FL	--	all 6
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, FL death rate 0.78	--	80
1981 --	Feb 03, <b>Cessna Skyhawk and Cessna 421 collide</b> mid-air near Fort Lauderdale FL	--	all 6
1982 --	<b>chickenpox</b> ; 61 US deaths/death rate 0.03 per 100K, FL death rate 0.06	--	6



**Florida (continued):**

1982 --	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, FL, 0.14	--	15
1982 --	Aug 20, rampage <b>shooting</b> (8), mentally disturbed man (killed), Miami, FL	--	9
1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, FL, 0.36	--	39
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, FL, 0.43	--	49
1985 --	Nov 21-23, <b>Hurricane Kate</b> , So. FL-Panama City/Apalachicola, FL Panhandle	--	5
1985 --	Nov 23, <b>twin-engine Beechcraft plane crash</b> , Boca Raton, FL (all aboard killed)--		6
1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K, FL 0.16	--	19
1986 --	Jan 28, <b>Challenger Space Shuttle break-up</b> (O-Ring) Cape Canaveral, FL	--	7
1987 --	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; FL, 0.12	--	14
1987 --	Oct 07, <b>Cessna 421B takeoff crash</b> , Deland, FL	--	all 5
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; FL, 0.22	--	27
1988 --	Summer, <b>excessive natural heat</b> , FL	--	7
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; FL, 0.18	--	23
1989 --	Feb 20, <b>USAF C-141</b> too-low AP approach crash into terrain, 3M N Hurlburt Field FL--8		
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; FL, 0.31	--	40
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; FL, 0.19	--	26
1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, FL, 0.20	--	27
1992 --	Dec 19, <b>Beechcraft takeoff crash</b> , corroded fuel strainer installed backwards, Sanford, FL--5		
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; FL, 0.14	--	19
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; FL death rate 0.27	--	38
1995 --	<b>influenza</b> , 606 US flu deaths; death rate 0.227 per 100K, FL death rate 0.131	--	19
1995 --	Apr 21, <b>Piper takeoff fuel leak/engine compart. fire/reduced engine power/crash</b> , Quincy, FL--		5
1995 --	Jun 7, <b>Piper flies into IFL inclement weather ~AP, attempts VFR landing/crashed</b> , Gainesville FL--5		
1995 --	Aug 02, <b>Hurricane Erin</b> , central and panhandle FL and off FL Coast	--	8
1996 --	<b>influenza</b> , 745 US flu deaths; death rate 0.276 per 100K; FL death rate 0.114	--	17
1996 --	Feb 09, fired city worker <b>shoots</b> five former coworkers, self, Fort Lauderdale FL	--	5-6
1996 --	Mar 07, <b>two piper planes collide mid-air</b> about ½ mile off Flagler Beach, FL	--	6
1996 --	Mar 17, <b>Key West Seaplane Service Cessna takeoff crash</b> , Stock Isl. Seaplane Base, Key West FL--5		
1997 --	<b>influenza</b> , code 487.0; US death rate 0.264 per 100K (720 US deaths); FL, 0.118	--	18
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; FL, 0.13	--	20
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; FL, 0.228	--	36
1999 --	summer, exposure to <b>excessive natural heat</b> , FL	--	5
1999 --	June 04, speeding <b>car</b> runs light, hits car with 3 retired couples, Boca Raton, FL	--	6
1999 --	Oct 15-16, <b>Hurricane Irene</b> , Cape Sable FL NE through So. FL to Atlantic	--	8
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; FL, 0.338	--	54
2001 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.09 per 100K; FL, 0.08	--	13
2001 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.268 per 100K; FL, 0.190	--	31
2002 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; FL, 0.060	--	10
2003 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; FL, 0.159	--	27
2004 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; FL rate 0.253	--	44
2004 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; FL, 0.22	--	39
2005 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; FL rate 0.112	--	20
2006 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; FL rate 0.154	--	28
2006 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; FL rate 0.22	--	40

**Florida (continued)**

2006 -- Apr 07, <b>fire</b> , propane lantern ignites material in mobile home, Jacksonville, FL	--	6
2007 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.14 per 100K; FL rate 0.06	--	11
2008 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; FL rate 0.17	--	32
2009 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.9 per 100K; FL, 0.9	--	174
2009 -- <b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); FL rate 0.4	--	82
2009 -- <b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.2 per 100K; FL rate 0.2	--	38
2010 -- <b>diarrhoea/gastroenteritis</b> of infectious origin, US death rate 0.9 per 100K, FL, 0.8	--	158
2010 -- <b>influenza</b> , ICD-10 codes J09-J11.8; <sup>183</sup> 500 US deaths; death rate 0.2 per 100K; FL, 0.1	--	28
2010 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; FL rate 0.2	--	36
2011 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US and FL death rate 0.9 per 100K	--	163
2011 -- <b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; FL rate 0.2	--	43
2011 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; US and FL death rate 0.2 per 100,000	--	31
2012 -- <b>Fungal Meningitis due to tainted steroid injections</b> , FL	--	7
2012 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; FL rate 0.2	--	38
2012 -- <b>tuberculosis</b> , ICD-10 code A16-A19; US and FL death rate was 0.2 per 100,000	--	45
2013 -- <b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100K; FL death rate 0.8	--	158
2013 -- <b>tuberculosis</b> , ICD-10 code A16-A19, US and FL death rate 0.2 per 100,000	--	33
2014 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US & FL death rate 0.8 per 100K	--	161
2014 -- <b>influenza</b> , ICD-10 codes J09-11.8, US avg. death rate 1.4 per 100K; FL rate 1.1	--	211
2014 -- <b>tuberculosis</b> , ICD-10 code A16-A19, US death rate 0.2 per 100,000; FL rate 0.1	--	22
2015 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US and FL death rate 0.8 per 100,000	--	153
2015 -- <b>influenza</b> , ICD-10 codes J09-11.8, US avg. death rate 1.6 per 100K; FL rate 0.7	--	133
2015 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; US & FL death rate per 100,000 was 0.1	--	23
2016 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US and FL death rate 0.7 per 100,000	--	149
2016 -- <b>influenza</b> ; ICD-10 codes J09-11.8; US death rate 0.9 per 100,000; FL rate 0.8	--	173
2016 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; US & FL death rate per 100,000 was 0.2	--	36
2017 -- <b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; FL rate 1.22	--	257
2017 -- <b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; FL rate 0.16	--	34
2017 -- Dec 31, <b>plane crash</b> , 2 CR pilots, 10 US citizens, NW Costa Rica, Belleair FL family	--	4
2018 -- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., FL rate 2.20	--	468
2019 -- Jan 03, <b>tractor-trailer</b> hits cars & truck; diesel fuel fire, I-75 near Gainesville, FL	--	7
2020 -- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; FL death rate 1.49	--	324
2020 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/ death rate 0.18; FL	--	30
2021 -- exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; subset for FL	--	12
2023 -- Oct 24, <b>pileup</b> of 168 vehicles in fog/smoke, I-55 outside New Orleans, LA	--	8

**Breakout by Type of Florida Large Loss-of-Life Events (10 or more fatalities):**

- 142 -- **Disease**, especially communicable, especially epidemics. (Plus 174 in "Other.")
- 50 -- **Aviation**. (Plus 23 events incidentally noted with 4-9 deaths each.)
- 43 -- **Maritime/Boating**.
- 41 -- **Hurricanes**. (Plus 4 <10 deaths: 6 in 1979, 5 in 1985, 8 in 1995, 8 in 1999.)<sup>184</sup>

<sup>183</sup> ICD-10 code for 2010 influenza/pneumonia (J09-J18) has 50,097 deaths (death rate of 16.2).

<sup>184</sup> Hurricane Agnes in June of 1972 spawned tornadoes that killed nine people.

**Florida (continued (continued)):**

- 33 -- **Heat.** (Plus 4 years 5-8 deaths.)
- 14 -- **Winter Weather/Cold/Hypothermia.** Plus 2.
- 9 -- **Violence.** (Plus 4 events noted with 5-9 deaths each.)
- 7 -- **Vehicular/Road/Highway.** (4 events 6-8 deaths: 6 in 1961, 6 in 1999 and 7 in 2019.)
- 5 -- **Fire, structural.** (Plus **two**: 7 deaths in 1901 and 6 in 2006.)
- 4 -- **Tornadoes.** (We take note of 3 tornadoes <10 deaths: 5 in 1925, 7 in 1936 and 9 in 1972.)
- 3 -- **Fog as contributing factor.** (Cross-listed in Highway/Road/Vehicular and in Aviation.)
- 2 -- **Rail** – both were railway and road crossings involving vehicles.
- 2 -- **Structural Failure.**
- 1 -- **Carbon Monoxide Poisoning.**
- 1 -- **Swimming Drownings.**
- 1 -- **Explosion.**
- 1 -- **Flooding.** (Cross-listed with Hurricane for the Lake Okeechobee flooding in 1928 storm.)

## GA

## Georgia

1. 1797 -- Sep 08, gale, slave ship **General Nichols** founders off FL/GA coastal border<sup>185</sup>-- 132
2. 1797 -- Oct 18, storm, schooner **Flying Fish** knocked over, 7 drown inside, 4 later, off GA-- 11
3. 1804 -- Sep 07-08, **hurricane**, esp. greater Savannah, coastal GA land and maritime<sup>186</sup>-->217
4. 1808 -- Sep 05-Oct, **yellow fever** epidemic, St. Mary's, GA -- 84
5. 1811 -- Oct 05, **USS Gun Boat No. 2** sinks in **hurricane**/gale off St Marys, GA -- 34
6. 1813 -- Sep 16, **hurricane**/gale, US Navy **Gun Boat No. 164** sinks, St. Marys, GA -- 20
7. 1820 -- May-Dec, **yellow fever** epidemic, Savannah, GA --669-700
8. 1824 -- Sep 14-15, offshore and coastal GA **hurricane**, landfall near St. Simons, GA -- ≥169
9. 1828 -- **yellow fever** outbreak, Fort Oglethorpe, GA -- 10
10. 1834 -- Sep (early), **cholera**, Savannah area, GA -- ≥18
11. 1837 -- Aug 6, **hurricane**, St. Augustine-Charleston schmr. **S.S. Mills** sinks off Jekyll Island, GA--14
12. 1838 -- June 14, sidewheel **Pulaski** boiler explodes/sinks SE of New River Inlet, NC<sup>187</sup>-- >10
13. 1839 -- Fall, **yellow fever** epidemic, Augusta, also in Savannah, probably elsewhere -- ≥208
14. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 9,925 GA deaths -- 344
15. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)--385
16. 1852 -- **yellow fever** outbreak, Savannah, GA -- 19
17. 1852 -- Jan 09, steamboat **Magnolia** explodes, St. Simon's Island, GA -- 13
18. 1854 -- July, **cholera** outbreak, Burke County, GA -- ~50
19. 1854 -- Aug 5-Nov, **yellow fever** epidemic, Savannah (580), also Augusta (6), GA -- 586
20. 1858 -- Sep 7-Nov, **yellow fever**, Savannah -- ≥73
21. 1859 -- Dec 31, **train and bridge disaster**, near Columbus, GA -- 14
22. 1860 -- **croup** (contagious upper airway viral infection) subset, 15,188 US croup deaths--423
23. 1860 -- **scarlet fever** (subset of 26,402 deaths in 38 Census States & DC) -- 217
24. 1860 -- **tuberculosis**/consumption, GA deaths, 4<sup>th</sup> highest in GA; 49,082 US TB deaths-- 491
25. 1860 -- **typhoid fever** (2<sup>nd</sup> highest state, 19,236 deaths, 38 "registration" States & DC)-- 887
26. 1860 -- **whooping cough** (subset of 8,408 US whooping cough deaths); GA -- 334
27. 1864 -- **yellow fever**, Savannah, GA -- 16
28. 1864 -- Feb 24-Apr 17, 1865, **diarrhea & dysentery**, Union POW's, Andersonville, GA--5,605
29. 1864 -- Feb 24-Aug 3, **malarial fevers**,<sup>188</sup> Union POWs, Ft. Sumter, Andersonville GA-- 149
30. 1864 -- Feb-April 1865, **scurvy**, Union POW's, Camp Sumter, Andersonville, GA --3,614
31. 1864 -- Sep 1, Confederate wounded **train collision**, Barnesville, GA -- ~ 30
32. 1865 -- **smallpox**, especially, Augusta/82, Savannah/14, Andersonville Prison?, GA -- ≥96
33. 1865 -- Oct 25, steamer **Republic** (former USS *Tennessee*) founders ~Savannah, GA -- 34
34. 1866 -- Jan (late), **fire**, Jail and City Guard House, Marietta, GA -- 13
35. 1866 -- July 18-week ending Sep 19, **cholera**, Savannah (231), Tybee Island (121) GA-- 352
36. 1866 -- Jan 9, steamer **Asher Ayres** burns, Altamaha River, Darien, GA -- 6-12
37. 1866 -- Oct 03, **hurricane**, steamer **Evening Star** sinks, ~100M off Tybee Island, GA--247-255

<sup>185</sup> Destination was Savannah, where the survivors were taken when picked up at sea.

<sup>186</sup> If sources are accurate as to 500 or over 500 fatalities in GA and SC (land and we assume maritime), it is probable that more than 217 lives were lost in GA. Have identified 13 Charleston area fatalities, though this must be an underestimation. Over 100 slaves were reported to have drowned on Hutchinson Island alone.

<sup>187</sup> While the *Pulaski* sank off NC (95-141 deaths), the passengers were mostly from GA and SC, about 95 boarding at Savannah and 65 at Charleston. Local papers and histories make clear that many if not most who boarded at those two ports were citizens of GA and SC. We do not know the number of GA residents, but there were more than ten.

<sup>188</sup> Categorized as intermittent (lets-up but then comes back) and remittent (fluctuating body temperatures).



**Georgia (continued):**

38. 1870 -- **croup** (subset of 10,692 US croup deaths); GA -- 356
39. 1870 -- **diarrhoea** (448), **dysentery** (327), **enteritis** (239); data from US Census; GA --1,014
40. 1870 -- **measles** (subset of 9,237 US measles deaths); GA -- 270
41. 1870 -- **tuberculosis** (consumption) (subset of ~70,000 US TB deaths); GA -- 875
42. 1870 -- **typhoid fever** (subset of 22,187 US typhoid fever deaths); GA -- 743
43. 1870 -- Aug 21 start, **yellow fever** epidemic, Brunswick, GA -- 112
44. 1873 -- Oct-Nov, **yellow fever**, Bainbridge, GA --  $\geq$ 17
45. 1875 -- Mar 20, **tornadoes**, eleven counties --87-102
46. 1875 -- May 01, **tornadoes**, esp. Harris, Talbot, Troup, Meriwether, Greene Counties --40-53
47. 1876 -- Aug 21-Dec 1, **yellow fever**, Savannah, also Brunswick, Isle of Hope --1,004--1,184
48. 1877 -- Apr 13, steamer **Leo** burns 83 miles south of Tybee Light, GA -- 23
49. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 US croup deaths) -- 721
50. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) -- 588
51. 1879 -- June-May 1880, **malarial fever**, (GA subset, 20,231 such deaths U.S.) --1,058
52. 1879 -- June-May 1880, **measles**, especially children; GA subset, 8,254 measles deaths-- 496
53. 1879 -- June-May 1880, **tuberculosis** (subset of 91,270 US TB deaths); GA --1,707
54. 1879 -- June-May 1880, **typhoid fever** (subset of 23,339 US typhoid deaths); GA -- 656
55. 1879 -- June-May 1880, **whooping cough** (subset of 11,064 US W.C. deaths); GA -- 650
56. 1881 -- Aug 27, **hurricane**, northeast GA, esp. Savannah and maritime losses (also SC)-- 700
57. 1882 -- Mar 27, **tornadoes**, Jones, Randolph, Terrell, Lee, Sumter Counties, GA -- 11
58. 1882 -- Apr 3-July 14 (46 dead), Dec 14<sup>th</sup> 2<sup>nd</sup> outbreak (17 dead), **smallpox**, Atlanta, GA--63
59. 1883 -- **smallpox**, Atlanta, Duluth, Grangerville, Haralson County, Milton County -- >10
60. 1883 -- Apr 11, steamer **Geo. W. Wylly** hits pier/sinks, Chattahoochee Riv., Fort Gaines, GA--13
61. 1883 -- Apr 22, **tornado**, Terrell, Webster and Sumter Counties, GA -- 10
62. 1883 -- Apr 23, **tornadoes**, Oglethorpe/Baker/Dougherty/Worth/Greene counties, GA-- 11
63. 1884 -- Feb 19, **tornadoes**, multiple (~24) counties, GA --64-223
64. 1884 -- Apr 03, **Rebecca Everingham** fire, Chattahoochee Riv., Fitzgerald Landing GA-- 13
65. 1885 -- Aug 24-25, **hurricane**, esp. ~Savannah, GA, (maritime deaths, esp. *Bridgeton*)-- 12
66. 1885 -- Dec 15, **train collision**, Georgia Pacific Rail, near Austell, GA -- 11
67. 1886 -- Jan 2, steam **W.D. Chipley** grounds/sinks, Chattahoochee Riv., 7m no. Fort Gaines GA--8-11
68. 1888 -- Mar 17, **trestle collapse**, West India Fast Mail **train derails**, Blackshear GA --25-27
69. 1889-90, June-May, **croup**, subset of 13,862 U.S. croup deaths -- 401
70. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 440
71. 1889-90, June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths --1,000
72. 1889 -- Dec 25, **racial violence**, Jesup, GA --6~10
73. 1893 -- Mar 03, **tornadoes**, Troup/Meriwether/Upson/Pike/Lamar Counties, GA -- 14
74. 1893 -- Sep, **yellow fever**, Brunswick, GA -- 53
75. 1896 -- **measles**, especially Atlanta (16), Savannah (14), Columbus (12), Macon (5) -- 47
76. 1896 -- Sep 28-29, **hurricane**, esp. Savannah/11, Darien/8, Brunswick/5, Folkston/4, GA--38
77. 1898 -- **typhoid fever** (>4,627 nationwide), esp. Chickamauga & Fort McPherson<sup>189</sup> --  $\geq$ 739
78. 1898 -- Oct 02, **hurricane**, coastal, esp. islands/lowlands ~Brunswick and Savannah--247-258
79. 1900 -- **croup**; contagious viral infection; subset (4<sup>th</sup> high state), 12,484 croup deaths; GA-- 686
80. 1900 -- **dysentery**, subset, 11,710 US dysentery deaths; 3<sup>rd</sup> highest state death toll; GA-- 781

<sup>189</sup> This number is for identified servicemen dying of typhoid in Georgia. There were undoubtedly more such deaths.

**Georgia (continued):**

81. 1900 -- **heat, excessive natural** heat exposure, coded “sunstroke” in some Census docs.-- 18
82. 1900 -- **influenza** (subset, 16,645 US influenza deaths; 7<sup>th</sup> largest state loss to flu, 1900)--667
83. 1900 -- **tuberculosis**, leading cause of death in GA; 109,750 US TB deaths --2,651
84. 1900 -- **malarial fever** (14,874 US malarial fever deaths; 5<sup>th</sup> highest state loss), GA --1,001
85. 1900 -- **typhoid fever** (GA subset of 35,379 U.S. typhoid fever deaths) --1,685-1,766
86. 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths); GA -- 222
87. 1900 -- June 23, **cloudburst, trestle washout/train wreck**/fire, near McDonough GA -- 37
88. 1903 -- June 1, **tornado**, Gainesville (includes former mill village of New Holland), GA--98-113
89. 1905 -- **tuberculosis**, Atlanta and Savannah; 56,770 census deaths (10 states/135 cities)<sup>190</sup>-- 462
90. 1906 -- Sep 22-26, **racial rioting**, Atlanta, GA --25-40
91. 1908 -- Apr 24/25, **tornadoes** (4), Polk, Floyd, Harris, Meriwether, other counties -- 30
92. 1908 -- Aug 26-28, **flooding, bridge, dam, levee failures**, esp. Augusta, GA<sup>191</sup> --22-50
93. 1909 -- Apr 30, **tornado outbreak**, GA -- 16
94. 1910 -- **typhoid fever**; subset, 12,673 US deaths/21 states/death rate 23.5<sup>192</sup> -- 94
95. 1911 -- Mar 25, Dixie Flyer **train breaks axle, derails** on trestle, near Ocilla, GA -- 9-10
96. 1913 -- Mar 13, **tornadoes**, Dekalb, Gwinnett, Floyd, Gordon Counties, GA -- 23
97. 1915 -- Nov 22, circus and passenger **trains collide**, near Columbus, GA -- 11
98. 1918 -- Apr 1919, **influenza and pneumonia** epidemic, GA --3,700  
 1918 -- **influenza and pneumonia** epidemic, especially greater Atlanta, GA--2,192  
 1919 -- Jan-Apr, **influenza** epidemic, GA --1,508
99. 1920 -- **influenza** epidemic, especially greater Atlanta, GA -- 490
100. 1920 -- Feb 01, steamer **Fortune** lost off Jekyll Island, GA -- 13
101. 1920 -- Mar 28, **tornadoes**, Milner, Pike Co./1; West Pt./9, LaGrange/27, Troup Co.-- 37
102. 1921 -- Feb 10, **tornado**, Oconee and Gardner (Washington County), GA -- 32
103. 1922 -- Sep 11, **truck** falls through wood bridge, Satilla Riv., 20 mi. ~Homerville, GA-- 18
104. 1924 -- Apr 30, **tornadoes**, GA -- 16
105. 1926 -- Dec 23, **trains collide**, near Rockmart, GA -- 19
106. 1929 -- Apr 25, **tornadoes**, GA -- 49
107. 1931 -- **diphtheria**, especially children (GA subset, 5,738 U.S. diphtheria deaths) -- 166
108. 1931 -- **influenza** (GA subset of 31,701 influenza deaths nationwide) --1,342
109. 1931 -- **malaria** (GA subset, 2<sup>nd</sup> highest state, 2,536 malaria deaths nationwide) -- 305
110. 1931 -- **tuberculosis**; subset of 81,395 US TB deaths --2,184
111. 1931 -- summer, **heat wave** and excessive heat deaths, GA subset, 2,768 US deaths-- 32
112. 1932 -- Mar 21, **tornadoes**, GA -- 24
113. 1932 -- Mar 22, **tornadoes**, GA -- 13
114. 1934 -- summer, **excessive natural heat**; subset of 3,250 US heat deaths; GA -- 22
115. 1936 -- Mar 28, **bus hit** by **Central of Georgia train** at crossing, Bryon, GA -- 11
116. 1936 -- Apr 02, **tornado**, F4, Crisp County (especially Cordele), GA -- 36
117. 1936 -- Apr 06, **tornadoes** and fires (esp. Cooper Pants Factory), Gainesville, GA<sup>193</sup>-- 203

<sup>190</sup> Atlanta had 273 deaths and TB death rate of 265.8 per 100K; Savannah had 280.8; census area avg. was 168.2.

<sup>191</sup> This is a GA subset of 50-80 fatalities in NC, SC, GA, VA.

<sup>192</sup> Bureau of Census mortality data for 1910 included just two GA cities. Atlanta had death rate of 50.1 with 78 deaths, and Savannah had death rate of 24.6 with 16 deaths.

<sup>193</sup> An estimated 40-70 people, mostly girls and women, died in the Cooper Pants Factory fire.

**Georgia (continued):**

118.	1936 -- July-Aug (especially), <b>heat wave</b> (4,678-5,000 US heat deaths), GA subset -- 21
119.	1937 -- Sep 26-Oct 26, <b>Elixir Sulfanilamide medicine poisoning</b> deaths -- 12
120.	1938 -- May 16, <b>fire</b> , Terminal Hotel, Atlanta, GA -- 35
121.	1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec; GA subset, 1,997 US diphtheria deaths -- 100
122.	1939 -- <b>influenza and pneumonia</b> (GA subset, 99,097 US flu/pneumonia deaths) --3,220
123.	1939 -- <b>malaria</b> (GA subset of 1,761 malaria deaths nationwide) -- 118
124.	1939 -- <b>tuberculosis</b> ; subset of 61,609 US tuberculosis deaths; GA --1,422
125.	1939 -- <b>whooping cough</b> ; subset of 3,026 US whooping cough deaths; GA -- 136
126.	1939 -- Summer, <b>excessive heat</b> (subset of 527-1,073 US heat deaths); GA -- 10
127.	1940 -- <b>influenza and pneumonia</b> (subset of 92,525 US flu/pneumonia deaths); GA-2,868
128.	1940 -- <b>malaria</b> (GA subset, 5 <sup>th</sup> highest state, of 1,442 U.S. malaria deaths) -- 107
129.	1940 -- <b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); GA death rate 20.6-- 642
130.	1940 -- <b>tuberculosis</b> (GA subset of 55,576 tuberculosis deaths nationwide) --1,448
131.	1940 -- <b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, GA, 3.5 -- 110
132.	1940 -- Feb 10, <b>tornado</b> , F4, Dougherty County, GA -- 18
133.	1941 -- <b>measles</b> , especially children (GA subset of 2,279 US measles deaths) -- 160
134.	1942 -- Feb 06, <b>tornadoes</b> , GA -- 13
135.	1942 -- Jan 19, US freighter <b>City of Atlanta</b> sunk, U-boat ~10m off NC, SE of Manteo <sup>194</sup> - 43
136.	1942 -- Apr 08, US tanker <b>Oklahoma</b> sunk by U-boat ~10m off St. Simon's Island, GA--19
137.	1943 -- June 10, tanker <b>Esso Gettysburg</b> torpedoed ~100M southeast of Savannah, GA-- 57
138.	1943 -- Oct 22, US Army Air Force C-47 <b>plane crash</b> , Lawson Field, Ft. Benning, GA--20
139.	1944 -- <b>influenza</b> , esp. Jan-Apr, Dec, (subset of 17,320 US influenza deaths); GA -- 724
140.	1944 -- <b>measles</b> , especially Jan-June (GA subset of 1,923 measles deaths nationwide)-- 88
141.	1944 -- <b>tuberculosis</b> (subset of 54,731 US tuberculosis deaths); GA --1,141
142.	1944 -- <b>whooping cough</b> (subset of 1,878 US whooping cough deaths); GA -- 66
143.	1944 -- Apr 16, <b>tornado</b> , Franklin, Hart, Elbert Counties, GA -- 23
144.	1944 -- July 23, <b>USAAF B-24J plane fire/crash</b> , near Chatham Field, Savannah, GA-- 10
145.	1944 -- Aug 05, Atlantic Coast Line <b>train wreck</b> , near Stockton, GA -- 47
146.	1944 -- Oct 29, <b>USAAF B-17F plane crash</b> , near Chatham Field, Savannah, GA -- 10
147.	1945 -- Jan 09, <b>USAAF B-24 plane breaks-up/crashes</b> ~Chatham Field, Savannah GA-11
148.	1946 -- Dec 07, <b>fire</b> , Hotel Winecoff, Atlanta GA, -- 119
149.	1948 -- Jan 07, <b>Coastal Air Lines charter stalls/dives/crashes</b> , 10M ENE Savannah, GA--18
150.	1949 -- Dec 22, <b>USAF B-50</b> fire after takeoff and <b>crash</b> , Argyle Isl. ~Savannah, GA--all 11
151.	1950 -- Jan 13, <b>USAF G-15 glider</b> dips/dives to ground too steeply, Lawson AFB, GA-- 13
152.	1951 -- <b>diphtheria</b> ; 302 US deaths; 13 States in double digits; subset for GA -- 12
153.	1951 -- <b>measles</b> , 688 US deaths; subset for GA (tied with NY for 9 <sup>th</sup> highest state loss)-- 23
154.	1951 -- <b>tuberculosis</b> , 31,163 US deaths, subset for GA -- 675
155.	1951 -- <b>whooping cough</b> ; 960 US deaths; subset for GA (2 <sup>nd</sup> highest US state loss) -- 86
156.	1951 -- Jan 27-Feb 4, <b>cold-waves, winter storms/ice/sleet/snow</b> , GA (175-200 US)-- 10
157.	1951 -- Oct 21-25, <b>wood alcohol (methanol) poisoning</b> , Atlanta (also Winder), GA-- 41
158.	1952 -- <b>diphtheria</b> (225 US deaths; 7 states in double digits), subset for GA -- 17
159.	1952 -- <b>dysentery</b> , infections (all forms); 949 US deaths; GA (4 <sup>th</sup> highest US loss) -- 46
160.	1952 -- <b>influenza</b> , 5,649 US deaths, GA subset (10 <sup>th</sup> highest US state loss) -- 213

<sup>194</sup> *City of Atlanta* was owned by a Savannah, GA company and homeported there. Cross-listed in NC.

**Georgia (continued):**

161. 1952 -- **measles**, 621 US deaths; 24 states double digits; GA (7<sup>th</sup> highest US state loss)-- 23
162. 1952 -- **scarlet fever**; 352 US deaths; GA (4<sup>th</sup> highest US state loss of life) -- 19
163. 1952 -- **whooping cough** (pertussis); 406 US deaths; GA (4<sup>th</sup> highest US state loss) -- 23
164. 1953 -- **diphtheria**, 158 US deaths (6 states in double digits), GA subset (highest) -- 19
165. 1953 -- **dysentery**, infectious, all forms (codes 045-048), 886 US deaths; GA (3<sup>rd</sup> highest--41
166. 1953 -- **influenza**; 9,500 US deaths; GA subset (5<sup>th</sup> highest in the US) -- 427
167. 1953 -- **heat**, excessive natural (code E931), 576 US heat deaths, esp. Aug 22-Sep 5, VA--10
168. 1953 -- Apr 30, **tornadoes**, especially Warner Robins area, GA --20-21
169. 1953 -- July 10, **USAF B29 airport approach crash**, 7M ~Hunter AFB, Savannah GA--all 10
170. 1954 -- **diphtheria**, 145 US deaths; esp. GA/24, SC/16, AL/14, FL/10 -- 24
171. 1954 -- **dysentery**, infectious, all forms (codes 045-048), 655 US deaths; GA subset-- 32
172. 1954 -- **encephalitis**, acute infectious (viral); 407 US deaths, esp. NY/52 PA/31; GA-- 10
173. 1954 -- **heat** (especially July), state subset of 978-984 heat-related deaths -- 39
174. 1954 -- **influenza**, 2,696 US deaths, esp. TX/228, AL/180, GA 3<sup>rd</sup> highest US loss -- 162
175. 1954 -- **measles**; 524 US deaths; 21 states double digits; subset for GA -- 18
176. 1954 -- **whooping cough**/pertussis; 375 US deaths, 17 states double digits, GA -- 20
177. 1955 -- **diphtheria**, 150 US deaths; especially AL/25, GA/18, TX/13, SC/11 -- 18
178. 1955 -- **influenza**; 2,755 US deaths; GA (3<sup>rd</sup> highest US state loss of life) -- 181
179. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); subset for GA -- 15
180. 1955 -- **whooping cough**/pertussis, 476 US deaths/15 states in double digits; GA -- 23
181. 1956 -- **influenza**, 2,323 US deaths; GA had 5<sup>th</sup> highest US state death toll -- 109
182. 1956 -- **measles**, 530 US deaths/21 states in double digits; GA 9<sup>th</sup> highest US state loss-- 20
183. 1956 -- **whooping cough**/pertussis, 266 US deaths; 8 states double digit deaths, GA 3<sup>rd</sup> high--36
184. 1957 -- **influenza**; 7,463 US deaths; GA had 5<sup>th</sup> US highest state death toll -- 341
185. 1957 -- **measles**; 389 US deaths; 15 states double digit deaths; GA subset -- 20
186. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) --1,620
187. 1957 -- Dec 05, **natural gas explosion/fire**, five downtown businesses, Villa Rica GA-- 12
188. 1958 -- **influenza**; 4,442 US deaths; GA subset (5<sup>th</sup> highest in the US) -- 206
189. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including GA -- 14
190. 1958 -- Feb 17, duplex **fire**, including 11 children in two families, Atlanta, GA -- 12
191. 1958 -- Nov 12, **USAF KC-97** tanker loses engine at takeoff, crashes Isle of Hope, GA--all 11
192. 1959 -- **influenza**; 2,845 US deaths; GA subset -- 104
193. 1959 -- **measles**, especially children; 385 US deaths; GA subset -- 14
194. 1959 -- **polio** (acute, as opposed to late effects of); 454 US deaths; GA subset -- 10
195. 1959 -- **whooping cough** (pertussis); 269 US deaths, especially children; GA subset-- 18
196. 1959 -- June 28, **train** derails on river trestle, LPG-tank rupture/flash-fire, ~Meldrim, GA--23
197. 1960 -- **influenza**; 7,872 US deaths/death rate 4.4 per 100K; GA death rate 9.0 -- 353
198. 1960 -- **measles**, especially children (subset of 380 US measles deaths); GA -- 13
199. 1961 -- **influenza**; 2,137 US deaths/death rate 1.2 per 100K; GA death rate 2.1 -- 82
200. 1961 -- **measles**; 434 US deaths/death rate 0.2 per 100K; GA death rate 0.4 -- 17
201. 1962 -- **influenza**; 3,431 US deaths/death rate 1.8 per 100K; GA death rate 2.6 -- 106
202. 1962 -- **measles**, 408 US deaths/death rate 0.2 per 100,000 population, GA rate 0.4 -- 15
203. 1962 -- Jun 3, Air France Boeing 707 charter **takeoff crash**, Orly AP, Paris, France<sup>195</sup>--130/US121

<sup>195</sup> Though crash was in Paris, all 121 of the passengers were “socially prominent” Atlanta residents on Europe tour.



**Georgia (continued):**

204.	1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 ~States east half US (188-238)	--15-18
205.	1963 --	<b>dysentery</b> ; 294 US deaths/death rate 0.2 per 100K pop.; GA death rate 0.3	-- 14
206.	1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; GA death rate 6.3	-- 262
207.	1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; GA death rate 0.3	-- 11
208.	1964 --	<b>dysentery</b> ; 283 US deaths; GA subset	-- 17
209.	1964 --	<b>influenza</b> ; 1,687 US deaths/date rate 0.9 per 100K; GA death rate 1.0	-- 41
210.	1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; GA death rate 2.0	-- 88
211.	1965 --	<b>measles</b> , 276 US deaths/death rate 0.1 per 100,000, GA death rate 0.4	-- 16
212.	1965 --	June 15, two US Army <b>helicopters collide mid-air</b> , Fort Benning, GA	--all 18
213.	1966 --	<b>dysentery</b> , 172 US deaths; subset for GA	-- 12
214.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; GA--	29
215.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for GA	-- 136
216.	1966 --	Jan 29-31, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; GA	-- 20
217.	1967 --	June 23, <b>station wagon</b> /10 runs stop sign, hits asphalt tanker truck, Hardeeville SC <sup>196</sup>	10
218.	1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; GA--	13
219.	1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; GA 5.2--233	
220.	1968 --	July 28, <b>USAF C-124A crash</b> , GA Reserve, , 50 miles NW of Recife, Brazil <sup>197</sup> --	10
221.	1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; GA 5.3--239	
222.	1969 --	July 06, <b>Air South Flight 168</b> system failure and crash, near Monroe, GA	-- 14
223.	1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; GA 3.5--162	
224.	1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; GA 0.7--32	
225.	1971 --	Feb 03, Thiokol Chemical Plant <b>fire</b> and <b>trip flares explosion</b> , Woodbine, GA--	29
226.	1972 --	<b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; GA	-- 12
227.	1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; GA 3.08--148	
228.	1972 --	Nov 7, <b>freighter</b> hits Sidney Lanier Bridge, span collapses/ <b>cars fall</b> , Brunswick GA--	10
229.	1972 --	Nov 30, <b>fire</b> , Baptist Towers Home for Senior Citizens, Atlanta, GA	-- 10
230.	1973 --	<b>excessive natural cold</b> ; ICD-8 code E901; 381 US deaths;	-- 10
231.	1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; GA 2.79 --	137
232.	1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; GA 1.96 per 100k --	96
233.	1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; GA/1.4--72	
234.	1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; GA rate 1.90	-- 95
235.	1974 --	Apr 03, <b>tornadoes</b> , multiple counties, esp. Dawson, Gordon counties, GA	--16-17
236.	1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; GA rate 1.60	-- 82
237.	1977 --	<b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; GA	-- 20
238.	1977 --	<b>excessive natural heat</b> (esp. summer), ICD-8 E900; US death rate 0.14, GA 0.27--	14
239.	1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; GA death rate 1.13--	59
240.	1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; GA, 1.82	-- 95
241.	1977 --	Apr 04, <b>plane crash</b> , Southern Airways Flight 242, Hope, GA	-- 72
242.	1977 --	Nov 06, rain, Kelly Barnes <b>dam failure; flash flood</b> , Toccoa Falls Bible Col., GA--	39
243.	1978 --	exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; GA	-- 25
244.	1978 --	<b>heat</b> (esp. summer), ICD-8 E900 excessive natural heat, US death rate 0.12, GA 0.28--	15
245.	1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; GA, 2.02	-- 107

<sup>196</sup> Listed in Georgia in that the station wagon was from Savannah and all the fatalities were GA residents.

<sup>197</sup> All the reservists were from metropolitan Atlanta.



**Georgia (continued):**

246.	1979 -- exposure to excessive natural <b>cold/hypothermia</b> ; 356 US deaths; GA	--	11
247.	1979 -- <b>influenza</b> , 604 US deaths/death rate 0.27 per 100K; GA, 0.39	--	21
248.	1979 -- <b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; GA rate 1.07	--	58
249.	1980 -- exposure to excessive natural <b>cold/hypothermia</b> ; 302 US deaths; GA	--	14
250.	1980 -- <b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; GA, 1.19	--	65
251.	1980 -- summer <b>heat</b> , esp. counties of Muscogee/26, Richmond/11, Fulton/8, GA	--	99
252.	1981 -- exposure to excessive natural <b>cold/hypothermia</b> ; 289 US deaths; GA	--	13
253.	1981 -- <b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; GA rate 0.99	--	55
254.	1981 -- June-Aug (especially), <b>heat</b> (ECD-9 E900 code for excessive natural heat), GA--	--	32
255.	1982 -- exposure to excessive natural <b>cold/hypothermia</b> ; 402 US deaths; GA	--	13
256.	1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, GA death rate 0.41	--	23
257.	1982 -- <b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, GA, 1.13	--	64
258.	1982 -- Jan 11-14, <b>extreme cold wave</b> and <b>winter storms</b> , GA	--	10-11
259.	1983 -- exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; GA (US high)--	--	36
260.	1983 -- <b>tuberculosis</b> , 1,779 US TB deaths/death rate 0.76 per 100K; GA, 0.98	--	57
261.	1983 -- summer, esp. July 21-31, <b>heat</b> , 14 counties, GA (subset of U.S. toll of 597)	--	35
262.	1983 -- Dec 17-29, <b>winter weather</b> , severe cold and exposure deaths	--	2-20
263.	1984 -- exposure to excessive natural <b>cold/hypothermia</b> ; 359 US deaths; GA	--	11
264.	1984 -- <b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; GA, 0.98	--	57
265.	1985 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; GA	--	25
266.	1985 -- <b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; GA, 1.34	--	80
267.	1985 -- summer <b>heat</b> (excessive heat/hyperthermia) subset of US 227; GA 2 <sup>nd</sup> highest--	--	26
268.	1985 -- Sep 29, <b>skydiving crash</b> , Westwind Sports & Parachute Ctr., Jenkinsburg GA--	--	17
269.	1986 -- exposure to excessive natural <b>cold/hypothermia</b> ; 301 US deaths; GA	--	12
270.	1986 -- <b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; GA, 1.17	--	71
271.	1986 -- summer <b>heat</b> , (subset of >400 U.S. heat-related fatalities); GA	--	41
272.	1987 -- <b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, GA, 0.88	--	55
273.	1987 -- summer <b>heat</b> , subset of approximately 387 US heat deaths; GA	--	24
274.	1988 -- exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; GA	--	15
275.	1988 -- <b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population: GA, 7.48--	--	473
276.	1988 -- <b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K; GA, 1.09	--	69
277.	1988 -- summer <b>heat</b> (exposure to <b>excessive natural heat</b> ), GA	--	20-21
278.	1989 -- <b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K; GA death rate 10.39--	--	667
279.	1989 -- <b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; GA, 0.86	--	55
280.	1990 -- <b>tuberculosis</b> ; 1,810 US TB deaths, death rate 0.73 per 100K; GA, 0.97	--	63
281.	1990 -- summer (esp.), <b>excessive heat</b> and hyperthermia, ICD-9 E900 code; GA	--	13
282.	1991 -- exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; GA	--	13
283.	1991 -- <b>tuberculosis</b> , 1,713 US TB deaths, death rate of 0.68 per 100K; GA, 0.81	--	54
284.	1991 -- Apr 05, <b>approach crash</b> , Atlantic Southeast Air flight 2311 Brunswick AP, GA--	--	23
285.	1992 -- <b>tuberculosis</b> , 1,705 US TB deaths, death rate of 0.66 per 100K; GA, 0.81	--	55
286.	1992 -- exposure to <b>excessive natural heat</b> , esp. July-Aug; 155 US heat deaths; GA--	--	10
287.	1993 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; GA	--	21
288.	1993 -- <b>meningococcal meningitis</b> ; US deaths 260, death rate 0.10 per 100K; GA, 0.14--	--	10
289.	1993 -- Mar 12-13, storm, eastern seaboard " <b>Superstorm of 1993</b> ," subset for GA	--	16

**Georgia (continued):**

290.	1994 --	tuberculosis	; 1,478 US TB deaths; US death rate 0.56 per 100K, GA, 0.63	--	45
291.	1994 --	July 04-10, Tropical Storm Alberto	flooding, dam failures, esp. Americus GA--32-35		
292.	1995 --	exposure to excessive natural	cold/hypothermia; 553 US deaths; GA	--	13
293.	1995 --	exposure to excessive natural	heat; 1,563-1,601 US heat-related deaths; GA--		24
294.	1995 --	tuberculosis	; 1,336 US TB deaths/death rate 0.5 per 100K; GA rate 0.60	--	44
295.	1995 --	Oct 04, Hurricane Opal,	multiple counties (deaths in 10), GA	--	13-14
296.	1996 --	exposure to excessive natural	cold/hypothermia; 685 US deaths; GA	--	13
297.	1996 --	exposure to excessive natural	heat; 249 US heat deaths; GA subset	--	11
298.	1996 --	tuberculosis	, subset 1,202 US TB deaths/death rate 0.45 per 100K, GA, 0.53	--	40
299.	1997 --	exposure to excessive natural	cold/hypothermia; 501 US deaths; GA	--	15
300.	1997 --	tuberculosis	, ICD-9 code 010-018, death rate 0.43 per 100K, GA rate 0.55	--	42
301.	1998 --	exposure to excessive natural	cold/hypothermia; 420 US deaths; GA	--	10
302.	1998 --	exposure to excessive natural	heat; 435 US heat-related deaths; GA subset	--	10
303.	1998 --	infectious colitis	/enteritis/gastroenteritis, ICD-9 code 009.0, CA death rate 0.13 per 100K-		15
304.	1998 --	tuberculosis	, ICD-9 code 010-018, death rate 0.40 per 100K; GA rate 0.44	--	35
305.	1998 --	Mar 20, tornado,	Hall (Gainesville Area) and White Counties, GA	--	12
306.	1999 --	exposure to excessive natural	cold/hypothermia; 598 US deaths; GA	--	11
307.	1999 --	exposure to excessive natural	heat; 1,050 US heat-related deaths; GA subset--		27
308.	1999 --	tuberculosis	, ICD-10 code A16-19, death rate 0.333 per 100K; GA, 0.460	--	37
309.	1999 --	July 27-29, workplace	shootings/9; family killed/3; suicide/1; Atlanta, GA <sup>198</sup> --		13
310.	2000 --	exposure to excessive natural	cold/hypothermia; 742 US deaths; GA	--	24
311.	2000 --	tuberculosis	, ICD-10 code A16-19; death rate 0.276 per 100K; GA, 0.415	--	34
312.	2000 --	Feb 13-14, tornadoes,	esp. Camilla, Mitchell County, GA	--	19
313.	2001 --	exposure to excessive natural	cold/hypothermia; 599 US deaths; GA	--	15
314.	2001 --	tuberculosis	, ICD-10 code A16-19, death rate 0.268 per 100K; GA, 0.346	--	29
315.	2001 --	Mar 03, USAF C-23	plane crash; VA NG (18) FL ANG (3), Unadilla, GA	--	21
316.	2002 --	exposure to excessive natural	cold/hypothermia; 646 US deaths; GA	--	12
317.	2002 --	exposure to excessive natural	heat, 626 US deaths, subset for GA	--	10
318.	2002 --	tuberculosis	, ICD-10 code A16-19, death rate 0.273 per 100K, GA, 0.294	--	25
319.	2003 --	exposure to excessive natural	cold/hypothermia; 620 US deaths; GA	--	12
320.	2003 --	exposure to excessive natural	heat; 426 US deaths; subset for GA	--	10
321.	2004 --	exposure to excessive natural	cold/hypothermia; 676 US deaths; GA	--	10
322.	2004 --	influenza	, ICD-10 codes J09-11; US death rate 0.376 per 100K; GA, 0.411	--	36
323.	2004 --	tuberculosis	, ICD-10 code A16-19, death rate 0.22 per 100K; GA, 0.35	--	31
324.	2005 --	exposure to excessive natural	cold/hypothermia; 700 US deaths; GA	--	11
325.	2005 --	exposure to excessive natural	heat; 939 US deaths, subset for GA	--	16
326.	2006 --	exposure to excessive natural	heat; 1,104 US deaths, subset for GA	--	12
327.	2006 --	tuberculosis	, ICD-10 code A16-19, death rate 0.22 per 100K; GA, 0.23	--	21
328.	2007 --	exposure to excessive natural	cold/hypothermia; 711 US deaths; GA	--	10
329.	2007 --	exposure to excessive natural	heat; 582 US deaths, subset for GA	--	23
330.	2008 --	exposure to excessive natural	cold/hypothermia; 641 US deaths; GA	--	15
331.	2008 --	Feb 07, explosion,	Imperial Sugar Refinery, Port Wentworth, GA	--	14
332.	2009 --	exposure to excessive natural	cold/hypothermia); 616 US deaths; GA	--	10

<sup>198</sup> Barton's suicide was by his weapon, thus making for ten gun fatalities – wife and children killed by a hammer.

**Georgia (continued):**

333.	2009 -- exposure to <b>excessive natural heat</b> ; 555 US deaths, subset for GA	--	18
334.	2009 -- <b>H1N1 "Swine Flu,"</b> spring through winter especially, GA subset	--	48
335.	2009 -- Sep 19-22, downpours, <b>flooding</b> , Greater Metropolitan Atlanta, GA	--	10
336.	2010 -- exposure to excessive natural <b>cold/hypothermia</b> ); 710 US deaths; GA	--	15
337.	2010 -- exposure to <b>excessive natural heat</b> ; 874 US deaths, subset for GA	--	28
338.	2010 -- <b>influenza</b> , GA subset, 500 US flu deaths, at 0.2 death rate per 100K; GA, 0.4--	39	
339.	2011 -- exposure to excessive natural <b>cold/hypothermia</b> ; 0.216 death rate; GA 0.214--	21	
340.	2011 -- exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for GA	--	14
341.	2011 -- Apr 27, <b>tornadoes</b> , especially Catoosa County, GA	--	15
342.	2012 -- exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; GA subset--	11	
343.	2012 -- exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for GA	--	14
344.	2013 -- exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; GA subset--	13	
345.	2014 -- exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; GA subset--	34	
346.	2014 -- exposure to <b>excessive natural heat</b> ; 360 US heat-related deaths; GA subset --	11	
347.	2015 -- exposure to excessive natural <b>cold/hypothermia</b> , 815 US deaths; GA subset--	19	
348.	2015 -- exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for GA	--	13
349.	2016 -- exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; GA subset--	19	
350.	2016 -- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for GA	--	15
351.	2016 -- <b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; GA death rate 3.4	--	348
352.	2017 -- exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths; GA subset--	25	
353.	2017 -- exposure to <b>excessive natural heat</b> ; 817 US deaths, subset for GA	--	12
354.	2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; GA death rate 3.23	--	337
355.	2017 -- Jan 22, <b>tornadoes</b> , Berrien, Brooks, Cook (Adel), Dougherty Counties <sup>199</sup>	--	16-17
356.	2018 -- exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths subset, GA--	37	
357.	2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; GA rate 3.04	--	320
358.	2019 -- exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths subset, GA--	21	
359.	2019 -- exposure to <b>excessive natural heat</b> , subset of 915 US heat deaths	--	19
360.	2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; GA 2.73 <sup>200</sup> --	290	
361.	2019 -- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, GA, 1.11	--	118
362.	2020 -- exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; GA 0.37--	28	
363.	2020 -- exposure to <b>excessive natural heat</b> ; 1,174 US deaths/ death rate 0.3; GA	--	16
364.	2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; GA 3.05	--	327
365.	2020 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; GA 0.19--	20	
366.	2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths/1,070 per 1M; GA 1,030 per 1M	--	10,954
367.	2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; GA 2.96 per M	--	20,489
368.	2021 -- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; GA death rate 2.76	--	289
369.	2021 -- <b>influenza</b> ; 608 US deaths/death rate 0.18; GA death rate 0.24	--	26
370.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; GA death rate 9.39	--	9,974
371.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for GA	--	22
372.	2023 -- <b>COVID-19</b> , subset of 71,691 US deaths; higher than avg. US death rate	--	2,067
373.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for GA	--	21

<sup>199</sup> Range has to do with missing boy, 2, reported missing near Albany, Dougherty County, where five died.

<sup>200</sup> Fourth highest death rate, behind DC, FL and MD.

### Some Select/Notable Other **Georgia** Large Loss-of-Life Events:<sup>201</sup>

1597 --	Natives <b>massacre</b> St. Francis Missionaries, Guale (St. Catherine Island), GA	--	5
1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	--	128
1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), AL	--	38
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	--	202
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	--	279
1853 --	by Apr 16, <b>smallpox</b> outbreak, Oglethorpe, GA	--	9
1860 --	<b>measles</b> (subset of 3,900 US measles deaths); GA	--	47
1870 --	<b>whooping cough</b> (subset of 9,008 US whooping cough deaths); GA	--	92
1870 --	<b>typhus</b> (subset of 1,770 US typhus deaths); GA	--	29
1879 --	June-May 1880, <b>meningitis</b> (subset of 7,481 US meningitis deaths); GA	--	138
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (subset, 16,388 US S.F. deaths); GA	--	31
1881 --	<b>diphtheria</b> , especially Augusta (12) and Savannah (33), GA	--	49
1886 --	Aug 31, Charleston, SC <b>earthquake</b> and indirectly-related GA deaths	--	5
1889-90--	June 1-May 31, <b>Diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; GA	--	152
1897 --	Mar 22, <b>tornado</b> , school, Arlington, GA	--	8
1900 --	<b>diphtheria</b> (subset of 16,475 US diphtheria deaths in 1900); GA	--	133
1900 --	<b>measles</b> (subset of 12,866 US measles deaths); GA	--	201
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths); GA	--	258
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths); GA	--	44
1900 --	<b>smallpox</b> (subset of 8,484 US smallpox deaths); GA	--	16
1907 --	<b>typhoid fever</b> , Atlanta and Savannah; ~13,000 US deaths; subset for GA	--	164
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; Atlanta, Augusta, Savannah--	32	
1915 --	Mar 06, Monroe Phillips <b>shooting</b> rampage (kills 6, is shot) Brunswick, GA	--	7
1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K (four cities), GA	--	59
1920 --	<b>diphtheria and croup</b> , subset of 13,395 such deaths in 34 registration states); GA--	43	
1920 --	<b>typhoid fever</b> , subset of 6,805 typhoid fever deaths, 34 registration states); GA <sup>202</sup> --	60	
1920 --	<b>whooping cough</b> , Atlanta, 58; Augusta, 13; Brunswick, 2; Savannah, 19, GA	--	92
1931 --	<b>epidemic cerebrospinal meningitis</b> (Census), subset of 2,832 meningitis deaths; GA--	58	
1931 --	<b>measles</b> , especially children (subset of 3,576 US measles deaths); GA	--	67
1931 --	<b>polio</b> , esp. July-Oct, (subset of 2,139-2,144 US polio deaths, esp. children); GA	--	30
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; GA death rate 3.9	--	112
1936 --	Jan 18, <b>tornado</b> , Calhoun County, GA	--	7
1940 --	<b>polio</b> (subset of 1,026 US polio deaths); GA	--	14
1944 --	<b>cerebrospinal meningitis</b> , subset of 2,812 US cerebrospinal meningitis deaths; GA--	62	
1945 --	Jan 10, <b>USAAF B-25</b> low altitude training/right wing hits tree, Godfrey, GA	--	all 5
1947 --	Feb 13, <b>USAAF Beechcraft Expeditor crash</b> after takeoff, Warner Robins, Macon GA--	7	
1947 --	Apr 22, <b>civilian Vultee BT-13 lands on top of Delta Airlines plane</b> , Columbus, GA--	9	
1948 --	July 15, <b>private converted army training plane crash</b> near Junction City, GA	--	all 5
1948 --	Oct 06, <b>USAF B-29 fire and explos./crash</b> after Robins AFB taking off ~Waycross, GA--	9	
1949 --	<b>polio</b> , July-Nov especially; 2,720 US polio deaths; subset for GA	--	11
1950 --	<b>measles</b> ; subset of 468 US polio deaths	--	9

<sup>201</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>202</sup> GA was not a registration state, but four cities reported: Atlanta with 28, Augusta/18, Brunswick/5, Savannah/9.



**Georgia (continued):**

1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	--	17
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths	--	26
1951 --	Jan 28, <b>traffic</b> accident, Toccoa, Stephens County, GA	--	7
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths	--	30
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for GA	--	413
1952 --	<b>typhus</b> /other rickettsial diseases (codes 100-108), 29 US deaths, 17 States, esp. GA--	6	
1953 --	<b>polio</b> , subset of 1,450 US polio deaths	--	9
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for GA	--	439
1954 --	<b>polio</b> , acute; 1,400 US deaths; GA subset	--	17
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; GA subset	--	303
1954 --	Jan 04, <b>fire</b> , residential home, 5 children die, Oglethorpe, GA	--	5
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; GA subset	--	253
1955 --	Jan 31, <b>fire</b> , mother and children, home oil stove, Lakeview, GA	--	5
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; GA	--	253
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; GA subset	--	240
1958 --	<b>diphtheria</b> ; 74 US deaths; GA subset (highest in the country)	--	9
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; GA subset	--	269
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; GA subset	--	211
1959 --	Apr 25, <b>fire</b> , Waldrop residence, Hill City, near Calhoun, GA	--	6
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; GA death rate 5.4	--	211
1961 --	<b>tuberculosis</b> ; 9,938 US deaths/death rate 5.4 per 100k; GA death rate 4.9	--	197
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; GA 4.3	--	178
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; GA death rate 3.7	--	152
1963 --	<b>whooping cough</b> (pertussis); 115 US deaths; GA	--	8
1963 --	Jan 18-28, <b>cold wave</b> (GA subset of 315-352 US deaths)	--	5-9
1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; GA death rate 0.2	--	9
1964 --	<b>scarlet fever and streptococcal sore throat</b> ; 95 US deaths; GA	--	5
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; GA death rate 2.8	--	119
1964 --	<b>whooping cough</b> (pertussis), 93 US deaths; GA deaths	--	7
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; GA death rate 3.4	--	150
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for GA	--	63
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; GA death rate 2.47	--	110
1968 --	Dec 29-Mar 01, A2 "Hong Kong" <b>influenza-pneumonia</b> epidemic, 2 cities <sup>203</sup>	--	89
1969 --	<b>excessive natural heat</b> , ICD-8 code E900; 271 US deaths; GA	--	9
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; GA death rate 2.61	--	118
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; GA 2.39--	110	
1971 --	excessive natural <b>cold</b> ; ICD-8 code E901; 361 US deaths; GA	--	7
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; GA death rate 2.06	--	97
1971 --	June 04, <b>car</b> hits semi-trailer carrying dynamite, fire, <b>explosion</b> , ~Waco, GA	--	6
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; GA death rate 1.66	--	80
1973 --	Feb 26, bird strike on takeoff, <b>plane crash</b> , Peachtree-Dekalb AP, Atlanta, GA	--	7
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; GA, 1.72	--	87
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; GA death rate 1.46	--	74

<sup>203</sup> Just Atlanta and Savannah; data from CDC MMWR 122 cities. U.S. influenza epidemic death toll was 33,800.



**Georgia (continued):**

1975 --	<b>whooping cough</b> (pertussis; ICD-8 code 033.0); 8 US deaths/death rate 0.004; GA--	1
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; GA/2.1--	106
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; GA death rate 1.80	-- 95
1978 --	Nov 30, Piper Cherokee Six plane crash, Albany Airport, GA	-- 5
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, GA death rate 0.26	-- 26
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, GA death rate 0.97	-- 54
1983 --	<b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, GA death rate 0.23	-- 13
1983 --	Aug 31, <b>fire</b> , mentally handicapped home, Annandale Village, Suwanee, GA	-- 8
1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, GA death rate 0.21	-- 12
1984 --	summer <b>heat</b> (ICD-9 E900 code, <b>excessive heat/hyperthermia</b> ) subset of 228	-- 7
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, GA death rate 0.72	-- 43
1985 --	Jan 20-23, <b>winter weather, exposure/hypothermia</b> ; GA	-- 8
1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: GA death rate 0.46	-- 28
1986 --	Jan 17, <b>Capital Control Cessna Super Skymaster</b> flies into Mt., Blairsville, GA--	all 5
1986 --	Apr 09, <b>US Army Chinook helicopters collide</b> at night, Fort Steward Army Base GA--	8
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; GA death rate 5.23	-- 325
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; GA, 0.62	-- 39
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; GA, 0.48	-- 31
1989 --	Apr 29, <b>private Beechcraft flies too-low</b> in adverse weather into terrain, Suches, GA--	5
1989 --	Aug 02, <b>private Beechcraft takeoff crash</b> , Albany, GA	-- all 6
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; GA, 0.76	-- 49
1990 --	Oct 10-12, <b>Tropical Storm Marco</b> (and Klaus remnants), drownings, GA	-- 5
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K; GA, 0.26 per 100K	-- 17
1991 --	Dec 11, Bruno's Inc. <b>Beechcraft Beechjet flies into Lavender Mt.</b> , (low ceiling), GA--	9
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate of 0.40 per 100K, GA, 0.17 per 100K	-- 12
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate of 0.63 per 100K; GA, 0.49	-- 34
1993 --	Feb 3, <b>Lockheed Hercules test runway taxi crash</b> , rudder disengaged, Marietta-Dobbins AFB, GA--	7
1993 --	Nov 01, <b>Piper 300T engine failure/crash after takeoff</b> ¼ mile from AP, Wren, GA--	5
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; GA, 0.42 per 100K	-- 30
1994 --	Jan 14-21, <b>extreme cold and snow</b> , GA	-- 7
1995 --	Aug 21, <b>Atlantic Southeast Airlines 529 plane crash</b> , , near Carrollton, GA <sup>204</sup>	-- 9
1996 --	<b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; GA, 0.133	-- 10
1996 --	July 27, Centennial Olympic Park <b>bombing</b> , Atlanta, GA	-- 2
1997 --	<b>influenza</b> , code 487.0; US death rate 0.264 per 100K (720 US deaths); GA, 0.156	-- 12
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; GA, 0.15	-- 12
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; GA, 0.261	-- 21
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; GA, 0.330	-- 27
2003 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; GA, 0.545	-- 47
2003 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; GA, 0.17	-- 15
2004 --	Sep 05-06, <b>Hurricane Frances</b> , GA	-- 8
2005 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; GA, 0.2.2	-- 18
2005 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; GA, 0.17	-- 15
2006 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; GA, 0.175	-- 16

<sup>204</sup> Eight fatalities at the time or shortly thereafter; one passenger four months later due to burns/inhalation injuries.

**Georgia (continued):**

2007 --	<b>tuberculosis</b> , death rate 0.184 per 100K; GA, 0.171	--	38
2007 --	Mar 02, baseball team bus <b>crash</b> , Bluffton University, Atlanta GA	--	7
2008 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; GA, 0.35	--	33
2008 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; GA rate 0.15	--	14
2009 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; GA, 0.9--		85
2009 --	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); GA, 0.3	--	26
2009 --	<b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.2 per 100K; GA, 0.1	--	14
2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K; GA, 0.8	--	73
2010 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; GA death rate 0.2--		18
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; GA, 1.5	--	146
2011 --	<b>diarrhoea/gastroenteritis</b> , of infectious origin; US death rate 0.9 per 100K; GA, 0.8	--	74
2011 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; GA, 0.2	--	23
2011 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.2 per 100,000; GA, 0.1	--	12
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; GA, 1.8	--	176
2012 --	<b>diarrhoea/gastroenteritis</b> , of infectious origin; US death rate 0.8 per 100K; GA, 0.6--		63
2012 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; GA, 0.3	--	34
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; GA 2.0	--	197
2012 --	<b>tuberculosis</b> , ICD-10 code A16-A19; US death rate 0.2 per 100,000; GA was 0.1	--	20
2013 --	<b>diarrhoea/gastroenteritis</b> , of infectious origin; US and GA death rate 0.8 per 100K	--	80
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; GA, 1.9	--	185
2013 --	<b>influenza</b> , ICD-10 Codes J09-J11.8; US death rate 1.2 per 100,000; GA rate 0.7	--	69
2013 --	<b>tuberculosis</b> , ICD-10 Code A16-19, US death rate 0.2 per 100K; GA rate 0.1	--	14
2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; GA, 0.7--		67
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; GA, 2.2	--	218
2014 --	<b>influenza</b> (ICD-10 codes J09-11.8), US death rate 1.4 per 100,000; GA rate 1.1	--	113
2014 --	<b>tuberculosis</b> , ICD-10 Code A16-19; US death rate 0.2 per 100,000; GA rate 0.7	--	12
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, GA, 0.7--		68
2015 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100,000; GA rate 0.6	--	65
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; GA, 1.8	--	183
2016 --	<b>diarrhoea &amp; gastroenteritis</b> , infectious origin; US and GA death rate 0.7 per 100K	--	69
2016 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.9 per 100,000; GA rate 0.5	--	54
2016 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US & GA death rate 0.2 per 100,000	--	18
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; GA rate 1.5	--	155
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; GA death rate 0.75	--	78
2017 --	<b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; subset for GA--		12
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., GA rate 2.31	--	243
2018 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; GA subset	--	14
2018 --	May 02, <b>Puerto Rico Air National Guard C-130 plane crash</b> , ~Savannah, GA <sup>205</sup> --		9
2019 --	<b>tuberculosis</b> , ICD-10 codes A16-A19 (526 US TB deaths); subset for GA	--	16
2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; GA death rate 1.57	--	168
2020 --	Apr 13, <b>tornadoes</b> , especially Murray County (7 deaths), Bartow County (1)	--	8
2021 --	exposure to excessive natural cold; 1,179 US deaths/death rate 0.36; GA rate 0.23--		25
2021 --	Mar 16, <b>mass shootings</b> , two Atlanta, one Cherokee County Spas, GA	--	8

<sup>205</sup> Cross-listed in Puerto Rico.

Breakout by Type of **Georgia** Large Loss-of-Life Events (10 or more fatalities):

- 182 -- **Disease**, especially communicable, especially epidemics. (Plus 129 in "Other.")
- 45 -- **Winter Weather/cold/hypothermia (exposure to natural cold)**. Plus 5 years.)
- 39 -- **Heat**. (Plus 2 years 7 and 9 deaths: 9 in 1969, 7 in 1984.)
- 28 -- **Tornadoes**. (We take note of 3 <10 deaths: 8 in 1897 at school, 7 in 1936, 8 in 2020.)
- 19 -- **Maritime and Inland waterways**. (Does not include Sep 1804 hurricane.)
- 17 -- **Aviation**. (Plus 15 events noted with 5-9 deaths each. One overseas.)
- 11 -- **Hurricanes/Tropical Storms**. (Plus 2 events >10 deaths: 5 in 1990, 8 in 2004.)
- 11 -- **Rail**
  - 7 -- **Fire, Structural**. (Plus 4 – one with 8, one with 6 and two with 5 deaths each.)
  - 5 -- **Flooding**. One event is cross-listed in rail in that a flash flood took out a trestle.
  - 5 -- **Structural Failure**.
  - 4 -- **Road/Highway**. (Plus 3 – two with 7 deaths each and one with 6 in "Other".)
  - 3 -- **Violence**. (Plus 3; two with 8 deaths; 1 with 7 (including the shooter) in "Other".)
  - 3 -- **Explosions**. (Plus 1 event with 6 deaths.)
  - 1 -- **Poisoning (accidental)**
  - 1 -- **Wood Alcohol Poisoning**.
  - 0 -- **Earthquake** (5 deaths indirectly related to 8-31-1897 Charleston SC earthquake.)

## HI

## Hawaii

1. 1779 -- Feb 14, boat theft, hostage-taking attempt, **violence**, Cpt. James Cook/Hawaiians-- 22
2. 1790 -- Jan late, Olowalu **massacre**, Cpt. Metcalfe, *Eleanora*, fires on Native canoes, Maui>100
3. 1790 -- Nov, Kilauea **volcano eruption**, Island of Hawai'i, HI -- ≥400
4. 1804 -- **epidemic**, possibly cholera (or typhoid or plague) Natives, Oahu, Hawaii >3,000
5. 1829 -- brig **Kamehameha** lost, left Honolulu, HI Dec 2, for Erromango Island --250~300
6. 1837 -- Nov 07, **tsunami**, Islands of Maui and Hawaii, HI --15-≥16
7. 1840 -- May 10, schooner **Keola** sinks after ballast shifts, off Kahoolawe, Hawaii --26-36
8. 1848 -- Sep-early '49, **measles/whooping cough/dysentery/influenza** epidemics --10,000
9. 1853 -- **smallpox** epidemic, especially Oahu ≥5,000->6,000
10. 1857 -- Mar 13, schooner **Kamamalu** sails from Honolulu for Hilo, lost -- ~70-72
11. 1860 -- Sep 18, U.S. Navy Sloop-of-War **Levant** sails SE from Hilo, HI, lost --150-210
12. 1868 -- Apr 02, **volcano** induced **earthquake, landslides/tsunami**, Hawaii Isl., HI --79-81  
 1868 -- Apr 02, **landslides**, Hawaii Island, HI -- 31  
 1868 -- Apr 02, **Tsunami**, Hawaii Island, HI --46-47
13. 1881 -- Jan-May (especially), **smallpox** epidemic, especially Honolulu, HI -- 282
14. 1892 -- Feb 02, San Francisco, CA whaling bark **Tamerlane**, strands, Puna Island, HI --18-19
15. 1895 -- Mid-Aug-Oct 3, **cholera** epidemic, Honolulu, HI --63-65
16. 1899 -- Dec 11-March 31, 1900 -- **bubonic (black) plague** (Asian ship), Honolulu, HI-- 61
17. 1915 -- Mar 25, **submarine Skate (F-4) sinks**, near Honolulu Harbor, HI -- 21
18. 1916 -- Jan 18, heavy rain, **flooding**, Iao Valley, especially Wailuku, Maui, HI --13-14
19. 1918 -- Sep-Apr 1919, **influenza** outbreaks, HI -- 608  
 1918 -- Sep-Dec, **influenza** outbreak, HI -- 149  
 1919 -- Jan-Apr, **influenza** outbreak, HI -- 459
20. 1920 -- **influenza** outbreak, HI -- 866
21. 1924 -- Sep 09, labor **violence**, Filipino strikers/Sheriffs clash, Hanapepe, Kauai, HI -- 20
22. 1930 -- Nov 18, heavy rain, **flooding**, Kalihi neighborhood in Honolulu, Hawaii -- 12
23. 1938 -- Mar 30, war games, **2 USN Consolidated patrol bombers crash**, off Oahu, HI-- 11
24. 1941 -- Dec 07, **Pearl Harbor attack** by Japan, HI --2,402
25. 1942 -- Apr 05, **plane crash**, USAAF B-17 Flying Fortress Bomber, Oahu, HI -- 10
26. 1943 -- July 07, **plane crash**, USN PB4Y1 Liberator, off NAS Barbers Pt., Oahu, HI -- 11
27. 1943 -- Aug 09, **U.S. Navy bomber crashes into bus**, Pearl Harbor Navy Yard, HI -- 11
28. 1943 -- Dec 7, **USN planes collide, bomb falls, Marines on ground killed**, Maui, HI-20-22
29. 1944 -- May 05, **USAAF plane crash**, out of Hickam Field HI, Aiea Ridge, Oahu, HI-- 10
30. 1944 -- May 14-21, heavy seas, **sleeping Marines in LCT pitched overboard** off *LST-485*, HI-- 19
31. 1944 -- May 21, **munitions explosion**, West Loch, Pearl Harbor, HI -- 163
32. 1944 -- June 08, **USAAF bombers collide**, homes burn, kill civilians, Honolulu, HI -- 14
33. 1944 -- June 11, **torpedo warheads explode**, Naval Ammunition Depot, Oahu, HI -- 10
34. 1944 -- Nov 11, **US Air Transport Command C-54 plane crash**, 50 miles off Oahu, HI--17
35. 1945 -- Feb 01, **USN PBY-5A crash**, night navigation trng., Kaneohe NAS, Oahu, HI-- 10
36. 1946 -- Apr 01, **tsunami**, especially Hilo and Laupahoehoe, HI --159-173
37. 1947 -- Aug 16, **USAF B17 runs out of fuel/ditches** 50M off Barbers Point, Kalaeloa, HI-- 10
38. 1948 -- Aug 24, **USAF B-29 engine loss on takeoff, emer. lndg. crash** Hickam AFB, HI-- 16
39. 1953 -- July 12, Transocean Air Flight 512 **plane crash**, Pacific Ocean, Wake Is. to HI-- 58
40. 1955 -- Mar 22, **USN R6D-1 flies into Waianae Range** ~Lualualei Navy Depot, HI --all 66



**Hawaii (continued):**

41.	1957 -- July 23,	USN P-2 Neptune stalls/crashes	off Barbers Point Naval Air Sta., HI	--all 10
42.	1957 -- fall-spring 1958,	H2N2 Asian influenza/pneumonia pandemic	(US 116K)	-- 146
43.	1957 -- Dec 23,	USN WV-2 simulation goes awry/crash,	off Kahuku Pt., Oahu, HI	-- 19
44.	1960 -- May 23,	tsunami	from Great Chilean (Valdivia) Earthquake, Hilo, Hawaii	-- 61
45.	1962 -- July 22,	plane crash,	Canadian Pacific Airlines, Honolulu, HI	-- 27
46.	1966 --	tuberculosis,	7,625 US TB deaths; subset for HI	-- 28
47.	1969 -- Jan 14,	USS Enterprise explosions and fire,	off Pearl Harbor, Hawaii	-- 28
48.	1972 --	tuberculosis;	4,376 US deaths, death rate 2.09 per 100K; HI 2.17	-- 18
49.	1974 -- Apr 11,	Panorama Air sightseeing plane crash,	Mauna Loa, Hawaii Isl., HI	-- 11
50.	1978 -- Dec 10,	MV Holo Holo	(Univ. of HI) sinks, rough seas west of Kawaihae, HI	-- 10
51.	1981 -- Dec 05,	plane crash,	Jump Hawaii Club (pilot error), Honolulu, HI	-- 11
52.	1983 -- June 16,	plane crash,	US Navy P-3B Orion (152720), into Mountain, Kauai, HI--	14
53.	1984 --	tuberculosis,	1,729 US TB deaths, death rate 0.73 per 100K; HI, 0.97	-- 10
54.	1985 --	influenza,	2,054 US flu deaths, death rate 0.86 per 100K, HI, 0.96	-- 10
55.	1988 --	tuberculosis,	1,921 US TB deaths, death rate 0.78 per 100K; HI, 1.48	-- 16
56.	1989 -- June 11,	plane crash,	Scenic Air Tours (N34AP), Waipio Valley, HI	-- 11
57.	1989 -- Oct 28,	crash, Aloha Island Air	flight 1712 flies into high terrain, Molokai, HI--	20
58.	1991 --	tuberculosis,	1,713 US TB deaths, death rate 0.68 per 100K, HI, 1.05	-- 12
59.	1997 --	tuberculosis,	ICD-9 code 010-018, death rate 0.43 per 100K, HI, 0.99	-- 12
60.	1998 --	influenza,	ICD-9 code 487.0; US death rate 0.62 per 100K; HI, 0.82	-- 10
61.	1999 -- Sep 25,	plane crash,	Big Island Air Piper (N411WL) Kailua Kona, HI	-- 10
62.	2009 --	H1N1 "Swine Flu,"	especially spring through winter,	-- 13
63.	2010 --	viral hepatitis,	ICD-10 code B15-B19; US death rate 2.4 per 100K; HI, 2.9	-- 40
64.	2011 --	viral hepatitis,	ICD-10 code B15-B19, US death rate 2.5 per 100K; HI, 3.0	-- 41
65.	2013 --	diarrhoea/gastroenteritis,	infections origin; US death rate 0.8 per 100K; HI 1.1--	15
66.	2013 --	viral hepatitis,	ICD-10 code B15-B19; US death rate 2.6 per 100,000; HI 2.7--	38
67.	2014 --	diarrhoea/gastroenteritis,	infections origin; US death rate 0.8 per 100K; HI 1.4--	20
68.	2014 --	viral hepatitis,	ICD-10 code B15-B19, US death rate 2.5 per 100,000; HI, 3.2--	46
69.	2015 --	diarrhoea/gastroenteritis,	infections origin; US death rate 0.8 per 100K, HI 1.4--	20
70.	2015 --	influenza,	ICD-10 codes J09-11; US death rate 1.6 per 100,000; HI had 2.7	-- 39
71.	2016 --	diarrhoea/gastroenteritis,	infections origin; US death rate 0.7 per 100K, HI 1.3--	19
72.	2016 --	influenza,	ICD-10 codes J09-11; US death rate 0.9 per 100,000; HI had 1.1	-- 16
73.	2016 --	viral hepatitis,	ICD-10 code B15-B19; US death rate 2.0 per 100K; HI, 2.4	-- 34
74.	2016 -- Jan 14,	two Marine helicopters crash	off Haleiwa, Oahu, HI	-- 12
75.	2017 --	influenza;	6,515 US deaths/death rate 2.0 per 100K pop.; HI rate 2.87	-- 41
76.	2019 --	influenza;	subset of 5,902 US deaths, 1.08 death rate per 100K, HI, 2.40	-- 34
77.	2019 -- June 21;	plane crash,	skydiving charter, Dillingham Airfield, Oahu, HI	-- 11
78.	2023 -- Aug 08,	wildfires	spurred on by hurricane Dora winds, Maui, esp. Lahaina, HI	-- 100

**Some Select/Notable Other Hawaii Large Loss-of-Life Events:<sup>206</sup>**

1877 -- May 10,	tsunami	in Hawaii from Chilean Earthquake HI	-- 5
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<sup>206</sup> We include in "Other" two types: (1) select events with fewer than 10 lives were lost, and (2) diseases causing more than ten lives lost, but below US or "Registration Area" average death rate when we have those statistics.

**Hawaii (continued):**

1916 --	<b>diphtheria</b> , especially children; subset, >8,000-17,000 US diphtheria deaths; HI	--	35
1919 --	<b>diphtheria</b> (HI subset, 9,160 US diphtheria deaths)	--	26
1925 --	<b>diphtheria</b> (HI subset, 8,058 US diphtheria deaths)	--	47
1925 --	<b>dysentery</b> (HI subset, 3,257 US dysentery deaths)	--	11
1925 --	<b>influenza</b> (HI subset of 30,538 US influenza deaths)	--	24
1925 --	<b>measles</b> (HI subset, 2,404 US measles deaths)	--	29
1925 --	<b>meningococcus meningitis</b> (HI subset, 1,095 US meningitis deaths)	--	11
1925 --	<b>tuberculosis</b> (HI subset, 89,268 US tuberculosis deaths)	--	389
1925 --	<b>typhoid fever</b> , HI subset, 8,287 US typhoid fever deaths)	--	17
1931 --	<b>epidemic cerebrospinal meningitis</b> (HI subset, 2,832 US meningitis deaths)	--	18
1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--	379
1944 --	July 02, Army <b>truck</b> overturns, Farrington Hwy, Waialua, Oahu, hits pedestrians	--	7
1945 --	Jan 23, <b>US Navy PBM-5 Mariner</b> crash shortly after takeoff, near Mokol'i, Oahu, HI--		8
1945 --	May 05, <b>US Navy PV-2 Harpoon</b> night takeoff crash from NAS Kaneohe, Oahu, HI--		5
1945 --	Dec 06, <b>USAAF B-24 Liberator crash</b> into reef 1 mile west of Hickam AAF, Oahu, HI--		6
1946 --	Aug 08, <b>US Navy PBV plane</b> crashed into sea off Oahu, HI	--	all 8
1946 --	Oct 12, <b>US Navy Beechcraft</b> JRB-4 breaks apart in flight, crashed off Barber's Pt., HI--		5
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for HI	--	63
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for HI	--	63
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for HI	--	39
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; subset for HI	--	40
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; HI death rate 2.2	--	14
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; HI death rate 4.1	--	27
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; HI 3.3	--	23
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; HI death rate 2.7	--	19
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; HI death rate 4.1	--	29
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; HI death rate 3.1	--	22
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; HI 2.80	--	21
1968 --	Dec 29-Feb 1, A2 "Hong Kong" <b>influenza-pneumonia</b> epidemic, Honolulu data <sup>207</sup> --		17
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; HI 2.24	--	17
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; HI 1.55--		12
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; HI/1.87	--	15
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; HI, 1.41	--	12
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; HI 1.29 per 100K	--	11
1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; HI, 0.92	--	8
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; HI, 1.47	--	13
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; HI/2.4--		22
1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; HI death rate 1.09	--	10
1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; HI, 0.93	--	9
1983 --	<b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K; HI, 0.79	--	8
1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; HI, 0.76	--	8
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; HI, 4.11	--	44
1987 --	Dec 23, <b>Panorama Air Tours</b> plane presumed eng. loss crash 13M off Maunaloa, HI--		8

<sup>207</sup> Data is from CDC MMWR reporting from 122 U.S. cities. U.S. influenza epidemic death toll was 33,800.

**Hawaii (continued):**

1988 --	<b>HIV/AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; HI, 5.64	--	61
1989 --	<b>HIV/AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; HI 6.11	--	67
1989 --	Feb 24, <b>United Airlines 811</b> (355 aboard) cargo door failure over Pacific near Hawaii--		9
1992 --	Jan 14, <b>Cessna flight missing</b> , flew into instrument flight rules weather ~45M N of Maui HI--		5
1992 --	Apr 22, <b>Scenic Air Tours crash</b> , entered cloud-shrouded terrain, Mt. Haleakala, HI--		9
1992 --	Sep 16, <b>Hawaii Helicopters sightseeing crash</b> , rain clouds obscuring mts., Mt. Haleakala, HI--		7
1992 --	Sep 11, <b>Hurricane Iniki</b> (Category 4), Kauai, HI	--	6
1996 --	Nov -1, <b>Piper 200 flies into mountain ridge in darkness and heavy rain</b> , near Halawa, HI--		5
1999 --	Nov 02, workplace mass murder <b>shootings</b> , Xerox, Honolulu, HI <sup>208</sup>	--	7
2006 --	Mar 14, Ka Loko (Kaloko) <b>earthen dam failure</b> (and flooding), Kauai, HI	--	7
2009 --	<b>diarrhoea/gastroenteritis</b> of infections origin; US death rate 0.9 per 100K; HI, 0.7--		10
2010 --	<b>diarrhoea and gastroenteritis</b> of infections origin (ICD-10 code A09) <sup>209</sup>	--	10
2012 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100,000; HI 2.6	--	36
2013 --	<b>influenza</b> , ICD-10 Codes J09-J11; US death rate 1.2 per 100,000; HI rate 0.7	--	10
2014 --	<b>influenza</b> (ICD-10 codes J09-11), US avg. death rate 1.4 per 100,000; HI had 0.9	--	13
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; HI, 1.8	--	25
2016 --	<b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; HI rate 1.0	--	14
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; HI subset	--	12
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; HI subset	--	11
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., HI death rate 2.04	--	29
2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths/rate 1,070 per 1M; HI rate 203 per 1M pop.--		288
2020 --	<b>influenza</b> ; <sup>210</sup> 5,943 US deaths/death rate 1.8 per 100K; HI death rate 1.56	--	22
2020 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; HI	--	10
2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; HI rate 770 per 1M	--	802
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; HI subset	--	11
2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; HI death rate 3.63	--	514
2023 --	<b>COVID-19</b> ; 71,691 US deaths/death rate 3,598 per 1 mil., HI 1,486	--	346

**Breakout by Type of Hawaii Large Loss-of-Life Events (10 or more fatalities):**

- 31 **Disease**, select communicable, especially epidemics. (Plus 55 in "Other.")
- 24 **Aviation**. (Plus 11 events noted with 5-9 deaths each.)
- 9 **Maritime**
- 4 **Tsunami**. (Plus 1 in "Other.")
- 4 **Violence**. (Plus one with 7 fatalities.)
- 3 **Explosions**. (Includes cross-listing of 1969 maritime explosion.)
- 2 **Flooding** (Plus 1 event in "Other" due to structural failure of earthen dam.)
- 2 **Volcano** eruption. (1 cross-listed with Earthquake, Landslide and Tsunami)
- 1 **Earthquake**.
- 1 **Landslide**.
- 1 **Wildfire**

<sup>208</sup> Cross-listed in Violence subsection Mass Murder.

<sup>209</sup> National death rate was 0.9 per 100,000. HI had below average death rate of 0.7.

<sup>210</sup> Distinct from 47,601 pneumonia deaths in 2020 (ICD codes J12-J18).

**Hawaii (continued):**

- 0 **Hurricane.** (But one, Iniki, in 1992, with six deaths.)
- 0 **Structural Failure.** (Seven died in 2006 earthen dam failure.)



## ID

## Idaho

1. 1832 -- July ~12, **Battle** of Pierre's Hole, fur-trappers, natives on both sides, ID -- 13
2. 1852 -- **cholera**, especially Fort Boise and Fort Hall areas, and along Oregon Trail -- ~96
3. 1854 -- Aug 20, Ward **massacre**, Natives attack wagon train, Boise River, ~Caldwell, ID--19
4. 1863 -- Jan 29, US Army **massacre** Shoshone, camp on Bear River, Utah Terr., ID --250-493
5. 1866 -- May 19, **massacre** of Chinese miners by Natives, near Battle Creek, OR? -- 120
6. 1877 -- June 13-16, Nez Perce young men with grievances **kill settlers**, so. Tolo Lake area, ID--16-18
7. 1877 -- June 17, **battle**, Nez Perce vs. 2 companies 1<sup>st</sup> Cavalry, White Bird Canyon, ID--US 34
8. 1877 -- July 3, Cottonwood **Battle**, US Army chasing retreating Nez Perce, Cottonwood, ID--13
9. 1877 -- July 10, Chief Joseph's Nez Perce **massacre** Chinese, Clearwater River, ID --30-31
10. 1877 -- July 11-12, **Battle** of the Clearwater, US Army attacks Nez Perce, Idaho Co., ID-- 21
11. 1878 -- Apr 21, **tornadoes**, six Counties, IA -- 27
12. 1906 -- Feb 27, **avalanche**, Wallace, ID -- 75
13. 1909 -- July 31, **electric trains collide** head-on, Gibbs, near Coeur d'Alene, ID -- 16
14. 1910 -- Feb 27-28, **snowslides**, Coeur d'Alene District, esp. Mace, Burke, Mullan, ID--19-24
15. 1910 -- Aug 20-Sep 9, **wildfires**, esp. Big Creek, Storm Creek, Bullion Mine areas -- 84
16. 1917 -- Feb 25, **avalanche**, North Star Mine, Hailey, ID -- 16
17. 1918 -- **influenza and pneumonia** epidemic, ID --9,000
18. 1925 -- **polio** (ID subset, 1,518 US polio deaths) -- 42
19. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; ID, 11.4 -- 51
20. 1936 -- Oct 06, Morning Mine Lead **Mine** shaft accident, Mullan, ID -- 10
21. 1942 -- Dec 02, **U.S. Army Air Force B-17 plane crash**, near Grace, ID -- 10
22. 1943 -- Jan 15, **U.S. Army Air Force B-17 plane crash**, Gowen Field, ID -- 10
23. 1943 -- Aug 16, **U.S. Army Air Force B-24E plane crash**, Gowen Field, Boise, ID -- 10
24. 1944 -- Dec 29, **USAAF B-24J structural failure**, poor weather, crash ~Meridian, ID-- 10
25. 1945 -- Mar 06, **USAAF B-24D, AP approach crash**, 1M ~Mountain Home AAF, ID--all 10
26. 1949 -- **polio**, especially July-Nov (ID subset of ~2,725 polio deaths nationwide) -- 15
27. 1952 -- **polio** outbreak, especially children, ID -- 23
28. 1953 -- Jan 07, **Associated Air Transport** (mil. charter) crash/turbulence, W of Fish Haven, ID--all 40
29. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) -- 194
30. 1958 -- Oct 09, **USAF C-123B transport crash** ~Little Willow Creek & Payette, ID --all 19
31. 1961 -- **influenza**, 2,137 US deaths/death rate 1.2 per 100K; ID death rate 2.0 -- 14
32. 1963 -- **influenza**, 7,083 US deaths/death rate 3.8; ID death rate 5.8 -- 41
33. 1964 -- **influenza**; 1,687 US deaths/date rate 0.9 per 100K; ID death rate 2.3 -- 16
34. 1965 -- **influenza**, 2,295 US deaths/death rate 1.2 per 100K; ID death rate 1.7 -- 12
35. 1966 -- **influenza**; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for ID -- 31
36. 1968 -- **influenza**, ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; ID 4.1-- 28
37. 1969 -- **influenza**, ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; ID 4.4-- 31
38. 1970 -- **influenza**; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; ID 4.2 -- 30
39. 1972 -- May 02, Sunshine Silver **Mine** fire and CO gas asphyxiation, Kellogg, ID -- 91
40. 1973 -- **influenza**; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; ID 7.42<sup>211</sup> -- 58
41. 1976 -- **influenza**; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; ID/11.5-- 99
42. 1976 -- June 5, **Teton Dam failure/flood**, Teton River, ~Newdale, Southeast Idaho --11-12
43. 1978 -- **influenza**, 4,052 US flu deaths/death rate 1.82 per 100K; ID death rate 3.83 -- 35

<sup>211</sup> Idaho had the highest death rate of any State in 1973. In 1974 influenza deaths dropped to 8.

**Idaho (continued):**

44.	1979	--	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; ID death rate 1.18	--	11
45.	1979	--	June 11, US Forest Service <b>plane crash</b> , Selway River, Nez Perce Nat. Forest ID--10		
46.	1980	--	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, ID death rate 2.64	--	25
47.	1981	--	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, ID, 3.12	--	30
48.	1982	--	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, ID death rate 1.33	--	13
49.	1983	--	<b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, ID, 2.65	--	26
50.	1984	--	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, ID, 1.21	--	12
51.	1985	--	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, ID, 1.51	--	15
52.	1986	--	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: ID, 1.01	--	10
53.	1988	--	exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; ID	--	10
54.	1988	--	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; ID, 3.66	--	36
55.	1990	--	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; ID, 2.28	--	23
56.	1991	--	<b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K; ID, 1.34	--	14
57.	1993	--	<b>influenza</b> , 1,044 US flu deaths, death rate of 0.40 per 100K, ID, 2.62	--	29
58.	1995	--	<b>influenza</b> , 606 US flu deaths, death rate 0.227 per 100K, ID, 0.849	--	10
59.	1996	--	<b>influenza</b> , 745 US flu deaths, US death rate 0.276 per 100K; ID, 0.831	--	10
60.	1997	--	<b>influenza</b> , 720 US flu deaths, US death rate 0.26 per 100K; ID, 0.977	--	12
61.	1998	--	<b>influenza</b> , 1,724 US flu deaths, US death rate 0.62 per 100K; ID, 1.52	--	19
62.	1999	--	<b>influenza</b> , 1,665 US flu deaths, US death rate 0.597 per 100K; ID, 2.90	--	37
63.	2000	--	<b>influenza</b> , 1,765 US flu deaths, US death rate 0.627 per 100K; ID, 1.391	--	18
64.	2003	--	<b>influenza</b> , 1,792 US flu deaths, US death rate 0.618 per 100K; ID, 1.9801	--	27
65.	2005	--	<b>influenza</b> , 1,812 US flu deaths, US death rate 0.613 per 100K; ID, 0.700	--	10
66.	2008	--	<b>influenza</b> , 1,772 US flu deaths, US death rate 0.57 per 100K; ID, 0.72	--	11
67.	2009	--	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); ID, 1.0	--	16
68.	2009	--	<b>H1N1 "Swine Flu,"</b> especially spring through winter,	--	>23
69.	2010	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; ID, 2.7	--	42
70.	2011	--	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; ID rate 1.1	--	17
71.	2012	--	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100,000; ID 3.0	--	48
72.	2013	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100,000; ID 3.1	--	50
73.	2013	--	<b>influenza</b> , ICD-10 Codes J09-J11.8; US death rate 1.2 per 100,000; ID, 1.6	--	35
74.	2014	--	exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths subset, ID	--	13
75.	2014	--	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; ID 3.1	--	50
76.	2015	--	exposure to excessive natural <b>cold/hypothermia</b> , 815 US deaths subset, ID	--	11
77.	2015	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; ID, 3.0--		49
78.	2016	--	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths subset, ID	--	11
79.	2016	--	<b>influenza</b> , ICD-10 Codes J09-J11.8; US death rate 0,9 per 100K; ID rate 1.7	--	28
80.	2017	--	exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths subset, ID	--	15
81.	2017	--	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; ID rate 3.84	--	66
82.	2018	--	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., ID rate 3.76	--	66
83.	2019	--	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, ID rate 3.19	--	57
84.	2020	--	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); ID 804 per 1M pop.	--	1,436
85.	2021	--	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; ID, 2.3K per 1M	--	2,726
86.	2021	--	exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for ID	--	11
87.	2022	--	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; ID death rate 6.46	--	1,154

Some Select/Notable **Idaho** Other Large Loss of Life Events:<sup>212</sup>

1801-02 --	<b>smallpox</b> pandemic, Native Amer., Central, Midwest, esp. Upper, Northwest <sup>213</sup> --	?
1879-80, June-May,	<b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	-- 55
1879-80, June-May,	<b>typhoid fever</b> (State subset of 23,339 U.S. Typhoid deaths)	-- 12
1889-90, June-May,	<b>croup</b> , (subset of 13,862 U.S. croup deaths)	-- 16
1889-90, June-May,	<b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; ID	-- 30
1889-90, June-May,	<b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	-- 46
1897 --	May 27, <b>trains collide</b> , American Falls station, ID	-- 9
1900 --	<b>diphtheria</b> (ID subset of 16,475 US diphtheria deaths in 1900)	-- 30
1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 13
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths)	-- 11
1900 --	<b>measles</b> (subset of 12,866 US measles deaths)	-- 10
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	-- 19
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths); ID	-- 38
1905 --	Mar 22, Oswald coal <b>mine</b> explosion, Princeton, ID	-- 9
1925 --	<b>diphtheria</b> (ID subset, 8,058 US diphtheria deaths)	-- 25
1925 --	<b>influenza</b> (ID subset, 30,538 US influenza deaths)	-- 142
1925 --	<b>tuberculosis</b> (ID subset, 89,268 US tuberculosis deaths)	-- 172
1925 --	<b>typhoid/paratyphoid fever</b> (ID subset of 8,287 US Typhoid Fever deaths)	-- 29
1925 --	<b>whooping cough</b> (ID subset, 6,948 US whooping cough deaths)	-- 36
1927 --	Jan 26, <b>gas explosion</b> , Mormon recreation hall, basketball game, Turner, ID	-- 7
1931 --	<b>epidemic cerebrospinal meningitis</b> , <sup>214</sup> (ID subset, 2,832 US meningitis deaths)	-- 18
1931 --	<b>measles</b> , especially children (ID subset, 3,576 measles deaths nationwide)	-- 10
1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	-- 153
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); ID death rate 8.0	-- 42
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, ID death rate 1.3	-- 7
1942 --	Jan 14, USAAF Martin <b>B-26B crash</b> ~Black Creek Reservoir, 9 mls. SE of Boise ID--	9
1942 --	Apr 03, USAAF Boeing <b>B-17E breakup and crash</b> near Bridge and Strevell, ID	-- 08
1943 --	Dec 19, <b>USAAF B-24 crash</b> , out of Pocatello AB, 30 miles north of Burley ID	-- 08
1944 --	<b>influenza</b> (ID subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	-- 77
1945 --	Feb 09, <b>USAAF B-24 flies into fog-shrouded Mt. Harrison</b> 25M SE of Burley, ID	-- all 9
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	-- 15
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	-- 11
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths; subset for ID	-- 8
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for ID	-- 44
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for ID	-- 32
1953 --	<b>influenza</b> ; 9,500 US deaths; ID subset	-- 45
1953 --	<b>polio</b> , subset of 1,450 US polio deaths for ID	-- 5
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for ID	-- 28

<sup>212</sup> We include in "Other" two categories: (1) events wherein fewer than 10 lives were lost, but which we take note, and (2) diseases that caused more than ten lives lost, but perhaps not at an epidemic level (subjective judgement) and generally below US or "Registration Area" average death rate when we have those statistics.

<sup>213</sup> We do not have a number. We see sources noting the Shoshone and Nez Perce, who lived in/moved about Idaho were effected. A "great many" Nez Perce died. We estimate more than 9,090 Natives died in large pandemic area.

<sup>214</sup> "Epidemic Cerebrospinal Meningitis," is name used for this disease in U.S. Census, *Mortality Statistics 1931*.

**Idaho (continued):**

1954 --	tuberculosis	(respiratory); 15,146 US deaths; subset for ID	--	22
1955 --	tuberculosis	(respiratory); 13,676 US deaths; subset for ID	--	17
1956 --	tuberculosis	(respiratory), 12,978 US deaths/death rate 8.4 per 100K; ID subset	--	28
1957 --	influenza;	7,463 US deaths; ID subset	--	44
1957 --	tuberculosis	(respiratory); 12,384 US deaths; ID subset	--	14
1958 --	tuberculosis;	12,361 US TB deaths; ID subset	--	16
1958 --	Feb 10,	car on dead-end street plunges into Portneuf River, teens drown, Pocatello, ID--	--	5
1959 --	tuberculosis;	11,456 US TB deaths; ID subset	--	18
1960 --	influenza;	7,872 US deaths/death rate 4.4 per 100K; ID death rate 4.3	--	29
1960 --	tuberculosis;	10,866 deaths/death rate 6.1 per 100K; ID death rate 2.5	--	17
1961 --	tuberculosis;	9,938 US deaths/death rate 5.4 per 100k; ID death rate 2.6	--	18
1962 --	tuberculosis;	9,508 US deaths/death rate 5.1 per 100K pop.; ID death rate 1.9	--	13
1963 --	tuberculosis;	9311 US deaths/death rate 4.9 per 100K pop.; ID death rate 2.5	--	18
1963 --	Sep 17,	fire, Paradise Pines Rest Home (men in 80s), 14 miles south of Riggins, ID--	--	7
1964 --	tuberculosis;	US deaths 8,303/death rate 4.3 per 100K; ID death rate 1.6	--	11
1965 --	tuberculosis;	7,934 US deaths, death rate 4.1 per 100K; ID death rate 1.6	--	11
1966 --	tuberculosis;	7,625 US TB deaths; subset for ID	--	11
1968 --	excessive natural cold;	ICD-8 code E901; subset of 494 of US cold deaths; ID	--	8
1968 --	tuberculosis;	6,292 US deaths/death rate 3.15 per 100K; ID 1.61	--	11
1969 --	tuberculosis;	5,567 US deaths/death rate 2.76 per 100K; ID 1.72	--	12
1970 --	tuberculosis;	ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; ID 1.12--	--	8
1971 --	excessive natural cold;	ICD-8 code E901; 361 US deaths; ID	--	5
1971 --	influenza,	ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths ID 0.8--	--	6
1971 --	tuberculosis;	4,501 US TB deaths/death rate 2.18 per 100K; ID/0.81	--	6
1972 --	tuberculosis;	4,376 US TB deaths, death rate 2.09 per 100K; ID 1.31	--	10
1975 --	influenza,	ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; ID, 1.80	--	15
1977 --	influenza;	1,305 US flu deaths/death rate 0.59 per 100K; ID, 1.02	--	9
1979 --	Aug 04,	Boise Air Service Cessna T210M crash, Pistol Creek, ID	--	all 6
1983 --	Dec 22-31,	winter weather, severe cold, snow, icy roads	--	5
1987 --	HIV AIDS,	13,468 deaths/US death rate 5.55 per 100K; ID, 0.81	--	8
1988 --	HIV AIDS,	16,602 deaths/US death rate 6.8 per 100K population: ID, 1.12	--	11
1992 --	Aug 21-22,	violence, Gov. use of force, U.S. Marshals/FBI, Ruby Ridge, ID	--	3
1995 --	May 13,	USAF C130 Hercules No. 2 engine fire after Boise takeoff/crash, Bliss Canyon, ID--	--	6
1996 --	Jan 15,	Pro Air Services of Utah Mitsubishi icing crash near Malad City, ID	--	8
2009 --	diarrhoea/gastroenteritis	of infections origin; US death rate 0.9 per 100K; ID, 0.6--	--	10
2010 --	diarrhoea and gastroenteritis	of infections origin (ICD-10 code A09) <sup>215</sup>	--	11
2011 --	viral hepatitis,	ICD-10 code B15-B19, US death rate 2.5 per 100K; ID, 2.2	--	35
2012 --	diarrhoea and gastroenteritis	of infections origin (ICD-10 code A09) <sup>216</sup>	--	10
2013 --	diarrhoea and gastroenteritis	of infections origin (ICD-10 code A09) <sup>217</sup>	--	11
2014 --	diarrhoea and gastroenteritis	of infections origin (ICD-10 code A09) <sup>218</sup>	--	13

<sup>215</sup> National death rate was 0.9 per 100,000. ID had below average death rate of 0.7.

<sup>216</sup> National death rate was 0.8 per 100,000. ID had below average death rate of 0.6.

<sup>217</sup> National death rate was 0.8 per 100,000. ID had below average death rate of 0.7.

<sup>218</sup> National and ID death rate was 0.8 per 100,000.

2014 --	<b>influenza</b> (ICD-10 codes J09-11), US avg. death rate 1.4 per 100,000; ID had 1.1	--	18
2015 --	<b>diarrhoea/gastroenteritis</b> , infections origin; US and IS death rate 0.8 per 100K	--	13
2015 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 1.6 per 100,000; ID had 1.3	--	21
2016 --	<b>diarrhoea/gastroenteritis</b> , infections origin; US and ID death rate 0.7 per 100K	--	11
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; ID rate 1.7	--	28
2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; ID death rate 1.42	--	26
2020 --	July 5, <b>Cessna Stationair and De Havilland DHC-2 collide midair</b> , Lake Coeur d'Alene, ID--8		
2023 --	<b>COVID-19</b> , 71,691 US deaths/death rate 3,597 per 1 million pop., ID 3,068	--	166

#### Breakout by Type of **Idaho** Large Loss-of-Life Events (10 or more fatalities):

- 54 -- **Disease**, especially communicable, especially epidemics. (Plus 66 in "Other.")
- 9 -- **Violence**. (Plus one with three deaths in "Other.")
- 8 -- **Aviation**. (Plus 8 events noted with 6-9 deaths each.)
- 5 -- **Winter Weather, Cold and Hypothermia**. (Plus 3 years 5-8 deaths.)
- 3 -- **Snowslides/Avalanche**.
- 2 -- **Mining**. (Plus two events <10 deaths: 4-8 in 1891 mine explosion; 9 in 1905 mine explos.)
- 1 -- **Flooding**. (Cross-listed in Structural Failure-Dams, for 1976 Teton Dam failure.)
- 1 -- **Heat**.
- 1 -- **Rail**. (Nine died when two trains collided at the American Falls station May 27, 1897.)
- 1 -- **Structural Failure**.
- 1 -- **Tornado**.
- 1 -- **Wildfire**.
- 0 -- **Explosion**. (There was, though, a gas explosion in Turner in 1927 with 7 deaths.)
- 0 -- **Fire**. (Seven elderly men died in rest home fire in 1963.)
- 0 -- **Road/Highway** (There was one event in Pocatello in 1958 which took 5 lives.)



## IL

## Illinois

1. 1812 -- Aug 15, Pottawatomie **massacre** of soldiers and homesteaders, IL -- ~98
2. 1832 -- July 15-Sep 26, **cholera**, esp. Rock Island, the *Henry Clay*, Fort Dearborn --134-174
3. 1833 -- **cholera**, especially Jacksonville, Quincy, Galena, Carrollton, IL --<sub>≥</sub>166-193
4. 1833 -- Nov 08, steamboat **Illinois** boiler explosion, Mississippi River, near Cairo, IL -- 13
5. 1834 -- Aug, **cholera**, especially, especially Pekin and Rushville, IL -- 39
6. 1837 -- Mar 17, steamboat **Tiskilwa** hit by the *Wisconsin*, near mouth Ill. River, IL --10-20
7. 1842 -- Oct 08, **S.B. Eliza** snags/sinks, MS Ri. ~5m above mouth OH Ri, IL Shore --30-40
8. 1845 -- Oct 27, **Plymouth** sinks in collision (*Lady Madison*), OH River, Shawneetown IL--25
9. 1848 -- Aug 12, steamer **Edward Bates** boiler explosion, Miss. River ~Hamburg, IL -- 53
10. 1849 -- Apr 14-Oct 5 esp., **cholera**, many localities esp. Chicago, Peru, Quincy --1,946
11. 1850 -- **cholera** epidemic, esp. Chicago, IL (16 died on July 29 alone in Chicago) --351-352
12. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 11,759 IL deaths -- 477
13. 1850 -- **measles**; subset 2,988 US measles deaths (average was 83 per State/Ter.), IL -- 110
14. 1850 -- **smallpox**; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65-- 65
15. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 191
16. 1851 -- June-Sep, **cholera**, esp. Quincy, Chicago, Alton, Carlinville & RR const. --721-727
17. 1851 -- Aug 20, steamboat **Dacotah** explosion, Peoria, IL -- 11
18. 1851 -- Sep 21, steamboat **James Jackson** boilers explode, OH Riv., Shawneetown IL--15-23
19. 1851 -- Nov 27, **Archer** sinks after collision (*Die Vernon*), MS Riv., Enterprise Isl. ~Grafton, IL --34-41
20. 1852 -- **cholera**, especially Chicago (630), Peru (500-600), LaSalle (~60), IL --1,201-1,301
21. 1852 -- Apr 25, steamboat **Prairie State No. 2**, boiler explosion, Pekin, IL -- 20
22. 1853 -- Apr 25, **trains collide** at track crossing (negligence), Grand Crossing ~Chicago, IL--18-21
23. 1854 -- **cholera** epidemic, especially Chicago (1,424), IL --1,465
24. 1854 -- Nov 01, "The Arctic" **train derailment**, Chicago for Rock Island, IL -- 40
25. 1855 -- July-Aug esp., **cholera**, especially Shelbyville and vic., Waynesville, IL --323-393
26. 1857 -- Mar 27, Lake Michigan storm and **maritime vessel losses**, Chicago, IL -- 15
27. 1857 -- Oct 19, **fire**, brothel, stores, warehouses, South Water Street, Chicago, IL -- 27
28. 1858 -- May 31, **tornado**, Ellison, Warren County, IL -- 19
29. 1859 -- May 26, **tornado**, Scott and Morgan Counties, IL -- 11
30. 1860 -- **croup** (contagious upper airway viral infection), subset, 15,188 US croup deaths- 1,158
31. 1860 -- **measles** (IL subset of 3,900 measles deaths nationwide) -- 109
32. 1860 -- **scarlet fever** (scarlatina), subset of 26,402 deaths, 38 Census States & DC<sup>219</sup> --1,698
33. 1860 -- **tuberculosis**, reported as "consumption" (IL subset, 49,082 US TB deaths)<sup>220</sup> --1,948
34. 1860 -- **whooping cough** (IL subset of 8,408 whooping cough deaths nationwide) -- 382
35. 1860 -- June 03, **tornadoes**, especially Albany and area, IL -- 31
36. 1860 -- June 25, steamer **Ben. W. Lewis** boiler explosion/fire, Miss. River, Cairo, IL --23-50
37. 1860 -- Sep 08, steamer **Lady Elgin** collides with sch., sinks, Lake MI off Winnetka, IL--287~300
38. 1860 -- Nov 08, steamer **Globe** boiler explosion at dock, Chicago River, Chicago, IL -- 15
39. 1862 -- Feb-June 1865, **diarrhea & dysentery**, Confederate POWs, Camp Douglas, IL-- 698
40. 1862 -- Feb-Jun 1865 (41 mo.), **malarial fevers**,<sup>221</sup> Confederate POWs, Camp Douglas IL-233

<sup>219</sup> Second leading known cause of death in the State in 1860, behind consumption.

<sup>220</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>221</sup> Categorized as intermittent (lets-up but then comes back) and remittent (fluctuating body temperatures).

### Illinois (continued):

41.	1862 -- Feb-Jun 1865 (41 mo.),	pneumonia/pleurisy,	Confederate POWs, Camp Douglas IL--	1,296
42.	1862 -- Feb-June 1865 (41 months),	scurvy,	Confederate POWs, Camp Douglas, IL --	39
43.	1862 -- Sep-June 1865 (34 months),	dysentery/diarrhea,	Confederate POWs, Alton, IL--	229
44.	1862 -- Nov 05, steamer <i>J.H. Dickey</i>	grounds IL shore, Miss. River, boiler explodes	--	14
45.	1863 --	smallpox, esp. Confederate POWs at Alton, Rock Island, Camp Douglas	--	~366
46.	1864 --	smallpox, Chicago IL	--	337
47.	1864 --	typhoid fever, Chicago, IL	--	192
48.	1864 --	typhoid fever, Chicago, IL	--	190
49.	1865 --	smallpox, Alton Military Prison for Confederate POWs (62), Chicago (57)	--	119
50.	1865 -- Mar 31, US Govt. transport <i>General Lyon</i>	burns (~521-571), Cape Hatteras, NC <sup>222</sup> --	~	200
51.	1866 -- July 21-early Sep,	cholera, Chicago (990), Cairo (76), Marion (~25), IL	--	1,091
52.	1867 -- Summer especially,	cholera, Chicago (123), Shawneetown (20), Bear Twp.	--	~151
53.	1867 --	smallpox, Chicago, IL	--	123
54.	1868 -- July 11-16,	excessive natural heat and sunstrokes	--	14
55.	1868 --	smallpox, Chicago, IL	--	150
56.	1868 -- Apr 09, WI sidewheel <i>Sea Bird</i>	fire/sinks, Lake Michigan, off Waukegan, IL	-67-102	
57.	1869 -- Aug 14, steamer <i>Cumberland</i>	boiler explosion, OH River, ~Shawneetown, IL--		18
58.	1870 --	diarrhoea (1,284), dysentery (664), enteritis (603); data from U.S. Census	--	2,551
59.	1870 --	diphtheria (IL subset of 6,303 diphtheria deaths nationwide)	--	603
60.	1870 --	whooping cough (State subset of 9,008 whooping cough deaths nationwide)	--	640
61.	1870 --	typhus (State subset of 1,770 typhus deaths nationwide)	--	131
62.	1870 --	measles (IL subset of 9,237 measles deaths nationwide)	--	702
63.	1870 --	scarlet fever, especially children (State subset of 20,339 deaths nationwide)	--	1,102
64.	1870 --	smallpox (State subset of 4,597 smallpox deaths nationwide)	--	170
65.	1870 --	tuberculosis (Consumption) (IL subset of ~70,000 TB deaths nationwide)	--	3,641
66.	1870 --	typhoid fever (State subset of 22,187 typhoid fever deaths nationwide)	--	1,758
67.	1871 -- Oct 08-10,	Great Chicago Fire, IL	--	250-300
68.	1871 -- Nov-Dec,	smallpox outbreak, Chicago, IL	--	73
69.	1872 --	smallpox outbreak, Chicago, IL	--	≥656
70.	1872 -- Apr 11, steamer <i>Oceanus</i>	boiler explosion/fire, MS River, Brook's Point, IL	--	34-40
71.	1873 --	smallpox, Chicago, IL	--	515
72.	1873 --	yellow fever, Cairo, IL	--	17-18
73.	1873 -- May 24-Sep 20,	cholera epidemics, 33 locations, especially Chicago/116	--	427-478
74.	1873 -- May 04, Truesdell Highway	bridge collapse, Rock River, Dixon, IL	--	56
75.	1873 -- Aug 16,	trains collide, Chicago and Alton Railroad, Lemont, IL	--	14
76.	1874 --	scarlet fever, Chicago, IL	--	105
77.	1875 --	tuberculosis, Chicago, IL	--	880
78.	1876 -- May 17, steamer <i>Pat Cleburne</i>	boiler explodes/fire, OH Riv., ~Weston KY, IL shore--	~	20
79.	1877 -- May 11,	unfinished Court-House walls fail, kills workers, Rockford, IL	--	10
80.	1877 -- June 04,	tornado, Mt. Carmel, Wabash, IL	--	16
81.	1877 -- July 22-26, labor	violence, Great Railroad Strike, Chicago, IL	--	18
82.	1878 -- Aug 12-Oct,	yellow fever, especially Cairo (62 deaths), IL	--	67
83.	1879 -- June-May 1880,	croup, esp. Oct-Dec, esp. children (17,966 US croup deaths)	--	1,006

<sup>222</sup> Noted here in that about 195 to 208 members of IL State military units, mostly paroled POWs, died in this loss.

**Illinois (continued):**

84.	1879 -- June-May 1880,	<b>malarial fever</b> , (IL subset, 20,231 such deaths US)	--1,024
85.	1879 -- June-May 1880,	<b>measles</b> , esp. children (IL subset, 8,254 U.S. measles deaths)--	463
86.	1879 -- June-May 1880,	<b>meningitis</b> (subset of 7,481 US meningitis deaths), IL	-- 292
87.	1879 -- June-May 1880,	<b>scarlet fever</b> , esp. children (IL subset, 16,388 US S.F. deaths)--	954
88.	1879 -- June-May 1880,	<b>tuberculosis</b> (IL subset of 91,270 TB deaths nationwide)	--3,802
89.	1879 -- June-May 1880,	<b>typhoid fever</b> (State subset of 23,339 U.S. Typhoid deaths)	--1,487
90.	1879 -- June-May 1880,	<b>whooping cough</b> (subset, 11,064 U.S. W.C. deaths), IL	-- 443
91.	1880 --	<b>diphtheria</b> , esp. Sep-Dec, esp. children, esp. Chicago (38,143 U.S. deaths), IL--	3,783
92.	1880 -- Apr 04-Dec 25,	<b>smallpox</b> outbreak, Chicago, IL	-- 43
93.	1881 --	<b>diphtheria</b> , especially Chicago (601), Peoria (19), Quincy (27), IL	-- 671
94.	1881 --	<b>smallpox</b> , especially Chicago, IL	--1,350
95.	1882 --	<b>smallpox</b> , esp., Chicago (1,292 deaths), multiple locations, esp. Cook County	--1,492
96.	1883 -- Jan-Dec,	<b>smallpox</b> , especially Chicago, IL	-- 53
97.	1883 -- Jan 09,	<b>mine</b> explosion, Coulterville Coal Mine, Coulterville, IL	-- 10
98.	1883 -- Feb 16,	<b>mine</b> roof collapse and flooding, Diamond coal mine, Braidwood, IL	--69-74
99.	1883 -- May 20,	schooner <b>Wells Burt</b> founders, Lake Mich. storm, off Evanston, IL	--10-11
100.	1884 -- Jan 05,	<b>fire</b> , Immaculate Conception Academy (convent/sch.), Belleville, IL	-- 32
101.	1884 -- Oct 08,	gale, Hyde Park <b>waterworks crib cabin</b> washed away, S. Chicago, IL--	9-10
102.	1885 -- Jan 18,	<b>fire</b> , Illinois Eastern Hospital for Insane, Kankakee, IL	-- 18
103.	1886 -- May 03-04,	<b>bombing/riot/massacre</b> (Haymarket Affair), Chicago, IL	-- 17
104.	1887 --	<b>diphtheria</b> , Chicago, IL	--1,405
105.	1887 -- July 27,	<b>trains collide</b> , Chicago/Alton RR, between Hopedale & Delavan, IL--	15
106.	1887 -- Aug 10,	excursion <b>train</b> falls through <b>burning</b> culvert <b>bridge</b> /burns ~Chatsworth IL--	82-85
107.	1888 -- Feb 19,	<b>tornado</b> , F4, Mount Vernon, Jefferson County, IL	--24-30
108.	1889-90, June-May,	<b>croup</b> , (subset of 13,862 U.S. croup deaths)	-- 957
109.	1889-90, June-May,	<b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; IL <sup>223</sup>	--2,604
110.	1889-90, June-May,	<b>measles</b> , subset of 9,256 US measles deaths	-- 314
111.	1889-90, June-May,	<b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--1,700
112.	1890 -- Jan-Mar,	<b>influenza</b> (La Grippe/Russian Flu), especially Chicago (1,924)	--1,936
113.	1890 -- Mar 27,	<b>tornadoes</b> , 12 Counties	-- 18
114.	1890 -- Mar 27,	<b>starch dust explosion</b> / <b>fire</b> , Chicago Sugar Refinery, Chicago, IL	-- 12
115.	1890 -- June 20,	<b>tornado</b> , Lee and Dekalb Counties, IL	-- 13
116.	1891 --	<b>typhoid fever</b> epidemic, Chicago, IL	--2,000
117.	1891 -- Mar-Apr,	<b>influenza and pneumonia</b> epidemic, Chicago, IL	--6,800
118.	1892 -- July 12,	storm, steamer <b>Frankie Folsom</b> capsizes, Illinois River, Peoria, IL	-- 12
119.	1893 -- Jan 21,	express <b>train collides</b> into oil cars/fire/explos., Wann, near Alton, IL--	33
120.	1893 -- July 10,	<b>Fire</b> , Columbia Exposition Cold Storage Warehouse, Chicago, IL	--17-19
121.	1893 -- Sep 07,	<b>trains collide</b> , Fort Wayne Route, near Colehour, IL	-- 12
122.	1894 --	<b>diphtheria</b> , esp. Chicago (1406); IL subset, $\geq$ 14,606 US diphtheria deaths	--1,412
123.	1894 --	<b>smallpox</b> , Chicago, subset of 1,752 US smallpox deaths	--1,033
124.	1896 --	<b>measles</b> , esp. Chicago (73); also East St. Louis (4); Carmi (5), Galesburg (4)--	95
125.	1896 -- May 27,	<b>tornadoes</b> , Washington, Jefferson Counties, East St. Louis, IL	-- 169
126.	1896 -- Aug 05-14,	<b>heat, sunstroke, heat prostration</b> , esp. Chicago (~219-258)	--238-277

<sup>223</sup> US average diphtheria death rate was 33.06 per 1,000 deaths; Chicago was at 48.67.

**Illinois (continued):**

127. 1897 -- **typhoid fever**, subset >9,192 US typhoid deaths, especially Chicago/437 -- 442
128. 1897 -- July 01-11, **excessive heat** (608-616 US deaths), especially Chicago (87), IL-- 116
129. 1898 -- Mar 16, **fire/explosion**, Ayer bldg. (Mercantile), Wabash Ave., Chicago IL -- 16
130. 1898 -- Apr 03, **levee fails**, flash **flood**, Shawneetown, IL --25-33
131. 1898 -- May 18, **tornadoes**, esp. Carroll, Ogle, Boone, Bureau, Lee, Winnebago Co's.-- 34
132. 1898 -- Oct 12, **labor violence**, coal miners and mine guards shootout, Virden, IL --12-13
133. 1899 -- Feb 07-11 especially; **cold wave and snow**, exposure/freezing deaths -- 11
134. 1900 -- **croup**; upper airway contagious viral infection; IL subset, 12,484 croup deaths-- 563
135. 1900 -- **diphtheria** (IL subset, 16,475 US diphtheria deaths), esp. Chicago/1,013 --1,504
136. 1900 -- **dysentery** (subset of 11,710 US dysentery deaths in 1900), IL -- 357
137. 1900 -- **influenza** (subset, 16,645 US influenza deaths), IL -- 454
138. 1900 -- **malarial fever** (14,874 US malarial fever deaths), IL -- 497
139. 1900 -- **measles** (subset of 12,866 US measles deaths), IL -- 481
140. 1900 -- **meningitis** (subset, 19,423 US meningitis deaths; 3<sup>rd</sup> highest state loss), IL --1,318
141. 1900 -- **scarlet fever** (subset, 6,333 US scarlet fever deaths; 4<sup>th</sup> largest loss by a state)--643
142. 1900 -- **tuberculosis** (61,229 IL deaths all causes) (109,750 US TB deaths) --6,786
143. 1900 -- **typhoid fever** (subset of 35,379 typhoid fever deaths nationwide), IL -- 926
144. 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths; IL 4<sup>th</sup> highest) -- 497
145. 1900 -- July-Aug (especially), **excessive heat** (subset of 1,266 US heat deaths) -- 103
146. 1901 -- Mar 11, **boiler explosion**, Doremus Laundry, 458 W. Madison, Chicago, IL -- ~10
147. 1901 -- May 12, **City of Paducah** snags/sinks, MS River, ~Brunkhorst Landing, IL --6-<10
148. 1901 -- June-July (especially), **heat waves** (subset of 4,012 US heat deaths) -- 83
149. 1901 -- July 01, **lightning**, boys seeking shelter, Montrose Blvd. pier, Lake View, IL-- 11
150. 1902 -- Feb 05, **gas explosion/fire**, Trostle Butcher Shop, Archer & 22<sup>nd</sup>, Chicago --11-13
151. 1902 -- June 09, **fire**, St. Luke's Society Sanitarium, Wabash / 21<sup>st</sup>, Chicago, IL --12-13
152. 1902 -- Oct 21, **fire**/glucose tank **explosion**, Glucose Sugar Refinery, Chicago, IL --11-12
153. 1902 -- Nov 29, **boiler explosion**, Swift & Co. Power Plant, Chicago, IL --13-15
154. 1902 -- Dec 04, **fire**, Lincoln hotel, Madison Street, Chicago, IL -- 14
155. 1903 -- **smallpox**, esp. Chicago/47; IL was 3<sup>rd</sup> highest state; US at least 1,457 deaths-- 135
156. 1903 -- July 02-03, 08, **excessive natural heat**, Chicago, IL --10-15
157. 1903 -- July 17, **tornadoes**, La Salle and Livingston Counties, IL -- 11
158. 1903 -- Nov 19, Big Four Railway freight and work **trains collide** near Tremont, IL -- 20
159. 1903 -- Dec 30, **fire, suffocation, trampling**, Iroquois Theater, Chicago, IL -- 602
160. 1904 -- May 11, **mine** explosion, Big Muddy Coal Mine, Herrin, IL -- 10
161. 1904 -- June 04, **fire**, Corning Distillery, explosions, building collapse, Peoria, IL -- 15
162. 1904 -- July 03, **train derails**, Wabash Railroad, Litchfield, IL -- 20
163. 1905 -- Apr 03, **mine** explosion, Zeigler Coal Mine, Zeigler, IL -- 49
164. 1905 -- Apr 07-Mid-July, teamsters' strike and **riots**, Chicago, IL -- 21
165. 1906 -- Dec 21 (Week of), **scarlet fever**, Chicago, IL -- 115
166. 1907 -- **tuberculosis**, Chicago (subset of 76,650 deaths nationwide) --3,512
167. 1907 -- **typhoid fever**, especially Chicago (372); ~13K census area typhoid deaths -- 438
168. 1907 -- Aug 30, **electric trains collide (trolley & express)**, near Charleston, IL -- 14
169. 1908 -- Aug 14-15, **Springfield Race Riot**; whites attack blacks, Springfield, IL --10->12
170. 1909 -- Jan 10, coal **mine** explosion, Zeigler Coal Mine, Zeigler, IL -- 26



**Illinois (continued):**

171.	1909 -- Jan 20, <b>magazine explosion</b> , water tunnel crib fire, Lake Mich., ~Chicago, IL--	53
172.	1909 -- Aug 15-17, <b>excessive natural heat</b> , especially Chicago and Peoria, IL	-- 11
173.	1909 -- Nov 13, <b>mine</b> fire (from hay for mules), St. Paul Coal Mine, Cherry Hill, IL--	259
174.	1910 -- <b>polio</b> outbreak (IL subset of 1,635 US polio deaths)	-- 42
175.	1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5	-- 363
176.	1910 -- Mar 25, <b>fire</b> , L. Fish & Co. Furniture Store, Wabash Ave., Chicago, IL	-- 12
177.	1910 -- June 15-27, <b>excessive natural heat</b> , Chicago, IL	-- 63
178.	1910 -- Oct 04, <b>traction (electric) trains collide</b> , near Staunton, IL	-- 37
179.	1910 -- Dec 22-23, <b>fire</b> , Nelson-Morris Meatpacking Plant, Stockyards, Chicago IL	-- 24
180.	1911 -- June 04-23, <b>excessive natural heat</b> , Chicago, IL	-- 17
181.	1911 -- July 01-10, <b>excessive natural heat</b> , especially Chicago, IL	--152-267
182.	1912 -- Jan-June 8, <b>tuberculosis</b> , Chicago, IL	--1,740
183.	1912 -- Jan 05-19, <b>cold waves, snow and blizzard</b> , especially Chicago, IL	-- 36
184.	1912 -- Mar 31-June 08, <b>pneumonia</b> outbreak, Chicago, IL	--1,050
185.	1912 -- July 14, <b>trains collide</b> , Western Springs, IL	-- 13
186.	1912 -- Nov 23, schooner <b>Rouse Simmons</b> sinks, Lake MI storm, 12m NE Two Rivers WI <sup>224</sup> --	17
187.	1912 -- Nov 25, corn starch <b>dust explosion</b> , Corn Products Co., Waukegan, IL <sup>225</sup>	--14-15
188.	1913 -- <b>heat</b> ; 1,226 "registration area" (65% of US) deaths; subset for IL, esp. Chicago--	92
189.	1914 -- Aug-Oct, <b>polio</b> , esp. children (subset of 720 US polio deaths), IL	-- 34
190.	1914 -- Oct 27, <b>mine</b> explosion, North No. 1 Coal Mine, Royalton, IL	-- 52
191.	1915 -- Apr 05, <b>mine</b> explosion, Shoal Creek/Panama No. 1 Coal Mine, Panama, IL--	11
192.	1915 -- July 24, crowded SS steamer <b>Eastland</b> rolls-over at dock, Chicago, IL	--812-844
193.	1915 -- Dec 28-31, <b>pneumonia (influenza/grippe)</b> outbreak, Chicago, IL	-- 201
194.	1916 -- June 18-Aug 07, <b>excessive natural heat</b> , especially Chicago, IL	-- 489
195.	1916 -- July 01-Nov 28, <b>Polio</b> epidemic, especially children, especially Chicago, IL	-- 80
196.	1917 -- Feb 02, <b>gas explosion/fire</b> , tenement buildings, Chicago, IL	-- 14
197.	1917 -- May 26, <b>tornado</b> , 7 counties, especially Coles County (Mattoon), IL	-- 101
198.	1917 -- <b>polio</b> , esp. July-Sep, Chicago (State subset, ≥1,182 U.S. polio deaths) <sup>226</sup>	-- 177
199.	1917 -- July 01-03, especially July 2, <b>anti-Black Race Riots</b> , East St. Louis, IL	--48-200
200.	1917 -- Nov 29, <b>mine</b> explosion, Old Ben No. 11 Coal Mine, Christopher, IL	-- 18
201.	1918 -- <b>typhoid fever</b> (State subset of 9,100 U.S. Typhoid Fever deaths)	-- 533
202.	1918 -- July 05, <b>fog</b> , steamer <b>Columbia</b> snags/sinks, IL Riv., Wesley City, Pekin IL	--87-88
203.	1918 -- Aug 05-07, <b>heat wave</b> , Bloomington (1), Chicago (13)	-- 14
204.	1918 -- Sep-Apr, 1919, <b>influenza/pneumonia</b> epidemic, esp. greater Chicago, IL	--35,020
	1918 -- Sep-Dec, <b>influenza/pneumonia</b> epidemic, esp. Greater Chicago--	26,098
	1919 -- Jan-Apr, <b>influenza</b> epidemic, IL	-- 8,922
205.	1918 -- Sep 28, <b>mine</b> explosion, North Coal Mine, Royalton, IL	-- 21
206.	1919 -- <b>diphtheria</b> (subset, 9,160 US diphtheria deaths; 2 <sup>nd</sup> highest loss, after NY)	--1,020
207.	1919 -- July 21, <b>dirigible Wingfoot</b> fire/crash (3) into bank skylight (10), Chicago, IL--	13
208.	1919 -- July 27-31 (dates of major rioting and deaths), <b>Race Riots</b> , Chicago, IL	-- 38

<sup>224</sup> Cross-listed in IL in that the majority of the crew, if not all (as some papers reported), were from Chicago.

<sup>225</sup> Fourteen explosion/fire worker deaths. Young pregnant woman searching for body of relative she had been told had been killed (incorrectly) fainted at undertakers upon seeing mutilated bodies; died several days later in hospital.

<sup>226</sup> There were more polio deaths in Chicago (7.6 death rate) than in any of the 27 Census Bureau registration States.



**Illinois (continued):**

209.	1919 -- Dec 25-30, <b>wood alcohol poisoning</b> , Chicago, IL	--10-14
210.	1920 -- <b>diphtheria and croup</b> (IL subset, 13,395 US deaths/34 registration states)	--1,128
211.	1920 -- <b>influenza and pneumonia</b> , IL	--13,922
212.	1920 -- <b>measles</b> (IL subset, 4 <sup>th</sup> highest, 7,712 measles deaths, 34 registration states)	-- 496
213.	1920 -- <b>scarlet fever</b> , subset (4 <sup>th</sup> largest), 4,004 US scarlet fever deaths, IL	-- 370
214.	1920 -- <b>tuberculosis</b> , especially Chicago, IL	--5,818
215.	1920 -- <b>typhoid fever</b> (IL subset, 6,805 typhoid fever deaths, 34 registration states)	-- 380
216.	1920 -- <b>whooping cough</b> (IL subset, 4 <sup>th</sup> highest, 10,968 WC deaths, 34 reg. states)	-- 553
217.	1920 -- Mar 28, <b>tornadoes</b> , Kane County/8; Cook County/20, esp. Melrose Park, IL--	28
218.	1921 -- <b>polio</b> , esp. late Sum.-Fall (subset, 2 <sup>nd</sup> highest, 1,597 US polio deaths), IL	-- 150
219.	1921 -- Aug 31, <b>mine</b> explosion, Harco Coal Mine, Harrisburg, IL	-- 12
220.	1922 -- June 21-22, <b>Union miners murder non-union men</b> and Guards ~Herrin, IL <sup>227</sup> --	23
221.	1923 -- June 21, <b>fire</b> , tenement building, Federal Street, Chicago, IL	-- 10
222.	1923 -- Dec 26, <b>fire</b> , Illinois State Hospital for the Insane, Dunning, IL	-- 18
223.	1924 -- Jan 03, <b>starch dust explosion</b> , Corn Products Refining Company, Pekin, IL--	42
224.	1924 -- Jan 25, <b>mine</b> explosion, McClintock Coal Mine, Johnston City, IL	-- 33
225.	1924-25 -- Nov-Feb, <b>typhoid fever</b> from Long Island NY <b>contaminated raw oysters</b> -->	23
226.	1924 -- Dec 25-28, <b>cold waves/winter weather</b> -related deaths, esp. Chicago, IL	-- 12
227.	1925 -- <b>winter cold</b> (excessive), subset of 239 US excessive cold deaths, IL	-- 18
228.	1925 -- <b>diphtheria</b> (subset, 3 <sup>rd</sup> highest, 8,058 US diphtheria deaths); IL	-- 409
229.	1925 -- <b>excessive heat</b> (subset, 6 <sup>th</sup> highest of 1,587 US excessive heat deaths); IL	-- 52
230.	1925 -- <b>influenza</b> (subset, 3 <sup>rd</sup> highest, 30,538 US influenza deaths); IL	--1,558
231.	1925 -- <b>malaria</b> (subset of 2,132 US malaria deaths); IL	-- 62
232.	1925 -- <b>measles</b> (subset, 4 <sup>th</sup> highest, 2,404 measles deaths, 40 "registration" states)	-- 217
233.	1925 -- <b>meningococcus meningitis</b> , IL subset, 3 <sup>rd</sup> highest, 1,095 US meningitis deaths--	56
234.	1925 -- <b>polio</b> (subset, 1,518 US polio deaths); IL	-- 44
235.	1925 -- <b>scarlet fever</b> (IL subset, 2 <sup>nd</sup> highest, 2,762 US scarlet fever deaths, 48 states)--	279
236.	1925 -- <b>smallpox</b> (IL subset, 8 <sup>th</sup> highest state, 709 US smallpox deaths, 1925, 48 states--	23
237.	1925 -- <b>tuberculosis</b> (subset, 4 <sup>th</sup> highest, 89,268 US tuberculosis deaths); IL	--5,537
238.	1925 -- <b>typhoid/paratyphoid fever</b> (subset of 8,287 US typhoid fever deaths); IL	-- 327
239.	1925 -- <b>whooping Cough</b> (IL subset, 5 <sup>th</sup> highest, 6,948 US whooping cough deaths)--	315
240.	1925 -- Mar 18, <b>Tri-State Tornado</b> , esp. Murphysboro, West Frankfort, De Soto --	600-606
241.	1926 -- July 18-25, <b>heat</b> , especially Chicago (subset of 166-175 US deaths); IL <sup>228</sup>	-- ≥25
242.	1927 -- <b>polio</b> (acute) esp. late summer and fall (subset, 2,013 US polio deaths); IL	-- 127
243.	1927 -- July 13-14, <b>heat</b> , heat/drownings, esp. Chicago (subset of 126-161); IL	-- 6-10
244.	1927 -- July 18, <b>drownings at beaches</b> , Lake Michigan, Chicago vicinity, IL	-- 10
245.	1927 -- July 28, passenger vessel <b>Favorite</b> sinks in storm, Chicago, IL	-- 27
246.	1928 -- Jan 09, coal <b>mine</b> explosion, No. 18 Coal Mine, West Frankfort, IL	-- 21

<sup>227</sup> Two striking union-miners killed by mine guards June 21 when attacked by large group of striking miners; one other died of wounds July 13. 19-20 non-union miners and mine guards murdered June 22 by union miners; Coroner records given to grand jury noted 20 nonunion men, while records of undertakers indicated 19 burials – the number used in most accounts. On Oct. 2 a hospitalized nonunion miner died of his wounds. Thus, there were 23 certain fatalities; possibly more, amidst reports of missing men, of men tossed into a pond or drowned in a river while attempting to escape, and of men burned and consumed in the burning of railroad cars at the strip mine.

<sup>228</sup> Some accounts have it as more than 30 heat-related fatalities.

**Illinois (continued):**

247. 1928 -- Sep 14, <b>tornado</b> , Rockford, (Winnebago, Boone Counties) IL	-- 14
248. 1931 -- <b>epidemic cerebrospinal meningitis</b> , (2,832 US meningitis deaths); IL	-- 259
249. 1931 -- <b>diphtheria</b> , especially children (subset, 5,738 U.S. diphtheria deaths); IL	-- 381
250. 1931 -- <b>influenza</b> (subset of 31,701 influenza deaths nationwide), IL	--1,648
251. 1931 -- <b>malaria</b> (subset, 2,536 US malaria deaths); IL	-- 59
252. 1931 -- <b>measles</b> , esp. children; IL subset, 3,576 US measles deaths; 2 <sup>nd</sup> highest state	-- 357
253. 1931 -- <b>polio</b> , esp. July-Oct, (IL subset, 2,139-2,144 U.S. polio deaths, esp. children)	-- 102
254. 1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths	--4,830
255. 1931 -- Apr 13, <b>fire/carbon monoxide poisoning</b> , sewerage tunnel, Chicago, IL	-- 11
256. 1931 -- summer, esp. June 19-July 29, <b>heat</b> (highest loss in US), esp. Chicago, IL	-- 632
257. 1932 -- Dec 24, coal <b>mine</b> methane gas explosion, Moweaqua, Shelby Co., IL	-- 54
258. 1933 -- Feb 7-12, <b>cold waves, winter storms, blizzard conditions</b> , esp. Chicago	-- 32
259. 1933 -- June 11, <b>plane crash</b> , Chicago Exposition Sightseeing Plane, ~Glenview IL	-- 9-10
260. 1933 -- Dec 26-28, <b>winter storm/Coldwave</b> , Pacific NW, Upper Mid-West, NE, IL <sup>229</sup> --	21
261. 1934 -- Summer esp., <b>excessive heat</b> ; subset of 3,250 US heat deaths; esp. Chicago, IL	--508
262. 1935 -- Sep 29, <b>fire, arson</b> , tenement, Chicago, IL	-- 10
263. 1935 -- Oct 07, <b>explosion</b> , Glidden Soybean Processing Plant, Chicago, IL	-- 11
264. 1936 -- Jan 18-28, <b>winter snow storms and extreme cold</b> , especially Chicago, IL	--19-28
265. 1936 -- Feb 08-18, especially, <b>arctic cold, snow, CO poisoning/frozen mains</b> , IL	-- 17
266. 1936 -- July-Aug (especially), <b>heat wave</b> (4,678-5,000 US heat deaths), IL subset	-- 634
267. 1936 -- Nov 24, <b>L train rear-ended</b> , North Shore Line Interurban, Chicago, IL	-- 10
268. 1937 -- Jan 18-Feb 25 (generally), <b>flooding</b> , OH and MS River Valley areas, IL	-- 16
269. 1937 -- Mar 24, blowout, roller-skate team <b>bus</b> hits bridge, Fire, Salem, IL	-- 21
270. 1937 -- May 30, Memorial Day <b>massacre</b> , striking steel workers shot, Chicago IL	-- 10
271. 1938 -- Mar 15, <b>tornado</b> , F4, St. Clair County, IL	-- 10
272. 1938 -- Mar 30, <b>tornado</b> , IL	-- 13
273. 1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (IL subset, 1,997 US diphtheria deaths)	-- 116
274. 1939 -- <b>malaria</b> (IL subset of 1,761 malaria deaths nationwide)	-- 36
275. 1939 -- <b>influenza and pneumonia</b> (IL subset, 99,097 U.S. flu/pneumonia deaths)	--5,032
276. 1939 -- <b>tuberculosis</b> (IL subset of 61,609 tuberculosis deaths nationwide)	--3,404
277. 1939 -- <b>whooping cough</b> (subset of 3,026 US whooping cough deaths); IL	-- 161
278. 1939 -- summer, <b>excessive natural heat</b> ; subset of 527-1,073 US heat deaths, IL	-- 32
279. 1940 -- <b>influenza &amp; pneumonia</b> (IL subset of 92,525 US flu & pneumonia deaths)	--4,293
280. 1940 -- <b>polio</b> (IL subset of 1,026 polio deaths nationwide)	-- 58
281. 1940 -- <b>tuberculosis</b> (IL subset of 55,576 tuberculosis deaths nationwide)	--3,439
282. 1940 -- <b>whooping cough</b> (IL subset of 2,926 whooping cough deaths nationwide)	-- 67
283. 1940 -- Nov 11-12, <b>Armistice Day Storm, blizzard</b> , IL	-- 13
284. 1940 -- Dec 04, <b>plane crash</b> , United Airlines DC-3 (NC25678), Chicago, IL	-- 10
285. 1941 -- <b>measles</b> , especially children (IL subset of 2,279 measles deaths nationwide)	-- 90
286. 1942 -- Mar 16, <b>Tornadoes</b> , esp. Champaign, Vermillion, Peoria, Marshall counties--	20
287. 1942 -- June 05, <b>munitions explosion</b> , Elwood Ordnance Plant, Joliet, IL	--48-52
288. 1943 -- May 20, USAAF B-24E <b>plane hits natural gas tank, fog</b> , Chicago, IL	-- 12
289. 1944 -- <b>cerebrospinal meningitis</b> (2,812 US cerebrospinal meningitis deaths); IL	-- 199

<sup>229</sup> IL Subset of storm taking 102-145 lives.

**Illinois (continued):**

290. 1944 -- **influenza** (subset of 17,320 US influenza deaths), esp. Jan-Apr, Dec; IL -- 543
291. 1944 -- **measles**, especially Jan-June (IL subset of 1,923 US measles deaths) -- 83
292. 1944 -- **polio**, especially July-Nov (subset, 1,070 polio deaths nationwide), IL -- 39
293. 1944 -- **tuberculosis** (IL subset of 54,731 tuberculosis deaths nationwide) --3,218
294. 1944 -- **whooping cough** (IL subset of 1,878 US whooping cough deaths) -- 44
295. 1945 -- Jan 16, **fire**, General Clark Hotel/Boarding House, N. Clark St., Chicago, IL-- 14
296. 1946 -- **polio**, especially July-Nov (IL subset of 1,845 polio deaths nationwide) -- 185
297. 1946 -- Apr 25, *Exposition Flyer train* rear-ends stopped *Advance Flyer*, Naperville, IL--45
298. 1946 -- June 05, **fire**, LaSalle Hotel, Chicago, IL -- 61
299. 1947 -- Mar 25, blasting causes dust explosion, Centralia No. 5 Coal **Mine** ~Centralia IL-- 111
300. 1947 -- July 24, Old Ben No. 8 coal **mine** methane gas/dust explosion, West Frankfort, IL--27
301. 1947 -- Aug 02-08, **excessive heat**, esp. Chicago, IL (44) [US heat deaths for year 540]--48
302. 1948 -- **polio**, July-Nov especially (1,895 polio deaths nationwide) -- 70
303. 1948 -- Mar 10, **Delta Air Flight 705 takeoff crash**, Chicago Municipal Airport, IL-- 12
304. 1948 -- Mar 19, **tornadoes**, Bunker Hill/19, Fosterburg/9, Gillespie/5 -- 33
305. 1948 -- Sep 07, Brach candy factory fire, **starch dust explosion**, fire, Chicago, IL -- 15
306. 1949 -- **polio**, especially July-Nov (~2,725 polio deaths nationwide) -- 246
307. 1949 -- Apr 04-5, **fire**, St. Anthony Hospital (including 13 babies), Effingham, IL -- 75
308. 1950 -- **polio**, especially July-Nov (1,904 polio deaths nationwide) -- 127
309. 1950 -- May 25, **trolley** & gasoline tank **truck** collide/**explosion**/fire, Chicago, IL -- 34
310. 1951 -- **measles**, 688 US deaths; subset for IL (5<sup>th</sup> highest US state loss) -- 31
311. 1951 -- **polio**, especially July-Nov (1,551-1,555 polio deaths nationwide) -- 94
312. 1951 -- **tuberculosis** (respiratory), 31,163 US deaths, subset for IL (5<sup>th</sup> highest US) --1,755
313. 1951 -- Sep 17, Dubbs 17 cracking unit **explosion & fire**, Shell Refinery, Wood River, IL--18
314. 1951 -- Dec 21, **mine** gas explosion, New Orient Coal Mine #2, West Frankfort, IL -- 119
315. 1952 -- **measles**, 621 US deaths; 24 states double digits; IL (5<sup>th</sup> highest US state loss)-- 25
316. 1952 -- **polio**, esp. Chicago/82 & Cook Co./105; subset of ~3,300 US polio deaths -- 258
317. 1952 -- **scarlet fever and streptococcal sore throat**; 352 US deaths; IL (7<sup>th</sup> US high)-- 15
318. 1952 -- **tuberculosis** (respiratory): 22,700 US deaths; IL (4<sup>th</sup> highest US state loss) --1,385
319. 1953 -- **excessive natural heat**, 576 US heat deaths, esp. Aug 22-Sep 5, esp. Chicago-- 24
320. 1953 -- **measles**, 483 US deaths, 23 states in double digits; IL subset -- 17
321. 1953 -- **polio** (IL subset of 1,450 polio deaths nationwide) -- 104
322. 1953 -- **tuberculosis** (respiratory); 17,954 US deaths; IL subset (4<sup>th</sup> high US state) --1,235
323. 1953 -- Apr 16, **aluminum dust explosion**/**fire**, Haber Corp, Chicago, IL -- 35
324. 1953 -- Sep 07, **fire**, Spector Realty Co. tenement building, State St., Chicago, IL -- 18
325. 1954 -- **excessive heat** (especially July), state subset of 978-984 heat-related deaths -- 50
326. 1954 -- **dysentery**, infectious, all forms (codes 045-048), 655 US deaths; IL subset -- 16
327. 1954 -- **encephalitis**, acute infectious (viral); 407 US deaths, esp. NY/52 PA/31; IL -- 22
328. 1954 -- **influenza**, 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; IL subset-- 73
329. 1954 -- **measles**; 524 US deaths; 21 states double digits; IL subset -- 16
330. 1954 -- **polio**, acute; 1,400 US deaths; IL subset (4<sup>th</sup> highest US state loss) -- 95
331. 1954 -- **scarlet fever**/streptococcal sore throat; 263 US deaths; IL subset -- 10
332. 1954 -- **tuberculosis** (respiratory); 15,146 US deaths; IL had 4<sup>th</sup> highest US state loss-- 939
333. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); IL, 6<sup>th</sup> highest state-- 51

**Illinois (continued):**

334. 1955 -- **tuberculosis** (respiratory); 13,676 US TB deaths; IL subset -- 797
335. 1955 -- Feb 12, Barton Hotel **fire**, sub-zero temp., "skid row," W Madison, Chicago, IL-- 29
336. 1955 -- July 17, **Braniff Air** 560 hits sign on approach/crashes, Chicago-Midway AP, IL-22
337. 1956 -- **influenza**, 2,323 US deaths; IL had 8<sup>th</sup> highest US state loss of life -- 90
338. 1956 -- **measles**, 530 US deaths/21 states in double digits; IL led US in deaths -- 41
339. 1956 -- **polio**/acute, 566 US deaths/15 states in double-digits; IL 2<sup>nd</sup> highest toll -- 71
340. 1956 -- **tuberculosis** (respiratory), 12,978 US deaths; IL 4<sup>th</sup> highest US state loss -- 763
341. 1957 -- **polio**, acute; 221 US deaths; six double digit states; CA, IL IN MI OH TX; IL-- 17
342. 1957 -- **tuberculosis** (respiratory); 12,384 US deaths; IL subset (5<sup>th</sup> US state high) -- 672
343. 1957 -- May 25, **two-car collision** kills two families, IL Hwy. 116 near Benson, IL -- 11
344. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) --4,365  
--Oct-Nov 9, **influenza epidemic**, Dixon State School for Mentally Ill, IL -- 12
345. 1957 -- Dec 18, **tornadoes**, Murphysboro/10, Mt. Vernon/Sand Ridge/Sunfield/1 each, IL--13
346. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including IL (3<sup>rd</sup> highest)-- 34
347. 1958 -- **polio** (acute); 255 US deaths; 11 states in double digit deaths; IL -- 11
348. 1958 -- **tuberculosis**; 12,361 US TB deaths; IL subset (4<sup>th</sup> highest of all States) -- 725
349. 1958 -- Feb 09-17, **coldwave and snow**, exposure (4), fire (6) CO poisoning (3), IL -- 13
350. 1958 -- Dec 01, **fire**, Our Lady of Angels Elementary School, Chicago, IL -- 95
351. 1959 -- **measles**, especially children; 385 US deaths; IL subset -- 16
352. 1959 -- **polio** (acute, as opposed to late effects of); 454 US deaths; subset for IL -- 19
353. 1959 -- **tuberculosis**; 11,456 US TB deaths; IL subset -- 643
354. 1959 -- Nov 24, **plane crash**, Trans World Air Flight 595, Chicago, IL -- 11
355. 1960 -- **measles**, especially children; 380 US deaths; IL -- 18
356. 1960 -- **polio** (acute, as opposed to late effects of); 230 US deaths, IL -- 11
357. 1960 -- **tuberculosis**; 10,866 deaths/death rate 6.1 per 100K; IL death rate 6.4 -- 641
358. 1960 -- July 27, Chicago **Helicopter** Airways blade failure/**crash**, Forest Park, IL --all 13
359. 1961 -- Feb 03-05, **blizzard-like snow storm**, IL -- 12
360. 1961 -- Sep 01, **TWA 529** longitudinal control loss/**crash**, ~Chicago-Midway AP, IL--all 78
361. 1961 -- Sep 17, **plane crash** on takeoff, Northwest 706, O'Hare, Chicago, IL -- 37
362. 1962 -- **tuberculosis**; 9,508 US deaths/death rate 5.1 per 100K pop.; IL 5.3 -- 535
363. 1962 -- Jan 07-13, **snow, sleet, extreme cold**; 153-219 US deaths; IL subset --17-26
364. 1962 -- Jan 10, Blue Blaze No. 2 Coal **Mine** gas and dust explosion, Carterville, IL -- 11
365. 1963 -- **tuberculosis**, 9311 US deaths/death rate 4.9 per 100K pop.; IL death rate 5.2-- 528
366. 1963 -- Jan 19-29, **cold wave and snow** (subset of 315-352 US deaths) --27-31
367. 1964 -- **measles**; 421 US deaths/death rate 0.2; IL death rate 0.2 -- 17
368. 1964 -- **polio**, acute (2) and late effects of acute poliomyelitis (9) -- 11
369. 1964 -- **tuberculosis**; US deaths 8,303/death rate 4.3 per 100K; IL death rate 4.4 -- 463
370. 1964 -- Nov 04, **fire**, Dorchester Manor Apartment Hotel, Chicago, IL -- 11
371. 1965 -- Aug 16, **plane crash**, United Flight 389, Lake Michigan, off IL -- 30
372. 1965 -- Dec 11, **arson fire**/mass murder, Seeley Club (Tavern), Chicago, IL -- 13
373. 1966 -- **excessive natural heat**, esp. late June-mid-July, subset, 613 US heat deaths, IL--70
374. 1966 -- **measles**, 276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; IL-- 27
375. 1966 -- **meningococcal infections**, 876 US deaths, esp. CA/109, TX/59, OH/50; IL -- 35
376. 1966 -- **tuberculosis**, 7,625 US TB deaths; subset for IL -- 410



**Illinois (continued):**

377. 1967 -- Jan 26-27, Great Midwest **Blizzard** (subset of US 94-107), esp. Chicago, IL --48-60
378. 1967 -- Apr 21, **tornadoes**, Northern IL, esp. Oak Lawn area (33) and Belvidere (24)-- 58
379. 1968 -- **excessive natural cold**; ICD-8 code E901; subset of 494 of US cold deaths; IL-- 26
380. 1968 -- **excessive natural heat**, ICD-8 code E900; subset of 231 US heat deaths; IL -- 12
381. 1968 -- **tuberculosis**, 6,292 US deaths/death rate 3.15 per 100K; IL 3.43 -- 378
382. 1968 -- Apr 04-11, Martin Luther King Jr. assassination **racial rioting**, Chicago, IL -- 11
383. 1968 -- Oct 13-Mar 29, A2 Hong Kong **influenza**-pneumonia epidemic, esp. Chicago<sup>230</sup>--1,010
384. 1968 -- Dec 27, **plane hits hangar**, North Central Air 458, O'Hare, IL -- 28
385. 1969 -- **excessive natural cold**; ICD-8 code E901; 424 US deaths; IL (US high) -- 33
386. 1969 -- **tuberculosis**; 5,567 US deaths/death rate 2.76 per 100K; IL 2.78 -- 308
387. 1970 -- **excessive natural cold**; ICD-8 code E901; 466 US deaths; IL (2<sup>nd</sup> state high)-- 20
388. 1971 -- **excessive natural cold**; ICD-8 code E901; 361 US deaths; IL (2<sup>nd</sup> highest state)-- 20
389. 1971 -- **tuberculosis**; 4,501 US TB deaths/death rate 2.18 per 100K; IL/2.59 -- 291
390. 1971 -- Jan 2-4, **snowstorm/blizzards**, Rockies to Great Lakes; 65-77 US deaths; IL<sup>231</sup>-- 7-12
391. 1971 -- June 10, **Amtrak train derails**, northbound City of New Orleans, ~Salem, IL-- 11
392. 1971 -- Oct 21, **Chicago & Southern Airlines** 804 approach crash in **fog**, Peoria IL--all 16
393. 1972 -- **excessive natural cold**, ICD-8 code E901, 490 US deaths; IL (US high) -- 46
394. 1972 -- May 05, Carver Convalescent Center (nursing home) **fire**, Springfield, IL -- 10
395. 1972 -- Oct 30, **rear-end train collision**, IL Central Gulf Commuter Rail, Chicago, IL-- 45
396. 1972 -- Dec 08, **plane crash**, United Flight 533, Midway Airport, Chicago, IL -- 45
397. 1972 -- Dec 20, **planes collide in fog**, North Central Air/Delta, O'Hare, Chicago, IL-- 10
398. 1973 -- **chickenpox**; 138 US deaths; IL -- 10
399. 1973 -- **excessive natural cold**; ICD-8 code E901; 381 US deaths; IL subset -- 12
400. 1973 -- **tuberculosis**; 3,875 US deaths/death rate 1.84 per 100K; IL 2.09 per 100K -- 235
401. 1974 -- **excessive natural cold**; ICD-8 code E901; 348 US deaths; IL -- 23
402. 1975 -- **excessive natural cold** (ICD-8 E901); 359 US deaths; IL -- 18
403. 1976 -- **excessive natural cold/hypothermia**; 424 US deaths; CA -- 21
404. 1975 -- **St. Louis Encephalitis** outbreak, IL -- 47
405. 1976 -- **tuberculosis**; 3,130 US TB deaths/death rate 1.44 per 100K; IL, 1.58 -- 180
406. 1976 -- Jan 30, **arson fire**, Wincrest Nursing Home, Chicago, IL -- 24
407. 1976 -- Feb 07, **train** hits **camper-truck** of children, grade crossing, Beckemeyer, IL-- 12
408. 1976 -- Dec 24, **fire**, birthday party (10 children), apartment house, Chicago, IL -- 12
409. 1977 -- **cold/hypothermia**, exposure to excessive natural; 634 US deaths; IL<sup>232</sup> -- 33
410. 1977 -- **tuberculosis**; 2,968 US TB deaths/death rate 1.35 per 100K; IL, 1.49 -- 170
411. 1977 -- Feb 04, CTA elevated L **trains** crash; 4 cars fall onto street below, Chicago, IL--11
412. 1977 -- Dec 05-10, **snowstorms and coldwave** ( $\geq$ 114 US deaths) -- 19
413. 1978 -- **excessive natural cold/hypothermia**; 652 US deaths; IL<sup>233</sup> -- 35
414. 1978 -- **tuberculosis**, 2,914 US TB deaths/death rate 1.31 per 100K; IL, 1.44 -- 165
415. 1978 -- Jan 25-27, **snow, high wind, deep cold**; subset of 143-146 US deaths IL<sup>234</sup> -- 20

<sup>230</sup> Number from CDC MMWR data on 122 cities reporting, including Chicago, Peoria and Rockford

<sup>231</sup> We have identified seven deaths by name and place. Newspaper reports note 12 IL deaths, 9 in Chicago area.

<sup>232</sup> We know of three exposure deaths during the Dec 5-10 winter event – thus presumably some double counting.

<sup>233</sup> Some double-counting. We know of four specific cold exposure deaths from the Jan 25-27, 1978 winter event.



**Illinois (continued):**

416.	1979 -- exposure to excessive natural <b>cold/hypothermia</b> ; 356 US deaths; IL <sup>235</sup>	--	25
417.	1979 -- <b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; IL, 0.96	--	110
418.	1979 -- May 25, American Airlines #191 <b>takeoff crash</b> , O'Hare IAP, Chicago, IL	--	273
419.	1980 -- exposure to excessive natural <b>cold/hypothermia</b> ; 302 US deaths; IL	--	18
420.	1980 -- <b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; IL, 0.97	--	111
421.	1980 -- Summer, <b>heat</b> , esp. St. Clair/31, Alexander/9, Cook/8, Madison/8 counties	--	88
422.	1980 -- Oct 28, <b>arson fire</b> kills children, apartment bldg., South Side Chicago IL	--	10
423.	1981 -- exposure to excessive natural <b>cold/hypothermia</b> ; 289 US deaths; IL	--	10
424.	1981 -- <b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; IL, 0.91	--	104
425.	1981 -- Jan 11, <b>fire</b> , single family home, East St. Louis, IL	--	11
426.	1981 -- Mar 14, <b>fire</b> , Royal Beach (Residential) Hotel, Chicago, IL	--	19
427.	1982 -- exposure to excessive natural <b>cold/hypothermia</b> ; 402 US deaths; IL <sup>236</sup>	--	14
428.	1982 -- Jan 9-18, <b>extreme cold waves/snow storms</b> , esp. Cook and Lake Counties	--	16-31
429.	1982 -- Jan 31-Feb 01, <b>winter weather</b> , especially heart attacks shoveling snow	--	11
430.	1982 -- Mar 19, <b>plane explosion/crash</b> , USAF KC-135 Tanker, ~Wonder Lake, IL	--	27
431.	1982 -- Apr 15, <b>construction failure</b> , Indiana Highway ramp, East Chicago, IL	--	13
432.	1982 -- May 29, <b>tornado</b> , F4, Marion, Williamson County, IL	--	10
433.	1983 -- exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; IL	--	26
434.	1983 -- summer <b>heat</b> , esp. July 23-31, esp. Chicago and East St. Louis, IL (US 597)--		53
435.	1983 -- Oct 11, <b>plane crash</b> , Air Illinois (N748LL), Pinckneyville, IL	--	10
436.	1983 -- Dec 16-27, <b>winter weather, severe cold</b> /exposure deaths, snow, icy roads	--	20
437.	1984 -- exposure to excessive natural <b>cold/hypothermia</b> ; 359 US deaths; IL	--	17
438.	1984 -- Feb 26-29, <b>snowstorms and cold</b> ; heart attacks shoveling snow/7; vehicular/3--		11
439.	1984 -- July 24, <b>explosions and fire</b> , Union Oil Refinery, Romeoville, IL	--	17
440.	1985 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; IL/US high--		39
441.	1986 -- exposure to excessive natural <b>cold/hypothermia</b> ; 301 US deaths; IL/US high--		32
442.	1986 -- summer <b>excessive natural heat</b> , subset of >400 US heat-related deaths, IL	--	30
443.	1987 -- exposure to excessive natural <b>cold/hypothermia</b> ; 326 US deaths; IL	--	21
444.	1987 -- summer <b>excessive heat</b> , substate of approximately 387 U.S. heat deaths, IL	--	15
445.	1988 -- exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; IL <sup>237</sup>	--	48
446.	1988 -- summer, <b>heat</b> , esp. Aug, esp. Chicago (subset of 911-919 U.S. deaths)	--	341
447.	1989 -- exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; IL <sup>238</sup>	--	42
448.	1989 -- <b>measles</b> , especially children, Chicago (8), other Cook County (2)	--	10
449.	1989 -- Dec 12-24, <b>cold wave and exposure</b> deaths, IL	--	25
450.	1990 -- exposure to <b>excessive natural cold/hypothermia</b> ; 596 US deaths; IL	--	45
451.	1990 -- <b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K, IL, 0.74	--	85
452.	1990 -- Aug 28, F5 <b>tornado</b> , Kendall and Will Counties (especially Plainfield), IL	--	29
453.	1990 -- summer (esp.), <b>heat</b> , ICD-9 E900 code for excessive heat and hyperthermia	--	13

<sup>234</sup> There were at least three vehicular carbon monoxide poisoning deaths as well as other vehicular deaths on icy roads, and at least one heart attack related to shoveling snow.

<sup>235</sup> IL had the highest number of deaths to cold/hypothermia/weather of any state in 1979.

<sup>236</sup> May well include deaths included in the two Jan 1982 winter storms noted below.

<sup>237</sup> IL had the highest loss of life of any State to hypothermia in 1988.

<sup>238</sup> IL had the highest loss of life of any State to hypothermia in 1989.

**Illinois (continued):**

454.	1991 -- exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; IL	--	63
455.	1991 -- <b>tuberculosis</b> , 1,713 US TB deaths, death rate of 0.68 per 100K, IL, 0.80	--	93
456.	1991 -- summer (esp.), <b>heat</b> , ICD-9 E900 code for excessive natural heat/hyperthermia--		12
457.	1991 -- Dec 09, <b>fire</b> , West Side Apartment Building, Humboldt Park, Chicago, IL	--	10
458.	1992 -- exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; IL	--	27
459.	1992 -- <b>tuberculosis</b> , 1,705 US TB deaths, death rate of 0.66 per 100K; IL, 0.79	--	92
460.	1992 -- Sep 07, Beechcraft parachuting group <b>plane crash</b> , Hinckley, IL	--	12
461.	1993 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; IL	--	28
462.	1993 -- Mar 16, <b>fire</b> , Paxton Hotel (single room occupancy), Chicago, IL	--	20
463.	1993 -- summer esp., <b>excessive natural heat</b> (IL subset of 311 U.S. heat deaths)	--	14
464.	1994 -- exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; IL	--	32
465.	1994 -- <b>meningococcal meningitis</b> , ICD-9 code 36.0; death rate 0.10 per 100K; IL, 0.12--		14
466.	1994 -- <b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K, IL, 0.70	--	83
467.	1994 -- summer esp., <b>excessive natural heat</b> (IL subset of 221 U.S. heat deaths)	--	11
468.	1994 -- Sep 08, <b>US Air flight 427 crashes</b> , Aliquippa, near Pittsburgh Airport, PA <sup>239</sup> --		132
469.	1995 -- exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; IL (US high)--		41
470.	1995 -- <b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, IL, 0.266	--	32
471.	1995 -- <b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K; IL, 0.55	--	66
472.	1995 -- July 12-Aug 24 (esp. July 12-16), <b>heat</b> , esp. Chicago metro area ( $\geq 700$ )	--	727-766
473.	1996 -- exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; IL	--	39
474.	1996 -- <b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K, IL, 0.51	--	62
475.	1996 -- summer esp., <b>excessive natural heat</b> (IL subset of 249 U.S. heat deaths)	--	10
476.	1996 -- Nov 19, <b>planes collide</b> , United Express 5925/Beechcraft, Quincy, IL	--	14
477.	1997 -- exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; IL/US high--		36
478.	1997 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, IL, 0.47	--	57
479.	1997 -- June-July, <b>excessive heat</b> , esp. Cook County; subset of 142 US fatalities; IL--		29
480.	1998 -- exposure to excessive natural <b>cold/hypothermia</b> ; 420 US deaths; IL	--	23
481.	1998 -- <b>infectious colitis, enteritis, gastroenteritis</b> , ICD-9 code 009.0, IL death rate 0.19 per 100K--		20
482.	1998 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; IL, 0.52	--	64
483.	1998 -- July, <b>excessive heat</b> , esp. July 26-29, subset of 373 US heat fatalities, IL	--	18
484.	1999 -- exposure to excessive natural <b>cold/hypothermia</b> ; 598 US deaths; IL	--	31
485.	1999 -- Jan 1-4, <b>Midwest blizzard/freeze</b> (US 73-100 deaths), esp. greater Chicago, IL--		44
486.	1999 -- Mar 15, <b>Amtrak train &amp; truck</b> collision at grade crossing, Bourbonnais, IL--		11
487.	1999 -- summer <b>excessive heat</b> , esp. late July-early Aug, especially Chicago, IL	--	153
488.	2000 -- exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; IL	--	34
489.	2000 -- exposure to <b>excessive natural heat</b> , 494 US deaths, subset for IL	--	11
490.	2000 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; IL, 0.668--		83
491.	2000 -- <b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; IL, 0.378	--	47
492.	2001 -- exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; IL	--	23
493.	2001 -- Jan 26, black ice <b>highway</b> accident, Salvation Army Van, Will County, IL	--	11
494.	2001 -- <b>natural heat</b> , esp. July 21-24, July 29-31, Aug 6-9, esp. Cook County, IL	--	38
495.	2002 -- exposure to <b>excessive natural cold/hypothermia</b> ; 646 US deaths; IL	--	35
496.	2002 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.253 per 100K; IL, 0.279	--	35

<sup>239</sup> Cross-listed in Illinois in that this Chicago flight, included eleven Illinois fatalities.

**Illinois (continued):**

497.	2002 -- summer, <b>heat</b> , esp. June 21-25, July 1-4 and Jul 15-22, esp. Chicago-area, IL--	54
498.	2003 -- exposure to excessive natural <b>cold/hypothermia</b> ; 620 US deaths; IL	-- 20
499.	2003 -- exposure to <b>excessive natural heat</b> ; 426 US deaths; subset for IL	-- 13
500.	2003 -- Feb 17, <b>stampede/crushing/asphyxiation</b> , E2/Epitome Night Club, Chicago IL--	21
501.	2003 -- June 29, <b>apartment building balcony collapse</b> , Lincoln Park, Chicago, IL	-- 13
502.	2004 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.038; IL, 0.09	-- 10
503.	2004 -- exposure to excessive natural <b>cold/hypothermia</b> ; 676 US deaths; subset IL	-- 43
504.	2004 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.376 per 100K; IL, 0.516	-- 65
505.	2005 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.04 per 100K, IL, 0.09--	11
506.	2005 -- exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; IL	-- 33
507.	2005 -- exposure to <b>excessive natural heat</b> ; 939 US deaths, subset for IL	-- 14
508.	2005 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; IL, 0.864	-- 109
509.	2005 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; IL, 0.25	-- 31
510.	2006 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; IL	-- 25
511.	2006 -- exposure to <b>excessive natural heat</b> ; 1,104 US deaths, esp. Chicago, IL	-- 51
512.	2006 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.285 per 100K; IL, 0.308	-- 39
513.	2007 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.042; IL, 0.079	-- 10
514.	2007 -- exposure to excessive natural <b>cold/hypothermia</b> ; 711 US deaths; IL	-- 36
515.	2007 -- exposure to <b>excessive natural heat</b> ; 582 US deaths, subset for IL	-- 16
516.	2007 -- <b>tuberculosis</b> , death rate 0.184 per 100K; IL, 0.205	-- 26
517.	2007 -- Feb 01-19, <b>extreme cold/wind chill</b> , Grundy, Kane & esp. Cook County, IL	-- 12
518.	2008 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; IL	-- 35
519.	2008 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; IL, 0.76	-- 97
520.	2009 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; IL 1.1--	140
521.	2009 -- exposure to excessive natural <b>cold/hypothermia</b> ; 616 US deaths; IL	-- 17
522.	2009 -- exposure to <b>excessive natural heat</b> ; 555 US deaths, subset for IL	-- 21
523.	2009 -- <b>H1N1 "Swine Flu,"</b> especially spring through winter, IL	-- 112
524.	2010 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K, IL, 1.3--	162
525.	2010 -- exposure to excessive natural <b>cold/hypothermia</b> ; 710 US deaths; IL	-- 21
526.	2010 -- exposure to <b>excessive natural heat</b> ; 874 US deaths, subset for IL	-- 17
527.	2011 -- exposure to excessive natural <b>cold/hypothermia</b> ; 0.2 death rate; IL, 0.155	-- 20
528.	2011 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K, IL, 1.0	-- 133
529.	2011 -- exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for IL	-- 50
530.	2012 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, IL, 0.9--	118
531.	2012 -- exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; IL <sup>240</sup>	-- 25
532.	2012 -- exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for IL, esp. Chicago--	54
533.	2013 -- exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; IL <sup>241</sup>	-- 42
534.	2013 -- exposure to <b>excessive natural heat</b> ; 651 US deaths, subset for IL	-- 20
535.	2014 -- exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; IL <sup>242</sup>	-- 52
536.	2014 -- exposure to <b>excessive natural heat</b> ; 360 US heat-related deaths, subset for IL--	11
537.	2015 -- exposure to excessive natural <b>cold/hypothermia</b> , 815 US deaths; IL	-- 25

<sup>240</sup> 3<sup>rd</sup> highest loss of life by State in 2012, behind CA with 32 and NY with 31.

<sup>241</sup> Highest state death toll in the US.

<sup>242</sup> IL had 2<sup>nd</sup> largest hypothermia loss of life in 2014, behind PA with 56.

538.	2015 -- exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for IL	--	14
539.	2016 -- exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; IL	--	17
540.	2016 -- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for IL	--	14
541.	2016 -- <b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.9 per 100K; IL, 1.1	--	95
542.	2017 -- exposure to <b>excessive natural cold/hypothermia</b> , 804 US deaths; IL	--	36
543.	2017 -- exposure to <b>excessive natural heat</b> ; 817 US deaths, subset for IL	--	14
544.	2018 -- exposure to <b>excessive natural cold/hypothermia</b> ; 1028 US deaths; IL <sup>243</sup>	--	51
545.	2018 -- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for IL	--	16
546.	2019 -- exposure to <b>excessive natural heat</b> , 915 US deaths/death rate 0.27, IL 0.16	--	20
547.	2019 -- exposure to <b>excessive natural cold/hypothermia</b> ; 1,115 US deaths; IL	--	58
548.	2019 -- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, IL, 1.26	--	130
549.	2020 -- <b>COVID-19</b> ; 354,215 US deaths/1,070 per 1M; IL, 1,439 per 1M pop.	--	17,978
550.	2020 -- exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; IL 0.46	--	46
551.	2020 -- exposure to <b>excessive natural heat</b> ; 1,174 US deaths; subset for IL	--	12
552.	2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; IL, 2.4K per M	--	13,039
553.	2021 -- exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; IL set	--	43
554.	2021 -- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for IL	--	12
555.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; IL death rate 6.83	--	8,661
556.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for IL	--	35
557.	2023 -- <b>COVID-19</b> , 71,691 US deaths/death rate 3597 per 1 mil. pop., IL 3315	--	1,327
558.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for IL	--	21

#### Some Select/Notable **Illinois** Other Large Loss-of-Life Events:<sup>244</sup>

1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	--	451
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	--	210
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	--	866
1854 --	<b>smallpox</b> , Chicago, IL	--	12
1875 --	<b>smallpox</b> , Chicago, IL	--	10
1876 --	<b>smallpox</b> , Chicago, IL	--	28
1877 --	<b>smallpox</b> , Chicago, IL	--	43
1885 --	<b>diphtheria and croup</b> , Chicago, IL	--	307
1886 --	Apr 09, governmental <b>violence</b> during labor riot, East St. Louis, IL	--	6
1889 --	Apr 28, <b>train derail</b> s, burns, Hamilton, Ontario, Canada	--20; Chicago	≥9
1895 --	Apr 01-30, <b>smallpox</b> outbreak, Chicago, IL	--	14
1898 --	<b>typhoid fever</b> (State subset of >4,627 typhoid fever deaths nationwide) <sup>245</sup>	--	≥131
1900 --	<b>smallpox</b> (subset, 8,484 US smallpox deaths)	--	25
1902 --	<b>smallpox</b> , IL	--	16
1903 --	Dec 25-26, <b>snow storm and coldwave</b> , IL	--	6
1905 --	<b>tuberculosis</b> , Chicago; subset, 56,770 registration area deaths (10 states/135 cities) <sup>246</sup>	--	3,674

<sup>243</sup> The only state with more deaths was New York with 52.

<sup>244</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>245</sup> Number is for 117 Illinois soldiers dying of typhoid in various U.S. training camps, and for three civilian deaths in early to mid-Jan. We know that at least 11 servicemen died in Illinois. There were undoubtedly more such deaths.

<sup>246</sup> A large number, but at TB death rate of 162.8 per 100,000; below Census area average of 168.2.



**Illinois (continued):**

1911 --	<b>polio</b> ; subset of 1,060 “registration area” deaths (63.1% pop.), IL	--	34
1911 --	Dec 10-30, <b>tuberculosis</b> , Chicago, IL	--	219
1912 --	<b>smallpox</b> , IL	--	12
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; IL avg. of 8 cities, 2.9	--	77
1915 --	July 27, explosion, <b>Mine</b> No. 1, United Coal Co., Christopher, IL	--	9
1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; six IL cities	--	193
1918 --	Sep 04, <b>bomb</b> explosion, Federal Building, Chicago, IL	--	4
1920 --	<b>smallpox</b> (IL subset of 508 smallpox deaths in 34 registration states)	--	15
1921 --	Mar 18, <b>explosion of fireworks</b> , West & Co Warehouse, Chicago, IL	--	8
1925 --	<b>anthrax</b> (IL subset of 22 US anthrax deaths)	--	1
1925 --	<b>dysentery</b> ; 3,257 US dysentery deaths; subset for IL	--	65
1927 --	May 09, <b>tornadoes</b> , Christian, Massac (esp. New Columbia), Schuyler Counties	--	7
1929 --	Feb 14, St. Valentine’s Day <b>massacre</b> , Capone gang vs. Moran gang, Chicago, IL--		7
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; IL death rate 3.0	--	231
1936 --	Aug 01, Kathleen Coal <b>Mine</b> fire, Dowell, IL	--	9
1937 --	Oct 08-24, <b>elixir sulfanilamide medicine accidental poisoning</b> , esp. East St. Louis--		7
1940 --	<b>malaria</b> (State subset of 1,442 U.S. malaria deaths)	--	22
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); IL death rate 13.4	--	1,058
1947 --	May 20, <b>USAAF B-25 bomber crash</b> in field at night near Chanute AAF, IL	--	7
1949 --	May 21, <b>tornadoes</b> , Palestine restaurant destroyed (4 killed), Wood River (5), IL	--	9
1950 --	<b>measles</b> ; subset of 468 US polio deaths, IL	--	8
1950 --	Apr 30, <b>USAF B-25 crashes</b> 4 miles NE of Scott AFB, IL	--	all 6
1951 --	<b>whooping cough</b> ; 960 US deaths; subset for IL	--	13
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for IL	--	18
1952 --	<b>influenza</b> , 5,649 US deaths, subset for IL	--	153
1953 --	<b>influenza</b> ; 9,500 US deaths; subset for IL	--	283
1955 --	<b>influenza</b> ; 2,755 US deaths; subset for IL	--	64
1957 --	<b>influenza</b> ; 7,463 US deaths; subset for IL	--	203
1958 --	<b>influenza</b> ; 4,442 US deaths; subset for IL	--	131
1959 --	Nov 09, <b>vehicular accident</b> , three trucks and one car, West Brooklyn, IL <sup>247</sup>	--	7
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; IL death rate 1.8	--	215
1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; IL death rate 0.5	--	55
1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; IL death rate 0.2	--	20
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; IL death rate 4.9	--	502
1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; IL death rate 1.3	--	128
1962 --	<b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population, IL rate 0.2	--	18
1962 --	Jan 6, <b>vehicular</b> accident near Greenup, IL	--	8
1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	--	7
1963 --	<b>dysentery</b> ; 294 US deaths/death rate 0.2 per 100K pop.; IL death rate 0.1	--	13
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; IL death rate 2.2	--	224
1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; IL death rate 0.2	--	10
1963 --	<b>scarlet fever</b> and streptococcal sore throat; 102 US deaths; IL	--	7
1964 --	<b>influenza</b> ; 1,687 US deaths/date rate 0.9 per 100K; IL death rate 0.3	--	30

<sup>247</sup> Six of the dead were family members in the car. One truck driver was killed.



**Illinois (continued):**

1964 -- Jan 12-14, <b>snowstorm and coldwave</b> , esp. NE US (146-167), IL	--	5
1965 -- <b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; IL death rate 0.7	--	72
1965 -- <b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; IL death rate 4.0	--	431
1965 -- Apr 11, storms/Palm Sunday midwest <b>tornado outbreak</b> , 260-271 US deaths, IL	--	7
1966 -- <b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for IL	--	50
1966 -- July 14, Richard Speck <b>mass murder</b> of nurses, dorm room, Chicago, IL	--	8
1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; IL 2.26	--	249
1968 -- <b>polio</b> ; ICD-8 codes 040-044; 130 US polio deaths; IL	--	5
1968 -- May 15, <b>tornado</b> , Dewitt (4) and St. Clair (4), IL	--	8
1969 -- <b>excessive natural heat</b> , ICD-8 code E900; 271 US deaths; IL	--	9
1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; IL 1.82	--	201
1970 -- <b>chickenpox</b> ; ICD-8 code 052; 93 US deaths, IL	--	6
1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; IL rate 0.82	--	91
1970 -- <b>measles/rubeola</b> ; ICD-8 code 055; 89 US deaths, especially TX/17 and IL/9	--	9
1970 -- <b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; IL 2.51	--	279
1971 -- <b>chickenpox</b> ; ICD-8 code 052; 98 US deaths; IL	--	6
1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths IL 0.45	--	51
1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; IL rate 1.65	--	186
1972 -- <b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; IL death rate 2.06	--	232
1973 -- <b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; IL 1.41	--	159
1974 -- <b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; IL/0.745	--	84
1974 -- <b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; IL, 1.53	--	172
1975 -- <b>rubella (German measles)</b> ; ICD-8 code 056; 21 US deaths/death rate, 0.01; IL, 0.027	--	3
1975 -- <b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; IL rate 1.59	--	180
1975 -- <b>measles/rubeola</b> ; ICD-8 code 055; 20 US deaths/death rate 0.009 per 100K; IL, 0.035	--	4
1975 -- <b>poliomyelitis</b> , acute; 78 US polio deaths/death rate 0.036 per 100K, IL rate 0.044	--	5
1975 -- <b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; IL death rate 1.46	--	165
1975 -- <b>whooping cough</b> (pertussis; ICD-8 code 033.0); 8 US deaths/death rate 0.004; IL	--	1
1976 -- <b>chickenpox</b> ; 106 US deaths/death rate 0.05 per 100K; IL death rate 0.07	--	8
1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; IL/1.2	--	135
1977 -- <b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; IL death rate 0.46	--	52
1977 -- <b>polio</b> (acute poliomyelitis); 100 polio deaths/death rate 0.05 per 100K; IL, 0.06	--	7
1978 -- <b>excessive natural heat</b> (esp. summer), ICD-8 E900: US death rate 0.12, IL, 0.07	--	8
1978 -- <b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; IL death rate 1.80	--	206
1979 -- <b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; IL death rate 0.12	--	14
1979 -- Aug 13, <b>construction failure/roof collapse, Rosemont Horizon Arena</b> , Chicago	--	5
1980 -- <b>chickenpox</b> , 78 US chickenpox deaths/death rate 0.03 per 100K; IL, 0.06	--	7
1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, IL, 0.83	--	95
1981 -- <b>chickenpox</b> , IL subset, 84 US deaths/death rate 0.04 per 100K; IL, 0.07	--	8
1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, IL, 1.21	--	139
1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, IL, 0.16	--	18
1982 -- <b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, IL, 0.77	--	88
1982 -- Apr 05-06, <b>blizzard</b> (snow, wind, cold air); IL	--	≥9
1982 -- Sep 29, <b>Tylenol tampering</b> (cyanide laced) deaths begin, Chicago, IL	--	7

**Illinois (continued):**

1983 --	<b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, IL, 0.32	--	36
1983 --	<b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K; IL, 0.74	--	84
1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, IL, 0.39	--	44
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; IL, 0.56	--	64
1984 --	<b>excessive natural heat</b> /hyperthermia (ICD-9 E900 code,) subset of 228	--	9
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, IL, 0.65	--	74
1985 --	<b>measles</b> (5 US measles deaths), IL	--	1
1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; IL, 0.56	--	64
1985 --	Jan 20-23 (especially), <b>winter weather, exposure/hypothermia</b> ; IL	--	8
1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: IL, 0.70	--	80
1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; IL, 0.62	--	71
1986 --	Mar 05, <b>Air Hi Ho Mitsubishi Marquise plane crash</b> , Eola, IL	--	all 5
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; IL, 3.07	--	350
1987 --	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; IL, 0.18	--	20
1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, IL, 0.65	--	74
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population: IL, 4.02	--	459
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K population; IL, 0.43	--	49
1988 --	<b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K; IL death rate 0.68	--	78
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; IL, 6.27	--	716
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; IL, 0.46	--	53
1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; IL, 0.78	--	89
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; IL, 0.76	--	87
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; IL, 0.29	--	34
1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, IL, 0.37	--	43
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K, IL death rate 0.20	--	24
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; IL, 0.62	--	73
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; IL death rate 0.28	--	33
1995 --	Oct 25, school <b>bus</b> stopped at road crossing hit by <b>train</b> , Fox River Grove, IL	--	7
1996 --	<b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; IL rate 0.248	--	30
1996 --	May 18-Aug 21, <b>excessive natural heat</b> , Chicago, Elmwood Park and Palatine	--	8
1997 --	<b>influenza</b> , code 487.0; US death rate 0.264 per 100K (720 US deaths); IL, 0.172	--	21
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; IL death rate 0.51	--	63
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; IL, 0.542	--	67
1999 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; IL, 0.307	--	38
2001 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.09 per 100K; IL, 0.08	--	10
2001 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.268 per 100K; IL, 0.232	--	29
2002 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.273 per 100K, IL, 0.224	--	28
2003 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; IL, 0.565	--	71
2003 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; IL, 0.22	--	28
2004 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; IL, 0.16	--	20
2006 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; IL, 0.17	--	21
2007 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.14 per 100K; IL, 0.10	--	13
2008 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; IL, 0.11	--	14

**Illinois (continued):**

2008 -- Feb 14, classroom <b>killings</b> , Northern Illinois University, DeKalb, IL <sup>248</sup>	--	5-6
2009 -- <b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); IL, 0.3	--	35
2009 -- <b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.2 per 100K; IL, 0.1	--	10
2010 -- <b>influenza</b> , 500 US flu deaths (50,097 flu/pneumonia), US death rate 0.2 per 100K; IL, 0.1	--	11
2010 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; IL, 0.1	--	15
2010 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; IL, 1.1	--	143
2011 -- <b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; IL, 0.4	--	57
2011 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; IL, 1.1	--	144
2011 -- <b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.2 per 100,000, IL, 0.1	--	17
2012 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; IL, 0.4	--	48
2012 -- <b>tuberculosis</b> , ICD-10 code A16-A19; US death rate 0.2 per 100,000; IL was 0.1	--	13
2012 -- <b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; IL, 1.3	--	168
2012 -- Feb 30, <b>tornado</b> , Harrisburg, IL	--	6
2013 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US & IL death rate 0.8 per 100K	--	98
2013 -- <b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; IL rate 1.2	--	157
2013 -- <b>tuberculosis</b> , ICD-10 code A16-A19, US death rate 0.2 per 100,000; IL rate 0.1	--	19
2013 -- <b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100K; IL rate 1.5	--	187
2014 -- <b>diarrhoea/gastroenteritis</b> of Infectious Origin; US death rate 0.8 per 100K, IL, 0.6	--	105
2014 -- <b>influenza</b> , ICD-10 codes J09-11.8, US death rate 1.4 per 100,000; IL rate 1.1	--	139
2014 -- <b>tuberculosis</b> , ICD-10 code A16-A19; US & IL death rate was 0.2 per 100,000	--	20
2014 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; IL rate 1.4	--	179
2014 -- Jan 01-07, <b>winter storms/polar vortex cold wave</b> ; subset of 44-45 US deaths	--	6-7
2015 -- <b>diarrhoea/gastroenteritis</b> of Infectious Origin; US death rate 0.8 per 100K, IL rate 0.7	--	91
2015 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100,000; IL rate 1.1	--	139
2015 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; US and IL death rate 0.1 per 100,000	--	15
2015 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; IL rate 1.3	--	165
2015 -- Dec 26-27, <b>flooding</b> , Christian County, Edinburg, Patoka vicinity, IL	--	9
2016 -- <b>diarrhoea/gastroenteritis</b> of infectious origin, US death rate 0.7 per 100K; IL rate 0.5	--	70
2016 -- <b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; IL death rate 1.3	--	172
2016 -- <b>tuberculosis</b> , ICD-10 codes A16-19; US death rate 0.2 per 100,000; IL rate 0.1	--	17
2016 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; IL, 1.2	--	156
2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rage 1.75 per 100K; IL rate 1.09	--	140
2017 -- <b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; IL rate 1.83	--	234
2017 -- <b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; IL subset	--	14
2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; IL rate 1.22	--	156
2018 -- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., IL rate 3.36	--	428
2018 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; IL 0.16	--	21
2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; IL rate 0.93	--	118
2019 -- <b>tuberculosis</b> , ICD-10 codes A16-A19 (526 US TB deaths); IL subset	--	18
2019 -- Jan 28-Feb 2, <b>polar cold/snow/ice</b> , esp. upper Mid-West (30-31 US deaths)	--	8
2019 -- Feb 15, workplace <b>shooting</b> ; five killed by shooter, shooter killed, Aurora, IL	--	6
2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; IL 1.14	--	144
2020 -- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; IL death rate 1.44	--	181
2020 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; IL	--	12

<sup>248</sup> Five student victims and the gunman suicide.

2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; IL death rate 1.03	--	131
2022 --	July 04, <b>sniper shoots</b> parade spectators from building roof, Highland Park, IL	--	7
2023 --	May 01, <b>vehicular pileup</b> in <b>farm dust</b> , high wind, I-55 north of Farmersville, IL--	--	6

**Breakout by Type of Illinois Large Loss-of-Life Events (10 or more fatalities):**

- 238 -- **Disease**, especially communicable, especially epidemics. (Plus 156 in "Other.")
- 77 -- **Winter Weather/cold/hypothermia**. (Plus 8 storms, cold waves, excessive cold.)
- 61 -- **Heat**. (Plus 4 years: 9 in 1969 & 1984, 8 in 1987, 8 in 1996.)
- 39 -- **Fire-Structural**. (Plus at least one with 9 deaths in "Other.")
- 26 -- **Maritime**. (Includes ~200 IL unit mil. men lost when *Gen Lyon* burned 1865 off NC.)
- 22 -- **Aviation**. (Plus 3 events noted with 5, 6 and 7 deaths each.)
- 22 -- **Tornadoes**. (Plus 5 events 6-9 deaths each.)
- 20 -- **Rail**. (Plus two – one with 9 deaths in 1889; one with 7 in 1995 in "Other.")
- 19 -- **Mining and Tunneling** (One was miners murdering strike breakers; plus 9 deaths/1915.)
- 16 -- **Violence** (Includes arson. Plus eight events 4-8 deaths.)
- 15 -- **Explosions** (not including maritime or mining). Plus one in 1921 with 8 deaths.
- 7 -- **Structural failure/construction-related**. (Plus one with 5 deaths in "Other.")
- 6 -- **Vehicular/Road/Highway**. (Plus four events with 7-8 deaths each.)
- 2 -- **Flooding**. (Plus one flood event in 2015 with nine deaths in "Other.")
- 2 -- **Fog as Contributing Factor**
- 1 -- **Carbon Monoxide Poisoning**.
- 1 -- **Lightning**.
- 1 -- **Swimming Drownings**.
- 1 -- **Tainted Food** (contaminated raw oysters leading to typhoid fever).
- 1 -- **Wood Alcohol Poisoning**.
- 0 -- **Dust Storm** (One event with six deaths in 2023.)

## IN

## Indiana

1. 1812 -- Sep 4-5, **massacre** of settlers, by Shawnee, Pigeon Roost Settlement, IN -- 23
2. 1832 -- Summer-Fall, **cholera** epidemic, Aurora (pop. only “few hundred,” Madison --47-57
3. 1833 -- **cholera**, esp. Salem, Indianapolis, Richmond and Indiana College, IN --  $\geq$ 220
4. 1834 -- June 26-Aug 1, **cholera**, especially Boston, IN (53) --  $\geq$ 57
5. 1835 -- June 10-July 9, **cholera** epidemics, Madison (32) and Charlestown (8) -- 43
6. 1844 -- Oct 23, steamer **Lucy Walker** boiler explosion, Ohio River ~New Albany, IN --56-80
7. 1849 -- Sum-Fall (esp.), **cholera**, esp. Aurora, Lafayette, Madison, Washington--1,312-1,320
8. 1850 -- Spring-Fall, **cholera**, esp. IN Penitentiary and Canal construction laborers<sup>249</sup> -- 55
9. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 12,708 IN deaths -- 505
10. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571--1,270
11. 1850 -- **measles**; subset 2,988 US measles deaths (average was 83 per State/Ter.), IN -- 163
12. 1850 -- **scarlet fever**; subset 9,584 such deaths 36 States/Territories/DC (average 266)-- 416
13. 1850 -- **smallpox**; subset 2,353 smallpox deaths 31 states/4 territories/DC; avg. 65 -- 140
14. 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) --1,070
15. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 186
16. 1851 -- Sum-Fall, **cholera**, esp. Evansville, Newport, Bloomington, Pt. Commerce, IN-- 132
- 1852 -- Apr 26, steamers collide, **Chickasaw**/*W.B. Clifton*, French Is., ~Evansville IN<sup>250</sup>-- 20
17. 1852 -- Apr 30, **tornado**, New Harmony, IN -- 16
18. 1852 -- July-Nov esp. **cholera**, esp. Gibson County/>80, Evansville/~50, Aurora/19 --179-181
19. 1854 -- Mar 13, steamer **Reindeer**, boiler flue collapse, Ohio River, Cannelton, IN --40-46
20. 1854 -- July, **cholera**, Bedford, Indianapolis, Lafayette, Laporte, Mercer County, IN -- 12
21. 1854 -- Aug 02, steamboat **Cape May** snags/careens/sinks, Ohio Riv., Mt. Vernon, IN-- 7-18
22. 1866 -- Feb 24, steamers collide, **Nannie Byers** sinks, OH Riv., 2M above Madison IN-16-17
- 1858 -- Jan 28, steamer **Fanny Fern** boiler explosion, OH Riv., ~Lawrenceburg, IN<sup>251</sup>-17-20
23. 1859 -- June 28, **Springbrook Bridge fails** under **train**, Mishawaka, IN -- 41
24. 1860 -- **croup**, contagious upper airway viral infection. subset 15,188 US croup deaths-- 779
25. 1860 -- **measles** (IN subset of 3,900 measles deaths nationwide)<sup>252</sup> -- 196
26. 1860 -- **scarlet fever** (IN subset of 26,402 deaths, 38 Census States & DC)<sup>253</sup> --1,437
27. 1860 -- **tuberculosis**, reported as “consumption” (IN subset, 49,082 US TB deaths)<sup>254</sup>--1,805
28. 1860 -- **typhoid fever** (IN subset. 19,236 deaths in 38 “registration” States and DC) -- 963
29. 1860 -- **whooping cough** (IN subset of 8,408 whooping cough deaths nationwide) -- 323
30. 1863 -- June-Jun 1865 (25 mo.), **dysentery/diarrhea**, Confederate POWs, Camp Morton, IN--315
31. 1865 -- Apr 27, steamer **Sultana** boiler explosion/fire, Miss. River, Redman Pt. AR<sup>255</sup>-- 491
32. 1865 -- Aug 21, steamboat **Argosy No. 3** mud drum explosion, Ohio River ~Rono, IN -- 10
33. 1866 -- Jan 30, steamer **Missouri** boiler explodes/sinks, Ohio River near Newburgh, IN-- 65
34. 1866 -- Aug 11-early Oct, **cholera**, Richmond, IN -- 31

<sup>249</sup> Was reported that epidemic began July 8 and “within eight days over forty deaths occurred” in Washington, IN.

<sup>250</sup> Not included in IN listing in that while several sources note the proximity to Evansville, the collision took place several miles away at the French Islands, KY. Only show here to note we are aware on the sources which note IN.

<sup>251</sup> Some sources note Lawrenceburg as location. A review of USACE navigation charts and Google maps, using information in descriptions of the explosion, however, leads us to believe it took place within KY side of the river.

<sup>252</sup> In terms of largest loss of life by State, IN was 6<sup>th</sup>, behind NY at 746, OH at 448, MO at 246, PA/227, LA/216.

<sup>253</sup> Second leading known cause of death in the State in 1860, behind consumption.

<sup>254</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>255</sup> Reportedly 491 Indiana paroled soldiers (Union) onboard were killed (total loss an estimated 1,538-1,947).



**Indiana (continued):**

35. 1869 -- Oct 01, <b>boiler explosion</b> , Power Hall, State Fair, Indianapolis, IN	-21--~27
36. 1868 -- Dec 4, steamers <b>United States &amp; America</b> collide/burn/sink, OH riv., Rayl's Lndg., IN	--72-74
37. 1870 -- <b>croup</b> (IN subset of 10,692 deaths nationwide)	-- 478
38. 1870 -- <b>diarrhoea</b> (664), <b>dysentery</b> (191), <b>enteritis</b> (386); data from U.S. Census	--1,241
39. 1870 -- <b>diphtheria</b> (IN subset of 6,303 deaths nationwide)	-- 241
40. 1870 -- <b>measles</b> (IN subset of 9,237 measles deaths nationwide)	-- 201
41. 1870 -- <b>scarlet fever</b> , especially children; subset of 20,339 US deaths; IN	-- 353
42. 1870 -- <b>tuberculosis</b> (consumption); subset of ~70,000 US TB deaths; IN	--2,807
43. 1870 -- <b>typhoid Fever</b> ; subset of 22,187 US typhoid fever deaths; IN	--1,029
44. 1870 -- <b>typhus</b> ; IN subset (3 <sup>rd</sup> highest State), 1,770 U.S. typhus deaths	-- 172
45. 1870 -- <b>whooping cough</b> ; subset of 9,008 US whooping cough deaths; IN	-- 449
46. 1873 -- June-mid-Aug, <b>cholera</b> , esp. 13 areas, esp. Mount Vernon & Indianapolis	--289-309
47. 1874 -- Aug 05, steamboat <b>Pat Rogers</b> burns, Ohio River ~1 mile below Aurora, IN	--47-50
48. 1879 -- June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 US croup deaths)	-- 636
49. 1879 -- June-May 1880, <b>malarial fever</b> , (IN subset, 20,231 such deaths US)	-- 869
50. 1879 -- June-May 1880, <b>measles</b> , esp. children (IN subset, 8,254 U.S. measles deaths)--	493
51. 1879 -- June-May 1880, <b>meningitis</b> (IN subset of 7,481 meningitis deaths nationwide)--	279
52. 1879 -- June-May 1880, <b>scarlet fever</b> , esp. children (IN subset, 16,388 US S.F. deaths)	--1,212
53. 1879 -- June-May 1880, <b>tuberculosis</b> (IN subset of 91,270 TB deaths nationwide)	--3,753
54. 1879 -- June-May 1880, <b>typhoid fever</b> (IN subset of 23,339 U.S. Typhoid deaths)	--1,401
55. 1879 -- June-May 1880, <b>whooping cough</b> (IN subset, 11,064 U.S. W.C. deaths)	-- 687
56. 1881 -- July 6-13, excessive heat and sunstroke deaths, multiple localities	-- $\geq$ 29
57. 1882 -- Jane-June & late in year, <b>smallpox</b> , esp. Fort Wayne, Evansville, Mich. City, IN--	87
58. 1883 -- <b>smallpox</b> , IN	-- 213
59. 1883 -- May 28, <b>tornadoes</b> , ~Clay City, Clay Co., Edinburgh, Johnston Co., IN	--14-20
60. 1886 -- May 12, <b>tornadoes</b> , Warren, Hancock, Fountain Counties IN	-- 10
61. 1887 -- Oct 10, <b>train collision</b> , near Kouts, IN	-- 10
62. 1889-90, June-May, <b>croup</b> , (subset of 13,862 U.S. croup deaths)	-- 305
63. 1889-90, June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; IN	-- 594
64. 1889-90, June-May, <b>measles</b> , subset of 9,256 US measles deaths	-- 257
65. 1889-90, June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--1,155
66. 1890 -- Jan 09, Bridge Caisson No. 1, <b>floods</b> , Ohio River, near Jeffersonville, IN <sup>256</sup>	-- 14
67. 1890 -- Mar 17, <b>fire</b> /bldg. collapse on firemen, Bowen-Merrill Co., Indianapolis, IN	-- 13
68. 1892 -- Jan 21, Surgical Institute (hospital) <b>fire</b> , IL and GA streets, Indianapolis, IN	-- 19
69. 1893 -- May 07, <b>runaway train wreck</b> , brake failure, near Lafayette, IN	-- 10
70. 1893 -- Sep 23, <b>train wreck</b> , Kingsbury, IN	-- 10
71. 1893 -- Dec 15, <b>crane/span fall</b> , bridge construct., Louisville, KY/Jeffersonville, IN <sup>257</sup> --	21
72. 1894 -- May-June, <b>smallpox</b> outbreak, Indianapolis, IN	-- 10
73. 1896 -- <b>measles</b> , multiple locations, e.g. Evansville, Goshen Indianapolis, Marion	-- 31
74. 1896 -- July 30-Aug 10, <b>excessive heat</b> , sunstroke, heat prostration, various locations	-- 26
75. 1897 -- <b>typhoid fever</b> (IN subset of approximately 9,200 deaths nationwide)	-- 655

<sup>256</sup> Cross-listed in Kentucky in that most if not all the fatalities were Louisville, KY workers.

<sup>257</sup> Cross-listed in Kentucky. The crane fall, knocking a span loose, happened on the Indiana side of the bridge over the Ohio River. More of the fatalities, however, lived in Kentucky than in any other state.

**Indiana (continued):**

76. 1897 -- July 30-Aug 11, <b>heat</b> (2,038 US heat deaths), especially Terre Haute (16), IN --	52
77. 1899 -- Jan 30-Feb 13, <b>cold waves, snow</b> with exposure/freezing deaths --	≥10
78. 1900 -- <b>croup</b> (upper airway infectious viral infection; IN subset 12,484 US croup deaths)--	318
79. 1900 -- <b>diphtheria</b> (IN subset of 16,475 US diphtheria deaths in 1900) --	523
80. 1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900) --	479
81. 1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths) --	456
82. 1900 -- <b>malarial fever</b> (14,874 US malarial fever deaths) --	340
83. 1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths) --	619
84. 1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths), IN --	164
85. 1900 -- <b>tuberculosis</b> (33,586 IN deaths all causes) (109,750 US tuberculosis deaths) --	4,232
86. 1900 -- <b>typhoid fever</b> (IN subset of 35,379 typhoid fever deaths nationwide) --	1,496
87. 1900 -- July-Aug (especially), <b>excessive natural heat</b> ; subset, 1,266 US heat deaths --	27
88. 1901 -- June-July (especially), <b>heat waves</b> (subset of 4,012 US heat deaths) --	90
89. 1901 -- June 26, <b>trestle fails under train</b> , weakened by recent rain, near Peru, IN --	16
90. 1902 -- <b>smallpox</b> , especially Indianapolis (17), IN --	78
91. 1902 -- June-Aug (especially July) <b>excessive natural heat</b> (subset of 290 heat deaths)--	11
92. 1903 -- <b>smallpox</b> , esp. Indianapolis/103; IN was 2nd highest state; 1,457 US deaths --	195
93. 1903 -- June-Aug (especially first half July), <b>heat</b> (subset of 520 US heat deaths) --	17
94. 1903 -- Oct 31, Purdue Football Team <b>train wreck</b> , 18 <sup>th</sup> St., Indianapolis, IN --	17
95. 1905 -- Mar 10, explosion, Oswald <b>Mine</b> , Princeton Coal & Mining, Gibson, IN --	10
96. 1906 -- Nov 12, <b>trains collide</b> , Baltimore & Ohio Railroad, near Woodville, IN --	44-50
97. 1907 -- <b>tuberculosis</b> (IN subset of 76,650 TB deaths nationwide) --	3,857
98. 1907 -- <b>typhoid fever</b> (subset of approximately 13,000 US typhoid deaths); IN --	948
99. 1907 -- Jan 19, <b>train car explosion</b> (powder), Big Four Railroad, Sandford, IN --	29-34
100. 1907 -- Jan 19, <b>trains collide in fog</b> , Big Four Line, Fowler, IN --	23-29
101. 1907 -- Oct 15, <b>powder explosion</b> , DuPont Powder Mill, Fontanet, IN --	27
102. 1908 -- May 03, <b>fire</b> , Aveline Hotel, Fort Wayne, IN --	12
103. 1909 -- June 19, <b>trains collide</b> , burns Harbor, IN --	12
104. 1910 -- <b>polio</b> outbreak, especially children (IN subset, 1,635 US polio deaths) --	49
105. 1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; IN, 34.0 --	919
106. 1910 -- <b>heat</b> , esp. Fort Wayne, Indianapolis, Lafayette, Marion, Mishawaka, IN --	10
107. 1910 -- Sep 21, <b>Interurban electric train car (trolley) crash</b> , Kingsland, IN --	39-42
108. 1911 -- <b>polio</b> ; subset of 1,060 “registration area” deaths (63.1% pop.), IN --	69
109. 1911 -- July 01-06, <b>excessive natural heat</b> , various locations, IN --	30-32
110. 1912 -- Jan-Mar, <b>tuberculosis</b> (IN subset, 17,463 US tuberculosis deaths) --	1,162
111. 1912 -- Jan 04-13, especially; <b>cold waves, snow and blizzard</b> (subset of 228 US) --	10
112. 1912 -- Nov 13, <b>trains collide</b> , Indianapolis, IN --	15
113. 1913 -- <b>measles</b> , 8,108 US “registration area” (65.1%) deaths. IN <sup>258</sup> --	444
114. 1913 -- <b>polio</b> , acute, esp. summer-fall, 864 “registration area” (65% pop.) deaths, IN--	45
115. 1913 -- Mar 23, <b>tornado</b> , Terre Haute and vicinity, IN --	21-22
116. 1913 -- Mar 23-27, <b>flooding</b> , IN (subset of 593-670 fatalities, multiple rivers) --	102-105
117. 1913 -- June 27-July 1 especially, <b>excessive natural heat</b> , various locations, IN --	72
118. 1914 -- Aug-Oct, <b>polio</b> , especially children (subset of 720 US polio deaths), IN --	33

<sup>258</sup> Death rate was 16.1 per 100,000 population whereas in 1912 it was 2.5.

**Indiana (continued):**

119.	1915 -- Aug-Nov, <b>polio</b> , especially children (IN subset of 311 US polio deaths)	-- 17
120.	1916 -- <b>diphtheria</b> , especially children, IN	-- 384
121.	1916 -- <b>polio</b> ; subset of 6,645-7,000 deaths, especially children, IN	-- 50
122.	1916 -- July 01-30, <b>excessive natural heat</b> , especially Gary and Indianapolis, IN	-- ~50
123.	1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K, IN, 21.4	-- 606
124.	1917 -- <b>polio</b> , esp. June-Sep, especially children; IN subset, $\geq$ 1,182 US polio deaths	-- 31
125.	1917 -- Mar 11, <b>tornadoes</b> , Newcastle/21, Millville/1, Hagerstown/2, IN	-- 24
126.	1917 -- Mar 23, <b>tornado</b> , New Albany, Floyd County, IN	--45-46
127.	1918 -- <b>typhoid fever</b> (IN subset of 9,100 U.S. Typhoid Fever deaths)	-- 396
128.	1918 -- Jan 11-12, <b>winter storms, extreme cold, snow</b> , stateside, IN	-- 13
129.	1918 -- Jun 22, <b>Train rams Hagenbeck-Wallace Circus train</b> , fire, Ivanhoe ~Hammond, IN-75-86	
130.	1918 -- Sep-Apr, 1919, <b>influenza and pneumonia</b> epidemic, IN	--13,977
	1918 -- Sep-Dec, <b>influenza and pneumonia</b> epidemic, IN	--9,021
	1919 -- Jan-Apr, <b>influenza and pneumonia</b> epidemic, IN	--4,956
131.	1919 -- <b>diphtheria</b> (subset, 9,160 US diphtheria deaths)	-- 319
132.	1920 -- <b>diphtheria and croup</b> (IN subset, 13,395 such deaths, 34 registration states)	-- 362
133.	1920 -- <b>influenza and pneumonia</b> , IN	--6,230
134.	1920 -- <b>measles</b> ; 7,712 measles deaths, 34 registration states/4.6 per 100K death rate	-- 348
135.	1920 -- <b>scarlet fever</b> (IN subset, 4,004 scarlet fever deaths, 34 registration states) <sup>259</sup>	-- 212
136.	1920 -- <b>smallpox</b> (IN subset of 508 smallpox deaths in 34 registration states)	-- 17
137.	1920 -- <b>typhoid fever</b> (subset, 6,805 typhoid fever deaths, 34 registration states); IN	-- 284
138.	1920 -- <b>whooping cough</b> (subset, 10,968 whooping cough deaths, 34 reg. states); IN	-- 311
139.	1920 -- Mar 28, <b>tornadoes</b> , counties of Porter/1, Wells/13, and Jay-Adams/14, IN	-- 28
140.	1921 -- <b>polio</b> (acute) esp. late Summer-Fall (IN subset, 1,597 U.S. polio deaths)	-- 39
141.	1921 -- Feb 27, <b>trains collide</b> , NY Central & MI Central RR, Porter, IN	-- 37
142.	1922 -- Apr 17, <b>tornado</b> , Warren County, IN	-- 11
143.	1924 -- Feb 02, <b>interurban traction trains collide/fire</b> , edge of Alfont, IN	--19-21
144.	1924 -- June 01, <b>train derailment and collision</b> , Wabash RR, Williamsport, IN	-- 13
145.	1925 -- <b>diphtheria</b> (IN subset, 8,058 US diphtheria deaths)	-- 172
146.	1925 -- <b>dysentery</b> (IN subset, 3,257 US dysentery deaths)	-- 105
147.	1925 -- <b>excessive natural heat</b> (subset of 1,587 US excessive heat deaths), IN	-- 21
148.	1925 -- <b>influenza</b> (IN subset, 4 <sup>th</sup> highest, 30,538 US influenza deaths)	--1,485
149.	1925 -- <b>measles</b> (IN subset of 2,404 measles deaths in 40 "registration" states)	-- 70
150.	1925 -- <b>scarlet fever</b> (IN subset, 8 <sup>th</sup> highest, 2,762 US scarlet fever deaths, 48 states)	-- 109
151.	1925 -- <b>tuberculosis</b> (IN subset, 89,268 US tuberculosis deaths)	--2,544
152.	1925 -- <b>typhoid/paratyphoid fever</b> ; subset of 8,287 US Typhoid Fever deaths; IN	-- 250
153.	1925 -- <b>whooping cough</b> (IN subset, 6,948 US whooping cough deaths)	-- 189
154.	1925 -- Feb 20, <b>mine</b> explosion, City Coal Mine, Sullivan, IN	-- 52
155.	1925 -- Mar 18, <b>Tri-State Tornado</b> , especially Griffin and Princeton, IN	--71-76
156.	1925 -- Jun 08, <b>train derailment</b> , Chesapeake & Ohio Railway, near Converse, IN	-- 12
157.	1926 -- Dec 09, <b>mine</b> explosion, Francisco No. 2 Coal Mine, Francisco, IN	-- 37
158.	1927 -- <b>polio</b> (acute) esp. late Summer-Fall (IN subset, 2,013 US polio deaths)	-- 43
159.	1927 -- Oct 14, <b>Interurban Railcar hits truck-trailer of people</b> , Indianapolis, IN	--20-21

<sup>259</sup> IN had 4<sup>th</sup> highest State death rate at 7.2 per 100,000, compared to 34 registration state average of 4.6.

**Indiana (continued):**

160.	1931 --	<b>epidemic cerebrospinal meningitis</b> ; subset, 2832 US meningitis deaths; IN--	148
161.	1931 --	<b>diphtheria</b> , especially children (IN subset, 5,738 U.S. diphtheria deaths)	-- 138
162.	1931 --	<b>influenza</b> (subset of 31,701 US influenza deaths); IN	--1,207
163.	1931 --	<b>measles</b> , especially children; subset, 3,576 US measles deaths; IN	-- 184
164.	1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--2,039
165.	1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; IN, 4.7	-- 154
166.	1931 --	Jan 28, Little Betty coal <b>mine</b> gas explosion, Dugger, near Linton, IN	-- 28
167.	1931 --	summer, especially June 27-July 17, Aug 1, <b>excessive natural heat</b> , IN	-- 113
168.	1933 --	May 12-15, <b>floods</b> and flooding, esp. Wabash and White Rivers, IN	-- 11
169.	1933 --	Oct 10, <b>plane bombing/sabotage</b> , United Airlines, Chesterton, IN	-- 10
170.	1933 --	Dec 26-28, <b>winter storm/coldwave</b> , Pacific NW, Upper Mid-West, NE, IN <sup>260</sup> --	10
171.	1934 --	summer, <b>excessive heat</b> deaths; subset of 3,250 US heat deaths; IN	-- 138
172.	1936 --	Jan 18-28, <b>winter snow storms and extreme cold</b> , IN	--19-29
173.	1936 --	Jan 24, <b>car</b> hit by <b>train</b> at crossing, 11 members of family killed, Grabill, IN	-- 11
174.	1936 --	Feb 04-25, especially, arctic <b>cold waves, snow</b> (273 US deaths), IN	-- 27
175.	1936 --	July 29, barge <b>Material Service</b> sinks, Lake Mich. storm, off So. Chicago, IN <sup>261</sup> --	15
176.	1936 --	July-Aug (especially), <b>heat wave</b> (4,678-5,000 US heat deaths), IN subset	-- 236
177.	1937 --	Jan 15-30 (generally), <b>flooding</b> , OH and MS River Valley areas	-- 12
178.	1937 --	July 15, coal <b>mine</b> explosion, Baker Coal Mine, Sullivan, IN	-- 20
179.	1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (IN subset, 1,997 US diphtheria deaths)	-- 55
180.	1939 --	<b>influenza &amp; pneumonia</b> ; subset, 99,097 US influenza/pneumonia deaths; IN--	3,005
181.	1939 --	<b>tuberculosis</b> (IN subset of 61,609 tuberculosis deaths nationwide)	--1,285
182.	1939 --	<b>whooping cough</b> ; subset of 3,026 US whooping cough deaths; IN	-- 70
183.	1939 --	summer, <b>excessive natural heat</b> ; subset, 527-1,073 US heat deaths	-- 14
184.	1940 --	<b>influenza &amp; pneumonia</b> (subset of 92,525 US flu and pneumonia deaths)	--2,565
185.	1940 --	<b>polio</b> , especially children (IN subset of 1,026 polio deaths nationwide)	-- 79
186.	1940 --	<b>tuberculosis</b> (IN subset of 55,576 tuberculosis deaths nationwide)	--1,285
187.	1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, IN, 2.3	-- 78
188.	1941 --	<b>measles</b> , especially children (IN subset of 2,279 US measles deaths)	-- 55
189.	1941 --	May 22, coal <b>mine</b> explosion, Panhandle No. 2 Coal Mine, Bicknell, IN	-- 14
190.	1943 --	Apr 21, <b>plane crash</b> , USAAF C-69A, Evansville Municipal Airport, IN	-- 10
191.	1944 --	<b>cerebrospinal meningitis</b> (IN subset, 2,812 US cerebrospinal meningitis deaths)--	76
192.	1944 --	<b>influenza</b> (IN subset, 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec--	815
193.	1944 --	<b>measles</b> , especially Jan-June (IN subset of 1,923 US measles deaths)	-- 43
194.	1944 --	<b>polio</b> , especially July-Nov (IN subset, 1,070 polio deaths nationwide)	-- 30
195.	1944 --	<b>tuberculosis</b> (54,731 US tuberculosis deaths), subset for IN	--1,221
196.	1944 --	Sep 14, <b>train collision</b> , Terre Haute, IN	-- 29
197.	1946 --	<b>polio</b> , especially July-Nov (1,845 US polio deaths), subset for IN	-- 49
198.	1947 --	Feb 17, train-crew <b>bus</b> drives into path of one-car electric <b>train</b> , Andry, IN	-- 13
199.	1948 --	Mar 26, <b>tornadoes</b> , Clay/Putnam/Hendricks (esp. Coatesville)/Madison counties, IN--	20
200.	1948 --	July 27, coal <b>mine</b> explosion, King Coal Mine, Princeton, IN	-- 13

<sup>260</sup> IN Subset of storm taking 102-145 lives.

<sup>261</sup> While South Chicago is in IL, starting about ½ mile off coast the water is in Indiana jurisdiction. The *Material Service* went down beyond ½ mile from the coast, thus in IN water. Lake County, IN, had local jurisdiction.



**Indiana (continued):**

201.	1949 --	<b>polio</b> , especially July-Nov (~2,725 US polio deaths), subset for IN	-- 116
202.	1949 --	May 21, <b>tornadoes</b> , Eel River (1), Shelburn (13) and Vigo County (3), IN	-- 17
203.	1949 --	Aug 10, Greyhound <b>bus</b> hits bridge, rolls/burns, IN 37 ~Bloomington, IN	-- 16
204.	1950 --	<b>measles</b> , especially children (468 US measles deaths), subset for IN	-- 20
205.	1950 --	<b>polio</b> , especially July-Nov (1,904 US polio deaths), subset for IN	-- 84
206.	1950 --	Nov 24-27, East US " <b>Storm of the Century</b> ," subset for IN	-- 18
207.	1951 --	<b>polio</b> , especially July-Nov (1,551-1,555 US polio deaths), subset for IN	-- 50
208.	1951 --	Jan 27-Feb 8, <b>cold-waves</b> /winter storms/ice/sleet/snow (US 175-200), IN	-- 30
209.	1951 --	Apr 28, <b>United Air Flight 129</b> downdraft plane crash, near Fort Wayne, IN	--all 11
210.	1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; IN (tied for 4 <sup>th</sup> US state high)--	31
211.	1952 --	<b>scarlet fever and streptococcal sore throat</b> ; 352 US deaths; IN (10 <sup>th</sup> highest)--	12
212.	1952 --	<b>polio</b> , esp. children (IN subset, 4 <sup>th</sup> highest, of 3,000-3,300 US polio deaths	-- 121
213.	1953 --	<b>heat, excessive natural</b> (code E931), 576 US heat deaths, esp. Aug 22-Sep 5--	12
214.	1953 --	<b>measles</b> , 483 US deaths, 23 states in double digits; IN subset	-- 12
215.	1954 --	<b>heat</b> (especially July), state subset of 978-984 heat-related deaths, IN	-- 13
216.	1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; IN subset--	71
217.	1954 --	<b>measles</b> ; 524 US deaths; 21 states double digits; IN subset	-- 15
218.	1954 --	<b>polio</b> , acute; 1,400 US deaths; IN (10 <sup>th</sup> highest US state loss)	-- 43
219.	1954 --	<b>scarlet fever</b> /streptococcal sore throat; 263 US deaths; IN 5 <sup>th</sup> highest US loss--	14
220.	1954 --	<b>whooping cough</b> /pertussis; 375 US deaths, 17 states double digits, IN	-- 13
221.	1955 --	<b>influenza</b> ; 2,755 US deaths; IN tied with MO for 10 <sup>th</sup> highest state loss	-- 91
222.	1955 --	<b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); IN subset	-- 20
223.	1956 --	<b>influenza</b> , 2,323 US deaths; IN had 9 <sup>th</sup> highest US state loss of life	-- 88
224.	1956 --	<b>measles</b> , 530 US deaths/21 states in double digits; IN 12 <sup>th</sup> highest state loss	-- 17
225.	1956 --	<b>polio</b> /acute, 566 US deaths/15 states in double-digits; IN subset	-- 14
226.	1956 --	Oct 03, two <b>automobiles collide</b> head-on near Muncie, IN	-- 10
227.	1957 --	<b>polio</b> , acute; 221 US deaths; six double digit states; CA, IL IN MI OH TX; IN--	11
228.	1957 --	Jan 14-17, <b>winter snowstorms</b> , cold, IN	-- 8-12
229.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--1,454
230.	1958 --	<b>influenza</b> ; 4,442 US deaths; IN subset (9 <sup>th</sup> highest in the US)	-- 160
231.	1958 --	<b>measles</b> ; 552 US deaths; 23 States in double digits, including IN	-- 20
232.	1958 --	Feb 6-13, <b>coldwave/snow</b> ; CO poisoning, exposures, fires, shoveling snow	-- 10
233.	1959 --	<b>influenza</b> ; 2,845 US deaths; IN subset	-- 119
234.	1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; IN subset	-- 270
235.	1959 --	Mar 06, <b>snowstorm</b> , IN	--10-13
236.	1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; IN death rate 4.6	-- 215
237.	1960 --	<b>measles</b> , especially children (380 US measles deaths); subset for IN	-- 11
238.	1960 --	Mar 02-05, <b>snowstorm and cold</b> , IN (subset of 186-193 US)	-- 17
239.	1960 --	Mar 17, <b>plane break-up and crash</b> , Northwest Flight 710, near Tell City IN--	63
240.	1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; IL death rate 1.3	-- 67
241.	1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; IN death rate 5.7	-- 267
242.	1961 --	Mar 02, Viking coal <b>mine</b> air dust explosion, near Terre Haute, IN	-- 22
243.	1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	-- 15
244.	1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; IN death rate 2.2	-- 104



**Indiana (continued):**

245.	1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; IN death rate 5.8	-- 273
246.	1963 -- Jan 02,	<b>natural gas explosion</b> , Home Meat Packing Co., Terre Haute, IN	-- 17
247.	1963 -- Jan 18-30,	<b>cold wave and snow</b> (subset of 315-352 US deaths)	--52-55
248.	1963 -- Oct 31,	<b>bottled propane gas tank explosion</b> , Indianapolis Coliseum, IN	--74-75
249.	1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; death rate of 0.2 for IN	-- 10
250.	1964 -- Jan 12-14,	<b>snowstorm and coldwave</b> , esp. NE US (146-167), IN	--10-12
251.	1964 -- Dec 18,	<b>fire</b> , Maples (McGraw) Convalescent Home, Fountaintown, IN	-- 20
252.	1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; IN death rate 1.4	-- 67
253.	1965 -- Jan 15-19,	<b>blizzards/snow/cold</b> , esp. IN & the East (68-70), IN subset	--30-31
254.	1965 -- Apr 11,	<b>Palm Sunday Midwest tornado</b> outbreak, 260-271 US deaths; IN--	136-145
255.	1966 --	<b>excessive natural heat</b> , subset of 613 US heat deaths, IN	-- 13
256.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; IN	-- 31
257.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for IN	-- 198
258.	1966 -- Jan 29-31,	<b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; IN	-- 15
259.	1967 -- Jan 26-27,	<b>Great Midwest Blizzard</b> (subset US 94-107), IN	--14-15
260.	1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; IN--	12
261.	1968 --	<b>excessive natural heat</b> , ICD-8 code E900; subset of 231 US heat deaths; IN--	11
262.	1968 -- Apr 06,	<b>gas &amp; gunpowder explosions, fires</b> , Marting Arms, Richmond, IN	-- 41
263.	1968 -- Aug 31,	<b>fire</b> , In-Crowd Lounge/apartment (possibly arson), Gary, IN	-- 13
264.	1968 -- Dec 22-Mar 1,	A2 "Hong Kong" <b>influenza-pneumonia</b> epidemic, 5 cities <sup>262</sup> --	227
265.	1969 --	<b>excessive natural cold</b> ; ICD-8 code E901; 424 US deaths; IN	-- 15
266.	1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; IN 3.3--	171
267.	1969 -- Sep 09,	<b>Allegheny Air Flight 853 collision with Piper</b> , Fairfield, IN	-- 83
268.	1970 -- Jan 08-12,	<b>cold wave, snow, icy roads</b> , IN	-- 13
269.	1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; IN 0.97--	51
270.	1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; IN 2.76--	146
271.	1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; IN 2.48	-- 132
272.	1974 -- Apr 03,	<b>tornadoes</b> , multiple counties, esp. Jefferson, White counties, IN	--47-49
273.	1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; IN, 2.77-	148
274.	1976 --	exposure to <b>excessive natural cold/hypothermia</b> ; 424 US deaths; IN	-- 15
275.	1977 --	<b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; IN <sup>263</sup>	-- 17
276.	1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; IN death rate 0.61	-- 33
277.	1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; IN, 1.42	-- 77
278.	1977 -- Jan 26-Feb 01,	<b>winter storms/blizzards/coldwave</b> (116 US deaths), IN	-- 21
279.	1977 -- Dec 13,	Univ. of Evansville basketball tm. charter <b>plane crash</b> , Evansville, IN--all	29
280.	1978 --	exposure to <b>excessive natural cold/hypothermia</b> ; 652 US deaths; IN <sup>264</sup>	-- 25
281.	1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; IN, 2.72	-- 148
282.	1978 -- Jan 25-27,	<b>snow, high wind, deep cold</b> ; subset of 143-146 US deaths, IN <sup>265</sup> --	11
283.	1979 --	exposure to excessive natural <b>cold/hypothermia</b> ; 356 US deaths; IN	-- 11

<sup>262</sup> Evansville, Fort Wayne, Gary, Indianapolis and South Bend. U.S. influenza epidemic death toll was 33,800.

<sup>263</sup> We know of 3 exposure deaths during the Jan 26-Feb 1 winter event – thus presumably some double counting.

<sup>264</sup> Some double counting from Jan 26-Feb 1 winter event where we are aware of at least three exposure deaths.

<sup>265</sup> At least three exposure deaths, five heart attacks, one stroke plowing driveway and one carbon monoxide death or possibly a heart attack. Cause of death of one victim found dead near his car at his workplace was not noted.

**Indiana (continued):**

284.	1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, IN, 1.38	--	76
285.	1980 --	June-Aug, esp., <b>heat</b> , esp. counties of Marion/6, Knox/5, Vanderburgh/4, IN	--	27
286.	1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, IN, 2.01	--	110
287.	1982 --	Jan 08-18, <b>extreme winter cold</b> and <b>ice and snow storms</b>	--	7-10
288.	1983 --	exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; IN	--	10
289.	1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, IN, 0.70	--	38
290.	1983 --	<b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K; IN, 0.92	--	50
291.	1983 --	summer <b>heat</b> , esp. July 15-30, 12 counties, esp. Marion (6), IN; US toll 597)	--	25
292.	1983 --	Dec 18-31, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	--	20
293.	1985 --	exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; IN	--	13
294.	1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: IN, 0.88	--	48
295.	1986 --	summer, <b>excessive natural heat</b> , IN; subset of >400 US heat-related deaths	--	~10
296.	1987 --	summer, <b>excessive heat</b> , substate of approximately 387 US heat deaths, IN	--	11
297.	1987 --	Oct 20, USAF A-7D <b>jet crash</b> , Ramada Inn, Wayne Twp., ~Indianapolis, IN	--	10
298.	1988 --	exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; IN	--	13
299.	1988 --	summer <b>excessive natural heat</b> , especially Lake and Marion Counties, IN	--	39-44
300.	1989 --	exposure to <b>excessive natural cold/hypothermia</b> ; 524 US deaths; IN	--	10
301.	1990 --	exposure to <b>excessive natural cold/hypothermia</b> ; 596 US deaths; IN	--	10
302.	1990 --	Feb 24, near <b>blizzard-like snowstorm</b> ; vehicular accidents and exposure	--	9-10
303.	1991 --	exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; IN	--	14
304.	1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K; IN, 0.52	--	29
305.	1992 --	exposure to <b>excessive natural cold/hypothermia</b> ; 558 US deaths; IN	--	12
306.	1992 --	Feb 6, KY ANG <b>C-130 Hercules crash</b> , hotel/rest. complex, Evansville, IN	--	17
307.	1993 --	exposure to <b>excessive natural cold/hypothermia</b> ; 641 US deaths; IN	--	14
308.	1994 --	exposure to <b>excessive natural cold/hypothermia</b> ; 633 US deaths; IN	--	12
309.	1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; IN, 0.86	--	50
310.	1994 --	Oct 31, <b>plane crash</b> , American Eagle Flight 4148, Icing, near Roselawn IN	--	68
311.	1995 --	exposure to <b>excessive natural cold/hypothermia</b> ; 553 US deaths; IN	--	10
312.	1995 --	<b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, IN rate 0.29	--	17
313.	1995 --	July 13-16, Aug 12-21, <b>excessive natural heat</b> , IN	--	15
314.	1996 --	exposure to <b>excessive natural cold/hypothermia</b> ; 685 US deaths; IN	--	12
315.	1996 --	<b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; IN, 0.389	--	23
316.	1997 --	exposure to <b>excessive natural cold/hypothermia</b> ; 501 US deaths; IN	--	10
317.	1997 --	<b>influenza</b> , code 487.0; US death rate 0.264 per 100K (720 US deaths); IN, 0.42	--	25
318.	1998 --	exposure to <b>excessive natural cold/hypothermia</b> ; 420 US deaths; IN	--	12
319.	1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; IN, 0.42	--	25
320.	1999 --	exposure to excessive natural <b>cold/hypothermia</b> ; 598 US deaths; IN	--	18
321.	1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; IN 0.629	--	38
322.	1999 --	summer <b>heat</b> , esp. late July-early Aug, (IN subset, 1,050 US heat deaths)	--	20
323.	2000 --	exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; IN	--	23
324.	2001 --	exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; IN	--	13
325.	2001 --	exposure to <b>excessive natural heat</b> ; 538 US deaths; subset for IN	--	10
326.	2002 --	exposure to excessive natural <b>cold/hypothermia</b> ; 646 US deaths; IN	--	18
327.	2002 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.273 per 100K, IN, 0.325	--	20

**Indiana (continued):**

328.	2003	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	620 US deaths; IN	--	16
329.	2003	-- <b>influenza</b> ,	ICD-10 codes J09-11;	US death rate 0.618 per 100K; IN, 0.936	--	58
330.	2003	-- <b>tuberculosis</b> ,	ICD-10 code A16-19,	death rate 0.25 per 100K; IN, 0.29	--	18
331.	2004	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	676 US deaths; IN	--	19
332.	2004	-- <b>influenza</b> ,	ICD-10 codes J09-11.8;	US death rate 0.376 per 100K; IN, 0.449--		28
333.	2005	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	700 US deaths; IN	--	17
334.	2005	-- <b>influenza</b> ,	ICD-10 codes J09-11.8;	US death rate 0.613 per 100K; IN, 0.685--		43
335.	2005	-- Nov 06, <b>tornado</b> ,	Eastbrook Mobile Homes,	Evansville & Warrick Co., IN <sup>266</sup>	--	24-25
336.	2006	-- exposure to <b>excessive natural heat</b> ;	1,104 US deaths,	subset for IN	--	12
337.	2007	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	711 US deaths; IN	--	19
338.	2008	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	641 US deaths; IN	--	17
339.	2008	-- <b>influenza</b> ,	ICD-10 codes J09-11.8;	US death rate 0.57 per 100K; IN, 0.87	--	56
340.	2009	-- <b>H1N1 "Swine Flu,"</b>	especially spring through winter,	IN	--	38-39
341.	2010	-- <b>diarrhoea/gastroenteritis</b> ,	infectious origin,	US death rate 0.9 per 100K; IN 1.0--		64
342.	2010	-- exposure to excessive natural	<b>cold/hypothermia</b> );	710 US deaths; IN	--	11
343.	2010	-- exposure to <b>excessive natural heat</b> ;	874 US deaths,	subset for IN	--	10
344.	2011	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	0.22 death rate; IN, 0.276	--	18
345.	2011	-- exposure to <b>excessive natural heat</b> ,	1,060 US deaths,	subset for IN	--	21
346.	2011	-- <b>influenza</b> ,	ICD-10 codes J09-J11.8;	US death rate 0.5 per 100,000; IN, 0.6	--	36
347.	2012	-- <b>diarrhoea/gastroenteritis</b>	of infectious origin;	US death rate 0.8 per 100K, IN 0.9--		60
348.	2012	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	501 US deaths; IN subset	--	14
349.	2012	-- exposure to <b>excessive natural heat</b> ;	879 US deaths;	subset for IN	--	23
350.	2012	-- <b>fungal meningitis due to tainted steroid injections</b> ,	IN		--	11
351.	2012	-- Mar 02, <b>tornadoes</b> ,	Chelsea, Henryville, Holton, Scott;	Washington Co.,	--	12-13
352.	2013	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	725 US deaths; IN subset	--	24
353.	2013	-- exposure to <b>excessive natural heat</b> ;	651 US deaths,	subset for IN	--	10
354.	2013	-- <b>influenza</b> ,	ICD-10 codes J09-J11.8;	US death rate 1.2 per 100K; IN, 1.4	--	92
355.	2014	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	930 US deaths; IN subset	--	34
356.	2014	-- <b>influenza</b> ,	ICD-10 codes J09-J11.8;	US death rate 1.4 per 100K; IN rate 1.9--		127
357.	2015	-- <b>diarrhoea/gastroenteritis</b> ,	infectious origin,	US death rate 0.8 per 100K, IN 0.9--		58
358.	2015	-- exposure to excessive natural	<b>cold/hypothermia</b> ,	815 US deaths; IN subset	--	28
359.	2016	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	731 US deaths; IN subset	--	16
360.	2016	-- <b>influenza</b> ,	ICD-10 codes J09-11;	US death rate 0.9 per 100,000; IN had 1.1	--	74
361.	2017	-- exposure to excessive natural	<b>cold/hypothermia</b> ,	804 US deaths; IN subset	--	27
362.	2017	-- <b>influenza</b> ;	6,515 US deaths/death rate 2.0 per 100K pop.;	IN rate 2.16	--	144
363.	2018	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	1,028 US deaths subset <sup>267</sup> --		35
364.	2018	-- exposure to <b>excessive natural heat</b> ;	1,012 US deaths;	subset for IN	--	16
365.	2018	-- <b>influenza</b> ,	ICD codes J09-11.8/death rate 3.41 per 100K pop.,	IN rate 4.54	--	304
366.	2019	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	subset of 1,115 US deaths--		34
367.	2019	-- exposure to <b>excessive natural heat</b> ,	subset of 915 US deaths		--	13
368.	2019	-- <b>influenza</b> ;	subset of 5,902 US deaths,	1.08 death rate per 100K, IN, 2.17	--	146

<sup>266</sup> The range has to do with whether sources cited include death of stillborn (8 months) Elaina Faith Warren, in Warrick County. Some sources note twenty-four fatalities, and some 25, including stillborn girl as the 25<sup>th</sup>.

<sup>267</sup> At 0.52 deaths per 100K population, IN had the 3<sup>rd</sup> highest death rate in 2018. MN had highest, CO, 2<sup>nd</sup> high.

369.	2020 -- exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; IN	--	18
370.	2020 -- exposure to <b>excessive natural heat</b> ; 1,174 US deaths, subset for IN	--	12
371.	2020 -- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; IN death rate 1.98	--	134
372.	2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); IN 1,227 per 1M pop.--8,263		
373.	2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; IN, 2.8K per M	--	10,774
374.	2021 -- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for IN	--	11
375.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; IN death rate 9.60	--	6,462
376.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for IN	--	22
377.	2023 -- <b>COVID-19</b> , 71,691 US deaths/death rate 3,597 per 1 mil. pop., IN 4,043	--	1,818
378.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for IN	--	11

### Some Select/Notable **Indiana** Other Large Loss-of-Life Events:<sup>268</sup>

1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	192
1881 --	<b>diphtheria</b> , especially Indianapolis (26)	--	38
1881 --	Oct-Dec 24, <b>smallpox</b> , esp. Madison, also South Bend, Evansville, Vincennes	--	10-11
1890 --	Jan-Mar, <b>influenza</b> (La Grippe/Russian Flu), Indianapolis, IN	--	54
1891 --	June 03, <b>boiler explosion</b> , Dusard Brothers' Saw Mill, near Fayetteville, IN	--	5
1894 --	<b>diphtheria</b> , State subset of $\geq 14,606$ US diphtheria deaths	--	27
1896 --	Dec 26, Oswald coal <b>mine</b> explosion, Princeton, IN	--	7
1898 --	<b>typhoid fever</b> (IN subset, $>4,627$ typhoid deaths nationwide), esp. Indianapolis <sup>269</sup>	--	141
1900 --	<b>measles</b> (subset of 12,866 US measles deaths)	--	107
1900 --	<b>smallpox</b> (subset, 8,484 US smallpox deaths)	--	19
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	--	201
1901 --	<b>smallpox</b> , IN	--	$\geq 21$
1904 --	<b>epidemic cerebrospinal meningitis</b> ; 3,284 such deaths in US	--	159
1905 --	<b>epidemic cerebrospinal meningitis</b> ; 5,114 such deaths in US	--	146
1905 --	<b>tuberculosis</b> , IN subset, 56,770 registration area deaths (10 states/135 cities) <sup>270</sup>	--	3,977
1906 --	<b>epidemic cerebro-spinal meningitis</b> , IN	--	140
1909 --	Aug 20, <b>car racing wreck</b> , Indianapolis, IN	--	3
1911 --	Nov-Dec, <b>tuberculosis</b> , IN	--	587
1912 --	Jan-June, Oct, <b>smallpox</b> , Bartholomew, Grant, especially St. Joseph Counties	--	12
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; IN rate 5.4	--	150
1915 --	<b>polio</b> ; 691 registration area deaths (67.1% population); subset for IN	--	19
1920 --	May 03, submarine coal <b>mine</b> explosion, Clinton, IN	--	5
1925 --	<b>anthrax</b> (IN subset of 22 US anthrax deaths)	--	1
1925 --	exposure to excessive <b>natural cold</b> , IN subset of 239 US excessive cold deaths	--	7
1925 --	<b>meningococcus meningitis</b> (IN subset, 1,095 US meningitis deaths)	--	27
1925 --	<b>polio</b> (IN subset, 1,518 US polio deaths)	--	29
1927 --	July 12-15, <b>excessive heat</b> ; subset of 126-161 U.S. heatwave deaths; IN	--	6
1931 --	<b>polio</b> , esp. July-Oct, (IN subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	18

<sup>268</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate

<sup>269</sup> Number is for 55 IN soldiers dying of typhoid in US camps, eleven civilians who died in early to mid-Jan (when our search in newspaper archives ended), and 64 Indianapolis deaths. At least eleven soldiers died in IN Aug-Oct.

<sup>270</sup> A large number, but TB death rate of 148.5 per 100,000, was below Census area average of 168.2.



**Indiana (continued):**

1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); IN death rate 14.4	-- 494
1944 --	<b>whooping cough</b> (IN subset of 1,878 whooping cough deaths nationwide)	-- 30
1944 --	Dec 30, <b>fire</b> , residential home, Columbus, IN	-- 8
1945 --	Oct 27, <b>USAAF C-47 manifold pressure drop forced landing bounce crash</b> 3M NW Pennville IN--6	
1947 --	Apr 30, <b>mining</b> blast raises coal dust; explosion; Spring Hill Coal Co., Kerns Mine, Terre Haute, IN--8	
1947 --	Aug 01-11, <b>excessive heat</b> (US excessive heat deaths all year/540), IN subset	-- 1-8
1948 --	<b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	-- 29
1949 --	Jan 13, <b>USN Beechcraft</b> engine failure after takeoff/attempt to return/crash, Indianapolis, IN-- 5	
1951 --	<b>measles</b> , 688 US deaths; subset for IN	-- 10
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for IN	-- 578
1951 --	<b>whooping cough</b> ; 960 US deaths; subset for IN	-- 15
1951 --	May 21, <b>USAF C-124 Globemaster emergency landing crash</b> near New Lisbon, IN-- 7	
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for IN	-- 10
1952 --	<b>influenza</b> , 5,649 US deaths, subset for IN	-- 204
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for IN	-- 462
1952 --	<b>whooping cough</b> (pertussis); 406 US deaths; subset for IN	-- 13
1953 --	<b>influenza</b> ; 9,500 US deaths; subset for IN	-- 310
1953 --	<b>polio</b> , subset of 1,450 US polio deaths, IN	-- 29
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for IN	-- 404
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; subset for IN	-- 347
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; subset for IN	-- 279
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; IN subset	-- 297
1956 --	May 15, Crane Co. PV1 loses left eng. power on <b>AP approach</b> , crashes ~Jeffersonville IN-8	
1957 --	<b>influenza</b> ; 7,463 US deaths; subset for IN	-- 218
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; IN subset	-- 284
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; subset for IN	-- 276
1959 --	Feb 15, residential home <b>fire</b> (grandmother and six children), South Bend, IN	-- 7
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; IN death rate 5.3	-- 249
1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; IN death rate 0.2	-- 10
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; IN death rate 4.9	-- 229
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; IN death rate 4.8	-- 223
1963 --	May 03, <b>fire</b> , home for mentally-challenged young children, Rockville, IN	-- 6
1964 --	<b>influenza</b> ; 1,687 US deaths/date rate 0.9 per 100K; IN death rate 0.8	-- 37
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; IN death rate 4.2	-- 203
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; IN death rate 4.0	-- 195
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for IN	-- 50
1966 --	<b>measles</b> , 276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; IN	-- 9
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; IN 3.37--	173
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; IN death rate 2.80	-- 144
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; IN death rate 2.53	-- 131
1969 --	Oct 26, drag-racing <b>car</b> hits stopped car with 9 churchgoers, Indianapolis, IN	-- 9
1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; IN 1.54--	80
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; IN 2.36--	123
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; IN death rate 2.02	-- 106



**Indiana (continued):**

1971 -- Jan 3, wrong-way <b>car</b> /3 deaths and <b>station wagon</b> /5 collide, I-74, near Shelbyville, IN--	
1972 -- <b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; IN	-- 8
1972 -- <b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; IN death rate 1.93	-- 102
1972 -- <b>yellow fever</b> , Indiana	-- 2
1973 -- <b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; IN 1.73 per 100K	-- 92
1974 -- <b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; IN/0.842--	45
1974 -- <b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; IN, 1.29	-- 69
1975 -- <b>polio</b> ; 78 US polio deaths/death rate 0.036 per 100K, IN, 0.093	-- 5
1975 -- <b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; IN, 1.23	-- 66
1975 -- <b>whooping cough</b> (pertussis; ICD-8 code 033.0); 8 US deaths/death rate 0.004; IN--	1
1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; IN/2.5--	132
1976 -- <b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; IN death rate 1.02	-- 55
1977 -- Dec 05-11, <b>snowstorms and coldwave</b> ( $\geq 114$ US deaths)	-- 9
1978 -- <b>chickenpox</b> , 91 US chickenpox deaths/death rate 0.04 per 100K, IN rate 0.09	-- 5
1978 -- <b>measles &amp; rubella</b> ; 21 US deaths/death rate 0.009 per 100K; IN, 0.073 (US high) --	4
1978 -- <b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; death rate of 1.14 for IN--	62
1978 -- Apr 23, <b>Piper Navajo Chieftain charter crash</b> , severe turbulence, Arlington, IN --	all 9
1979 -- <b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; IN, 0.26	-- 14
1979 -- <b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; IN, 0.86	-- 47
1980 -- <b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; IN death rate 0.64	-- 35
1981 -- <b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; IN 0.53	-- 29
1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, IN, 0.18	-- 10
1982 -- <b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, IN, 0.38	-- 21
1984 -- <b>influenza</b> , 1,096 US flu deaths/death rate 0.46 per 100K, IN death rate 0.44	-- 24
1984 -- <b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; IN, 0.44	-- 24
1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, IN death rate 0.59	-- 32
1985 -- <b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; IN, 0.68	-- 37
1985 -- Jan 20-23, <b>winter weather, exposure/hypothermia</b> , IN	-- 5-6
1985 -- <b>excessive natural heat</b> /hyperthermia (ICD-900 code for) subset of 227 deaths	-- 7
1986 -- <b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; IN, 0.55	-- 30
1987 -- <b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; IN, 1.35	-- 74
1987 -- <b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; IN, 0.22	-- 12
1987 -- <b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, IN, 0.48	-- 26
1988 -- <b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; IN, 2.06	-- 113
1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; IN, 0.45	-- 25
1988 -- <b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K; IN, 0.58	-- 22
1989 -- <b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; IN, 2.82	-- 156
1989 -- <b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K population; IN, 0.63	-- 35
1989 -- <b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K population; IN, 0.58 --	32
1990 -- <b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K population; IN, 0.65	-- 36
1990 -- <b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K population; IN, 0.34 --	19
1990 -- Feb 25, out-of-control <b>car</b> crosses I-65 median into path of <b>bus</b> , Indianapolis, IN --	6
1991 -- <b>tuberculosis</b> , 1,713 US TB deaths, death rate of 0.68 per 100K, IN, 0.55	-- 31
1992 -- <b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, IN at 0.35	-- 20

**Indiana (continued):**

1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate of 0.66 per 100K; IN, 0.41	--	23
1992 --	Sep 11, <b>Solar Sources Inc. Mitsubishi collides</b> with <b>Piper</b> after takeoff ~Greenwood AP, IN--6		
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; IN, 0.40	--	23
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate of 0.63 per 100K; IN, 0.57	--	33
1993 --	Nov 06, <b>Omni Group Cessna hunting trip icing and inadvertent stall crash</b> ~Greensburg AP, IN--5		
1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K, IN, 0.21	--	12
1994 --	Jan 14-21, <b>extreme cold and snow</b> , esp. Knox, Marion, Porter, Vanderburgh Co.	--	8
1994 --	Oct 20, <b>All American Air crash on AP approach</b> into stone quarry wall, ~Clark Co. AP, IN--5		
1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths; death rate 0.5 per 100K; IN, 0.41	--	24
1996 --	<b>tuberculosis</b> , 1,202 US TB deaths; death rate 0.45 per 100K, IN, 0.34	--	20
1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, IN, 0.27	--	16
1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; IN, 0.38	--	23
1999 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; IN, 0.215	--	13
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; IN, 0.444	--	27
2000 --	<b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; IN, 0.247	--	15
2001 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.268 per 100K; IN rate 0.228	--	14
2001 --	Oct 03, <b>explosions</b> and fire, Pyro Design and Development near Rochester, IN	--	5
2002 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.253 per 100K; IN rate 0.244	--	15
2005 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; IN, 0.19	--	12
2006 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.285 per 100K; IN, 0.268	--	17
2006 --	Mar 11, <b>fire</b> , residential, wood-burning stove probable cause, Shoals, IN	--	6
2008 --	Sep 14, <b>Hurricane Ike remnant</b> wind and rain storm, IN	--	7
2009 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; IN rate 0.9--		60
2009 --	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); IN, 0.3	--	22
2010 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; IN, 0.2	--	11
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; IN, 1.5	--	99
2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; IN 0.8	--	53
2012 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.4 per 100K; IN, 0.3	--	22
2012 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100,000; IN, 1.7	--	113
2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US & IN death rate 0.8 per 100K	--	52
2013 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100,000; IN, 1.8	--	116
2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, IN 0.6	--	38
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; IN, 1.5	--	99
2014 --	Jan 1-7, <b>winter storms and polar vortex cold wave</b> (subset of 44-45 US deaths)	--	9
2014 --	Feb 22, house <b>fire</b> (parents and four children), Indianapolis, IN	--	6
2015 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 1.6 per 100K; IN rate 1.6	--	108
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; IN 1.3	--	89
2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.7 per 100K, IN, 0.6	--	38
2016 --	<b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; IN rate 1.4	--	95
2016 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US and IN death rate 0.2 per 100,000	--	11
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; IN rate 1.4	--	91
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; IN rate 1.12	--	75
2017 --	<b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; IN subset	--	17
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; IN rate 1.18	--	79

2018 --	tuberculosis	ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; IN subset	--	16
2019 --	HIV/AIDS	; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; IN rate 0.92	--	62
2020 --	HIV/AIDS	; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; IN 1.17	--	79
2021 --	exposure to excessive natural cold	; 1,179 US deaths/death rate 0.36; IN rate 0.31	--	21
2021 --	HIV/AIDS	; 4,977 deaths/death rate 1.50 per 100K; IN death rate 0.81	--	55
2021 --	Apr 15, mass-shooting	/8, and suicide, FedEx facility ~Indianapolis Airport, IN	--	9

**Breakout by Type of Indiana Large Loss-of-Life Events (10 or more fatalities):**

- 195 -- **Disease**, especially communicable, especially epidemics. (Plus 131 in "Other.")
- 62 -- **Winter Weather/cold/hypothermia**. (Plus 7 years.)
- 38 -- **Heat**. (Plus 3 years 6-8 deaths each: 8 in 1947, 7 in 1985 and 6 in 2012.)
- 21 -- **Rail** (Includes two cross-listings in Road/Vehicular Incidents {1936 & 1947})
- 15 -- **Tornadoes**
- 10 -- **Maritime and Inland Watercraft**.
- 9 -- **Aviation**. (Plus 8 events 5-9 deaths each.)
- 8 -- **Mining**. (Plus 3 <10 deaths: 7 in 1896; 5 in 1920; and 8 deaths in 1947 coal mine explos.)
- 6 -- **Explosions, non-maritime and non-mining**. (Plus 2 >10 deaths: 5 in 1891, 5 in 2001.)
- 6 -- **Fire-Structural**. (Plus 5 -- 8 deaths in 1944, 7 in 1959, 6 in 1963, 2006 and 2014.)
- 4 -- **Road/Vehicular**. (Plus 3 events 6-9 deaths: 9 in 1969, 8 in 1971 and 6 in 1990.)
- 4 -- **Structural Failures**
- 3 -- **Flooding**.
- 2 -- **Violence** (Plus 9 deaths 4-15-2021 at Indianapolis Fed Ex.)
- 1 -- **Tainted Medication**

## IA

## Iowa

1. 1801-02 -- **smallpox** pandemic, Native Amer., Central, Midwest, esp. Upper, Northwest<sup>271</sup>-- ?
2. 1834 -- Apr 12, steamer **St. Louis** boiler explosion, Des Moines Rapids, IA -- 14
3. 1837 -- Aug 15, steamer **Dubuque** boiler explosion, Miss. Ri. Muscatine Bar, IA --16-27
4. 1849 -- Summer-Fall, **cholera**, especially Keokuk (38), IA -- 111
5. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 2,044 IA deaths -- 97
6. 1850 -- Apr 28, steamer **Cora** snags, sinks, Missouri River, below Council Bluffs, IA -- 15
7. 1851 -- June-Aug, **cholera**, esp. Burlington, West Point, Mt. Pleasant, Fort Madison IA-- 132
8. 1857 -- Mar 08-09, **massacre**, Wahpetuke Dakota (Sioux) attack Spirit Lake IA --35-40
9. 1860 -- **croup** (contagious upper airway viral infection), IA subset 15,188 US croup deaths--460
10. 1860 -- **scarlet fever** (IA subset of 26,402 deaths in 38 Census States & DC) -- 337
11. 1860 -- **tuberculosis**; IA subset (leading cause of death in IA), 49,082 US TB deaths -- 748
12. 1860 -- **typhoid fever** (IA subset of 19,236 deaths in 38 "registration" States and DC)-- 413
13. 1860 -- **whooping cough** (IA subset of 8,408 whooping cough deaths nationwide) -- 212
14. 1860 -- June 03, **tornadoes**, especially Camanche/41-42, Clinton County, IA -- 117
15. 1870 -- **diarrhoea** (339), **dysentery** (228), **enteritis** (238); data from U.S. Census -- 805
16. 1870 -- **diphtheria** (IA subset of 6,303 diphtheria deaths nationwide) -- 148
17. 1870 -- **measles** (IA subset of 9,237 measles deaths nationwide) -- 268
18. 1870 -- **tuberculosis** (Consumption) (IA subset of ~70,000 TB deaths nationwide) --1,313
19. 1870 -- **typhoid fever** (IA subset of 22,187 typhoid fever deaths nationwide) -- 521
20. 1870 -- **typhus** (IA subset of 1,770 typhus deaths nationwide) -- 45
21. 1872 -- June 17, F5 **tornado**, Greene, Boone Story, Marshall, Jasper, Poweshiek IA -- 68
22. 1873 -- June 20-Sep 14, **cholera** outbreaks, Burlington and esp. Davenport, IA --120-134
23. 1876 -- July 04, storm, **flash flood**, **dam failure**, IA --41-42
24. 1876 -- July 04, **tornadoes**, Warren and Madison Counties, IA -- >30
25. 1877 -- Aug 29, **bridge washout**, **train** goes in Little Four Mile Creek, ~Des Moines, IA-- 20
26. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)-- 618
27. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) --2,315
28. 1879 -- June-May 1880, **malarial fever**, (IA subset, 20,231 such deaths nationwide) -- 432
29. 1879 -- June-May 1880, **measles**, esp. children (IA subset, 8,254 US measles deaths) -- 172
30. 1879 -- June-May 1880, **scarlet fever**, esp. children (IA subset, 16,388 US S.F. deaths)-- 609
31. 1879 -- June-May 1880, **tuberculosis** (IA subset of 91,270 TB deaths nationwide) --1,909
32. 1879 -- June-May 1880, **typhoid fever** (IA subset of 23,339 U.S. Typhoid deaths) -- 720
33. 1879 -- July-mid to early Aug, **cholera-like** epidemic, Center Point and Walker, IA --24-28
34. 1880 -- June 09, **tornado**, Wheeler's Grove, Pottawattamie County, IA --14-20
35. 1881 -- **smallpox**, especially Keokuk (9), also Muscatine, Bellevue, Davenport, IA -- 14
36. 1882 -- **smallpox**, Apr 19-Sep 4, Davenport (11), also Jan-Apr, Keokuk (9), elsewhere-- 33
37. 1882 -- June 17, **tornado**, 8 Counties, in particular town of Grinnell, IA -- 100
38. 1888 -- Jan 12, **blizzard and extreme cold** (subset of 315-500 Plains States) -- 10
39. 1889-90, June-May, **croup**, (subset of 13,862 U.S. croup deaths) -- 352
40. 1889-90, June-May, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; IA --1,212
41. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 187

<sup>271</sup> We do not have a number. We do have sources which state the Ioway, Dakota Sioux, and Omaha who lived in or moved about Iowa were effected. We estimate more than 9,090 Natives died overall. One source notes about 1,500 Omaha died, though the distinction between Omaha dying in Iowa as opposed to Nebraska is not made clear.



**Iowa (continued):**

42. 1892 -- May 18, Floyd River <b>flood</b> , Sioux City, IA	-- 25
43. 1893 -- July 06, <b>tornado</b> , Cherokee/Buena Vista/Pocahontas/Calhoun Counties, IA	-- 71
44. 1895 -- May 03, <b>tornadoes</b> , Sioux, Lyon, Osceola, Madison Counties, IA	-- 10
45. 1896 -- May 24, <b>tornado</b> , Des Moines, Valeria, IA	-- 21
46. 1896 -- July 11, <b>trains collide</b> head-on, Chicago & Northwestern RR, Logan, IA	-- 30
47. 1900 -- <b>heat</b> (excessive natural heat exposure, coded "sunstroke" in some Census docs.)--	22
48. 1900 -- <b>tuberculosis</b> (19,573 IA deaths all causes) (109,750 US tuberculosis deaths)	--1,805
49. 1902 -- Jan 24, coal <b>mine</b> explosion, Lost Creek Mining Co. No. 2, Oskaloosa, IA	-- 22
50. 1902 -- Aug 06, <b>trains collide</b> head-on, Work and Freight, near Rhodes, IA	-- 13
51. 1903 -- May 26, <b>tornadoes</b> (3) Nodaway Co., MO; Polk/Monroe/Mahaska Co. IA	-- 13
52. 1903 -- June 19, <b>trains collide</b> head-on, Illinois Central Railroad near Raymond, IA	-- 10
53. 1910 -- <b>polio</b> , especially children, IA (3 <sup>rd</sup> highest loss by State, behind PA & NJ)	-- 161
54. 1910 -- Mar 10, <b>train derailment</b> , Rock Island Railroad, Marshalltown, IA	-- 49
55. 1910 -- Mar 21, Rock Island <b>train wreck</b> , Green Mt, Gladbrook, IA	-- 47
56. 1911 -- <b>polio</b> ; subset of 1,060 "registration area" deaths (63.1% pop.), IA	-- 34
57. 1911 -- July 04 & 09-10, <b>heat wave</b> , especially Des Moines, IA	--10-13
58. 1913 -- Mar 23, <b>tornadoes</b> , especially Council Bluffs and vicinity	-- 34
59. 1916 -- July 05-Aug 09, <b>heat wave</b> , especially Dubuque, IA	-- 22
60. 1916 -- Aug-Nov 13, <b>polio</b> outbreak, especially children, IA <sup>272</sup>	-- 51
61. 1918 -- May 21, <b>tornadoes</b> , 10 Counties, IA	-- 19
62. 1918 -- June 29, <b>structural failure</b> , Ruff Building, Sioux City, IA	-- 39
63. 1918 -- Sep-Dec, <b>influenza</b> epidemic, IA	--7,954
64. 1919 -- May 22, <b>dust explosion/fire</b> , Douglas Starch Works, Cedar Rapids, IA	--43-44
65. 1924 -- Aug 28, <b>explosion</b> , ammonia refrigeration tank, grocery, Des Moines, IA <sup>273</sup>	-- 11
66. 1925 -- <b>excessive heat</b> (State subset of 1,587 US excessive heat deaths)	-- 30
67. 1925 -- <b>influenza</b> (IA subset, 30,538 US influenza deaths)	-- 748
68. 1925 -- <b>polio</b> (IA subset, 8 <sup>th</sup> highest state polio loss, 1,518 US polio deaths)	-- 48
69. 1925 -- <b>smallpox</b> (IA subset, 6 <sup>th</sup> highest state, 709 US smallpox deaths 1925, 48 states--	42
70. 1931 -- summer, especially June-July 1, July 16-30, <b>heat waves</b> , IA	-- 211
71. 1934 -- summer, <b>excessive heat</b> deaths; subset of 3,250 US heat deaths; IA	-- 200
72. 1936 -- Feb 01-18, especially, <b>arctic cold-waves, snow</b> (273 US deaths), IA	-- 10
73. 1936 -- July-Aug (especially), <b>heat wave</b> (4,678-5,000 US heat deaths), IA subset	--279-400
74. 1937 -- Oct 22, school <b>bus</b> hit by <b>train</b> , Rock Island Line <i>Rocket</i> , Mason City, IA	-- 10
75. 1939 -- <b>influenza</b> and pneumonia (IA subset, 99,097 US flu/pneumonia deaths)	--2,018
76. 1940 -- <b>influenza</b> and pneumonia (IA subset, 92,525 US flu and pneumonia deaths)	--1,687
77. 1940 -- <b>polio</b> (IA subset of 1,026 polio deaths nationwide)	-- 64
78. 1941 -- Dec 12, <b>explosion</b> , Melt Unit, Iowa Ordnance Plant, Burlington, IA	-- 13
79. 1942 -- Mar 04, <b>explosion</b> , Iowa Ordnance Plant, Burlington, IA	-- 22
80. 1942 -- Nov 30, <b>plane crash</b> , US Army AF B-17, near Sioux City, IA	-- 10
81. 1943 -- Sep 02, <b>plane crash</b> , USAAF B-24E, near Army Air Base, Sioux City, IA	-- 10
82. 1944 -- <b>influenza</b> (IA subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec--	465
83. 1944 -- Mar 06, US Army Air Force B-17G <b>plane crash</b> , near Maxwell, IA	-- 10

<sup>272</sup> Part of worst US polio epidemic (43 states & DC), taking 6,645->7,000 lives, especially in NYC and NJ.

<sup>273</sup> Ten of the eleven died after the explosion from exposure to the ammonia fumes.

**Iowa (continued):**

84.	1944 -- May 26, USAAF B-17G <b>plane crash</b> , Ronald Horn farm, near Anthon, IA	--10-11
85.	1944 -- Sep 28, <b>trains collide</b> , North Western Railroad, near Missouri Valley, IA	-- 10
86.	1946 -- <b>polio</b> , especially July-Nov (IA subset of 1,845 polio deaths nationwide)	-- 53
87.	1946 -- June 09, <b>fire</b> , Canfield Hotel, Dubuque, IA	-- 19
88.	1948 -- <b>polio</b> , especially children (IA subset of 1,895 polio deaths nationwide)	-- 76
89.	1949 -- <b>polio</b> , especially July-Nov (IA subset of ~2,725 polio deaths nationwide)	--86-90
90.	1949 -- Dec 14, <b>natural gas explosion</b> , Swift & Co. Packing House, Sioux City, IA	-- 21
91.	1950 -- <b>measles</b> , especially children (IA subset of 468 measles deaths nationwide)	-- 16
92.	1950 -- <b>polio</b> , especially July-Nov (IA subset of 1,904 polio deaths nationwide)	-- 64
93.	1950 -- Jan 07, <b>fire</b> , Women's Psychopathic Building, Mercy Hospital, Davenport IA	-- 41
94.	1951 -- Mar 02, <b>plane crash</b> on approach, Mid-Continent Airlines, Sioux City, IA	-- 16
95.	1952 -- <b>polio</b> , especially children (IA subset {3 <sup>rd</sup> highest} 3,000-3,300 US polio deaths)--	163
96.	1953 -- <b>excessive natural heat</b> (code E931), 576 US heat deaths, esp. Aug 22-Sep 5; IA--	11
97.	1953 -- <b>measles</b> , 483 US deaths, 23 states in double digits; IA subset	-- 10
98.	1953 -- June 08, Floyd River <b>flood</b> , Sioux City, IA	-- 14
99.	1954 -- <b>excessive heat</b> (especially July), state subset of 978-984 heat-related deaths	-- 15
100.	1954 -- <b>encephalitis</b> , acute infectious (viral); 407 US deaths, esp. NY/52 PA/31; IA	-- 11
101.	1954 -- <b>polio</b> , acute; 1,400 US deaths; 8 <sup>th</sup> highest US state loss	-- 52
102.	1954 -- <b>scarlet fever</b> /streptococcal sore throat; 263 US deaths; IA subset	-- 10
103.	1954 -- Aug 22, Braniff Airways <b>flight 152 crash</b> , thunderstorm, S. of Mason City, IA--	12
104.	1955 -- <b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); IA subset	-- 20
105.	1957 -- Feb 13, <b>fire</b> , Council Bluffs Convalescent Home, Council Bluffs, IA	--16-17
106.	1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--1,054
107.	1958 -- July 02-07, heavy rain and <b>flash flooding</b> esp. East Nishnabotna River, IA	--18-19
108.	1959 -- <b>polio</b> (acute, as opposed to late effects of); 454 US deaths; IA subset	-- 22
109.	1959 -- Mar 05-06, <b>snowstorm</b> ; subset of 53-56 US deaths; IA	-- 19
110.	1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; IA death rate 9.5	-- 262
111.	1961 -- <b>influenza</b> ; 2,137 US deaths/death rate 1.2 per 100K; IA death rate 1.7	-- 47
112.	1962 -- <b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; IA death rate 3.2	-- 90
113.	1962 -- <b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population, IA rate 0.4	-- 10
114.	1964 -- <b>influenza</b> ; 1,687 US deaths/date rate 0.9 per 100K; IA death rate 1.9	-- 53
115.	1965 -- <b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; IA death rate 2.3	-- 63
116.	1965 -- Nov 24, <b>natural gas explosion/fire</b> , Nat. Guard Armory dance, Keokuk, IA--	21
117.	1966 -- <b>excessive natural heat</b> , subset of 613 US heat deaths, IA	-- 14
118.	1966 -- <b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; IA	-- 10
119.	1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; IA 7.6--	213
120.	1968 -- May 15, <b>tornado</b> , Fayette/Franklin/Butler/Floyd/Chickasaw/Howard Counties--	18
121.	1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; IA 5.4--	152
122.	1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; IA 3.15--	89
123.	1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths, IA 1.2--	35
124.	1971 -- Jan 3-4, <b>snowstorm</b> /blizzards, Rockies to Great Lakes; 65-77 US deaths; IA <sup>274</sup> -	30-31
125.	1972 -- <b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; IA	-- 16
126.	1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4,986 US deaths/death rate 2.38 per 100K; IA--	108

<sup>274</sup> Twenty-five snow removal related heart attacks, 2 weather-related traffic deaths, 3 carbon monoxide poisoning.

**Iowa (continued):**

127.	1973 --	<b>influenza</b> ;	ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; IA 3.57	--	102
128.	1973 --	Feb 02, natural gas <b>explosion</b> ,	hardware store and cafe, Eagle Grove, IA	--	14
129.	1973 --	Apr 08-10, <b>snowstorm</b> ;	41-42 deaths/4 States; exposure, snow removal, hwy.-16-17		
130.	1974 --	<b>influenza</b> ;	ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; IA/2.7--		77
131.	1975 --	<b>influenza</b> ;	ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; IA, 5.1--		146
132.	1975 --	Jan 10-12, <b>blizzard</b> (90 US deaths),	Granville, Rembrandt, Spencer, etc., IA--		15
133.	1976 --	<b>influenza</b> ;	ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; IA/8.8--		255
134.	1977 --	<b>influenza</b> ;	1,305 US flu deaths/death rate 0.59 per 100K; IA, 0.82	--	24
135.	1978 --	exposure to excessive natural <b>cold/hypothermia</b> ;	652 US deaths; IA	--	12
136.	1978 --	<b>influenza</b> ;	4,052 US flu deaths/death rate 1.82 per 100K; IA rate 2.84	--	83
137.	1978 --	Nov 05, Younkers Brothers Dept. store <b>fire</b> (employees)	West Des Moines, IA--		10
138.	1979 --	<b>influenza</b> ;	604 US flu deaths/death rate 0.27 per 100K; IA, 0.72	--	21
139.	1980 --	<b>influenza</b> ;	2,702 US flu deaths/death rate 1.19 per 100K, IA, 2.57	--	75
140.	1980 --	June-Aug (especially), <b>heat</b> (ICD-9 E900 code, excessive natural heat),	IA	--	18
141.	1981 --	<b>influenza</b> ;	3,006 US flu deaths/death rate 1.31 per 100K, IA, 3.54	--	103
142.	1981 --	June-Aug (especially), <b>heat</b> (ICD-9 E900 code for excessive natural heat),	IA--		12
143.	1982 --	exposure to excessive natural <b>cold/hypothermia</b> ;	402 US deaths; IA	--	17
144.	1982 --	<b>influenza</b> ;	727 US flu deaths/death rate 0.31 per 100K, IA, 0.76	--	22
145.	1982 --	Jan 09-17, <b>extreme cold and snow storms</b> ,	IA	--	11
146.	1983 --	<b>influenza</b> ;	1,431 US flu deaths/death rate 0.61 per 100K, IA, 1.74	--	50
147.	1983 --	summer <b>heat</b> , esp. mid-to-late July, deaths in 15 IA counties; (US toll 597)		--	19
148.	1983 --	Dec 17-29, <b>winter weather</b> ,	severe cold/exposure deaths, snow, icy roads	--	15
149.	1984 --	<b>influenza</b> ;	1,096 US flu deaths, death rate 0.46 per 100K, IA, 1.19	--	34
150.	1985 --	<b>influenza</b> ;	2,054 US flu deaths, death rate 0.86 per 100K, IA, 2.62	--	74
151.	1986 --	<b>influenza</b> ;	1,838 US flu deaths; death rate 0.76 per 100K: IA, 2.83	--	79
152.	1987 --	<b>excessive natural heat</b> ,	State substate of approximately 387 U.S. heat deaths--		15
153.	1987 --	<b>influenza</b> ;	632 US flu deaths, death rate 0.26 per 100K; IA, 0.76	--	21
154.	1988 --	<b>influenza</b> ;	1,943 US flu deaths, death rate 0.79 per 100K; IA, 2.49	--	69
155.	1989 --	<b>influenza</b> ;	1,593 US flu deaths, death rate 0.64 per 100K; IA, 2.38	--	66
156.	1989 --	July 19, <b>United Flight 232 crash</b> /hydraulic system failure,	Sioux City, IA <sup>275</sup> --		112
157.	1990 --	<b>influenza</b> ;	2,098 US flu deaths; death rate 0.84 per 100K; IA rate 3.10	--	86
158.	1991 --	<b>influenza</b> ;	1,137 US flu deaths, death rate 0.45 per 100K; IA rate 1.54	--	43
159.	1992 --	<b>influenza</b> ;	1,006 US flu deaths, death rate 0.39 per 100K, IA rate 0.64	--	18
160.	1993 --	<b>influenza</b> ;	1,044 US flu deaths, death rate 0.40 per 100K; IA rate 0.95	--	27
161.	1993 --	summer <b>flooding</b> ,	Great Midwest Flood of 1993, IA	--	5-17
162.	1994 --	exposure to excessive natural <b>cold/hypothermia</b> ;	633 US deaths; IA	--	10
163.	1994 --	<b>influenza</b> ;	1,229 US flu deaths; death rate 0.47 per 100K; IA rate 1.47	--	42
164.	1995 --	exposure to excessive natural <b>cold/hypothermia</b> ;	553 US deaths; IA	--	10
165.	1995 --	<b>exposure to excessive natural heat</b> ;	subset, 1,563-1,601 US heat-related deaths--		17
166.	1995 --	<b>influenza</b> ,	ICD-9 code 487.0, US death rate 0.227 per 100K, IA rate 1.151	--	33
167.	1996 --	exposure to excessive natural <b>cold/hypothermia</b> ;	685 US deaths; IA	--	11
168.	1996 --	<b>influenza</b> ;	745 US flu deaths; US death rate 0.276 per 100K; IA rate 0.521	--	15
169.	1997 --	<b>influenza</b> ,	code 487.0; US death rate 0.26 per 100K (720 US deaths); IA, 0.519--		15

<sup>275</sup> 111 deaths at the time and one of the seriously injured who died 31 days later from their burn injuries.

**Iowa (continued):**

170.	1998	--	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; IA rate 2.69	--	78
171.	1999	--	exposure to <b>excessive natural heat</b> ; 1,050 US deaths; subset for IA	--	10
172.	1999	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; IA, 1.919--	56	
173.	2000	--	exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; IA	--	12
174.	2000	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; IA, 1.777--	52	
175.	2002	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; IA, 0.852--	25	
176.	2002	--	Oct 13, <b>decomposed bodies</b> of illegals found in railcar, Denison, IA <sup>276</sup>	--	11
177.	2003	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; IA, 1.825--	54	
178.	2004	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; IA, 1.422--	42	
179.	2005	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; IA, 2.091--	62	
180.	2006	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; IA, 0.536--	16	
181.	2007	--	exposure to excessive natural <b>cold/hypothermia</b> ; 711 US deaths; IA	--	12
182.	2007	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.14 per 100K; IA rate 0.33--	10	
183.	2008	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; IA rate 1.59--	48	
184.	2009	--	<b>influenza (avian)</b> , ICD-10 code J09; US death rate 0.5 per 100K; IA rate 0.8--	25	
185.	2009	--	<b>H1N1 "Swine Flu,"</b> especially spring through winter, IA	--	41
186.	2010	--	exposure to excessive natural <b>cold/hypothermia</b> ); 710 US deaths; IA	--	13
187.	2010	--	<b>diarrhoea/Gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; IA 1.2--	37	
188.	2011	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; IA 1.2--	36	
189.	2011	--	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100K; IA rate 1.0--	30	
190.	2012	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, IA 1.0--	31	
191.	2012	--	exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for IA	--	11
192.	2012	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; IA rate 1.2	--	36
193.	2013	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, IA 1.1	--	35
194.	2013	--	<b>influenza</b> , ICD-10 Codes J09-J11.8; US death rate 1.2 per 100K; IA 2.5	--	76
195.	2014	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; IA 1.0--	30	
196.	2014	--	exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths subset, IA	--	12
197.	2014	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.4 per 100K; IA rate 2.4	--	75
198.	2015	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; IA 1.2--	36	
199.	2015	--	exposure to excessive natural <b>cold/hypothermia</b> , 815 US deaths subset, IA	--	10
200.	2015	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100K; IA rate 4.6	--	145
201.	2016	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.7 per 100K; IA 1.1	--	33
202.	2016	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.9 per 100K; IA rate, 1.1	--	34
203.	2017	--	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; IA rate 3.88	--	122
204.	2018	--	exposure to excessive natural <b>cold/hypothermia</b> ; subset of 1,028 US deaths--	19	
205.	2018	--	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., IA rate 6.24	--	197
206.	2019	--	exposure to excessive natural <b>cold/hypothermia</b> ; subset of 1,115 US deaths--	16	
207.	2019	--	<b>influenza</b> ; 5,902 US deaths/1.08 death rate per 100K, IA rate 2.88	--	91
208.	2020	--	exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; IA	--	14
209.	2020	--	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; IA death rate 2.18	--	69
210.	2020	--	<b>COVID-19</b> ; 354,215 US Covid deaths/1,070 per 1M; IA 1,233 per 1M pop.	--	3,891
211.	2021	--	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; IA, 2.5 per M	--	3,996
212.	2021	--	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; IA 0.72--	23	

<sup>276</sup> Immigrants likely died in TX or OK, but were found about four months later after railcar was moved to Iowa.



213.	2022 -- COVID-19; 217,370 US deaths/death rate 6.50; IA death rate 8.07	--2,546
214.	2022 -- exposure to excessive natural heat; 2,159 US deaths; subset for IA	-- 11

### Some Select/Notable Iowa Other Large Loss-of-Life Events:<sup>277</sup>

1850 --	dysentery; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	-- 67
1850 --	measles; subset 2,988 US measles deaths (average was 83 per State/Ter.), IA	-- 51
1850 --	scarlet fever; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	-- 42
1850 --	smallpox; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	-- 36
1850 --	tuberculosis; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	-- 159
1850 --	whooping cough, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	-- 58
1860 --	measles (3,900 US measles deaths), subset for IA	-- 44
1870 --	croup (IA subset of 10,692 croup deaths nationwide)	-- 163
1870 --	scarlet fever, especially children (IA subset of 20,339 deaths nationwide)	-- 325
1870 --	whooping cough (IA subset of 9,008 whooping cough deaths nationwide)	-- 337
1879 --	June-May 1880, meningitis (IA subset of 7,481 meningitis deaths nationwide)	-- 101
1879 --	June-May 1880, whooping cough (IA subset, 11,064 U.S. W.C. deaths)	-- 141
1881 --	diphtheria, especially Davenport (26) and Dubuque (5)	-- 36
1888 --	Apr 05, train derails, bridge damaged by ice gorge, near New Hampton, IA	-- 5
1889-90 --	June-May, typhoid fever, State subset of 27,058 US typhoid deaths	-- 366
1890 --	Jan-Feb, influenza (La Grippe/Russian Flu), especially Des Moines, Dubuque	-- 52
1893 --	Feb 14, Chicago & Iowa coal mine explosion, Albia, IA	-- 8
1894 --	diphtheria, especially children; State subset of $\geq$ 14,606 US diphtheria deaths	-- 112
1897 --	typhoid fever, subset of $\geq$ 9,192 US typhoid deaths	-- 37
1897 --	July 08-10, heat (IA subset of 608-616 US excessive natural heat deaths)	-- 7
1898 --	typhoid fever (IA subset of >4,627 typhoid fever deaths nationwide) <sup>278</sup>	-- >145
1899 --	Feb 04-13 especially, cold and snow; exposure and freezing deaths	-- 7
1900 --	croup (upper airway contagious viral infection; IA subset; 12,481 US croup deaths)	-- 162
1900 --	diphtheria (IA subset of 16,475 US diphtheria deaths in 1900)	-- 255
1900 --	dysentery (subset of 11,710 US dysentery deaths in 1900)	-- 150
1900 --	influenza (subset, 16,645 US influenza deaths), IA	-- 206
1900 --	malarial fever (14,874 US malarial fever deaths), IA	-- 284
1900 --	measles (subset of 12,866 US measles deaths), IA	-- 45
1900 --	meningitis (subset, 19,423 US meningitis deaths), IA	-- 286
1900 --	scarlet fever (subset, 6,333 US scarlet fever deaths)	-- 99
1900 --	smallpox (subset, 8,484 US smallpox deaths)	-- 17
1900 --	typhoid fever (IA subset of 35,379 typhoid fever deaths nationwide)	-- 549
1900 --	whooping cough (subset, 9,958 US whooping cough deaths)	-- 103
1901 --	June-July (especially), heatwaves (subset of 4,012 US heat deaths)	-- 7
1903 --	Feb 20, fire, Clifton Hotel, Cedar Rapids, IA	-- 6
1910 --	typhoid fever; subset, 12,673 US deaths/21 states/death rate 23.5; IA	-- >16
1912 --	June 10, family and two girls murdered in sleep with axe, Villisca, IA	-- 8

<sup>277</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>278</sup> Number is for soldiers of 49<sup>th</sup>, 50<sup>th</sup> and 52<sup>nd</sup> Iowa Volunteers, and for 5 civilians noted in Jan newspaper reports. There were undoubtedly more such deaths. At least 21 of the military typhoid deaths took place in Iowa.



**Iowa (continued):**

1914 -- Aug-Oct, <b>polio</b> , especially children (subset of 720 US polio deaths), IA	--	16
1915 -- Dec 15-31, <b>influenza and pneumonia</b> subset of larger epidemic, Madison County--		10
1916 -- <b>diphtheria</b> , especially children (IA subset of 8,000-17,000 US diphtheria deaths)	--	96
1918 -- July 11-Oct 2, <b>polio</b> outbreak, especially children, especially Dubuque, IA	--	16
1925 -- exposure to <b>excessive natural cold</b> , IA subset of 239 US cold deaths	--	6
1925 -- <b>diphtheria</b> (IA subset, 8,058 US diphtheria deaths)	--	95
1925 -- <b>dysentery</b> (IA subset, 3,257 US dysentery deaths)	--	48
1925 -- <b>measles</b> (IA subset of 2,404 measles deaths in 40 "registration" states)	--	13
1925 -- <b>meningococcus meningitis</b> (IA subset, 1,095 US meningitis deaths)	--	15
1925 -- <b>scarlet fever</b> (IA subset of 2,762 US scarlet fever deaths, 48 states)	--	49
1925 -- <b>tuberculosis</b> (IA subset, 89,268 US tuberculosis deaths)	--	1,018
1925 -- <b>typhoid/paratyphoid fever</b> (IA subset of 8,287 US Typhoid Fever deaths)	--	80
1925 -- <b>whooping cough</b> (IA subset, 6,948 US whooping cough deaths)	--	95
1927 -- <b>polio</b> (acute) esp. late summer and fall (IA subset, 2,013 US polio deaths)	--	28
1929 -- July 28, speedboats <b>Zipper and Miss Thriller collide</b> at night, W. Okoboji Lake, IA--		9
1931 -- <b>epidemic cerebrospinal meningitis</b> , IA subset, 2,832 US meningitis deaths	--	53
1931 -- <b>diphtheria</b> , especially children (IA subset of 5,738 U.S. diphtheria deaths)	--	50
1931 -- <b>influenza</b> (IA subset of 31,701 influenza deaths nationwide)	--	609
1931 -- <b>polio</b> , esp. July-Oct, (IA subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	40
1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths	--	754
1931 -- <b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; IA, 2.8	--	70
1936 -- Jan 18-28, <b>winter snow storms and extreme cold</b> , IA	--	9
1939 -- <b>tuberculosis</b> (IA subset of 61,609 tuberculosis deaths nationwide)	--	450
1939 -- <b>whooping cough</b> (IA subset of 3,026 whooping cough deaths nationwide)	--	46
1939 -- summer, <b>excessive natural heat</b> ; subset of 527-1,073 US heat deaths; IA	--	8
1940 -- <b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); IA death rate 7.0	--	177
1940 -- <b>tuberculosis</b> (IA subset of 55,576 tuberculosis deaths nationwide)	--	399
1940 -- <b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, IA, 1.0	--	26
1941 -- <b>measles</b> , especially children; 2,279 US measles deaths; subset for IA	--	19
1954 -- <b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; IA subset	--	49
1944 -- <b>cerebrospinal meningitis</b> (2,812 US cerebrospinal meningitis deaths), IA	--	21
1944 -- <b>measles</b> , especially Jan-June (subset of 1,923 measles deaths nationwide), IA	--	31
1944 -- <b>polio</b> , especially July-Nov (subset of 1,070 polio deaths nationwide), IA	--	16
1944 -- <b>tuberculosis</b> (subset of 54,731 tuberculosis deaths nationwide), IA	--	341
1944 -- <b>whooping cough</b> (subset of 1,878 whooping cough deaths nationwide), IA	--	26
1945 -- Apr 11, <b>chemicals explode</b> /fire, Super Products Co. plant., Des Moines, IA	--	8
1950 -- Aug 14, <b>private Beechcraft B35 Bonanza crash</b> near Kellog, IA	--	all 5
1951 -- <b>polio</b> , especially July-Nov (subset of 1,551-1,555 polio deaths nationwide), IA	--	17-19
1951 -- <b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for IA	--	180
1952 -- <b>dysentery</b> , infections (all forms); 949 US deaths; subset for IA	--	14
1952 -- <b>influenza</b> ; 5,649 US deaths; subset for IA	--	108
1952 -- <b>scarlet fever and streptococcal sore throat</b> ; 352 US deaths; subset for IA	--	10
1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for IA	--	166
1952 -- Nov 25-26, <b>winter storm</b> (subset of approximately 38 deaths nationwide), IA	--	4-7

**Iowa (continued):**

1953 --	<b>influenza</b> ; 9,500 US deaths; IA subset	-- 265
1953 --	<b>polio</b> (subset of 1,450 US polio deaths), subset for IA	-- 25
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for IA	-- 126
1953 --	Mar 30, O'Brien <b>coal mine coal-dust explosion</b> /2, CO poisoning/3, Lovilia, IA	-- 5
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; subset for IA	-- 80
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; IA subset	-- 84
1956 --	<b>measles</b> , 530 US deaths/21 states in double digits; subset for IA	-- 9
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; IA subset	-- 84
1957 --	<b>influenza</b> ; 7,463 US deaths; subset for IA	-- 222
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; subset for IA	-- 80
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; IA subset	-- 77
1958 --	Jan 27, <b>fire</b> & suffocation deaths, Olympia Hotel, Walnut St., Des Moines, IA	-- 5
1958 --	<b>influenza</b> ; 4,442 US deaths; IA subset	-- 90
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; IA subset	-- 89
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; IA death rate 2.1	-- 59
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; IA death rate 2.4	-- 66
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; IA death rate 2.2	-- 62
1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	-- 5
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; IA death rate 3.7	-- 104
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; IA death rate 1.8	-- 51
1963 --	Jan 19-23, <b>cold wave and snow</b> (subset of 315-352 US deaths), IA	-- 5-6
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; IA death rate 1.7	-- 47
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; IA death rate 1.6	-- 43
1965 --	July 25, <b>drownings</b> , children wading, Ledges State Park south of Boone, IA	-- 6
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for IA	-- 36
1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; IA subset lower than US average	-- 47
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; IA death rate 1.75	-- 49
1968 --	Dec 29-Feb 01, A2 "Hong Kong" <b>influenza-pneumonia</b> epidemic, Des Moines <sup>279</sup>	-- 32
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; IA death rate 1.34	-- 39
1970 --	<b>polio</b> ; ICD-8 codes 040-044; 128 US deaths; IA	-- 6
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; IA 1.34	-- 38
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; IA death rate 0.77	-- 22
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; IA 0.91	-- 26
1973 --	<b>chickenpox</b> ; 138 US deaths; IA	-- 7
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; IA 0.66 per 100K	-- 19
1973 --	Jan 3, Morplan Inc. <b>Beechcraft C90 King Air plane crash</b> , AP approach, Blairstown IA-5	
1973 --	Apr 19, <b>Air Iowa approach crash</b> 3 miles SW of Davenport Municipal Airport, IA--all 6	
1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; IA, 0.91	-- 26
1974 --	Nov 30-Dec 01, <b>snowstorm</b> , vehicular accidents on icy and snowy roads, IA	-- ≥6
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; IA, 0.62	-- 18
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; IA, 0.76	-- 22
1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; IA, 0.58	-- 17
1977 --	Dec 05-10, <b>snowstorms and coldwave</b> (≥114 US deaths)	-- 9

<sup>279</sup> U.S. influenza epidemic death toll was 33,800.

**Iowa (continued):**

1978 --	tuberculosis	2,914 US TB deaths/death rate 1.31 per 100K; IA death rate 0.48	--	14
1982 --	Apr 05-06, snow, wind, cold	IA	--	5
1984 --	tuberculosis	1,729 US TB deaths, death rate 0.73 per 100K; IA rate 0.35	--	10
1985 --	tuberculosis	1,752 US TB deaths, death rate 0.74 per 100K; IA rate 0.35	--	10
1985 --	Nov 25, Iowa State University Strike Commander approach crash	Des Moines. IA--	--	7
1987 --	HIV AIDS	13,468 deaths/US death rate 5.55 per 100K population; IA, 0.80	--	22
1988 --	HIV AIDS	16,602 deaths/US death rate 6.8 per 100K population: IA, 0.87	--	24
1988 --	tuberculosis	1,921 US TB deaths, death rate 0.78 per 100K population; IA, 0.47	--	13
1989 --	HIV AIDS	22,082 US deaths, death rate 8.9 per 100K population; IA rate 1.59	--	44
1991 --	Nov 01, killing spree	(4 faculty, 1 student; suicide), Univ. of Iowa, Iowa City	--	5-6
1993 --	Apr 19, SD Governor Mickelson & party plane crash	near Zwingle, IA <sup>280</sup>	--	8
1995 --	July 12-14, heat	Burlington, Des Moines, Marshalltown, IA	--	5
1998 --	Dec 30-Jan 3, 1999, winter storms	IA	--	6-7
2001 --	summer, excessive natural heat	IA	--	5
2003 --	Jan 02, pickup	carrying illegals crashes into tractor trailer, I-80 near Menlo, IA	--	9
2007 --	Jan 12-15, ice and winter storm	IA	--	8
2009 --	diarrhoea/gastroenteritis	infections origin; US death rate 0.9 per 100K; IA, 0.8	--	23
2010 --	viral hepatitis	ICD-10 code B15-B19; US death rate 2.4 per 100K; IA, 1.4	--	42
2011 --	viral hepatitis	ICD-10 code B15-B19, US death rate 2.5 per 100K; IA, 1.3	--	41
2012 --	viral hepatitis	ICD-10 code B15-B19, US death rate 2.6 per 100,000; IA 1.6	--	49
2013 --	viral hepatitis	ICD-10 code B15-B19; US death rate 2.6 per 100,000; IA 1.6	--	51
2014 --	viral hepatitis	ICD-10 code B15-B19, US death rate 2.5 per 100,000; IA, 1.4	--	44
2014 --	Jan 24, house fire	kills mother, two children, 2 male adults, near Arlington, IA	--	5
2015 --	viral hepatitis	ICD-10 code B15-B19; US death rate 2.3 per 100,000; IA, 1.4	--	44
2016 --	HIV AIDS	6,160 US deaths/death rate 1.9 per 100,000; IA rate 1.0	--	14
2016 --	viral hepatitis	ICD-10 code B15-B19; US death rate 2.0 per 100K; IA rate 1.2	--	38
2017 --	HIV/AIDS	5,698 US deaths/death rate 1.75 per 100K; IA subset	--	18
2018 --	HIV/AIDS	5,425 US deaths/death rate 1.66 per 100K; IA subset	--	19
2019 --	HIV/AIDS	5,054 US deaths/death rate of 1.54 per 100,000 pop.; subset for IA	--	19
2019 --	Jan 28-Feb 2, polar cold/snow/ice	esp. upper Mid-West (30-31 US deaths)	--	4-5
2020 --	HIV	ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; IA subset	--	14
2021 --	HIV/AIDS	4,977 deaths/death rate 1.50 per 100K; IA subset	--	10
2023 --	COVID-19	71,691 US deaths/death rate 3,597 per 1 mil. pop.; IA rate 3,422	--	374

**Breakout by Type of Iowa Large-Loss-of-Life Events (10 or more fatalities):**

- 124 -- **Disease**, especially communicable, especially epidemics. (Plus 123 in "Other.")
- 23 -- **Winter Weather/Storms/Cold/Hypothermia**. (Plus 12 years 5-9 deaths each event.)
- 18 -- **Heat**. (Plus 6 years, 5-8 deaths: 7 in 1897, 1901 & 1947, 8 in 1939, 5 in 1995, 5 in 2001.)
- 12 -- **Tornadoes**.
- 8 -- **Rail**.
- 7 -- **Aviation** (Plus 5 events <10 deaths: 2 with five deaths, 1 with six, 1 with seven, 1 with 8.)
- 7 -- **Explosions**. (Plus we note an explosion in 1945 with eight deaths).

<sup>280</sup> Cross-listed in South Dakota in that all eight of the occupants were SD residents; was official SD gov. flight.

**Iowa (continued):**

- 6 -- **Flooding.**
- 5 -- **Fire, structural.** Plus 3 -- 6 deaths in 1903, and 5 in 1958 and in 2014 in "Other."
- 3 -- **Maritime and Inland watercraft. (Plus 9 deaths in 1929 speedboat collision.)**
- 3 -- **Structural Failure.**
- 2 -- **Violence.** (Plus two – one with 8 deaths and one with 5-6 in "Other.")
- 1 -- **Mining.** (Plus 2 events <10 deaths: 8 in 1893 and 5 in 1953 coal mine explosion.)
- 1 -- **Vehicular/Road/Highway.** (Plus one with 9 deaths in "Other.")
- 0 – **Drownings** (We do note the 1965 drowning deaths of 6 children at Ledges State Park.)



## KS

## Kansas

1. 1801-02--**smallpox** pandemic, Native Amer., Central, Midwest, esp. Upper, Northwest<sup>281</sup>-- ?
2. 1849 -- **cholera** epidemics, Kansas City and Fort Leavenworth -- 35
3. 1851 -- May-July, **cholera** epidemics, Fort Leavenworth and Fort Atkinson -- ~61
4. 1852 -- **cholera**, especially, Atchison and troops headed for Fort Leavenworth -- 48
5. 1854 -- **cholera**, Atchison, Westport, KS -- ≥10
6. 1855 -- May-Oct, **cholera**, especially Fort Leavenworth, and Fort Riley, KS -- 161
7. 1860 -- **croup** (contagious upper airway viral infection), subset, 15,188 US croup deaths-- 81
8. 1860 -- **scarlet fever** (KS subset, of 26,402 deaths in 38 Census States & DC) -- 61
9. 1860 -- **tuberculosis**/"consumption" (49,082 US TB deaths) KS (leading cause of death)-- 117
10. 1863 -- Aug 21, violence-attack, "**massacre**" by Quantrell's Raiders, Lawrence, KS -- 191
11. 1866 -- June-Aug, **cholera**, esp. Fort Harker (31), Fort Hays (24), Fort Dodge (14), KS-- ≥97
12. 1867 -- July-Aug especially, **cholera**, esp. Ellsworth/168, US Forts & Troops/146 -- ≥472
13. 1868 -- Aug ~14-16, **Cheyenne raids** on settlers in and around Asher Creek, KS -- ~12
14. 1870 -- **diarrhoea** (171), **dysentery** (50), **enteritis** (89); data from U.S. Census -- 319
15. 1870 -- **measles** (KS subset of 9,237 measles deaths nationwide) -- 126
16. 1872 -- **smallpox**, especially Silver Lake, near Topeka --15-16
17. 1872-1873 -- Bloody Benders **serial murders**, Labette County, KS -- ~11
18. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 US croup deaths) -- 526
19. 1879 -- June-May 1880, **malarial fever**, KS subset, 20,231 US malarial fever deaths -- 722
20. 1879 -- June-May 1880, **measles** (KS subset/3<sup>rd</sup> highest state, 8,254 US measles deaths)--496
21. 1879 -- June-May 1880, **scarlet fever**, esp. children (KS subset, 16,388 US S.F. deaths)--522
22. 1879 -- June-May 1880, **tuberculosis** (subset of 91,270 TB deaths nationwide), KS --1,112
23. 1879 -- June-May 1880, **typhoid fever** (subset of 23,339 US Typhoid deaths), KS -- 663
24. 1882 -- Jan-Apr esp., **smallpox**, esp. Johnson Co. (26); also Gould Vic., elsewhere, KS-- 53
25. 1887 -- Apr 21, **tornado**, Anderson, Linn Counties (Prescott), KS -- 21
26. 1888 -- Nov 9, coal **mine** explosion, Shaft No. 2 Frontenac, KS -- 40
27. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 207
28. 1892 -- Mar 31, **tornadoes**, Ottawa/Sumner/Sedgwick/Butler & other KS Counties -- 25
29. 1892 -- May 27, **tornado**, Barber, Harper, and Sumner Counties, KS -- 17
30. 1893 -- June 21, **tornado**, Jefferson County, KS -- 11
31. 1895 -- May 01, **tornado**, Halstead, KS -- 10
32. 1895 -- July 4-7 storms, **flooding**, esp. Baxter Springs, Ottawa, Columbus, Paola, KS -- 10
33. 1896 -- **measles**, e.g. Abilene, Emporia, Hutchinson, Kansas City, Leavenworth, Lyons-- 21
34. 1897 -- Sep 08, **trains collide**, Santa Fe Railroad, near Emporia, KS -- 30
35. 1900 -- **tuberculosis**, 2<sup>nd</sup> highest cause of KS deaths, 109,750 US TB deaths --1,414
36. 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths) -- 243
37. 1903 -- Dec 21, **train wreck**, St. Louis & SF train, Near Fort Scott, KS -- 10
38. 1904 -- Jan 06, two Rock Island **trains collide**, near Willard & Topeka, KS -- 20
39. 1904 -- Oct 10, freight and passenger **trains collide**, near Warrensburg, MO<sup>282</sup> -- 21
40. 1905 -- May 08, **tornado**, McPherson and Saline Counties, KS -- 34
41. 1906 -- Oct 25, **fire**, Chamber of Commerce Building, Kansas City, KS -- 15

<sup>281</sup> We do not have a number. We do have sources which state the Kansas, Kiowa, Pawnee, Wichita, and especially the Osage who lived in or moved about Kansas were effected. We estimate more than 9,090 Natives died overall.

<sup>282</sup> Cross-listed in KS in that 21 of 29 fatalities were from Kansas.

**Kansas (continued):**

42.	1907 -- Jan 02, Rock Island RR <b>trains 29#2 &amp; 30 collide</b> , fire, near Volland, KS	--32-35
43.	1909 -- Oct 08, <b>trains collide</b> , Topeka, KS	-- 17
44.	1900 -- <b>heat</b> (excessive natural heat exposure, coded "sunstroke" in some Census docs.)--	11
45.	1910 -- <b>polio</b> , especially children, KS	-- 47
46.	1910 -- <b>smallpox</b> , (KS subset of 403-415 smallpox deaths in 23 reporting States)	-- 12
47.	1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5 <sup>283</sup>	-- 117
48.	1911 -- May-Oct, <b>smallpox</b> , especially Topeka (23), also Osage County (3), KS	-- 26
49.	1914 -- July-Dec, <b>polio</b> , especially children (subset, 720 US polio deaths), KS	-- 13
50.	1915 -- Aug-Nov, <b>polio</b> , especially children (KS subset of 311 US polio deaths in 1915)--	15
51.	1915 -- Oct 16, flash <b>flooding</b> , <b>bridge fails</b> , <b>train derails</b> , Randolph, KS	-- 11
52.	1915 -- Nov 10, <b>tornado</b> , Pawnee and Barton Counties, KS	-- 11
53.	1916 -- Aug-Fall (esp.) <b>polio</b> , ~7,000 US polio deaths, especially children, KS subset	-- 26
54.	1916 -- Dec 13, <b>mine</b> explosion, Fidelity No. 9 Coal Mine, Stone City, KS	-- 20
55.	1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; KS, 29.3	-- 542
56.	1917 -- May 25, <b>tornado</b> , Sedgwick, Harvey, Marion Counties, KS	-- 23
57.	1917 -- June 05, <b>tornadoes</b> , Shawnee/Jackson/Jefferson/Douglas Counties, KS	-- 10
58.	1918 -- <b>typhoid fever</b> (subset of 9,100 US typhoid fever deaths); KS	-- 284
59.	1918 -- Sep-Apr, 1919, <b>influenza and pneumonia</b> epidemic, KS	--9,729
	1918 -- Sep-Dec, <b>influenza and pneumonia</b> epidemic, KS	--6,825
	1919 -- Jan-Apr, <b>influenza and pneumonia</b> epidemic, KS	--2,904
60.	1919 -- May 21, <b>tornado</b> , Ellis and Rooks Counties, KS	-- 10
61.	1919 -- Nov 17, <b>explosion, oil tank</b> , Standard Oil Co., Hays, KS	-- 10
62.	1920 -- Jan-Dec, <b>influenza and pneumonia</b> , KS	--3,201
63.	1920 -- <b>measles</b> (subset of 7,712 measles deaths in 34 registration states); KS	-- 80
64.	1920 -- <b>scarlet fever</b> (subset of 4,004 deaths in 34 registration states); KS	-- 112
65.	1923 -- Feb 23, <b>fire</b> , Garage and Apartments, Hatley Building, Kansas City, KS	-- 13
66.	1925 -- <b>excessive heat</b> (State subset of 1,587 US excessive heat deaths; US Census Bur.--	17
67.	1925 -- <b>influenza</b> (KS subset, 30,538 US influenza deaths)	-- 664
68.	1927 -- May 07, <b>tornado</b> , Comanche/Barber/Kingman/Reno/McPherson Ct's, KS	-- 10
69.	1931 -- June 26-July, <b>excessive natural heat</b> , KS	-- 76
70.	1934 -- summer, <b>excessive heat</b> deaths; subset of 3,250 US heat deaths; KS	-- 276
71.	1935 -- May 30-June 1, downbursts and <b>flooding</b> , esp. Republican/Kansas Rivers	-- 12
72.	1936 -- July-Aug (especially), <b>heatwave</b> (4,678-5,000 US heat deaths), KS subset	-- 117
73.	1938 -- Mar 30, <b>tornado</b> , F4, Craig Co., OK; Labette/Cherokee Counties, KS	-- 10
74.	1939 -- summer, <b>excessive heat</b> (subset of 527-1,073 heat deaths nationwide)	-- 22
75.	1940 -- <b>polio</b> (KS subset of 1,026 polio deaths nationwide)	-- 51
76.	1942 -- Apr 29, <b>tornado</b> , Allen, Bourbon, Linn Counties, KS	-- 15
77.	1943 -- Jan 06, <b>plane crash</b> , US Army Air Force (USAAF) B-24, White City, KS	-- 11
78.	1943 -- July 03, <b>plane crash</b> , USAAF B-17F, White City, KS	-- 10
79.	1943 -- Aug 14, <b>plane crash</b> , USAAF B-24E, near Ellsworth, KS	-- 11
80.	1943 -- Sep 22, <b>plane crash</b> , USAAF B-24D, near Waldo, KS	-- 11
81.	1943 -- Oct 24, <b>plane crash</b> , USAAF, Smokey Hill Army Air Field, Salina, KS	-- 10

<sup>283</sup> Data is from Census which includes just three KS cities. Kansas City had death rate of 95.5 with 79 deaths; Leavenworth had rate of 74.9 with 15 deaths; and Wichita had death rate of 43.1 with 23 deaths.

**Kansas (continued):**

82.	1943 -- Nov 25,	<b>USAAF B-24E planes collide</b> ,	near Army Air Field, Liberal, KS	--	11
83.	1944 -- Sep 17,	<b>Liberal AA Field USAAF B-29 plane crash</b> ,	near Copeland, KS <sup>284</sup>	--	12
84.	1944 -- Oct 24,	<b>USAAF B-17F plane crash</b> ,	near Russell, KS	--	12
85.	1944 -- Dec 30,	<b>USAAF B-29 plane fire and crash</b> ,	near Walker AAF, KS	--	10
86.	1945 -- July 17,	<b>USAAF B17</b> night AP approach crash, heavy rain ~Smoky Hill AAB, Salina	KS--	10	
87.	1945 -- Sep 15,	<b>USAAF C-47 plane crash</b> ,	Kansas City-Fairfax Field, KS <sup>285</sup>	--	23
88.	1946 --	<b>polio</b> , especially July-Nov (subset of 1,845 US polio deaths),	KS	--	91
89.	1946 -- July 18,	<b>USAAF C-47 transport crash in severe thunderstorm</b> ~Goodland,	KS--	13	
90.	1949 --	<b>polio</b> , especially July-Nov (subset of ~2,725 US polio deaths),	KS	--	62
91.	1951 --	<b>measles</b> , 688 US deaths; subset for	KS	--	16
92.	1951 --	<b>polio</b> , especially July-Nov (subset of 1,551-1,555 US polio deaths),	KS	--	53
93.	1951 -- July 11-18,	Kansas <b>flooding</b> , especially Manhattan, Topeka, Lawrence,	KS	--	19
94.	1952 --	<b>polio</b> , subset of ~3,300 US polio deaths,	KS	--	71
95.	1953 --	<b>measles</b> , 483 US deaths, 23 states in double digits; KS subset		--	10
96.	1954 --	<b>encephalitis</b> , acute infectious (viral); 407 US deaths, esp. NY/52 PA/31;	KS	--	15
97.	1954 --	<b>heat</b> (especially July), state subset of 978-984 heat-related deaths		--	139
98.	1954 --	<b>polio</b> , acute; 1,400 US deaths; KS subset		--	31
99.	1955 -- May 25,	<b>tornadoes</b> , Kay, Sumner counties, esp. Udall/75 Cowley County		--	82
100.	1956 --	<b>polio</b> /acute, 566 US deaths/15 states in double-digits; IN subset		--	14
101.	1957 -- fall-spring 1958,	H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)		--	350
102.	1958 -- June 10,	<b>tornado</b> , F4, El Dorado, Butler County,	KS	--	13-15
103.	1959 --	<b>polio</b> (acute, as opposed to late effects of); 454 US deaths; KS subset		--	10
104.	1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; KS death rate 6.9		--	151
105.	1961 --	<b>influenza</b> ; 2,137 US deaths/death rate 1.2 per 100K; KS death rate 2.7		--	38
106.	1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; KS death rate 2.8		--	62
107.	1963 --	<b>influenza</b> ; 7,083 US deaths/death rate 3.8; KS death rate 4.5		--	101
108.	1964 --	<b>influenza</b> ; 1,687 US deaths/date rate 0.9 per 100K; KS death rate 1.4		--	32
109.	1965 --	<b>influenza</b> ; 2,295 US deaths/death rate 1.2 per 100K; KS death rate 4.0		--	89
110.	1965 -- Jan 16,	<b>USAF tanker crash</b> after takeoff into homes, fire, Wichita, KS <sup>286</sup>		--	29-30
111.	1966 -- June 08,	<b>tornadoes</b> , Topeka vicinity (16), and Leavenworth County (1),	KS	--	17
112.	1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths;	KS--	16	
113.	1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; KS 8.3--	188		
114.	1969 --	<b>influenza</b> , codes 470-474; 5971 US deaths/death rate 2.96 per 100K; KS 6.6 (US high)--	148		
115.	1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; KS 3.0--	68		
116.	1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; KS 1.7--	37		
117.	1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; KS 4.4--	100		
118.	1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; KS 4.29	--	97	
119.	1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; KS/3.5 <sup>287</sup>	--	79	
120.	1974, Jan 15-Jan 19, 1991--	D. Rader <b>serial murders</b> , Wichita area, Sedgwick Co.,	KS--	10	
121.	1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; KS, 6.3 <sup>288</sup> --	144		

<sup>284</sup> Crash into farmhouse killing grandfather and one-year-old grandson, in addition to ten U.S. service crewmen.

<sup>285</sup> See Missouri. Plane took off from Kansas Field on KS side of MO river, made it across the river; crashed.

<sup>286</sup> Difference in numbers has to do with inclusion or not of death of unborn child.

<sup>287</sup> Highest State death rate in the US for influenza in 1974.

**Kansas (continued):**

122.	1976 --	<b>influenza</b> ;	ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; KS/8.6--	198
123.	1977 --	<b>influenza</b> ;	1,305 US flu deaths/death rate 0.59 per 100K; KS death rate 1.25--	29
124.	1978 --	exposure to excessive natural <b>cold/hypothermia</b> ;	652 US deaths; KS	-- 10
125.	1978 --	<b>influenza</b> ;	4,052 US flu deaths/death rate 1.82 per 100K; KS, 4.67	-- 109
126.	1978 --	June 17, <b>tornado</b> , showboat <b>Whippoowill</b> capsized, Pomona Lake, KS		-- 16
127.	1979 --	exposure to excessive natural <b>cold/hypothermia</b> ;	356 US deaths; KS	-- 15
128.	1979 --	<b>influenza</b> ;	604 US flu deaths/death rate 0.27 per 100K; KS death rate 0.98	-- 23
129.	1980 --	<b>influenza</b> ;	2,702 US flu deaths/death rate 1.19 per 100K, KS, 2.87	-- 68
130.	1980 --	June-Aug (esp.), <b>heat</b> ; esp. counties of Wyandotte/37, Shawnee/18, Sedgwick--		134
131.	1981 --	<b>influenza</b> ;	3,006 US flu deaths/death rate 1.31 per 100K, KS, 2.01	-- 48
132.	1982 --	<b>influenza</b> ;	727 US flu deaths/death rate 0.31 per 100K, KS, 0.71	-- 17
133.	1983 --	<b>influenza</b> ;	1,431 US flu deaths, death rate 0.61 per 100K, KS, 0.66	-- 16
134.	1983 --	Dec 14-29, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads; KS--		11
135.	1984 --	<b>influenza</b> ;	1,096 US flu deaths, death rate 0.46 per 100K, KS, 1.24	-- 30
136.	1985 --	exposure to excessive natural <b>cold/hypothermia</b> ;	519 US deaths; KS	-- 10
137.	1985 --	<b>influenza</b> ;	2,054 US flu deaths, death rate 0.86 per 100K, KS, 2.43	-- 59
138.	1986 --	<b>influenza</b> ;	1,838 US flu deaths; death rate 0.76 per 100K: KS, 1.97	-- 48
139.	1987 --	<b>influenza</b> ;	632 US flu deaths, death rate 0.26 per 100K; KS, 0.53	-- 13
140.	1988 --	exposure to excessive natural <b>cold/hypothermia</b> ;	431 US deaths; KS	-- 13
141.	1988 --	summer especially, <b>excessive natural heat</b> , KS		-- 10
142.	1989 --	<b>influenza</b> ;	1,593 US flu deaths, death rate 0.64 per 100K; KS, 1.13	-- 28
143.	1990 --	<b>influenza</b> ;	2,098 US flu deaths; death rate 0.84 per 100K; KS, 2.26	-- 56
144.	1991 --	<b>influenza</b> ;	1,137 US flu deaths, death rate of 0.45 per 100K; KS, 1.20	-- 30
145.	1991 --	Apr 26, <b>tornadoes</b> , deaths in Butler/13, Elk/1, Sedgwick/4, counties, KS		-- 18
146.	1992 --	<b>influenza</b> ;	1,006 US flu deaths, death rate 0.39 per 100K, KS at 0.55	-- 14
147.	1993 --	<b>influenza</b> ;	1,044 US flu deaths, death rate of 0.40 per 100K, KS, 0.70	-- 18
148.	1994 --	<b>influenza</b> ;	1,229 US flu deaths; death rate 0.47 per 100K; KS, 1.12	-- 29
149.	1997 --	<b>influenza</b> ;	720 US flu deaths; US death rate 0.26 per 100K; KS, 0.986	-- 26
150.	1988 --	<b>influenza</b> ;	1,943 US flu deaths, death rate 0.79 per 100K; KS rate 1.87	-- 46
151.	1993 --	exposure to excessive natural <b>cold/hypothermia</b> ;	641 US deaths; KS	-- 11
152.	2000 --	<b>influenza</b> ;	ICD-10 codes J09-11.8; US death rate 0.627 per 100K; KS, 1.525	-- 41
153.	2003 --	<b>influenza</b> ;	ICD-10 codes J09-11; US death rate 0.618 per 100K; KS, 1.506	-- 41
154.	2004 --	<b>influenza</b> ;	ICD-10 codes J09-11; US death rate 0.376 per 100K; KS, 0.512	-- 14
155.	2005 --	<b>influenza</b> ;	ICD-10 codes J09-11; US death rate 0.613 per 100K; KS, 1.238	-- 34
156.	2006 --	<b>influenza</b> ;	ICD-10 codes J09-11; US death rate 0.285 per 100K; KS 0.688	-- 19
157.	2006 --	<b>heat</b> , esp. July 12-Aug 9, especially Wichita, also Montgomery, Allen Counties--		20
158.	2007 --	exposure to <b>excessive natural heat</b> ;	582 US deaths, subset for KS	-- 12
159.	2007 --	May 04, <b>tornadoes</b> , Greensburg/11, Hopewell/1, Macksville/1, KS		-- 13
160.	2008 --	<b>influenza</b> ;	ICD-10 codes J09-11; US death rate 0.57 per 100K; KS rate 1.67--	47
161.	2009 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; KS 1.1--		30
162.	2009 --	exposure to <b>excessive natural heat</b> ;	555 US deaths, subset for KS	-- 11
163.	2009 --	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); KS, 0.6		-- 16
164.	2009 --	especially spring through winter, <b>H1N1 "Swine Flu"</b>		-- 29

<sup>288</sup> Highest State death rate in the US for influenza in 1975.



165.	2010 --	<b>influenza</b> , ICD-10 codes J09-J11; <sup>289</sup> US death rate 0.2 per 100K; KS, 0.4	--	10
166.	2011 --	exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for KS	--	37
167.	2012 --	exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for KS	--	12
168.	2012 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.4 per 100K; KS rate 0.6	--	18
169.	2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, KS, 1.2--		34
170.	2013 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.2 per 100,000; KS 2.2	--	63
171.	2014 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.4 per 100,000; KS, 2.1	--	61
172.	2015 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.6 per 100,000; KS, 3.3	--	95
173.	2016 --	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths subset, KS--		11
174.	2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; KS death rate 3.98--		116
175.	2018 --	exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; KS	--	10
176.	2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., KS rate 6.22	--	181
177.	2019 --	<b>influenza</b> ; 5,902 US deaths/1.08 death rate per 100K; KS death rate 2.64	--	77
178.	2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; KS death rate 3.67	--	107
179.	2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths; 1,070 per 1M; KS 941 per 1M pop.	--	2,471
180.	2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; KS, 2.3 per 1M	--	4,530
181.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; KS death rate 9.32	--	2,715
182.	2022 --	exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for KS	--	16
183.	2023 --	exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for KS	--	20

#### Some Select/Notable **Kansas** Other Large Loss-of-Life Events:<sup>290</sup>

1856 --	May 24/25,	<b>John Brown</b> men kill pro-slavery men ~Pottawatomie Creek, Franklin County--		5
1856 --	Aug 30,	Pro-slavery force <b>attacks</b> Osawatomie (John Brown), Miami Co., KS	--	5-8
1858 --	May 19,	Marias des Cygnes <b>massacre</b> , pro-slavery force raid, Trading Post, KS	--	5
1860 --		<b>whooping cough</b> (KS subset of 8,408 whooping cough deaths nationwide)	--	39
1870 --		<b>croup</b> (KS subset of 10,692 deaths nationwide)	--	164
1870 --		<b>scarlet fever</b> , especially children (subset of 20,339 US deaths); KS	--	354
1870 --		<b>tuberculosis</b> (consumption) (KS subset of ~70,000 TB deaths nationwide)	--	413
1870 --		<b>typhoid fever</b> (KS subset of 22,187 typhoid fever deaths nationwide)	--	204
1870 --		<b>typhus</b> (KS subset of 1,770 typhus deaths nationwide)	--	20
1870 --		<b>whooping cough</b> (KS subset of 9,008 whooping cough deaths nationwide)	--	124
1879 --	June-May 1880,	<b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	690
1879 --	June-May 1880,	<b>meningitis</b> (State subset of 7,481 meningitis deaths nationwide)	--	65
1879 --	June-May 1880,	<b>whooping cough</b> (State subset, 11,064 U.S. W.C. deaths)	--	218
1881 --		<b>diphtheria</b> , Lawrence	--	9
1884 --	July 30,	<b>lightning</b> , 4 girls in bed killed, father commits suicide, Marysville KS	--	5
1889-90,	June-May,	<b>croup</b> , (subset of 13,862 U.S. croup deaths)	--	259
1889-90,	June-May,	<b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; KS	--	385
1889-90,	June-May,	<b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--	366
1897 --	July 09,	<b>heat</b> (608-616 US heat deaths), Atchison, Kansas City, Leavenworth	--	5
1898 --		<b>typhoid fever</b> , Twenty-first and 22 <sup>nd</sup> KS Volunteers (subset >4,627 such deaths US)--		≥33
1900 --		<b>croup</b> (upper airway contagious viral infection), KS subset, 12,484 US croup deaths--		234

<sup>289</sup> 500 US Flu deaths. ICD-10 code for 2010 influenza/pneumonia (J09-J18) has 50,097 deaths (death rate of 16.2).

<sup>290</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.



Some Select/Notable Other **Kansas** Large Loss-of-Life Events (continued):

1900 --	<b>diphtheria</b> (KS subset of 16,475 US diphtheria deaths in 1900)	-- 243
1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 218
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths)	-- 175
1900 --	<b>malarial fever</b> (14,874 US malarial fever deaths)	-- 261
1900 --	<b>measles</b> (subset of 12,866 US measles deaths)	-- 220
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths)	-- 277
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	-- 68
1900 --	<b>smallpox</b> (subset, 8,484 US smallpox deaths)	-- 73
1900 --	<b>typhoid fever</b> (subset of 35,379 US typhoid fever deaths); KS	-- 688
1907 --	<b>typhoid Fever</b> , Leavenworth (7) and Wichita (16); ~13K census area deaths	-- 23
1911 --	Mar 18, coal <b>mine</b> explosion, Mineral, KS	-- 5
1912 --	Dec 30-Jan 12, <b>cold-waves, snow and blizzards</b> (subset of 228 US deaths)	-- 9
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; KS rate 4.3	-- 76
1915 --	<b>polio</b> ; 691 registration area deaths (67.1% population); subset for KS	-- 20
1916 --	<b>diphtheria</b> , especially children (KS subset of 8,000-17,000 US diphtheria deaths)	-- 195
1916 --	Dec 22, <b>fire</b> , Kansas Masonic Charity Home, Wichita, KS <sup>291</sup>	-- 5
1917 --	<b>polio</b> , esp. June-Sep, especially children (KS subset, $\geq 1,182$ U.S. polio deaths)	-- 18
1919 --	<b>diphtheria</b> (KS subset of 9,160 US diphtheria deaths)	-- 191
1920 --	<b>diphtheria and croup</b> (KS subset of 13,395 such deaths, 34 registration states)	-- 246
1920 --	<b>typhoid fever</b> (KS subset of 6,805 typhoid fever deaths in 34 registration states)	-- 141
1920 --	<b>whooping cough</b> (KS subset, 10,968 whooping cough deaths, 34 reg. states) <sup>292</sup>	-- 213
1925 --	<b>excessive natural cold</b> , subset of 239 US excessive cold deaths, KS	-- 7
1925 --	<b>diphtheria</b> (KS subset, 8,058 US diphtheria deaths)	-- 64
1925 --	<b>dysentery</b> (KS subset, 3,257 US dysentery deaths)	-- 55
1925 --	<b>meningococcus meningitis</b> (subset, 1,095 US meningitis deaths); KS	-- 14
1925 --	<b>polio</b> (KS subset, 1,518 US polio deaths)	-- 35
1925 --	<b>scarlet fever</b> (KS subset of 2,762 US scarlet fever deaths, 48 states)	-- 42
1925 --	<b>tuberculosis</b> (KS subset, 89,268 US tuberculosis deaths)	-- 813
1925 --	<b>typhoid/paratyphoid fever</b> (KS subset of 8,287 US Typhoid Fever deaths)	-- 102
1925 --	<b>whooping cough</b> (KS subset, 6,948 US whooping cough deaths)	-- 81
1927 --	<b>polio</b> (acute) esp. late summer and fall; subset, 2,013 US polio deaths; KS	-- 44
1931 --	<b>epidemic cerebrospinal meningitis</b> , subset of 2,832 US meningitis deaths; KS	-- 25
1931 --	<b>diphtheria</b> , especially children; subset, 5,738 U.S. diphtheria deaths; KS	-- 71
1931 --	<b>influenza</b> (KS subset of 31,701 influenza deaths nationwide)	-- 525
1931 --	<b>measles</b> , especially children (KS subset, 3,576 measles deaths nationwide)	-- 10
1931 --	<b>polio</b> , esp. July-Oct, (KS subset of 2,139-2,144 U.S. polio deaths, esp. children)	-- 13
1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	-- 696
1931 --	<b>whooping Cough</b> , 4,619 US deaths/death rate 3.9 per 100K; KS death rate 1.3	-- 24
1935 --	Mar 15-19, <b>dust storms</b> , KS subset of 15 deaths	-- 8
1936 --	Feb 18, Broyles home <b>fire</b> , overheated stove, South Hutchinson, KS	-- 7
1939 --	<b>influenza and pneumonia</b> (KS subset, 99,097 U.S. influenza/pneumonia deaths)	--1,142
1939 --	<b>tuberculosis</b> (KS subset of 61,609 tuberculosis deaths nationwide)	-- 373

<sup>291</sup> Also an orphanage, but no child deaths. Home section burned was for elderly Masonic Lodge members.

<sup>292</sup> Kansas City, KS reported 3<sup>rd</sup> highest registration states/cities death rate, at 23.5 per 100,000; average was 12.5.

**Kansas (continued):**

1940 --	<b>influenza and pneumonia</b> (KS subset of 92,525 U.S. flu and pneumonia deaths)	--1,006
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); KS death rate 11.8	-- 213
1940 --	<b>tuberculosis</b> (KS subset of 55,576 tuberculosis deaths nationwide)	-- 414
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, KS, 1.8	-- 31
1941 --	<b>measles</b> , especially children (subset of 2,279 measles deaths nationwide), KS	-- 34
1944 --	<b>cerebrospinal meningitis</b> , (2,812 U.S. cerebrospinal meningitis deaths), KS	-- 30
1944 --	<b>influenza</b> (subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec, KS	-- 303
1944 --	<b>measles</b> , especially Jan-June (KS subset of 1,923 measles deaths nationwide)	-- 30
1944 --	<b>tuberculosis</b> (subset of 54,731 tuberculosis deaths nationwide); KS	-- 357
1944 --	<b>whooping cough</b> (1,878 US whooping cough deaths); subset for KS	-- 19
1945 --	Jan 26, <b>USAAF B-29</b> , 3 engines out of fuel, crash 1M S of Ogden, near Ft. Riley KA	-- 6
1945 --	May 05, <b>USAAF B-29 bomber crash</b> 7 miles northeast of Gorham, KS	-- 9
1948 --	<b>polio</b> , July-Nov especially; 1,895 US deaths; subset for KS	-- 26
1948 --	Aug 12, <b>USAF B-29 crash</b> shortly after takeoff near Topeka, KS	-- 5
1948 --	Dec 09, Kansas Power and Light Co., steam generating station <b>explosions</b> , Tecumseh KS	-- 9
1949 --	May 20, private <b>Cessna T-50 crash</b> , lost control in bad weather, near Burr Oak, KS	-- 5
1950 --	<b>polio</b> , especially July-Nov (subset of 1,904 US polio deaths); KS	-- 34
1950 --	Mar 26, wind and dust storm leads to deadly <b>highway deaths</b>	-- 4
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for KS	-- 183
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for KS	-- 110
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for KS	-- 153
1952 --	Jan 28, tire blowout, <b>car</b> hits bridge, goes into slough, US 54 near Kingman, KS	-- 7
1952 --	Nov 25-26, <b>winter storm</b> (subset of approximately 38 deaths nationwide), KS	-- 2-5
1953 --	<b>excessive natural heat</b> , (code E931), 576 US heat deaths, esp. Aug 22-Sep 5; KS	-- 9
1953 --	<b>influenza</b> ; 9,500 US deaths; KS subset	-- 235
1953 --	<b>polio</b> (subset of 1,450 polio deaths nationwide); KS	-- 18
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; KS subset	-- 100
1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; KS subset	-- 61
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; KS subset	-- 104
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; KS subset	-- 96
1956 --	<b>influenza</b> , 2,323 US deaths; KS subset	-- 55
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; KS subset	-- 53
1957 --	<b>influenza</b> ; 7,463 US deaths; KA subset	-- 136
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; KS subset	-- 72
1958 --	<b>influenza</b> ; 4,442 US deaths; KS subset	-- 93
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; KS subset	-- 62
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; KS subset	-- 61
1959 --	Aug 18, service station <b>fire/gasoline storage tank explosion</b> , Kansas City, KS	-- 6
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; KS death rate 2.6	-- 57
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; KS death rate 2.6	-- 57
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; KS death rate 2.4	-- 53
1963 --	<b>excessive heat</b> ; 196 US deaths; KS	-- 7
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; KS death rate 1.8	-- 41
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; KS death rate 1.8	-- 41

**Kansas (continued):**

1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; KS death rate 1.9	--	42
1966 --	<b>excessive natural heat</b> , subset of 613 US heat deaths, KS	--	9
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for KS	--	32
1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; KS subset lower than US average	--	35
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; KS death rate 1.55	--	35
1968 --	Dec 29-Feb 1, A2 "Hong Kong" <b>influenza-pneumonia</b> epidemic, KC, Wichita--	118	
1969 --	<b>excessive natural cold</b> ; ICD-8 code E901; 424 US deaths; KS	--	9
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; KS death rate 1.24	--	28
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; KS 1.55--	35	
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; KS death rate 1.25	--	28
1971 --	Jan 03-4, <b>snowstorm/blizzards</b> , Rockies to Great Lakes; 65-77 US deaths; KS	--	8
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; KS death rate 1.33	--	30
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; KS, 1.46 per 100K	--	33
1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; KS death rate 1.15	--	26
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; KS death rate 0.83	--	19
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; KS death rate 0.78	--	18
1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; KS death rate 0.65	--	15
1978 --	<b>excessive natural heat</b> (esp. summer), ICD-8 E900/US death rate 0.12; KS, 0.26	--	6
1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; KS death rate 0.90	--	21
1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; KS death rate 0.60	--	14
1980 --	Sep 20, ex-wife & family <b>killed</b> by ex-husband's booby-trap bomb, Olathe, KS	--	6
1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; KS death rate 0.54	--	13
1982 --	summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 196	--	6
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; KS death rate 0.41	--	10
1984 --	<b>tornado and severe weather</b> , Carbondale area (2 by tornado; 3 plane crash)	--	5
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; KS death rate 1.92	--	47
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K pop.; KS death rate 2.23	--	55
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K pop.; KS death rate 3.07	--	76
1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; KS death rate 0.44	--	11
1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; KS death rate 0.43	--	11
1993 --	<b>tuberculosis</b> , 1,631 US TB deaths, death rate 0.63 per 100K; KS death rate 0.43	--	11
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; KS death rate 0.41	--	11
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; KS rate 0.485	--	13
1999 --	May 03, <b>tornadoes</b> , especially Haysville and Wichita, KS	--	6
2003 --	May 04, <b>tornadoes</b> , Crawford, Cherokee and Wyandotte counties	--	8
2007 --	Dec 09-10 <b>winter and ice storm</b> , KS (plus 29-30 deaths in Oklahoma)	--	6
2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K, KS, 0.5	--	13
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; KS, 2.2	--	64
2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K, KS 0.8	--	22
2011 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; KS, 0.5	--	14
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; KS rate 1.8	--	52
2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, KS, 0.7	--	21
2012 --	exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; KS subset	--	6
2012 --	exposure to <b>excessive natural heat</b> , KS	--	5

2012 --	viral hepatitis, ICD-10 code B-15-B19, US death rate 2.6 per 100,000; KS, 2.4	--	69
2013 --	viral hepatitis, ICD-10 code B15-B19; US death rate 2.6 per 100,000; KS, 2.1	--	60
2014 --	diarrhoea/gastroenteritis, infectious origin, US death rate 0.8 per 100K, KS, 0.6	--	17
2014 --	viral hepatitis, ICD-10 code B15-B19, US death rate 2.5 per 100,000; KS, 2.5	--	73
2015 --	diarrhoea/gastroenteritis, infectious origin, US death rate 0.8 per 100K, KS 0.7	--	21
2015 --	viral hepatitis, ICD-10 code B15-B19; US death rate 2.3 per 100,000; KS, 2.1	--	60
2016 --	diarrhoea/gastroenteritis, infectious origin, US & KS death rate 0.7 per 100K	--	21
2016 --	HIV AIDS, 6,160 US deaths/death rate 1.9 per 100,000; KS rate 0.6	--	16
2016 --	influenza, ICD-10 codes J09-11.8; US had death rate of 0.9 per 100,000; KS, 0.8	--	24
2016 --	viral hepatitis, ICD-10 code B15-B19; US death rate 2.0 per 100K; KS, 1.5	--	45
2017 --	HIV/AIDS; 5,698 US deaths/death rate 1.75 per 100K; KS death rate 0.82	--	24
2018 --	HIV/AIDS; 5,425 US deaths/death rate 1.66 per 100K; KS death rate 0.76	--	22
2019 --	exposure to excessive natural heat deaths, 905-911 US deaths, subset for KS	--	6
2019 --	HIV/AIDS; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; KS rate 0.82	--	24
2020 --	HIV; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; KS 0.76	--	22
2021 --	exposure to excessive natural cold; 1,179 US deaths/death rate 0.36; KS subset	--	17
2021 --	HIV/AIDS; 4,977 deaths/death rate 1.50 per 100K; subset for KS	--	19
2023 --	COVID-19, 71,691 US deaths/death rate 3,597 per 1 mil. pop.; KS rate 3,511	--	513

#### Breakout by Type of Kansas Large Loss-of-Life Events (10 or more fatalities):

- 106 -- Disease, especially communicable, especially epidemics. (Plus 133 in "Other.")
- 19 -- Tornadoes. (3 >10 deaths: 5 in 1984, 6 in 1999 and 8 in 2003.)
- 16 -- Heat. (Plus 8 years 5-9 deaths.)
- 12 -- Aviation. (Plus 4 noted with 5-9 fatalities each.)
- 9 -- Winter Weather/Cold/Hypothermia. (Plus eight other notable years.)
- 7 -- Rail.
- 4 -- Flooding.
- 4 -- Violence. (Plus 4 <10 deaths – 5-8 deaths in 1856, 5 in 1856, 5 in 1888, 6 in 1980.)
- 2 -- Fires-Structural. (3 <10 deaths: 5 in 1916, 7 in 1936, 6 gasoline tank explos. in 1959)
- 2 -- Mining. (Plus 1 event <10 deaths: 5 deaths in 1911 coal mine explosion.)
- 1 -- Explosions. (Plus 2 events noted with 6 and 9 deaths each.)
- 1 -- Structural Failure.
- 0 -- Dust Storms. (But 8 deaths during March 15-19, 1935 dust storms.)
- 0 -- Lightning. (Though there were five family deaths July 30, 1884.)
- 0 -- Vehicular/Road/Highway. (Note 2 with <10 deaths: One with 7 deaths and one with 4.)



## KY

## Kentucky

1. 1811 -- Dec 16-Feb 7, 1812, **New Madrid Earthquakes**, western KY --  $\geq$ 10
2. 1820 -- Mar 20, steamboat **Buffalo** explosion, Owensboro, KY -- 17
3. 1822 -- summer, "**bilious [or "intermittent"] fever**" epidemic, Louisville, KY -- $\geq$ 140-232
4. 1832 -- June 02, steamboat **Hornet** capsizes in storm, OH River, above Maysville, KY-- 20
5. 1832 -- Oct-Nov, **cholera**, esp. Louisville, also Frankfort, Maysville, Augusta, KY --  $\sim$ 117
6. 1833 -- May 30-Aug 1 (esp.), **cholera**, especially Lexington (502)<sup>293</sup>  $\geq$ 1,994-2,011
7. 1834 -- Aug especially, **cholera**, especially Princeton (22), KY -- 24
8. 1835 -- June 14-Aug 28, **cholera**, esp. Russellville/120, Versailles/64, Maysville/17 -- 248
9. 1835 -- Dec 02, **Lady Franklin** sinks, hit by **Portsmouth**, Ohio Riv.  $\sim$ Owensboro KY --15-18
10. 1838 -- Nov 19, **drownings** [?], Lock and Dam No. 3, Green River, Rochester, KY -- 15
11. 1844 -- Jun 19, steamer **Palestine** fire/drownings (12), above Cairo, IL, OH Riv., KY side-12
12. 1846 -- Feb 13/14, steamers **Congress** and **Saladin** collide, MS Riv. KY Bend, KY --15-30
13. 1847 -- Dec 29, steamer **A. N. Johnston** boiler explosion, Ohio Riv.,  $\sim$ Maysville KY --60-80
14. 1848 -- Dec, **cholera**, Paducah, KY -- 20
15. 1849 -- May-Aug, **cholera**, esp. Lexington, Louisville, Maysville Columbia, Paris --1,870
16. 1849 -- June 09, steamboat **Embassy** flue collapse, Ohio River, Three Mile Bar, KY --14-25
17. 1850 -- **cholera**, spring and mid-July-early Aug, esp. Louisville, also Frankfort, KY -- 225
18. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 15,033 KY deaths-- 613
19. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571 -- 895
20. 1850 -- **measles**; subset 2,988 US measles deaths (average was 83 per State/Ter.), KY-- 122
21. 1850 -- **smallpox**; subset 2,353 smallpox deaths 31 states/4 territories/DC; avg. 65 -- 150
22. 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) --1,288
23. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 198
24. 1850 -- Apr 22, **Belle of the West**, fire / boiler explos.?, OH River,  $\sim$ Warsaw, KY --34-36
25. 1850 -- May 07, steamboat **Columbus** flue collapse, MS Riv., Island 4  $\sim$ Columbus KY-- 15
26. 1850 -- Oct 05, **Kate Fleming** boiler explosion/fire, Ohio River, Walker's Bar, KY --11-12
27. 1851 -- **cholera**, esp. Grassy Creek, Louisville, Bell's Coal Mine, western KY --  $\geq$ 152
28. 1851 -- May 02, steamer **Webster** burns, MS river, Island no. 86, Kentucky Bend KY-30--40
29. 1851 -- Nov 29, steamers **Molly Grath** & **Pontiac No. 2** collide, OH Riv.  $\sim$ Owensboro, KY--20
30. 1852 -- Apr 03, steamer **Redstone** boiler explosion, Ohio River 3M~ Carrolton, KY --26-40
31. 1852 -- Apr 26, steamers collide, **Chickasaw** sinks, OH River, French Islands, KY -- 20
32. 1852 -- July-Oct esp. **cholera**, especially Princeton (50), and Maysville (26) --  $\geq$ 123
33. 1854 -- Jan, **tornado**, Louisville Vicinity, KY -- 15
34. 1854 -- June 30-Oct 28, **cholera**, esp. Shepherdsville/40, Bowling Green/12, Shelbyville-- 70
35. 1854 -- Aug 27, **tornado**, Louisville, KY -- 25
36. 1854 -- Sep 12, steamer **Malon** sinks, Ohio River, near Paducah, KY -- 36
37. 1855 -- June 30, steamer **Lexington** boiler explosion/fire, Ohio Riv.,  $\sim$ Stephensport, KY-- 30
38. 1855 -- July-Aug esp., **cholera**, especially Lexington Asylum/40, Fleming County/40-- 127
39. 1855 -- Aug 6, vote day Know-Nothing anti-German/Irish/Catholic **riot**, Louisville, KY-- 22
40. 1858 -- Jan 28, **Fanny Fern** boiler explosion/fire, Ohio Riv.  $\sim$ Garrison Creek, KY<sup>294</sup> --17-20

<sup>293</sup> Started in Maysville May 30 (67 deaths). Lawrenceburg and Anderson Co., 89; Lancaster and Garrard Co., 122, Springfield, 80; Millersburg, 78; Paris, 73-80; Flemingsburg, 66; Mason Co., 60; Frankfort and Franklin Co., 100.

<sup>294</sup> Some sources note Lawrenceburg as location. A review of USACE navigation charts and Google maps, using information in descriptions of the explosion, however, leads us to believe it took place within KY side of the river.



**Kentucky (continued):**

41. 1859 -- Mar 28, steamers **Nathaniel Holmes & David Gibson** collide, OH Riv., Petersburg, KY--35-50
42. 1860 -- **croup** (contagious upper airway viral infection), subset, 15,188 US croup deaths -- 787
43. 1860 -- **measles** (KY subset of 3,900 measles deaths 38 Census states) -- 153
44. 1860 -- **scarlet fever**; subset of 26,402 deaths in 38 Census States & DC<sup>295</sup> --1,505
45. 1860 -- **tuberculosis**, KY subset (leading cause of KY deaths), 49,082 US TB deaths --1,742
46. 1860 -- **typhoid fever** (KY subset, 19,236 deaths in 38 “registration” States and DC) -- 896
47. 1862 -- Feb 27, steamboat **Prince** snags and sinks, Mississippi River, near Hickman, KY-- 74
48. 1863 -- Aug 04, steamboat **Ruth** burns (arson), Mississippi River, near Columbus, KY-- 30
49. 1864 -- Oct 17, **J.C. Irwin** boilers explode, Cumberland River, 10m above Eddyville, KY-11-13
50. 1865 -- Jan 25, Guerrillas **kill** black Union soldiers herding cattle ~Simpsonville, KY<sup>296</sup>19-28
51. 1865 -- Apr 27, steamer **Sultana** boiler explosion/fire, Miss. Riv. Redman Pt. AR<sup>297</sup> -- 194
52. 1866 -- July-Dec, **cholera**, esp. Louisville (152), Covington (70), KY --  $\geq$ 227
53. 1866 -- Aug 6, steamer **General Lytle** boiler explos. ~Bethlehem IN, OH Riv., KY side--20-24
54. 1868 -- Mar 18, steamer **Magnolia** boiler explosion/fire, Ohio River, ~California, Ky -- 35
55. 1868 -- Dec 04, steamers **United States & America** collide, OH riv. ~Warsaw, KY<sup>298</sup> --72-74
56. 1870 -- **croup**, upper airway contagious viral infection; KY subset 10,692 US croup deaths--554
57. 1870 -- **diarrhoea** (357), **dysentery** (211), **enteritis** (292); data from U.S. Census -- 860
58. 1870 -- **diphtheria** (KY subset of 6,303 diphtheria deaths nationwide) -- 145
59. 1870 -- **measles** (KY subset of 9,237 measles deaths nationwide) -- 249
60. 1870 -- **smallpox** (KY subset of 4,597 smallpox deaths nationwide) -- 175
61. 1870 -- **tuberculosis** (consumption), (KY subset of ~70,000 US TB deaths) --2,506
62. 1870 -- **typhoid fever** (KY subset of 22,187 typhoid fever deaths nationwide) -- 661
63. 1870 -- **whooping cough** (KY subset of 9,008 whooping cough deaths nationwide) -- 326
64. 1871 -- Nov 05, **trampling**, African Baptist Meeting-house, Louisville, KY -- 11
65. 1873 -- June-Sep~ **cholera**,  $\geq$ 72 locations, esp. Paducah, Millersburg, Franklin --940-1,143
66. 1878 -- Aug 13-Nov 6, **yellow fever**, esp., Hickman, Louisville and Clinton, KY --261-324
67. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)-- 747
68. 1879 -- June-May 1880, **malarial fever**, (KY subset, 20,231 US malarial deaths) -- 697
69. 1879 -- June-May 1880, **measles**, esp. children (KY subset, 8,254 U.S. measles deaths)-- 211
70. 1879 -- June-May 1880, **meningitis**; KY subset, 7,481 US deaths; highest State loss -- 350
71. 1879 -- June-May 1880, **scarlet fever**, esp. children (KY subset, 16,388 US S.F. deaths)-- 354
72. 1879 -- June-May 1880, **tuberculosis** (KY subset of 91,270 TB deaths nationwide) --3,321
73. 1879 -- June-May 1880, **typhoid fever** (KY subset of 23,339 U.S. Typhoid deaths) -- 729
74. 1879 -- June-May 1880, **whooping cough** (KY subset, 11,064 U.S. Wh. Cough deaths)-- 467
75. 1881 -- **smallpox**, Apr 17-Aug 6, Louisville (20), Aug-Dec 15, Covington, KY (69) -- 89
76. 1882 -- Aug 07, steamboat **Gold Dust** boiler explosion/fire, MS River ~Hickman, KY--  $\geq$ 24
77. 1884 -- Aug 29, steamer **Belmont** capsizes, high wind, OH Riv., 3m ~Henderson, KY --13-17
78. 1889 -- Jan-Feb, **cerebrospinal meningitis** epidemic, Webster County, KY --50-70
79. 1889-90, June-May, **croup**, (subset of 13,862 U.S. croup deaths); KY -- 561
80. 1889-90, June-May, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; KY -- 544

<sup>295</sup> Second leading known cause of death in the State in 1860, behind consumption.

<sup>296</sup> A KY road marker titles this a massacre, as do several sources (and a slaughter), but not without disagreement.

<sup>297</sup> Reportedly 194 Kentucky paroled soldiers (Union) onboard were killed (total loss an estimated 1,538-1,947).

<sup>298</sup> Cross-listed in Indiana in that several sources note location as Rayl’s Landing, IN.

**Kentucky (continued):**

81. 1889-90, June-May, <b>measles</b> , subset of 9,256 US measles deaths; KY	-- 513
82. 1889-90, June-May, <b>typhoid fever</b> , subset of 27,058 US typhoid deaths; KY	--1,046
83. 1890 -- Jan 09, <b>caisson floods</b> during <b>Big Four Bridge construction</b> near Louisville <sup>299</sup> --	14
84. 1890 -- Jan 12/13, <b>tornado</b> /storm, New Madrid Co., MO, Hickman Co. (Clinton) KY --	10
85. 1890 -- Mar 27, <b>tornadoes</b> (5), "Louisville Tornado," 13 Counties in KY	-- 126
86. 1891 -- July 31, <b>train wreck</b> , near Louisville, KY	-- 13
87. 1891 -- Dec 09, <b>fires</b> , Bamberger & Candy/Fireworks bldgs., Main St., Louisville KY--	12
88. 1892 -- June 15, <b>bridge</b> under construction over Licking Riv. collapses, Covington KY-27-31	
89. 1893 -- Dec 15, <b>crane/span fall</b> , bridge construct., Louisville, KY/Jeffersonville, IN <sup>300</sup> --	21
90. 1896 -- July 29-Aug 11, <b>heat</b> , sunstroke, esp. Owensboro (16), Louisville (17)	-- 34
91. 1897 -- July 04-13, <b>heat</b> (608-616 US Heat deaths), especially Louisville, KY (17)	-- 31
92. 1900 -- <b>croup</b> (upper airway contagious viral infection); KY subset (3 <sup>rd</sup> highest), 12,484 croup deaths--	768
93. 1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 440
94. 1900 -- <b>heat</b> (excessive natural heat exposure, coded "sunstroke" in some Census docs.)--	13
95. 1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths); KY	-- 477
96. 1900 -- <b>malarial fever</b> (14,874 US malarial fever deaths); KY	-- 344
97. 1900 -- <b>measles</b> (subset of 12,866 US measles deaths); KY	-- 335
98. 1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths); KY	-- 575
99. 1900 -- <b>tuberculosis</b> (27,091 KY deaths all causes) (109,750 US tuberculosis deaths) --	3,916
100. 1900 -- <b>typhoid fever</b> (KY subset of 35,379 typhoid fever deaths nationwide)	-- 669
101. 1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	-- 279
102. 1901 -- June-July (especially), <b>heat waves</b> (subset of 4,012 US heat deaths)	-- 13
103. 1901 -- Aug 19, steamer <b>City of Golconda</b> "turtles," Windstorm, OH Riv. ~Paducah, KY-15-22	
104. 1902 -- Apr 20, steamer <b>City of Pittsburg</b> fire, Ohio Riv., near Ogden's Landing, KY--	~64
105. 1903 -- <b>smallpox</b> , Louisville, KY (#9 of top 10 cities/smallpox deaths) 1,457 US deaths-17	
106. 1904 -- May 26, towboat <b>Fred Wilson</b> boiler explosion, West Louisville Harbor, KY--	11
107. 1905 -- <b>tuberculosis</b> , Louisville & Paducah; 56,770 census deaths (10 states/135 cities) <sup>301</sup> --	582
108. 1907 -- June 07-08, heavy rain and <b>flash flood</b> , Gradyville, KY	--10-21
109. 1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; 4 cities <sup>302</sup> --	104
110. 1910 -- Feb 01, <b>mine</b> explosion, Browder Coal Mine, Browder, KY	-- 34
111. 1910 -- Nov 25, <b>mine</b> explosion, Providence No. 3 Coal Mine, Providence, KY	-- 10
112. 1911 -- <b>polio</b> ; subset of 1,060 "registration area" deaths (63.1% pop.), KY	-- 61
113. 1912 -- Jan 07-19 especially, <b>cold wave and snowstorms</b> ; subset of 228 US deaths --	10
114. 1913 -- <b>heat</b> , esp. June 25-July 1; 1,226 "registration area" (65% pop.) deaths; KY	-- 65
115. 1913 -- <b>measles</b> , 8,108 US "registration area" (65.1%) deaths; KY <sup>303</sup>	-- 396
116. 1913 -- <b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, KY--	52
117. 1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; KY rate 11.5	-- 271
118. 1914 -- <b>polio</b> , esp. Aug-Oct, especially children (subset of 720 US polio deaths), KY--	27

<sup>299</sup> Listed in KY in that most fatalities were KY residents -- accident took place on the Indiana side of the Ohio.

<sup>300</sup> Cross-listed in Indiana. The crane fall, knocking a span loose, happened on the Indiana side of the bridge over the Ohio River. More of the fatalities, however, lived in Kentucky than in any other state.

<sup>301</sup> Louisville had TB death rate of 228 per 100K; Paducah had 337; Census area average death rate was 168.2.

<sup>302</sup> Data from US Bureau of Census mortality data for 1910 for four cities which reported data. Covington had eight deaths; Louisville 71; Newport had 10 deaths, and Paducah had death rate of 65.7 with 15 deaths.

<sup>303</sup> Death rate went from 2.3 per 100,000 population in 1912 to 17.0 in 1913.

**Kentucky (continued):**

119.	1916 --	<b>diphtheria</b> , esp. children, KY subset; >8000-17,000 Census states deaths	-- 384
120.	1916 --	<b>polio outbreak</b> , KY subset of 6,645->7,000 U.S. polio deaths, esp. children	-- 48
121.	1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; KY, 21.4	-- 583
122.	1917 --	<b>polio</b> , esp. June-Sep, especially children; KY subset, $\geq 1,182$ US polio deaths	-- 41
123.	1917 --	Aug 04, coal <b>mine</b> explosion, West Kentucky No. 7, Clay, KY	-- 62
124.	1917 --	Dec 20, <b>trains collide</b> , Shepherdsville, KY	-- 51
125.	1918, Sep-1920 --	<b>influenza and pneumonia</b> epidemic, KY	--18,591-20,460
	1918 --	<b>influenza and pneumonia</b> epidemic, KY	--11,771-13,640
	1919 --	<b>influenza and pneumonia</b> epidemic, KY	--6,820
126.	1920 --	<b>diphtheria and croup</b> ; KY subset, 13,395 such deaths, 34 Census states	-- 425
127.	1920 --	<b>influenza and pneumonia</b> , KY	--4,776
128.	1920 --	<b>measles</b> (KY subset of 7,712 measles deaths in 34 registration states)	-- 270
129.	1920 --	<b>smallpox</b> (KY subset of 508 smallpox deaths in 34 registration states)	-- 21
130.	1920 --	<b>typhoid fever</b> ; KY subset (2 <sup>nd</sup> highest State), 6,805 deaths, 34 registration states	-- 490
131.	1920 --	<b>whooping cough</b> ; KY subset, 10,968 whooping cough deaths/34 reg. states	-- 386
132.	1921 --	June 25/26, <b>Mass Murder</b> /home then burned, Drew/Hamilton families, ~Mayfield KY	--11
133.	1925 --	<b>dysentery</b> (KY subset, highest in nation of 3,257 US dysentery deaths)	-- 297
134.	1925 --	<b>excessive heat</b> ; KY subset, 1,587 US excessive heat deaths; US Census Bur.	-- 21
135.	1925 --	<b>influenza</b> (KY subset, 10 <sup>th</sup> highest, 30,538 US influenza deaths)	--1,000
136.	1925 --	<b>meningococcus meningitis</b> , KY subset, 8 <sup>th</sup> highest, 1,095 US meningitis deaths	--44
137.	1925 --	<b>polio</b> (KY subset, 10 <sup>th</sup> highest polio loss in a state; 1,518 US polio deaths)	-- 45
138.	1925 --	<b>tuberculosis</b> (KY subset, 9 <sup>th</sup> highest of 89,268 US tuberculosis deaths)	--2,992
139.	1925 --	<b>typhoid/paratyphoid fever</b> ; KY subset, 8,287 US deaths; highest State loss	-- 668
140.	1925 --	<b>whooping cough</b> (KY subset, 6,948 US whooping cough deaths)	-- 215
141.	1925 --	Mar 18, <b>tornadoes</b> , 13 Counties, esp. Metcalfe, Oldham, Allen counties	-- 29
142.	1925 --	June 08, <b>mine</b> explosion, No. 9 Coal Mine, Sturgis, KY	-- 17
143.	1927 --	<b>polio</b> (acute) esp. late Summer and Fall (KY subset, 2,013 US polio deaths)	-- 73
144.	1927 --	Aug 03, <b>mine</b> explosion, West Kentucky No. 7 Coal Mine, Clay, KY	-- 15
145.	1930 --	Mar 30, <b>mine</b> explosion, Pioneer Coal Mine, Kettle Island, KY	-- 16
146.	1931 --	<b>epidemic cerebrospinal meningitis</b> (Census), KY subset, 2832 US meningitis deaths	--94
147.	1931 --	<b>diphtheria</b> , esp. children; KY subset, 5,738 US diphtheria deaths; 3 <sup>rd</sup> highest State	-- 349
148.	1931 --	<b>influenza</b> (KY subset of 31,701 influenza deaths nationwide)	-- 939
149.	1931 --	<b>measles</b> , esp. children; KY subset, 3,576 US measles deaths; 5 <sup>th</sup> highest State	-- 191
150.	1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--2,533
151.	1931 --	<b>whooping cough</b> , esp. children; KY subset, 4,619 US deaths; 4 <sup>th</sup> highest State	-- 200
152.	1931 --	Summer, <b>heat</b> , and excessive heat deaths (State subset, 2,768 U.S. deaths)	-- 47
153.	1932 --	Dec 09, <b>mine</b> explosion, Zero Coal Mine, Yancey, KY	-- 23
154.	1933 --	May 09, <b>tornado</b> , Monroe/Cumberland/Adair/Russell, KY	-- 36
155.	1934 --	Summer, <b>excessive natural heat</b> ; subset of 3,250 US heat deaths; KY	--38-43
156.	1936 --	July-Aug (especially), <b>heat wave</b> (4,678-5,000 US heat deaths), KY subset	-- 144
157.	1937 --	Jan 20/Feb 15, <b>flooding</b> , Ohio River, especially Louisville, KY	--158-198
158.	1937 --	Jan 26, <b>rescue barge</b> capsizes during Ohio Flooding, Paducah, KY	-- 14
159.	1937 --	Feb 05, <b>flooding</b> /bldg. gas leak/ <b>explosion</b> , Floyd & Market St., Louisville, KY	-- 10
160.	1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec; subset of 1,997 US diphtheria deaths; KY	-- 91

**Kentucky (continued):**

161.	1939 --	<b>influenza and pneumonia</b> (KY subset, 99,097 US flu/pneumonia deaths)	--2,792
162.	1939 --	<b>tuberculosis</b> (KY subset of 61,609 tuberculosis deaths nationwide)	--1,790
163.	1939 --	<b>whooping cough</b> (KY subset of 3,026 whooping cough deaths nationwide)	-- 68
164.	1939 --	summer, <b>excessive natural heat</b> (subset of 527-1,073 US heat deaths), KY	-- 15
165.	1939 --	July 4-5, <b>flash flooding</b> , esp. Breathitt/52, Rowan/25, Lewis counties, NE KY	-- 79
166.	1939 --	July 14, <b>mine</b> explosion, Duvin Coal Mine, Providence, KY	-- 28
167.	1940 --	<b>influenza and pneumonia</b> (KY subset, 92,525 US flu/pneumonia deaths)	--2,727
168.	1940 --	<b>polio</b> (KY subset of 1,026 polio deaths nationwide)	-- 39
169.	1940 --	<b>tuberculosis</b> (KY subset of 55,576 tuberculosis deaths nationwide)	--1,767
170.	1940 --	<b>whooping cough</b> ; KY subset, 2,926 US deaths; 2 <sup>nd</sup> highest State loss	-- 178
171.	1941 --	<b>measles</b> ; KY subset, 2,279 US measles deaths; 3 <sup>rd</sup> highest State loss of life	-- 158
172.	1941 --	Oct 27, <b>mine</b> explosion, Daniel Boon Coal Mine, Daniel Boone, KY	-- 15
173.	1942 --	Mar 16, <b>tornadoes</b> , Muhlenberg, Grayson, Hardin, Nelson Counties, KY	-- 25
174.	1943 --	July 28, <b>plane crash</b> , American Air Flight 63, near Trammel, KY	-- 20
175.	1943 --	Sep 16, Three Point Coal <b>mine</b> explosion, Three Point, KY	-- 12
176.	1944 --	<b>cerebrospinal meningitis</b> , KY (2,812 U.S. cerebrospinal meningitis deaths)	-- 79
177.	1944 --	<b>influenza</b> , esp. Jan-Apr, Dec (KY subset of 17,320 US influenza deaths)	-- 669
178.	1944 --	<b>measles</b> , especially Jan-June (KY subset of 1,923 US measles deaths)	-- 52
179.	1944 --	<b>polio</b> , especially July-Nov, subset of 1,070 US polio deaths; KY	-- 48
180.	1944 --	<b>tuberculosis</b> (KY subset of 54,731 tuberculosis deaths nationwide)	--1,726
181.	1944 --	<b>whooping cough</b> ; KY subset, 1,878 US deaths; 6 <sup>th</sup> highest State loss	-- 93
182.	1945 --	Dec 26, Belva No. 1 coal <b>mine</b> gas and dust explosion, Fourmile, KY	-- 25
183.	1949 --	<b>polio</b> , especially July-Nov (KY subset of ~2,725 polio deaths nationwide)	-- 54
184.	1950 --	<b>measles</b> , esp. children; KY subset, 468 US measles deaths; 2 <sup>nd</sup> highest State loss	-- 30
185.	1950 --	<b>polio</b> , especially July-Nov; 1,904 US polio deaths; subset for KY	-- 45
186.	1950 --	Nov 24-27, " <b>Storm of the Century</b> ," subset for KY	-- 17
187.	1951 --	<b>diphtheria</b> ; 302 US deaths; 13 States in double digits; subset for KY	-- 17
188.	1951 --	<b>measles</b> , 688 US deaths; subset for KY (2 <sup>nd</sup> highest US state loss)	-- 43
189.	1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for KY (5 <sup>th</sup> high in US)	--1,755
190.	1951 --	<b>whooping cough</b> ; 960 US deaths; subset for KY (7 <sup>th</sup> highest US state loss)	-- 44
191.	1951 --	Jan 27-Feb 4, <b>cold-waves, winter storms/ice/sleet/snow</b> (175-200 US), KY	-- 14
192.	1952 --	<b>diphtheria</b> (225 US deaths; 7 states in double digits), subset for KY	-- 12
193.	1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; KY (3 <sup>rd</sup> highest US loss)	-- 61
194.	1952 --	<b>influenza</b> ; 5,649 US deaths; KY (8 <sup>th</sup> highest US state loss)	-- 223
195.	1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; KY (tied at 4 <sup>th</sup> US state high)	-- 31
196.	1952 --	<b>polio</b> , especially Jefferson County (KY subset. 3,000-3,300 US polio deaths)	-- 132
197.	1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; KY (8 <sup>th</sup> highest US state loss)	-- 778
198.	1952 --	<b>whooping cough</b> (pertussis); 406 US deaths; KY (8 <sup>th</sup> highest US state loss)	-- 16
199.	1953 --	<b>excessive natural heat</b> , (code E931), 576 US heat deaths, esp. Aug 22-Sep 5	-- 10
200.	1953 --	<b>influenza</b> ; 9,500 US deaths; KY subset (9 <sup>th</sup> highest in the US)	-- 349
201.	1953 --	<b>polio</b> (KY subset of 1,450 polio deaths nationwide)	-- 30
202.	1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; KY subset (8 <sup>th</sup> high US state)	-- 625
203.	1953 --	<b>whooping cough</b> ; 271 US deaths, 11 States double digits; KY subset/2 <sup>nd</sup> highest	-- 18
204.	1953 --	Sep 28, <b>Resort Airlines 1081 airport landing crash</b> , near Louisville, KY	-- 25



**Kentucky (continued):**

205.	1954 --	<b>dysentery</b> , infectious, all forms (codes 045-048), 655 US deaths; KY subset--	20
206.	1954 --	<b>measles</b> ; 524 US deaths; 21 states double digits; KY (5 <sup>th</sup> highest US state) --	27
207.	1954 --	<b>polio</b> , acute; 1,400 US deaths; KY subset	-- 34
208.	1954 --	<b>excessive heat</b> (especially July), state subset of 978-984 heat-related deaths --	10
209.	1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; KY subset--	85
210.	1954 --	<b>whooping cough</b> /pertussis; 375 US deaths, 17 states double digits, KY (3 <sup>rd</sup> high)--	24
211.	1954 --	July 31, <b>car</b> loses brakes, hits cliff and burns, Pine Mountain, KY	-- 11
212.	1955 --	<b>whooping cough</b> /pertussis, 476 US deaths/15 states in double digits; KY	-- 18
213.	1955 --	Jan 12, <b>TWA #694 &amp; Castleton, Inc. DC-3 planes collide</b> , Covington, KY --all	15
214.	1956 --	<b>measles</b> , 530 US deaths/21 states in double digits; KY subset	-- 13
215.	1957 --	<b>influenza</b> ; 7,463 US deaths; KY had 10 <sup>th</sup> highest US state death toll	-- 254
216.	1957 --	<b>measles</b> ; 389 US deaths; 15 states double digit deaths; subset for KY	-- 12
217.	1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; KY set (9 <sup>th</sup> high US state loss)--	409
218.	1957 --	June 13, Army <b>truck</b> skids into Piney Ford Creek, Ft. Campbell, KY	-- 14
219.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K), KY--	1,306
220.	1958 --	<b>measles</b> ; 552 US deaths; 23 States in double digits, including KY (7 <sup>th</sup> highest)--	23
221.	1958 --	<b>scarlet fever</b> and streptococcal sore throat; 138 US deaths; KY subset (2 <sup>nd</sup> high)--	10
222.	1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; KY subset (10 <sup>th</sup> highest loss of all States)--	375
223.	1958 --	<b>whooping cough</b> (pertussis); 177 US deaths; KY subset (4 <sup>th</sup> high US state loss)--	13
224.	1958 --	Feb 28, <b>school bus</b> hits wrecker, goes in Levisa Fork river ~Prestonsburg, KY--	27
225.	1959 --	<b>scarlet fever</b> and <b>streptococcal sore throat</b> ; 130 US deaths, esp. KY & TX--	10
226.	1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; KY subset	-- 348
227.	1959 --	Feb 14, <b>fire</b> (from gas explosion), Apartment Building, Ashland, KY	-- 11
228.	1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; KY death rate 9.1	-- 275
229.	1960 --	<b>polio</b> (acute, as opposed to late effects of); 230 US deaths, KY	-- 10
230.	1960 --	<b>scarlet fever</b> and streptococcal sore throat; 108 US deaths, KY	-- 12
231.	1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; KY death rate 10.7	-- 325
232.	1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; KY death rate 1.9	-- 58
233.	1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; KY death rate 0.7	-- 22
234.	1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; KY death rate 10.0	-- 307
235.	1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; KY death rate 2.6	-- 81
236.	1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; KY rate 9.8	-- 302
237.	1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; KY death rate 11.6	-- 360
238.	1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; KY death rate 0.4	-- 13
239.	1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; KY death rate 8.7--	269
240.	1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; KY death rate 1.0	-- 31
241.	1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; KY death rate 0.7	-- 21
242.	1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; KS death rate 6.6	-- 208
243.	1964 --	Mar 09-31, <b>flooding</b> , Ohio River and tributaries	-- 10
244.	1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; KY death rate 1.5	-- 49
245.	1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; KY death rate 6.4	-- 204
246.	1965 --	Aug 25, <b>explosions</b> (26)/fire, Du Pont Chemical Corp., near Louisville, KY <sup>304</sup> --	12
247.	1965 --	Nov 08, <b>plane crash</b> , American 383 ~Cincinnati/N KY Airport, Constance, KY--	58

<sup>304</sup> First explosion caused eleven deaths. Twelfth death was from burns several days later.



**Kentucky (continued):**

248.	1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for KY --	60
249.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; KY--	25
250.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for KY	-- 205
251.	1967 --	Nov 20, <b>snowing</b> /TWA Flight 128 <b>plane crash</b> , Constance, KY	-- 70
252.	1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; KY--	13
253.	1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; KY death rate 4.79--	150
254.	1968 --	Oct 13-Mar 22, A2 Hong Kong <b>influenza</b> -pneumonia epidemic, Louisville <sup>305</sup> --	323
255.	1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5971 US deaths/death rate 2.96 per 100K; KY 3.2--	102
256.	1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; KY rate 4.18	-- 133
257.	1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; KY 3.5--	112
258.	1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; KY 4.3--	138
259.	1970 --	Dec 30, Finley Coal Co. <b>mine</b> No. 15 & 16 explosion, coal dust, Hyden, KY--	38
260.	1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; KY 0.8--	26
261.	1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; KY/3.06	-- 101
262.	1971 --	Jan 14, <b>fire</b> , Westminster Terrace Presbyterian nursing home, Buechel, KY	-- 10
263.	1972 --	<b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; KY	-- 12
264.	1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; KY 2.52--	84
265.	1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; KY 3.12	-- 104
266.	1972 --	Nov 17, <b>plane crash</b> , Metro Air System; Richmond KY group; Elkton, KY	-- 11
267.	1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; KY 2.70--	91
268.	1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; KY 2.37	-- 80
269.	1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; KY, 2.74 <sup>306</sup>	-- 95
270.	1974 --	Apr 03, <b>tornadoes</b> , multiple counties, esp. Brandenburg, Meade Co., KY	--68-77
271.	1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; KY, 3.6--	124
272.	1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; KY, 2.74 <sup>307</sup>	-- 95
273.	1976 --	exposure to excessive natural <b>cold/hypothermia</b> ; 424 US deaths; KY	-- 13
274.	1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; KY, 1.87	-- 66
275.	1976 --	Mar 9 & 11, Scotia coal <b>mine</b> methane gas explosions, Oven Fork KY --(15 & 11)	26
276.	1977 --	<b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; KY	-- 25
277.	1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; KY, 0.61	-- 22
278.	1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; KY, 2.21	-- 79
279.	1977 --	May 28, <b>fire</b> , Beverly Hills Supper Club, Southgate, KY	-- 165
280.	1978 --	exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; KY	-- 19
281.	1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; KY, 2.46	-- 89
282.	1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; KY rate 1.77	-- 64
283.	1979 --	exposure to excessive natural <b>cold/hypothermia</b> ; 356 US deaths; KY	-- 13
284.	1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; KY rate 1.73	-- 63
285.	1980 --	exposure to excessive natural <b>cold/hypothermia</b> ; 302 US deaths; KY	-- 12
286.	1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, KY rate 1.36	-- 50
287.	1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; KY rate 1.17	-- 43
288.	1980 --	summer; <b>excessive natural heat</b> , especially Jefferson County (13), KY	-- 34

<sup>305</sup> U.S. influenza epidemic death toll was 33,800.

<sup>306</sup> Highest TB death rate of any State. Only District of Columbia, with a death rate of 5.13 (37 deaths) was higher.

<sup>307</sup> Highest death rate of any State – only the District of Columbia had higher death rate (3.80)

**Kentucky (continued):**

289.	1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, KY rate 2.15	--	79
290.	1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; KY, 1.33	--	49
291.	1982 --	<b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, KY, 1.11	--	41
292.	1983 --	<b>tuberculosis</b> , 1,779 US TB deaths/death rate 0.76 per 100K; KY, 0.81	--	30
293.	1983 --	summer <b>heat</b> , esp. July, 17 counties, esp. Jefferson (Louisville/34); US/597	--	57
294.	1983 --	June 02, <b>Air Canada 797</b> in-flight hidden fire, emer. landing, Covington, KY--	--	23
295.	1983 --	Dec 23-28, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	--	11
296.	1984 --	<b>influenza</b> , 1,096 US flu deaths/death rate 0.46 per 100K, KY, 0.60	--	22
297.	1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; KY, 1.14	--	42
298.	1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, KY, 0.95	--	35
299.	1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; KY, 0.89	--	33
300.	1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; KY, 0.87	--	32
301.	1987 --	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; KY, 0.41	--	15
302.	1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; KY, 1.28	--	47
303.	1988 --	<b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K; KY, 0.98	--	36
304.	1988 --	Mar 08, <b>US Army Blackhawks collide</b> mid-air, Fort Campbell, KY/TN <sup>308</sup>	--	17
305.	1988 --	May 14, church <b>bus</b> hit by drunk driver, Carrollton, KY	--	27
306.	1988 --	summer, <b>excessive natural heat</b> , KY	--	11
307.	1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; KY, 1.01	--	37
308.	1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; KY, 1.14	--	43
309.	1989 --	Sep 13, coal <b>mine</b> gas explosion, William Station Mine, Wheatcroft, KY	--	10
310.	1990 --	exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; KY	--	10
311.	1991 --	exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; KY	--	12
312.	1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; KY 1.10	--	41
313.	1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, KY, 0.75	--	28
314.	1992 --	exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; KY	--	13
315.	1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, KY at 0.48	--	18
316.	1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate of 0.66 per 100K; KY, 0.61	--	23
317.	1993 --	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; KY	--	13
318.	1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; KY, 0.45	--	17
319.	1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; KY, 0.66	--	25
320.	1994 --	exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; KY	--	18
321.	1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; death rate 0.56 per 100K, KY, 0.70	--	27
322.	1995 --	exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; KY	--	17
323.	1995 --	exposure to <b>excessive natural heat</b> ; 1,563-1,601 US heat-related deaths; KY--	--	11
324.	1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths; death rate 0.5 per 100K; KY, 0.62	--	24
325.	1996 --	exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; KY	--	18
326.	1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, KY rate 0.73	--	29
327.	1997 --	Mar 01-03, <b>flash floods and flooding</b> , esp. Falmouth (5), KY	--	21
328.	1999 --	exposure to <b>excessive natural heat</b> ; 1,050 US deaths; subset for KY	--	15
329.	1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; KY, 0.72	--	29
330.	1999 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; KY, 0.373	--	15

<sup>308</sup> The collision occurred over western KY-TN border, with one Blackhawk falling on KY side, the other in TN. Cross-listing in both KY and TN. The total number of deaths was 17 -- all on-board the two helicopters.

**Kentucky (continued):**

331.	2000	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	742 US deaths; KY	--	17
332.	2000	-- <b>tuberculosis</b> , ICD-10 code A16-19;	death rate 0.276 per 100K; KY, 0.297	--	12	
333.	2001	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	599 US deaths; KY	--	14
334.	2001	-- <b>tuberculosis</b> , ICD-10 code A16-19,	death rate 0.268 per 100K; KY, 0.442	--	18	
335.	2002	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	646 US deaths; KY	--	11
336.	2002	-- <b>influenza</b> , ICD-10 codes J09-11.8;	US death rate 0.253 per 100K; KY, 0.318	--	13	
337.	2003	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	620 US deaths; KY	--	14
338.	2004	-- <b>tuberculosis</b> , ICD-10 code A16-19,	death rate 0.22 per 100K; KY rate 0.36	--	15	
339.	2005	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	700 US deaths; KY	--	18
340.	2006	-- <b>influenza</b> , ICD-10 codes J09-11.8;	US death rate 0.285 per 100K; KY, 0.427	--	18	
341.	2006	-- Aug 27, <b>plane crash</b> at takeoff,	Comair Flight 5191, Lexington, KY	--	49	
342.	2007	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	711 US deaths; KY	--	16
343.	2007	-- exposure to <b>excessive natural heat</b> ;	582 US deaths, subset for KY	--	10	
344.	2007	-- Feb 06, <b>fire</b> , single-family house,	Bardstown, KY	--	10	
345.	2008	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	641 US deaths; KY	--	13
346.	2009	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	616 US deaths; KY	--	17
347.	2009	-- <b>H1N1 "Swine Flu,"</b> especially spring	through winter, KY	--	39	
348.	2009	-- Jan 28, <b>ice/snow storm</b> , central US	(91 deaths), particularly KY (13 CO)	--	36	
349.	2010	-- <b>diarrhoea/gastroenteritis</b> , infectious	origin, US death rate 0.9 per 100K, KY 1.1--	46		
350.	2010	-- exposure to excessive natural	<b>cold/hypothermia</b> );	710 US deaths; KY	--	14
351.	2010	-- exposure to <b>excessive natural heat</b> ;	874 US deaths, subset for KY	--	21	
352.	2010	-- <b>influenza</b> , subset of 500 US flu	deaths/US death rate 0.2 per 100K; KY, 0.3	--	11	
353.	2010	-- <b>tuberculosis</b> , ICD-10 code A16-19,	US death rate 0.2 per 100K; KY rate 0.3--	11		
354.	2010	-- Mar 26, highway crash, <b>tractor-trailer</b>	<b>hits van</b> , near Munfordville, KY	--	11	
355.	2011	-- <b>diarrhoea/gastroenteritis</b> , infectious	origin, US death rate 0.9 per 100K; KY 1.1--	47		
356.	2011	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	0.216 death rate; KY 0.228--	10	
357.	2011	-- exposure to <b>excessive natural heat</b> ,	1,060 US deaths, subset for KY	--	17	
358.	2011	-- <b>influenza</b> , ICD-10 codes J09-J11;	US death rate 0.5 per 100K; KY rate 0.7	--	30	
359.	2012	-- <b>diarrhoea/gastroenteritis</b> , infectious	origin, US death rate 0.8 per 100K, KY 0.9--	40		
360.	2012	-- Mar 02, <b>tornadoes</b> , Johnson/Kenton/Laurel/Lawrence/Menifee/Morgan Co's.	--	19-21		
361.	2013	-- <b>diarrhoea/gastroenteritis</b> , infectious	origin, US death rate 0.8 per 100K, KY 1.0--	44		
362.	2013	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	725 US deaths; KY	--	16
363.	2014	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	930 US deaths; KY	--	13
364.	2014	-- <b>influenza</b> , ICD-10 codes J09-11.8;	US death rate 1.4 per 100K; KY rate 2.5--	111		
365.	2015	-- <b>diarrhoea/gastroenteritis</b> , infectious	origin, US death rate 0.8 pr 100K, KY 1.2--	55		
366.	2015	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	815 US deaths; KY	--	16
367.	2015	-- exposure to <b>excessive natural heat</b> ;	567 US deaths; subset for KY	--	10	
368.	2015	-- <b>influenza</b> , ICD-10 codes J09-11.8;	US death rate 1.6 per 100K; KY had 1.9	--	84	
369.	2016	-- <b>diarrhoea/gastroenteritis</b> , infectious	origin, US death rate 0.7 per 100K, KY 1.0--	43		
370.	2016	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	731 US deaths; KY	--	14
371.	2016	-- exposure to <b>excessive natural heat</b> ,	786 US deaths, subset for KY	--	13	
372.	2016	-- <b>influenza</b> , ICD-10 codes J09-11.8;	US death rate 0.9 per 100K; KY rate 1.1	--	49	
373.	2016	-- <b>viral hepatitis</b> , ICD-10 code B15-19;	US death rate 2.0 per 100K; KY, 2.1	--	91	
374.	2017	-- <b>influenza</b> ; 6,515 US deaths/death	rate 2.0 per 100K pop.; KY rate 2.56	--	114	

375.	2018 -- exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; KY	--	17
376.	2018 -- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for KY	--	12
377.	2018 -- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., KY rate 5.15	--	230
378.	2019 -- exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths; KY	--	15
379.	2019 -- <b>influenza</b> ; 5,902 US deaths/1.08 death rate per 100K; KY death rate 2.80	--	125
380.	2020 -- exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; KY 0.47	--	21
381.	2020 -- <b>excessive heat</b> , natural sources; 1,184 US deaths; subset for KY	--	10
382.	2020 -- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; KY death rate 2.37	--	106
383.	2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths; 1,070 per 1M; KY 587 per 1M pop.	--	2,623
384.	2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; KY, 2.7K per M	--	9,495
385.	2021 -- exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; KY 0.55	--	25
386.	2021 -- Dec 10, <b>tornadoes</b> and severe weather, 91 deaths (AR/2, IL/6, MO/2, TN/5) KY-76		
387.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for KY	--	11
388.	2022 -- July 27-28 downpour, <b>flash flooding</b> , eastern KY, esp. Knott/19, Breathitt/8, Perry/7 Co's	--	39
389.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; KY death rate 12.5	--	5,578
390.	2023 -- <b>COVID-19</b> , 71,691 US deaths/death rate 3,597 per 1 mil. pop.; KY 4,394	--	1,487
391.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for KY	--	20

#### Some Select/Notable Other **Kentucky** Large Loss-of-Life Events:<sup>309</sup>

1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	--	221
1860 --	<b>smallpox</b> (KY subset of 1,263-1,271 smallpox deaths in reporting States)	--	15
1860 --	<b>whooping cough</b> ; 8,408 whooping cough deaths in 38 registration states; KY subset	--	69
1870 --	<b>typhus</b> (KY subset of 1,770 typhus deaths nationwide)	--	35
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	333
1881 --	<b>diphtheria</b> , Louisville, KY	--	18
1881 --	July 09-12, excessive <b>heat</b> and sunstroke deaths, especially Louisville (11)	--	13
1882 --	Jan-June especially, <b>smallpox</b> , Louisville (22), and Newport (1) KY	--	23
1884 --	Mar 03, <b>tornadoes</b> , Harrison, Laurel and Jackson Counties, esp. Pittsburg	--	5-8
1890 --	Jan, <b>influenza</b> (La Grippe/Russian Flu), (16,124-17,626 US flu deaths) Louisville	--	96
1894 --	<b>diphtheria</b> , especially children, KY subset of $\geq 14,606$ US diphtheria deaths	--	52
1896 --	<b>measles</b> , Louisville (5), Madisonville (4), Nicholasville (1)	--	10
1897 --	<b>typhoid fever</b> , subset of $>9,192$ US typhoid deaths, Louisville	--	66
1898 --	<b>typhoid fever</b> ( $>4,627$ nationwide), esp. First, Second, Third KY Vols. <sup>310</sup>	--	$\geq 78$
1899 --	Feb 09-15 especially, <b>cold wave and snow</b> , exposure and freezing deaths	--	6
1900 --	<b>diphtheria</b> (KY subset of 16,475 US diphtheria deaths in 1900)	--	222
1900 --	<b>scarlet fever</b> (KY subset, 6,333 US scarlet fever deaths)	--	47
1900 --	<b>smallpox</b> (subset, 8,484 US smallpox deaths)	--	68
1907 --	<b>typhoid</b> , Covington, Newport, Paducah, esp. Louisville (subset of $\sim 13,000$ US)	--	225
1915 --	<b>polio</b> ; 691 registration area deaths (67.1% population); subset for KY	--	23
1920 --	<b>malaria</b> (KY subset of 3,136 malaria deaths in 34 registration states and DC)	--	60
1920 --	<b>scarlet fever</b> (KY subset of 4,004 such deaths in 34 registration states)	--	62

<sup>309</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>310</sup> This number is for identified servicemen dying of typhoid in KY, especially at Camp Hamilton at Lexington and Fort Thomas on the Ohio River near Covington, KY (66) and seven civilian deaths.



**Kentucky (continued):**

1921 --	<b>polio</b> (acute) esp. late summer-fall (subset of 1,597 US polio deaths); KY	--	22
1925 --	exposure to excessive natural <b>cold</b> , KY subset of 239 US excessive cold deaths	--	7
1925 --	<b>diphtheria</b> (KY subset, 8,058 US diphtheria deaths)	--	134
1925 --	<b>malaria</b> (KY subset of 2,132 US malaria deaths)	--	47
1925 --	<b>measles</b> (KY subset of 2,404 measles deaths in 40 "registration" states)	--	36
1925 --	<b>scarlet fever</b> (KY subset of 2,762 US scarlet fever deaths, 48 states)	--	51
1925 --	<b>scurvy</b> (vitamin C deficiency), KY subset, 58 scurvy deaths in 24 States	--	2
1931 --	<b>malaria</b> (KY subset, 2,536 malaria deaths nationwide)	--	48
1931 --	<b>polio</b> , esp. July-Oct, (KY subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	28
1939 --	<b>malaria</b> (KY subset of 1,761 malaria deaths nationwide)	--	29
1940 --	<b>malaria</b> (KY subset of 1,442 malaria deaths nationwide)	--	19
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); KY death rate 11.2	--	518
1945 --	July 01, <b>USAAF B-29 explosion, crash</b> in thunderstorm, 6M S of Benton, KY	--	9
1946 --	<b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths)	--	14
1948 --	<b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	--	10
1948 --	Jan 23-26, <b>winter snow storms and extreme cold</b> , KY	--	8
1948 --	Mar 15, <b>explosion</b> , Int. Harvester engine testing and farm tractor bldg., ~Louisville--	7	
1948 --	Mar 26, private <b>Beechcraft 35 Bonanza hits buzzard, crashes</b> , Bardstown, KY	--	5
1951 --	<b>polio</b> , especially July-Nov (KY subset of 1,551-1,555 polio deaths nationwide)	--	21
1952 --	<b>typhoid fever</b> (code 040); 79 US deaths; subset for KY	--	5
1953 --	<b>measles</b> , 483 US deaths, 23 states in double digits; KY subset	--	10
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; KY subset	--	471
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; KY subset	--	421
1955 --	Feb 26-Mar 6, heavy rains; Ohio River Basin <b>flooding</b> ; 15 deaths, subset for KY	--	9
1955 --	<b>influenza</b> ; 2,755 US deaths; KY subset	--	87
1956 --	<b>influenza</b> , 2,323 US deaths; KY subset	--	61
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; KY subset	--	376
1957 --	Jan 27-Feb 2, heavy rain/ <b>flooding</b> , east TN, SW VA, WV, southeast KY subset	--	9
1957 --	Nov, <b>influenza and pneumonia</b> Epidemic (KY subset of ~70,000 U.S. deaths)	--	274
1958 --	<b>influenza</b> ; 4,442 US deaths; KY subset	--	135
1958 --	<b>polio</b> (acute); 255 US deaths; 11 states in double digit deaths; KY	--	9
1959 --	Feb 15, home <b>fire</b> , thought to be from coal cooking stove, Pinson Fork, KY	--	5
1959 --	Oct 15, <b>USAF KC-135 tanker collides</b> with USAF B52F bomber, ~Leitchfield, KY <sup>311</sup> --	8	
1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	--	6-8
1963 --	Jan 18-28, <b>cold wave and snow</b> (315-352 US deaths); subset for KY	--	1-7
1963 --	Apr 23, residential <b>fire</b> , River Park Drive, Louisville, KY	--	7
1964 --	<b>scarlet fever and streptococcal sore throat</b> ; 95 US deaths; KY	--	5
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; KY 3.0	--	94
1968 --	<b>polio</b> ; ICD-8 codes 040-044; 130 US polio deaths; KY	--	5
1971 --	<b>measles</b> /rubeola; ICD-8 code 055; 90 US deaths; KY	--	5
1971 --	Apr 27, <b>tornadoes</b> , especially Mt. Pleasant Church near Columbia (6), KY <sup>312</sup>	--	9
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; KY/0.908--	31	

<sup>311</sup> The B52 bomber, which crashed, had two nuclear bombs onboard.

<sup>312</sup> There was one additional fatality – an elderly female -- in Franklin County, Illinois.

**Kentucky (continued):**

1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; KY 2.5--	88
1977 --	Sep 24, gasoline tanker <b>truck</b> hits buildings/fire, KY Route 11, Beattyville, KY	-- 7
1978 --	summer, esp. <b>excessive natural heat</b> (ICD-8 E900); US death rate 0.12, KY, 0.14--	5
1978 --	Jan 25-27, <b>snow, high wind, deep cold</b> (subset of 143-146 US deaths), KY	-- 8
1978 --	Dec 10, USAF C-130 <b>Hercules plane crash</b> , landing phase, Ft. Campbell, KY	-- 5
1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, KY death rate 0.51	-- 19
1984 --	May 07-10, severe weather, <b>flooding</b> , drownings, Adair, Fayette, Pike, Spencer Co's--	7
1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: KY death rate 0.52	-- 19
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; KY rate 1.00	-- 37
1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, KY rate 0.62	-- 23
1987 --	summer <b>excessive heat</b> , State substate of approximately 388 U.S. heat deaths	-- 8
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; KY, 1.25	-- 46
1988 --	Apr 03, Cox Mfg. Piper <b>plane flies into cloud-shrouded mt.</b> near Middlesboro KY--all	7
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; KY, 2.26	-- 83
1989 --	July 04, home <b>fire</b> , children, locked in house, River Park Drive, Louisville, KY	-- 6
1989 --	Sep 14, assault rifle workplace <b>mass murder</b> (8)/suicide, Louisville, KY	-- 9
1989 --	Sep 15, <b>Beechcraft King Air crash</b> , non-approved AP approach, Mayfield-Graves AP, KY--	6
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; KY rate 0.65	-- 24
1990 --	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; KY rate 0.65	-- 24
1990 --	May 21, <b>Piper 300 takeoff crash end of runway</b> , Capital City Airport, Frankfort, KY--	6
1992 --	July 26, <b>lightning</b> , Waynesburg, Lincoln County, KY	-- 2
1993 --	Mar 12-14, late <b>winter storm</b> (Superstorm of 1993); KY	-- 5
1994 --	<b>influenza</b> , 1,229 US deaths; death rate 0.47 per 100K; KY rate 0.47	-- 18
1994 --	Jan 14-21, <b>extreme cold and snow</b> , KY	-- 6
1996 --	<b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K, KY, 0.31	-- 16
1996 --	Jan 06-07, <b>snow storm</b> (Blizzard of '96); KY	-- 6
1996 --	Mar 07, <b>plane crash</b> , US Army Chinook from Fort Campbell, near Olmstead, KY--	5
1996 --	June 18, Army transport <b>helicopters collide and crash</b> , Fort Campbell, KY	-- 6
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; KY death rate 0.28	-- 11
1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; KY rate 0.38	-- 15
1999 --	summer, <b>excessive natural heat</b> ; subset of 1,050 US heat-related deaths; KY	-- 8
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; KY, 0.470	-- 19
2003 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; KY, 0.437	-- 18
2003 --	Feb 20, <b>resin dust explosions</b> /fire, CTA Acoustics, Corbin, Laurel County, KY	-- 7
2004 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; KY rate 0.289	-- 12
2005 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; KY, 0.502	-- 21
2008 --	Feb 05-06, <b>tornadoes</b> , Muhlenberg (e deaths) and Allen (4 deaths) Counties, KY	-- 7
2009 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; KY, 0.8	-- 35
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; KY rate 2.2	-- 96
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; KY rate 2.3	-- 101
2012 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; KY rate 0.3	-- 14
2012 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100,000; KY, 2.4	-- 106
2013 --	<b>influenza</b> , ICD-10 Codes J09-J11.8; US death rate 1.2 per 100,000; KY rate 1.2	-- 55
2013 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100,000; KY, 2.5	-- 112

2013 -- Mar 09, <b>fire</b> , home (unknown cause), man, woman, 5 children, Gray, KY	--	7
2014 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US & KY death rate 0.8 per 100K	--	35
2014 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; KY, 2.4	--	106
2014 -- Jan 30, <b>fire</b> , home, linked to electric heater, Mom, children, Depoy, KY	--	9
2015 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; KY, 2.1	--	95
2016 -- <b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; KY rate 1.1	--	48
2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; KY rate 1.14	--	51
2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; KY rate 1.21	--	54
2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; KY rate 0.87	--	39
2019 -- Jan 06, <b>drunk driver</b> going wrong way, I-75, hits MI family car, Lexington, KY	--	6
2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; KY 1.27	--	57
2020 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; KY	--	11
2021 -- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; KY death rate 0.80	--	46
2023 -- Mar 30, USA <b>Black Hawk helicopters collide</b> , night training, Cadiz, Trigg Co., KY--	--	9
2023 -- Apr 10, <b>workplace mass shooting</b> , Old National Bank, Louisville, KY	--	5
2024 -- Jan 16-24, <b>winter weather</b> , snow and deep cold, KY	--	5

#### Breakout by Type of **Kentucky** Large-Loss-of-Life Events (10 or more fatalities):

- 235 **Disease**, select communicable. (Plus 81 in “Other.”)
- 37 **Winter Weather**, cold, hypothermia. (Plus 10 events 5-9 deaths each; 1 contributing factor.)
- 32 **Maritime and Inland watercraft**. (Includes KY soldier losses, Sultana boiler explosion.)
- 26 **Heat**. (Plus 4 years 5-13 deaths.)
- 14 **Mining**
- 10 **Tornadoes**. (Plus 3 – 5-8 deaths in 1884, 9 deaths in 1971, and 7 in 2008 in “Other.”)
- 9 **Aviation**. (Plus 10 events noted with 5-9 deaths each.)
- 7 **Flooding**. (Plus 3 <10: 9 deaths in 1955 and 1957; 7 drowning deaths in May 7-10, 1984.)
- 5 **Fire-Structural**. (Plus five – one with 9/2014, two with 7, one with 6, one with 5 deaths.)
- 5 **Vehicular – Road and Highway**. (Plus two events with 6 and 7 deaths.)
- 4 **Violence**. (Plus 2 with 5 and 9 fatalities.)
- 3 **Structural Failures**.
- 2 **Explosions (non-maritime or mining)**. (Plus 2 events noted with 7 deaths each.)
- 2 **Rail**
- 1 **Carbon Monoxide Poisoning**. (13 CO poisoning deaths after 1-28-2009 ice/snowstorm.)
- 1 **Earthquake**.

## LA

## Louisiana

1. 1794 -- Aug 31-Sep 1, **hurricane**, New Orl., Pilottown, Plaquemines, Avoyelles LA<sup>313</sup>-- ~10
2. 1796 -- Late Aug-early Nov, **yellow fever**, New Orleans, LA --250-400
3. 1804 -- **yellow fever**, "major outbreak," New Orleans (no record, just description) -- ≥10
4. 1809 -- **yellow fever**, U.S. military stationed New Orleans vicinity, LA -- ~800
5. 1811 -- **yellow fever** epidemic, New Orleans, LA -- >500
6. 1811 -- Jan, Charles Deslondes **slave rebellion and retaliation**, German Coast, LA -- 101
7. 1812 -- Aug 19-20, **New Orleans Hurricane**, LA -- 100
8. 1817 -- May 04, steamer **Constitution** boiler explosion, MS River, Point Coupee, LA --10-30
9. 1817 -- June 18-Dec, **yellow fever** epidemic, New Orleans, LA --800-823
10. 1818 -- **yellow fever** epidemic, New Orleans, LA -- 115
11. 1819 -- mid-Aug-Jan 1820, **yellow fever** epidemic, New Orleans, LA --2,190
12. 1820 -- **yellow fever** outbreak, New Orleans, LA -- 400
13. 1822 -- **yellow fever**, Baton Rouge (60) and New Orleans (800-2,000), LA --800-2,000
14. 1823 -- July start, Aug epidemic, **yellow fever**, New Orleans, LA -- 239
15. 1824 -- Aug-Sep (especially), **yellow fever** epidemic, New Orleans, LA --108-118
16. 1825 -- **yellow fever** epidemic, New Orleans, LA -- ≥59
17. 1827 -- late summer-fall, **yellow fever** epidemic, New Orleans (also Opelousas) -- ≥112
18. 1828 -- late summer-fall, **yellow fever** epidemic, New Orleans, LA --130-150
19. 1829 -- **yellow fever** epidemic, especially New Orleans, LA -- ~900
20. 1830 -- late July-Oct, **yellow fever** epidemic, New Orleans, (also Donaldson), LA -- 132
21. 1832 -- **yellow fever** epidemic, New Orleans, LA -- 400
22. 1832 -- Oct-Nov, **cholera** epidemic, especially New Orleans, LA --4,700-6,000
23. 1833 -- **cholera**, esp. New Orleans (~1,000),<sup>314</sup> plantation slaves, Alexandria... -->2,370
24. 1833 -- early Aug-Early Nov, **yellow fever** epidemic, New Orleans, LA --1,000
25. 1833 -- May 19, **St. Lioness** fire/gunpowder explosion, Red River, Montgomery, LA --14-16
26. 1833 -- June 7, steamer **Peruvian** boiler explosion, MS River, ~New Orleans LA<sup>315</sup> --50-60
27. 1833 -- Oct 31, steamer **St. Martin** burns, Mississippi River, Donaldsonville, LA --30-40
28. 1833 -- Nov, steamship **Caspian** burns, near Mouth of Red River, LA --25-40
29. 1834 -- summer to late fall, **yellow fever** epidemic, New Orleans, LA -- 95
30. 1834 -- Oct 24, **Missouri Belle** sinks, collision (**Boonslick**), near Kenner & N.O., LA -- 30
31. 1835 -- Aug-Sep, **yellow fever** epidemic, New Orleans, LA --284-289
32. 1835 -- ~Apr 24-May 09, **cholera**, New Orleans, LA --140-150
33. 1835 -- May 14, Planters' Hotel **structural collapse**, New Orleans, LA -- ≥10
34. 1835 -- Oct 1, steamer **Carrollton** explosion, Baton Rouge, LA -- 8-15
35. 1837 -- Aug-early Nov, **yellow fever** epidemic, New Orleans, LA --1,300
36. 1837 -- Oct 31, **Monmouth** collision, Creeks drown, MS Riv., Prophet Isl. Bend, LA--230-400
37. 1837 -- Dec 27, **Black Hawk** boiler explosion/fire, Miss. River, Black Hawk Pt., LA --30-50
38. 1838 -- late summer-fall, **yellow fever** outbreak, New Orleans, LA -- ≥17

<sup>313</sup> This is out guesstimate of fatalities based upon statement that "many lives...perished in the storm."

<sup>314</sup> John H. Ellis writes that "In New Orleans epidemics of...[cholera and yellow fever] during 1832 and 1833 claimed nearly 10,000 victims in a population of approximately 50,000." (*Yellow Fever & Public Health*, 1992, 30.)

<sup>315</sup> One report states that there was a boiler explosion above New Orleans, another that it happened in Natchez MS, one which does not indicate location other than MS River between New Orleans and Louisville, and one which states that the explosion did not occur.



### Louisiana (continued):

39. 1839 -- May 06, **George Collier** steam escapes, Miss. River at Red River mouth, LA --26-30
40. 1839 -- Late June-Oct, **yellow fever**, esp. New Orleans (800), LA<sup>316</sup> --999-1,002
41. 1840 -- May 07, **tornado**, Concordia and LA Plantations --Hundreds
42. 1841 -- Feb 22, steamer **Creole** fire, Mississippi River, Torras, ~Red River Mouth, LA-12-36
43. 1841 -- Aug-Oct, **yellow fever**, especially New Orleans (~1,800), LA --2,152
44. 1841 -- Aug 12, steamer **Louisiana** boiler explosion, Miss. River, ~Bayou Sara, LA --20-23
45. 1842 -- Feb 19, steam towboat **Mohican** boiler explosion, MS Riv., New Orleans, LA --10-14
46. 1842 -- July 30 start, **yellow fever**, New Orleans, LA -- 211
47. 1843 -- July 05-late Oct, **yellow fever** epidemic, New Orleans, LA --487-700
48. 1843 -- Sep 19, steamboat **Clipper No. 1** boiler explosion, MS River, Bayou Sara, LA --30-40
49. 1844 -- Mar 01, boats collide, **Buckeye & De Soto**, Miss. River, near Atchafalaya, LA- 50-80
50. 1844 -- July-Sep, **yellow fever** epidemic, New Orleans, LA -- 148
51. 1845 -- July 01, steamboat **Marquette** boiler explosion, New Orleans, LA --17-30
52. 1846 -- **yellow fever** epidemic, especially New Orleans, LA --146-160
53. 1846 -- Sep 05, steamer **New York** founders, storm, ~60 miles off Cameron, LA -- 20
54. 1847 -- **typhus**, New Orleans, LA -- 154
55. 1847 -- Jan 21, tug **Phoenix** boiler explosion; *Phoenix/Manchester* deaths; Head of Passes, LA--18
56. 1847 -- June 04 or 05, steamer **Edna** boiler explosion, Ouachita Riv. Columbia, LA --20-25
57. 1847 -- June 29, **Star Spangled Banner** snags/sinks, MS Riv. Thomas's Pt., ~Baton Rouge, LA-- 20
58. 1847 -- June-Dec, **yellow fever** epidemic, New Orleans, also Lafayette, LA<sup>317</sup> --~3,000
59. 1847 -- Dec 20, steamer **Westwood** hits bank in fog, boilers explode, below New Orleans LA- 12-15
60. 1848 -- **typhus**, New Orleans, LA -- 372
61. 1848 -- Dec, **cholera** epidemic, New Orleans, LA -- 924
62. 1848 -- Jan 18, steamboat **Yalobusha** burns, Mississippi River, Donaldsonville, LA -- 35
63. 1848 -- June-Nov, **yellow fever** epidemic, New Orleans, LA --850-872
64. 1848 -- Sep 17, steamer **Concordia**, flue/boiler explosion, Miss. Riv., Plaquemine LA --28-29
65. 1848 -- Oct 06, steamer **Piney Woods** burns, near Springfield, LA --15-16
66. 1849 -- **cholera** epidemic, primarily New Orleans; also Lafourche Parish, LA --2,791-3,577
67. 1849 -- Mar 03, steamer **Woodsman** [?] Mississippi River, Bayou Sara, LA -- 3-16
68. 1849 -- Summer-Fall, **heat and sunstroke**; subset of 248 such deaths 31 States -- 25
69. 1849 -- Aug-Dec, **yellow fever** Epidemic, New Orleans, LA --737-769
70. 1849 -- Nov 15, steamboat **Louisiana** boilers explode, sinks, New Orleans, LA --86-150
71. 1850 -- **cholera** epidemic, multiple locations, but especially New Orleans, LA --2,181
72. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 11,956 LA deaths -- 142
73. 1850 -- **yellow fever**, July-Oct, New Orleans, LA -- 107
74. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 176
75. 1850 -- Dec 13, steamer-tug **Anglo-Norman** boiler explosion, ~New Orleans, LA --20-100
76. 1850 -- Dec 17, steamboat **Knoxville** boiler explosion, New Orleans, LA --12-20
77. 1850 -- Dec 17, steamboat **South America** burns, Miss. River, Morgan's Bend, LA --27-30
78. 1851 -- **cholera** (430); **yellow fever** (16), New Orleans, Cholera, Lafourche Parish -- 489
79. 1851 -- **typhus**, New Orleans, LA -- 228
80. 1851 -- Feb 09, **Autocrat** sinks (*Magnolia* collision) MS River, Bayou Goula Bend, LA-- ~30

<sup>316</sup> Also Donaldsonville, Franklin, New Iberia, Opelousas, Plaquemines, Port Hudson, Thibodaux and Waterloo.

<sup>317</sup> Dates pertain to first and last deaths. The epidemic period was late July-Sep, with September the deadliest.

**Louisiana (continued):**

81. 1851 -- Sep 29, steamboat **Brilliant** boiler explosion, Miss. River, Bayou Goula, LA--27-100  
82. 1852 -- **cholera**, New Orleans, LA --1,080-1,320  
83. 1852 -- July-Dec, **yellow fever**, New Orleans, LA -- 415  
84. 1852 -- July 05, steamboat **St. James** boiler explosion, burns, Lake Pontchartrain, LA --38-40  
85. 1853 -- **cholera** outbreak, New Orleans, LA --568-585  
86. 1853 -- May-Dec, **yellow fever** epidemic, particularly New Orleans, LA<sup>318</sup> --14,602-15,363  
87. 1854 -- Jan 28, steamboat **Georgia** fire (boiler explosion?), Lake Pontchartrain, LA --25-60  
88. 1854 -- Mar 09, steamer **John L. Avery** snags/sinks, Miss. Riv., Black Hawk Bend, LA-30-90  
89. 1854 -- May-July, **cholera** outbreak, esp. New Orleans, and on plantations, LA -- >227  
90. 1854 -- July-Dec, **yellow fever** epidemic, esp. New Orleans, LA ~2,500  
91. 1855 -- **cholera** outbreak, especially Bayou Lafourche and New Orleans/883, LA -- 916  
92. 1855 -- Mar 23, steamboat **Bulletin No. 2** burns, Miss. River, Alsatia-Salem Bend, LA-- 23  
93. 1855 -- June-Oct, **yellow fever**, esp. New Orleans (2,670), multiple locations, LA --2,688  
94. 1856 -- **yellow fever**, New Orleans, LA -- 74  
95. 1856 -- Aug 10-11, **Hurricane** Isle Derniere (Last Island), LA (**Nautilus, Ellen** lost)--264-338  
96. 1856 -- Aug 16~, ship **Manila** “lost” off Timbalier Island, LA -- 10  
97. 1857 -- **yellow fever** outbreak, New Orleans, LA -- 199  
98. 1857 -- Nov 15, steamboats collide, **Opelousas** sinks, Gulf of MX, LA coast ~Berwick Bay LA--18  
99. 1858 -- June-Oct 10, **yellow fever** epidemic, New Orleans, LA --4,855  
100. 1859 -- **yellow fever** outbreak, New Orleans, LA -- 91  
101. 1859 -- Feb 27, steamer **Princess** boiler explosion/fire, MS River, ~Baton Rouge, LA-- 70  
102. 1860 -- **measles** (LA subset of 3,900 measles deaths nationwide) -- 216  
103. 1860 -- **scarlet fever** (LA subset of 26,402 deaths in 38 Census States & DC) -- 407  
104. 1860 -- **smallpox** (LA subset of 1,263-1,271 smallpox deaths in reporting States) -- 16  
105. 1860 -- **whooping cough** (LA subset of 8,408 whooping cough deaths nationwide) -- 320  
106. 1860 -- Aug 11, **hurricane**, LA -- 47  
107. 1860 -- Sep 21, building falls during **fire** and **explosion** (alcohol), New Orleans, LA-- 15  
108. 1860 -- Oct 31, steamer **H.R.W. Hill** boiler explosion, Miss. Riv., Baton Rouge, LA-- 39  
109. 1861 -- Feb 28, steamer **Corrine** explosion, McDonoghville, across from NOLA, LA-- 15  
1862 -- Oct 08, steamer **Ceres**, explosion, St. Joseph Island, LA<sup>319</sup> -- 12  
110. 1862 -- Nov 7, **ammunition explosion, train car**, ~Lafourche station, Algiers, LA<sup>320</sup>-- ~11  
111. 1863 -- Apr 14, **Queen of the West** magazine explos., fire from shelling, Grand Lake LA--26  
112. 1863 -- Aug 4, **Massacre**, Confederates kill captured Union black soldiers, Jackson, LA-23  
113. 1863 -- Sep 28, steamboat **Robert Campbell Jr.** burns, MS River, Milliken’s Bend, LA-- 22  
114. 1864 -- **yellow fever** outbreak, New Orleans, LA -- 57  
115. 1865 -- **smallpox**, New Orleans (up to March 26) -- ≥35  
116. 1865 -- Jun 09, steamboat **Kentucky** snags & sinks, Red River, below Shreveport LA--50-75  
117. 1865 -- Sep 13, **hurricane**, Cameron, LA landfall -- 25

<sup>318</sup> Also deadly in twenty-five other Parishes, particularly St. James, Caddo, East Baton Rouge, Carroll.

<sup>319</sup> Though several sources note this loss as in Louisiana waters, the St. Joseph Island lighthouse, where the explosion is reported to have occurred just off-of (coast side, not Gulf side), was in the Mississippi Sound, and is identified by maps and listings of lighthouses by States, as is MS waters, not LA waters. Thus, we do not include as a LA event, but rather as a Mississippi event. Note here only to show we are aware of reports as to an LA event.

<sup>320</sup> Today a section of New Orleans, annexed to the city as the 15<sup>th</sup> Ward in 1870.

**Louisiana (continued):**

118. 1866 -- July 12-Dec, **cholera** epidemic, New Orleans, LA --1,294-1,875
119. 1866 -- Aug-Nov, **yellow fever** outbreak, New Orleans, LA -- 185
120. 1866 -- July 30, racial/political "**riots**", Blacks seeking rights, New Orleans LA --38-48
121. 1866 -- Dec 27, steamer **Fashion** burns, Miss. Riv., 7-12M above Baton Rouge, LA-- 43
122. 1867 -- July-Nov, **yellow fever**, esp. New Orleans/3,320 and Shreveport/124, LA --3,593
123. 1867 -- May 04, steamer **Main** capsized in storm on Lake Pontchartrain, LA -- 10
124. 1867 -- June-Dec, **cholera** epidemic, New Orleans, US Army LA -- 575
125. 1867 -- Dec 31, steamer **Henry Ames** guards fail while unloading, New Orleans LA -- ~20
126. 1868 -- Sep 28, Opelousas **Massacre** begins (racial/political), St. Landry Parish, LA --150-300
127. 1869 -- Jan 13, steamer **Glide** boiler explosion/fire, MS Riv. ~57m above New Orleans, LA-15-16
128. 1870 -- **diarrhoea** (509), **dysentery** (336), **enteritis** (294); data from U.S. Census --1,139
129. 1870 -- **measles** (LA subset of 9,237 measles deaths nationwide) -- 375
130. 1870 -- **tuberculosis** (Consumption) (LA subset of ~70,000 TB deaths nationwide) --1,408
131. 1870 -- **typhoid fever** (LA subset of 22,187 typhoid fever deaths nationwide) -- 449
132. 1870 -- **typhus** (LA subset of 1,770 typhus deaths nationwide) -- 50
133. 1870 -- **whooping cough** (LA subset of 9,008 whooping cough deaths nationwide) -- 420
134. 1870 -- May 10 start, **yellow fever**, esp. New Orleans/588, St. Landry/10 -- ~609
135. 1871 -- July 30-Dec 18, **yellow fever**, New Orleans/54-55, Vidalia/30 --84-85
136. 1872 -- July 11-Nov 19, **yellow fever** outbreak, New Orleans, LA --39-40
137. 1873 -- Feb-July, **cholera** epidemic, Monroe, Thibodeaux, esp. NOLA/~300 etc. --420-488
138. 1873 -- July 4-Nov 19, **yellow fever**, esp. New Orleans/226, Shreveport/~760 --983-1,107
139. 1873 -- Apr 13, **racial and political violence**, Colfax, Louisiana --67-105
140. 1874 -- **yellow fever**, New Orleans, LA -- 17
141. 1874 -- Apr 15, **tow boat capsizes**, Mississippi River, below New Orleans, LA -- 13
142. 1874 -- Aug 30, racial/political **Coushatta Massacre**, Coushatta to Shreveport, LA --10-26
143. 1874 -- Sep 14, White League vs. Republican **Race/Politics Battle**, New Orleans --27-38
144. 1875 -- Apr 23, steamers **Exporter, Charles Bodman, Kyle** burn, New Orleans, LA -- 30
145. 1876 -- **yellow fever** outbreak, Sep 3-Oct 13, New Orleans, LA -- 35
146. 1877 -- **smallpox**, New Orleans, LA --1,100
147. 1878 -- May 25-Dec 12, **yellow fever**, over 50 locations, esp. New Orleans --5,691-6,488
148. 1878 -- Dec 1, **Cotton Valley/Charles Morgan** collide, MS Ri., ~Bringier Point, LA- 12-20
149. 1879 -- June-May 1880, **malarial fever**, (LA subset, 20,231 such deaths U.S.) -- 618
150. 1879 -- Mid-June-Dec, **yellow fever**, approximately 20 locations, LA -- 163
151. 1880 -- Aug 09, steamer **Bonnie Lee** boiler explosion, Lenoir Pt., Red River, LA -- 9-10
152. 1882 -- **smallpox**, New Orleans (415), and Baton Rouge (2), LA -- 417
153. 1882 -- July 16, steamer **John Wilson** snags/sinks, Atchafalaya Riv., Richards Landing, LA--15
154. 1882 -- Sep 30, steamboat **Rob't. E. Lee** burns, Miss. River, Yucatan Landing, LA --22-30
155. 1882 -- Dec 6, steamer **Morning Star** flue collapse/boiler bursts, MS Riv., below N.O., LA-15-17
156. 1883 -- Jan-Aug, **smallpox**, especially New Orleans (≥834) --1,180
157. 1883 -- Mar 04, steamer **Yazoo Valley** hits log/sinks, MS Riv., ~Bonnet Carre Crev., LA-20
158. 1884 -- Nov 01, political **riot**, Loreauville, Iberia Parish, LA -- ≥18
159. 1886 -- Oct 11, **hurricane**, especially Cameron Parish, LA -- 50
160. 1886 -- Dec 13, steamer **J.M. White** fire, MS Riv., Blue Store Lndg. ~Pt. Coupee, LA-28-40

**Louisiana (continued):**

161. 1887 -- Nov 23-25, **violence**, **racial/labor**, striking sugarcane workers, Thibodaux LA<sup>321</sup>30->50
162. 1888 -- Aug 16, racial **violence**, White Regulators attack Blacks, Freetown, LA --10-21
163. 1888 -- Dec 24, steamer **John H. Hanna** burns, Mississippi River, Plaquemine, LA --21-25
164. 1889 -- Jan 05, steamer **Paris C. Brown** snags and sinks, Hermitage Landing, LA -- 8-11
165. 1889 -- Oct 03, steamer **Corona** boiler explosion, Mississippi Riv., False River, LA --38-46
166. 1889 -- June-May 1890, **measles**, subset of 9,256 US measles deaths -- 239
167. 1891 -- Mar 14, violence, **mob** enters jail, **kills** Italian **prisoners**, New Orleans LA -- 11
168. 1891 -- July 06, **tornado**, West Baton Rouge/East Baton Rouge, LA -- 11
169. 1893 -- Oct 01-02, **hurricane**, Cheniere Caminada, LA --1,568-2,000
170. 1895 -- Mar 09-May 18, **smallpox** outbreak, New Orleans, LA -- 11
171. 1896 -- **smallpox**, New Orleans (238), Shreveport (11), LA -- 249
172. 1897 -- **typhoid fever**, subset of >9,192 US typhoid deaths, New Orleans (127), LA-- 131
173. 1897 -- July 04-10, **heat** (608-616 US Heat deaths), New Orleans, LA -- 15
174. 1897 -- Sep 04-Dec 25, **yellow fever** outbreak, especially New Orleans (298), LA -- 301
175. 1898 -- Aug 23-Oct 25, **yellow fever**, LA, especially New Orleans (57) -- 93
176. 1899 -- Sep 02-Dec 09, **yellow fever**, New Orleans -- 23
177. 1900 -- **dysentery** (subset of 11,710 US dysentery deaths in 1900) -- 385
178. 1900 -- exposure to **excessive natural heat**, coded "sunstroke" in some Census docs.-- 39
179. 1900 -- **malarial fever** (14,874 US malarial fever deaths; 3<sup>rd</sup> highest state loss --1,030
180. 1900 -- **measles** (subset of 12,866 US measles deaths) -- 526
181. 1900 -- **smallpox** (subset, 8,484 US smallpox deaths; 2<sup>nd</sup> highest loss in any state) -- 708
182. 1900 -- **typhoid fever** (LA subset of 35,379 typhoid fever deaths nationwide) --1,077
183. 1900 -- July 24-27, **anti-black riots** (re. Robert Charles shootings), New Orleans<sup>322</sup> -- ~12
184. 1901 -- **smallpox**, New Orleans, LA -- 52
185. 1901 -- Oct 27, **race riot**, Balltown, Washington Parish, LA -- 9-18
186. 1902 -- Mar 12, storm, steamer **Providence** grounds, Davis Bend, LA -- 19
187. 1903 -- Nov 14, **trains collide** and burn, Illinois Central RR, near Kentwood, LA --30-40
188. 1905 -- **tuberculosis**, New Orleans; subset, 56,770 census deaths (10 states/135 cities)<sup>323</sup>-- 980
189. 1905 -- July-Oct (mostly), **yellow fever**, esp. New Orleans (455), Patterson (52) -- 988
190. 1906 -- Dec 19, steamer **W.T. Scovell** boiler explodes, ~Vicksburg, Gold Dust Lndg. LA-13-16
191. 1907 -- Apr 05, **tornado**, West Feliciana/East Feliciana, LA -- 13
192. 1907 -- **tuberculosis of the lungs**; subset of 76,650 US TB deaths, New Orleans, LA-- 969
193. 1908 -- Apr 24, **tornadoes** (2), Livingston, St. Helena, Tangipahoa, other Parishes -- 85
194. 1908 -- May 13, **tornado outbreak**, Caddo, Bossier, & 5 other Counties, LA -- 50
195. 1908 -- Nov 21, steamer **H.M. Carter** boiler explosion/fire, MS Riv., Bayou Goula, LA-10-11
196. 1909 -- June 06, **ship** hits wharf, collapses, Mandeville, Lake Pontchartrain LA -- 11
197. 1909 -- Sep 20-21, **hurricane**, especially Terrebonne Parish, LA -- ~300
198. 1910 -- **typhoid**; subset, 12,673 US deaths/21 states/death rate 23.5; New Orleans, LA--107
199. 1912 -- Feb 20, **tornadoes** (2), Caddo, Bossier, Claiborne Counties, LA -- 12
200. 1912 -- Feb 29, steamer **J.E. Trudeau** burns, Belle River, LA -- 10
201. 1912 -- May 06-08 esp. **levee-breaks/flooding**, esp. Pointe Coupee Parish, LA -- >59

<sup>321</sup> There were unconfirmed reports of up to 300 fatalities.

<sup>322</sup> This is an estimate of blacks killed by mobs, and does not include the 7 Robert Charles-related deaths, nor his.

<sup>323</sup> New Orleans, with TB death rate of 315.5 per 100K pop., had 2<sup>nd</sup> highest large city rate; Census avg. was 168.2.



**Louisiana (continued):**

202.	1912 -- Nov 11, <b>trains collide</b> , Yazoo & Mississippi Valley Railroad, Montz, LA	-- 15
203.	1913 -- late April, <b>flooding</b> from Ohio and Mississippi River flooding, <b>levee break</b>	-- 11
204.	1913 -- May 02, steamer <b>Concordia</b> hits RR bridge, sinks, Tensas River, Clayton, LA	-- 22
205.	1913 -- Oct 23, <b>thundersqualls</b> , severe local storms, <b>Tornado</b> , southern LA	-- ~11
206.	1915 -- Sep 29-Oct 1, <b>hurricane</b> , coastal LA, esp. La Branche and New Orleans	--183-275
207.	1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; four cities <sup>324</sup>	--155
208.	1918 -- <b>typhoid fever</b> (LA subset of 9,100 U.S. Typhoid Fever deaths)	-- 691
209.	1918 -- Mar 19, tug <b>W. A. Bisso</b> , sinks in collision near New Orleans, LA	-- 13
210.	1918 -- Aug 06-07, <b>Hurricane One</b> , 1918 Season, Southwest LA	-- 34
211.	1918 -- Sep-Apr 1919, <b>influenza and pneumonia</b> epidemic, esp. greater NOLA	--11,021
	1918 -- Sep-Dec, <b>influenza/pneumonia</b> epidemic, esp. greater New Orleans, LA	--7,711
	1919 -- Jan-Apr, <b>influenza/pneumonia</b> epidemic, esp. greater New Orleans, LA	--3,310
212.	1919 -- Nov 22, stove <b>explosion/fire/crushing</b> , dance hall/Store, Ville Platte, LA	--25-28
213.	1920 -- <b>influenza and pneumonia</b> , especially greater New Orleans, LA	--1,869
214.	1920 -- <b>malaria</b> , LA subset, 2 <sup>nd</sup> highest, 3,136 malaria deaths, 34 registration states	-- 586
215.	1920 -- <b>smallpox</b> (LA subset of 508 smallpox deaths in 34 registration states) <sup>325</sup>	-- 167
216.	1920 -- <b>typhoid fever</b> (LA subset, 6,805 typhoid fever deaths in 34 Census states)	-- 280
217.	1923 -- Apr 04, <b>tornado</b> , Rapides County, LA	-- 15
218.	1925 -- <b>diphtheria</b> (LA subset, 8,058 US diphtheria deaths)	-- 213
219.	1925 -- <b>dysentery</b> (LA subset, 3 <sup>rd</sup> highest of 3,257 US dysentery deaths)	-- 211
220.	1925 -- <b>excessive heat</b> (LA subset of 1,587 US excessive heat deaths; US Census Bur.	-- 11
221.	1925 -- <b>influenza</b> (LA subset, 30,538 US influenza deaths)	-- 967
222.	1925 -- <b>malaria</b> (LA subset, 2,132 US malaria deaths; 4 <sup>th</sup> highest state malaria loss)	-- 256
223.	1925 -- <b>tuberculosis</b> (LA subset, 89,268 US tuberculosis deaths)	--2,110
224.	1925 -- <b>typhoid/paratyphoid fever</b> , LA subset (3 <sup>rd</sup> highest), 8,287 US Typhoid deaths)	-- 649
225.	1925 -- <b>whooping cough</b> (subset, 6,948 US whooping cough deaths), LA	-- 213
226.	1925 -- Mar 22, <b>trains collide</b> , Ricohoc, LA	-- 11
227.	1926 -- Apr 08, <b>Silvanns</b> and <b>Thomas H. Wheeler</b> collide, Pointe A La Hache, LA	-- 35
228.	1926 -- Aug 25-26, <b>hurricane 3</b> , east coast of Louisiana moving into central LA	-- 25
229.	1926 -- Nov 25, <b>tornado</b> , Sabine/Natchitoches/Red River, LA	-- 12
230.	1927 -- Feb 17, <b>tornadoes</b> , Sabine/Natchitoches/Red River, Tensas, LA	-- 27
231.	1927 -- Apr-May, <b>flooding</b> , <b>levee breaks</b> , drownings, Miss. River and Tributaries	-- 27
232.	1927 -- July 08, <b>boat</b> overturns with Miss. River <b>flood</b> evacuees, Port Barre, LA	-- 11
233.	1931 -- <b>diphtheria</b> , especially children (subset, 5,738 U.S. diphtheria deaths); LA	-- 135
234.	1931 -- <b>influenza</b> (subset of 31,701 US influenza deaths); LA	-- 928
235.	1931 -- <b>malaria</b> (subset, 2,536 malaria deaths nationwide); LA	-- 139
236.	1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths; LA	--1,712
237.	1931 -- <b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; LA, 5.9	-- 126
238.	1931 -- summer, <b>excessive natural heat</b> (subset, 2,768 U.S. deaths); LA	-- 12
239.	1933 -- Mar 30-31, <b>tornado outbreak</b> , esp. Red River Parish; also 5 other parishes	-- 11
240.	1933 -- May 01, <b>tornadoes</b> (2), Webster/Bienville/Claiborne, LA	-- 34
241.	1934 -- summer, <b>excessive natural heat</b> ; subset of 3,250 US heat deaths; LA	-- 15

<sup>324</sup> Alexandria, Baton Rouge (119.7 death rate, 21 deaths), Lake Charles, New Orleans (29.7 death rate, 112 deaths).

<sup>325</sup> LA led nation in smallpox deaths, followed by MS with 45 deaths. New Orleans had 134 smallpox deaths.

**Louisiana (continued):**

242. 1935 -- Apr 06, **tornado**, Wilkinson/Amite, MS; St. Helena, LA -- 14
243. 1938 -- Feb 17, **tornado**, Cass County, TX; Caddo County, LA -- 21
244. 1939 -- **diphtheria**, esp. Jan-Mar, Sep-Dec (LA subset, 1,997 U.S. diphtheria deaths)-- 67
245. 1939 -- **malaria** (LA subset of 1,761 malaria deaths nationwide) -- 111
246. 1939 -- **tuberculosis** (LA subset of 61,609 tuberculosis deaths nationwide) --1,285
247. 1939 -- **whooping cough** (LA subset of 3,026 whooping cough deaths nationwide) -- 110
248. 1939 -- **influenza & pneumonia** (subset, 99,097 US influenza/pneumonia deaths); LA --2,359
249. 1939 -- summer, **excessive heat** (subset of 527-1,073 heat deaths nationwide) -- 15
250. 1940 -- **influenza & pneumonia** (LA subset of 92,525 US flu/pneumonia deaths) --2,525
251. 1940 -- **malaria** (LA subset of 1,442 U.S. malaria deaths) -- 87
252. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); LA death rate 29.1 -- 691
253. 1940 -- **tuberculosis**; LA subset of 55,576 tuberculosis deaths nationwide --1,318
254. 1940 -- **whooping cough**; 2926 US WC deaths/death rate 2.2 per 100K, LA, 6.3 -- 150
255. 1940 -- Mar 12, **tornado**, Harrison, TX; Caddo/Bossier, LA -- 10
256. 1942 -- May 12, US tanker **Virginia** sunk by sub. 1.5m off Southwest Pass, MS Riv., LA-- 27
257. 1942 -- May 13, US tanker **Gulfpenn** sunk by U-boat ~30M south of MS Riv. mouth, LA-- 13
258. 1942 -- May 14, US tanker **David McKelvey** torpedoed ~35M south of MS Riv. mouth, LA- 17
259. 1942 -- May 16, US tanker **William C. McTarnahan** torpedoed SW of Port Fourchon, LA-18
260. 1942 -- May 19, US freighter **Heredia** sunk by U-boat 2M SE of Ship Shoal Buoy, LA--35-36
261. 1942 -- May 20, US tanker **Halo** sunk by U-boat ~15M south of Port Fourchon, LA -- 39
262. 1942 -- June 12, tanker **Cities Service Toledo** sunk by U-boat, Gulf, so. of Marsh Isl., LA-15
263. 1942 -- June 23, US tanker **Rawleigh Warner** sunk by U-boat south of East Bay, LA--all 33
264. 1942 -- July 9, anchored US tanker **Benjamin Brewster** torpedoed ~2.5M off Grand Isle, LA-25
265. 1942 -- July 13, US tanker **R.W. Gallagher** sunk by U-boat, Gulf, SE of Morgan City, LA-10-11
266. 1942 -- July 30, passenger ship **Robert E. Lee** sunk by sub ~50m SE MS. Riv. entrance, LA-- 25
267. 1944 -- **measles**, especially Jan-June (LA subset, 1,923 measles deaths nationwide) -- 59
268. 1944 -- **tuberculosis** (LA subset of 54,731 tuberculosis deaths nationwide) --1,158
269. 1944 -- Jan 24, **planes collide** mid-air, USAAF C-60 & AT-7, ~Farmersville, LA -- 10
270. 1944 -- Mar 03, USAAF B26 **planes collide**, near Barksdale Field, Shreveport, LA -- 12
271. 1944 -- Oct 24, **plane crash**, USAAF B-29, near Barksdale Field, Shreveport, LA -- 11
272. 1945 -- Mar 03, **USAAF B-17** too-low plane crash in heavy rain, near Winnfield, LA-- 11
273. 1945 -- Mar 10, **USAAF B-29 engine failure/emerg. lndg. crash**, Alexandria AAF, LA--10
274. 1945 -- May 06, two **USAAF B-17 bombers collide**, near Esler Field, Alexandria LA-- 18  
 --9 **Boeing B-17F Fortress** #42-5355  
 --9 **Boeing B-17G Fortress** #42-31948
275. 1947 -- Sep 17-19, **hurricane**, LA -- 12
276. 1947 -- Dec 31, LA-AR **tornado**, esp. Cotton Valley, LA/14, elsewhere LA/4 and AR/1--18
277. 1950 -- Feb 12, **tornadoes**, esp. Castor area, Slack AFB, Grand Cane are, Sligo, LA-- 25
278. 1951 -- **polio**, especially July-Nov; 1,551-1,555 US polio deaths; subset for LA -- 33
279. 1951 -- **tuberculosis** (respiratory), 31,163 US deaths, subset for LA -- 643
280. 1951 -- **whooping cough**; 960 US deaths; subset for LA (8<sup>th</sup> highest US state loss) -- 40
281. 1952 -- **whooping cough** (pertussis); 406 US deaths; LA (7<sup>th</sup> highest US state loss) -- 17
282. 1954 -- **dysentery**, infectious, all forms (codes 045-048), 655 US deaths; LA subset -- 20
283. 1954 -- Jan 10, **Union Producing Co.** duck hunting **plane icing crash**, no. shore Wallace Lake LA--12

**Louisiana (continued):**

284.	1955 --	<b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); LA subset	--	12
285.	1955 --	<b>whooping cough</b> /pertussis, 476 US deaths/15 states in double digits; LA	--	19
286.	1956 --	<b>measles</b> , 530 US deaths/21 states in double digits; LA 17 <sup>th</sup> high US state loss--		15
287.	1956 --	<b>polio</b> /acute, 566 US deaths/15 states in double-digits; LA 7 <sup>th</sup> high US state toll--		21
288.	1956 --	<b>whooping cough</b> /pertussis, 266 US deaths; 8 states double digit deaths, LA subset--		10
289.	1956 --	Jan 17, SS <b>Salem Maritime</b> explosion/fire, loading kerosene at Rose Bluff terminal, LA--		21
290.	1957 --	<b>measles</b> ; 389 US deaths; 15 states double digit deaths; LA subset	--	12
291.	1957 --	June 27, <b>Hurricane Audrey</b> , Cameron Parish, LA	--	526
292.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--	1,213
293.	1958 --	<b>measles</b> ; 552 US deaths; 23 States in double digits, including LA	--	12
294.	1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; LA subset	--	281
295.	1959 --	<b>whooping cough</b> (pertussis); 269 US deaths, especially children; LA subset	--	13
296.	1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; LA death rate 4.9	--	159
297.	1960 --	<b>measles</b> , especially children; 380 US deaths; LA	--	21
298.	1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; LA death rate 8.5	--	277
299.	1960 --	Oct 22, SS <b>Alcoa Corsair</b> (10) & MV <b>Lorenzo Marcello</b> collide, MS Riv. mouth LA--		10
300.	1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; LA death rate 7.2	--	238
301.	1962 --	<b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population, LA 0.5	--	16
302.	1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; LA 7.3	--	243
303.	1962 --	Oct 20, collision/fire, <b>Boheme</b> & barge <b>Parker</b> , Miss. River ~Lutcher, LA	--	20
304.	1963 --	<b>dysentery</b> ; 294 US deaths/death rate 0.2 per 100K pop.; LA death rate 0.4	--	12
305.	1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; LA death rate 6.5--		222
306.	1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; LA death rate 6.0	--	209
307.	1964 --	Feb 25, <b>plane crash</b> , Eastern Air Lines flight 304, Lake Pontchartrain, LA	--	58
308.	1964 --	June 30, drilling barge <b>C.P. Baker</b> blowout/explos./fire, Gulf of Mex. off LA <sup>326</sup> --		22
309.	1964 --	Oct 03-04, <b>Hurricane/Tropical Storm Hilda</b> and tornadoes, LA	--	39
310.	1964 --	Oct 03, <b>tornado</b> (spawned by Hilda), Larose, Lafourche Parish, LA <sup>327</sup>	--	24
311.	1965 --	<b>measles</b> , 276 US deaths/death rate 0.1 per 100,000, LA death rate 0.5	--	16
312.	1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; LA death rate 4.9	--	173
313.	1965 --	Mar 04, <b>explosion/Fire</b> , natural gas pipeline, residential Natchitoches, LA	--	17
314.	1965 --	Aug 28, timber <b>truck</b> hits stopped Greyhound bus, Hwy 90 near Vinton, LA--		11
315.	1965 --	Sep 07-10, <b>Hurricane Betsy</b> , LA, especially southeast	--	81-87
316.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; LA--		35
317.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; above US average subset for LA	--	180
318.	1966 --	Oct 08, Petroleum <b>Helicopter</b> rotor failure/ <b>crash</b> into Gulf ~Morgan City, LA--all		11
319.	1967 --	Mar 30, Delta Air 9877 training <b>plane crash</b> into motel complex, Kenner, LA--		19
320.	1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; LA 3.7--		133
321.	1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; LA death rate 3.94--		141
322.	1968 --	Mar 06, Cargill Salt <b>Mine</b> shaft fire, CO asphyxiation, Belle Isle, LA	--	21
323.	1968 --	Mar 16, collision, <b>SS African Star</b> & barge <b>Intercity No. 11</b> , MS River, LA	--	21
324.	1968 --	Dec 7, USCG <b>White Alder</b> sinks, collision with SS <b>Helena</b> , Head of Passes, MS Riv., LA-17		
325.	1969 --	<b>excessive natural heat</b> , ICD-8 code E900; 271 US deaths; LA	--	15

<sup>326</sup> Was a Louisiana owned and operated vessel, and 19 of the 22 crew lost lived in Louisiana.

<sup>327</sup> Also included in Hurricane Hilda fatality count of 42.

**Louisiana (continued):**

326.	1969 --	tuberculosis	; 5,567 US deaths/death rate 2.76 per 100K; LA 3.96	--	143
327.	1969 --	Mar 20, plane crash	, Avion Charter, fog, fire, New Orleans Int. AP, LA	--	16
328.	1969 --	Apr 06, collision, S.S. Union Faith & barge	, MS River, New Orleans, LA	--	25
329.	1970 --	influenza	; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; LA 2.8--	101	
330.	1970 --	tuberculosis	; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; LA 3.4--	123	
331.	1971 --	tuberculosis	; 4,501 US TB deaths/death rate 2.18 per 100K; LA/2.72	--	101
332.	1971 --	Feb 21, tornado	, Delhi area, Waverly, Madison Parish, LA	--	11
333.	1972 --	tuberculosis	; 4,376 US deaths, death rate 2.09 per 100K; LA 2.87	--	108
334.	1972 --	May 29, helicopter crash	carrying oil rig workers, 3 miles south of Dulac, LA--	11	
335.	1973 --	tuberculosis	; 3,875 US deaths/death rate 1.84 per 100K; LA, 2.35 per 100K--	89	
336.	1973 --	June 24, arson fire	, gay UpStairs Cocktail Lounge, New Orleans, LA	--	32
337.	1974 --	tuberculosis	; 3,513 US TB deaths/death rate 1.65 per 100K; LA, 2.20	--	84
338.	1974 --	Jan 18, SS Baune	collides the US tanker Keytrader, fire, lower MS Riv., LA--	16	
339.	1975 --	tuberculosis	; 3,333 US TB deaths/death rate 1.55 per 100K; LA, 2.62	--	102
340.	1976 --	influenza	; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; LA 3.4-	134	
341.	1976 --	tuberculosis	; 3,130 US TB deaths/death rate 1.44 per 100K; LA, 1.69	--	67
342.	1976 --	Apr 23, Petroleum Helicopters Inc. crash	, Gulf of Mexico, off coast of LA-	all 12	
343.	1976 --	Aug 12, ethyl benzene fumes explode	, Tenneco oil refinery tower, Chalmette LA-	13	
344.	1976 --	Oct 20, tanker Frosta hits ferry George Prince	(capsizes), MS Riv., Luling, LA-	77	
345.	1977 --	influenza	; 1,305 US flu deaths/death rate 0.59 per 100K; LA, 0.77	--	31
346.	1977 --	tuberculosis	; 2,968 US TB deaths/death rate 1.35 per 100K; LA 2.19	--	88
347.	1977 --	Dec 08, PHI helicopter	hits oil rig crane, Gulf of Mex, near Marsh Island, LA--	17	
348.	1977 --	Dec 22, explosion	, Continental Grain Elevator, Westwego, LA	--	36
349.	1978 --	tuberculosis	; 2,914 US TB deaths/death rate 1.31 per 100K; LA, 2.08	--	85
350.	1979 --	tuberculosis	; 2,007 US TB deaths/death rate 0.89 per 100K; LA, 1.42	--	59
351.	1979 --	Aug 30, Inca Tupac Yupanqui	hits barge, explos./fire, MS Riv., Good Hope--	12	
352.	1980 --	tuberculosis	; 1,978 US TB deaths/death rate 0.87 per 100K; LA rate 1.19	--	50
353.	1980 --	summer, heat	, especially Orleans Parish (17), and Caddo Parish (12), LA	--	53
354.	1980 --	Aug 6 & 8, oil platform workers helicopter crash	, and barge overturns, Gulf <sup>328</sup> --	17	
355.	1981 --	tuberculosis	; 1,937 US TB deaths/death rate 0.84 per 100K; LA, 1.35	--	58
356.	1982 --	tuberculosis	; 1,807 US TB deaths/death rate 0.78 per 100K, LA, 1.35	--	59
357.	1982 --	July 09, Pan Am 759 takeoff crash	(windshear), NOIA, Kenner, LA <sup>329</sup>	--	153-154
358.	1983 --	tuberculosis	; 1,779 US TB deaths/death rate 0.76 per 100K; LA, 1.23	--	54
359.	1983 --	Dec 16-31, winter weather	, severe cold/exposure deaths, icy roads	--	15
360.	1984 --	tuberculosis	; 1,729 US TB deaths, death rate 0.73 per 100K; LA, 1.20	--	53
361.	1985 --	tuberculosis	; 1,752 US TB deaths, death rate 0.74 per 100K; LA, 1.20	--	53
362.	1985 --	Oct 27-31, Hurricane/Tropical Storm Juan	, Gulf of Mexico, especially LA--	~17	
363.	1986 --	tuberculosis	; 1,782 US deaths, death rate 0.74 per 100K; LA, 0.88	--	39
364.	1986 --	excessive natural heat	, LA (subset of >400 U.S. heat-related fatalities)	--	14
365.	1987 --	Dec 21, oil rig landing crash, Petroleum Helicopters, Inc.	, Gulf of Mx. Off LA-	15	
366.	1988 --	influenza	; 1,943 US flu deaths, death rate 0.79 per 100K; LA, 0.86	--	37

<sup>328</sup> Thirteen oil rig workers died in an Air Logistics helicopter crash on Aug 6 in a Hurricane Allen related evacuation, and 4 men were lost from an offshore oil rig or barge on Aug 8 due to the effects of the hurricane.

<sup>329</sup> Difference in number involves unborn 7-month-old fetus. Jefferson Parish coroner included in his list of deaths.



**Louisiana (continued):**

367.	1988 --	tuberculosis	, 1,921 US TB deaths, death rate 0.78 per 100K; LA, 1.12	--	48
368.	1989 --	tuberculosis	; 1,970 US TB deaths, death rate 0.80 per 100K; LA, 1.34	--	57
369.	1989 --	Oct 3, F/V Northumberland	ruptures NG pipeline/explosion/fire ~Sabine Pass, TX <sup>330</sup>	--	11
370.	1990 --	influenza	, 2,098 US flu deaths; death rate 0.84 per 100K; LA, 0.90	--	38
371.	1990 --	tuberculosis	, 1,810 US TB deaths, death rate 0.73 per 100K; LA, 0.95	--	40
372.	1990 --	exposure to excessive natural heat	, summer especially, LA	--	21
373.	1991 --	tuberculosis	, 1,713 US TB deaths, death rate 0.68 per 100K, LA, 1.15	--	49
374.	1992 --	tuberculosis	, 1,705 US TB deaths, death rate 0.66 per 100K; LA, 1.09	--	47
375.	1992 --	Aug 26, Hurricane Andrew	, LA	--	17
376.	1993 --	influenza	, 1,044 US flu deaths, death rate 0.40 per 100K; LA, 0.42	--	18
377.	1993 --	tuberculosis	; 1,631 US TB deaths, death rate of 0.63 per 100K; LA, 0.83	--	36
378.	1993 --	exposure to excessive natural heat	, summer esp.; 311 US deaths; LA	--	14
379.	1994 --	influenza	, 1,229 US flu deaths; death rate 0.47 per 100K; LA, 0.57	--	25
380.	1994 --	tuberculosis	; 1,478 US TB deaths; US death rate 0.56 per 100K, LA, 1.01	--	44
381.	1995 --	tuberculosis	; 1,336 US TB deaths; death rate 0.5 per 100K; LA, 0.98	--	43
382.	1995 --	exposure to excessive natural heat	; 1,563-1,601 heat-related deaths; LA	--	16
383.	1996 --	tuberculosis	, 1,202 US TB deaths; death rate 0.45 per 100K, LA, 0.68	--	30
384.	1997 --	tuberculosis	, ICD-9 code 010-018, death rate 0.43 per 100K, LA, 0.50	--	22
385.	1998 --	tuberculosis	, ICD-9 code 010-018, death rate 0.40 per 100K; LA 0.72	--	32
386.	1998 --	summer, especially July, heat	, (LA subset of 373 U.S. heat-related deaths)	--	45
387.	1999 --	tuberculosis	, ICD-10 code A16-19, death rate 0.333 per 100K; LA, 0.516	--	23
388.	1999 --	May 09, New Orleans tour bus	crash, LA	--	22
389.	1999 --	summer especially, heat	(LA subset of 1,050 U.S. heat-related deaths)	--	22
390.	2000 --	exposure to excessive natural heat	, 494 US deaths, subset for LA	--	23
391.	2000 --	tuberculosis	, ICD-10 code A16-19; death rate 0.276 per 100K; LA, 0.559	--	25
392.	2001 --	exposure to excessive natural cold/hypothermia	; 599 US deaths; LA	--	13
393.	2001 --	exposure to excessive natural heat	; 538 US deaths; subset for LA	--	11
394.	2001 --	tuberculosis	, ICD-10 code A16-19, death rate 0.268 per 100K; LA, 0.380	--	17
395.	2002 --	exposure to excessive natural cold/hypothermia	; 646 US deaths; LA	--	11
396.	2002 --	tuberculosis	, ICD-10 code A16-19, death rate .273 per 100K, LA, 0.289	--	13
397.	2003 --	tuberculosis	, ICD-10 code A16-19, death rate 0.25 per 100K; LA rate 0.40	--	18
398.	2005 --	exposure to excessive natural heat	; 939 US deaths, subset for LA	--	20
399.	2005 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.22 per 100K; LA, 0.39	--	18
400.	2005 --	Mar 10, fire	, townhouse mattress, Marrero, LA	--	11
401.	2005 --	Aug 29, Hurricane Katrina	, especially New Orleans and Coast of LA	--	1,577
402.	2006 --	exposure to excessive natural heat	; 1,104 US deaths, subset for LA	--	14
403.	2006 --	tuberculosis	, ICD-10 code A16-19, death rate 0.22 per 100K; LA, 0.33	--	14
404.	2008 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.19 per 100K; LA, 0.38	--	17
405.	2008 --	Sep 01, Hurricane Gustav	, Cocodrie, LA landfall	--	48
406.	2009 --	H1N1 "Swine Flu,"	especially spring through winter, LA	--	41-52
407.	2009 --	tuberculosis	, ICD-10 code A16-19; US death rate 0.2 per 100K; LA, 0.3	--	14
408.	2009 --	exposure to excessive natural heat	; 555 US deaths, subset for LA	--	11
409.	2010 --	exposure to excessive natural cold/hypothermia	; 710 US deaths; LA	--	10

<sup>330</sup> Cross-listed in Louisiana in that most of the victims were Louisiana residents.

**Louisiana (continued):**

410.	2010	-- exposure to <b>excessive natural heat</b> ; 874 US deaths, subset for LA	--	19
411.	2010	-- <b>influenza</b> , ICD-10 codes J09-J11; <sup>331</sup> US death rate 0.2 per 100K; LA, 0.3	--	13
412.	2010	-- Apr 20, drill rig <b>Deepwater Horizon explosion</b> , Gulf of Mex., ~50m off LA	--	11
413.	2011	-- exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for LA	--	18
414.	2012	-- exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for LA	--	13
415.	2012	-- <b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100K; LA 3.0	--	139
416.	2013	-- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100K; LA 3.0	--	139
417.	2014	-- exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths subset, LA	--	12
418.	2014	-- <b>influenza</b> , ICD-10 codes J09-11; US death rate 1.4 per 100,000; LA rate 1.8	--	84
419.	2014	-- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; LA 2.8	--	132
420.	2015	-- exposure to excessive natural <b>cold/hypothermia</b> , 815 US deaths subset, LA	--	11
421.	2015	-- exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for LA	--	11
422.	2015	-- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; LA, 3.0	--	140
423.	2016	-- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for LA	--	12
424.	2016	-- <b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; LA rate 3.9	--	182
425.	2016	-- <b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.0 per 100K; LA, 2.6	--	121
426.	2016	-- Aug 12-16, <b>flooding</b> , especially East Baton Rouge Parish, Louisiana	--	13
427.	2017	-- <b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; LA rate 3.50	--	164
428.	2018	-- exposure to excessive natural <b>cold/hypothermia</b> ; subset of 1,028 US deaths	--	15
429.	2018	-- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for LA	--	21
430.	2018	-- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; LA rate 3.41 <sup>332</sup>	--	159
431.	2019	-- exposure to <b>excessive natural heat</b> deaths; 915 US deaths; subset for LA	--	15
432.	2019	-- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; LA 2.67 <sup>333</sup>	--	124
433.	2019	-- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, LA, 1.31	--	61
434.	2020	-- <b>COVID-19</b> ; 354,215 US Covid deaths; 1,070 per 1M; LA 1,611 per 1M pop.-7,488		
435.	2020	-- <b>excessive heat</b> , natural sources; 1,174 US deaths, subset for LA	--	13
436.	2020	-- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; LA 2.78	--	129
437.	2020	-- Aug 27, <b>Hurricane Laura</b> , southeast TX/4; especially southwest Louisiana/27	--	27
438.	2021	-- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; LA, 3.2K per 1M	--	7,498
439.	2021	-- <b>excessive natural heat</b> ; 1,923 US heat deaths; LA (16 <b>Hurricane Ida</b> related)	--	38
440.	2021	-- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; LA death rate 2.70	--	125
441.	2021	-- Apr 13, liftboat (platform) <b>Seacor Power</b> capsizes off Port Fourchon, LA	--	13
442.	2021	-- Aug 29, <b>Hurricane Ida</b> ; 91 US deaths; especially Orleans Parish/13	--	29
443.	2022	-- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; LA death rate 7.23	--	3,359
444.	2022	-- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for LA	--	33
445.	2023	-- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for LA	--	82

**Some Select/Notable Other Louisiana Large Loss-of-Life Events:<sup>334</sup>**

<sup>331</sup> 500 US Flu deaths. ICD-10 code for 2010 influenza/pneumonia (J09-J18) has 50,097 deaths (death rate of 16.2).

<sup>332</sup> Third highest death rate, behind DC at 9.25 and MS at 4.15.

<sup>333</sup> Fifth highest death rate, behind DC, FL, MD and GA.

<sup>334</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

**Louisiana (continued):**

1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571--	226
1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), LA	-- 60
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	-- 78
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	-- 57
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	-- 641
1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	-- 171
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	-- 192
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	-- 120
1879 --	June-May 1880, <b>measles</b> , esp. children (LA subset, 8,254 U.S. measles deaths)	-- 53
1879 --	June-May 1880, <b>meningitis</b> (LA subset of 7,481 meningitis deaths nationwide)	-- 59
1879 --	June-May 1880, <b>smallpox</b> (LA subset, approximately 1,270 US smallpox deaths)	-- 15
1879 --	June-May 1880, <b>tuberculosis</b> (LA subset of 91,270 TB deaths nationwide)	-- 660
1879 --	June-May 1880, <b>typhoid fever</b> (LA subset of 23,339 U.S. Typhoid deaths)	-- 259
1879 --	June-May 1880, <b>whooping cough</b> (LA subset, 11,064 U.S. W.C. deaths)	-- 102
1880 --	<b>smallpox</b> , LA	-- 15
1881 --	<b>diphtheria</b> , especially New Orleans (76)	-- 78
1885 --	<b>diphtheria and croup</b> , New Orleans	-- 122
1889-90,	June-May 1890, <b>croup</b>	-- 195
1889-90,	June-May, <b>diphtheria</b> ; subset, 27,815 US diphtheria deaths; esp. NOLA/115	-- 187
1889-90,	June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	-- 319
1890 --	Jan-Feb, <b>influenza</b> (La Grippe/Russian Flu), New Orleans, LA	-- 121
1891 --	June 19, <b>trains collide</b> (open switch), ~Sauve plantation and New Orleans, LA	-- 6
1894 --	<b>diphtheria</b> , New Orleans (110); subset of $\geq 14,606$ US diphtheria deaths	-- 111
1898 --	<b>typhoid fever</b> , First and Second Louisiana Volunteer Infantry, U.S. Camps	-- 22
1899 --	Feb 08-14 especially, <b>cold wave</b> , sleet and snow; exposure and freezing, LA	-- 6
1900 --	<b>croup</b> , upper airway contagious viral infection; LA subset, 12,484 US croup deaths--	201
1900 --	<b>diphtheria</b> (subset of 16,475 US diphtheria deaths in 1900); LA	-- 90
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths); LA	-- 191
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths); LA	-- 271
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths); LA	-- 97
1900 --	<b>tuberculosis</b> ; leading cause of death in LA; subset of 109,750 US TB deaths; LA	--2,016
1900 --	<b>whooping cough</b> ; subset, 9,958 US whooping cough deaths; LA	-- 180
1907 --	<b>typhoid fever</b> , New Orleans, LA; subset of ~13K census area typhoid deaths; LA	-- 177
1915 --	Dec-Jan 1916, <b>influenza and pneumonia</b> subset of larger epidemic, New Orleans--	132
1916 --	<b>diphtheria</b> , especially children; LA	-- 52
1916 --	<b>polio</b> outbreak, Statewide (subset of 6,645->7,000 U.S. polio deaths); LA	-- 18
1919 --	<b>diphtheria</b> (subset, 9,160 US diphtheria deaths); LA	-- 117
1920 --	<b>diphtheria and croup</b> (subset, 13,395 deaths in 34 registration states); LA	-- 111
1920 --	<b>measles</b> (subset of 7,712 measles deaths in 34 registration states); LA	-- 43
1920 --	<b>scarlet fever</b> (subset of 4,004 such deaths in 34 registration states); LA	-- 15
1920 --	<b>whooping cough</b> (subset, 10,968 whooping cough deaths in 34 reg. states); LA	-- 184
1920 --	Apr 15, Jefferson Island salt <b>mine</b> gas explosion, Delcambre, LA	-- 6
1925 --	<b>anthrax</b> (subset of 22 US anthrax deaths); LA	-- 2
1925 --	<b>measles</b> (subset of 2,404 measles deaths in 40 "registration" states); LA	-- 10

**Louisiana (continued):**

1925 --	<b>meningococcus meningitis</b> (subset, 1,095 US meningitis deaths); LA	--	13
1925 --	<b>polio</b> (subset, 1,518 US polio deaths); LA	--	18
1927 --	<b>polio</b> (acute) esp. late summer and fall (subset, 2,013 US polio deaths); LA	--	33
1931 --	<b>epidemic cerebrospinal meningitis</b> , LA subset, 2,832 US meningitis deaths	--	53
1931 --	<b>measles</b> , especially children (LA subset, 3,576 measles deaths nationwide)	--	21
1931 --	<b>polio</b> , esp. July-Oct, (LA subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	18
1938 --	Apr 04, <b>grain dust explosion</b> , nine-story grain elevator, New Orleans, LA	--	6
1940 --	<b>polio</b> (LA subset of 1,026 polio deaths nationwide)	--	15
1944 --	<b>cerebrospinal meningitis</b> (2,812 cerebrospinal meningitis deaths nationwide)	--	39
1944 --	<b>influenza</b> (LA subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	--	467
1944 --	<b>whooping cough</b> (LA subset of 1,878 whooping cough deaths nationwide)	--	39
1944 --	Apr 19, <b>USN Airship K-133</b> , Houma NAS, LA, downs in T-storm, Gulf of Mexico--		9
1946 --	<b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths)	--	23
1946 --	Feb 19, <b>natural gas explosion</b> and <b>fire</b> , apartment building, New Orleans, LA	--	7
1947 --	Oct 31, private <b>Beechcraft Bonanza</b> , severe rain storm, loses wing, <b>crash</b> ~Kinder LA--		6
1948 --	<b>polio</b> , July-Nov especially; 1,895 US deaths; subset for LA	--	17
1948 --	May 27, <b>USAF C-47 plane crash</b> 20 miles southwest of Baton Rouge, LA	--	7
1948 --	Dec 17, <b>USAF B-29 crash in heavy rain storm</b> near Robeline, Natchitoches, LA--		all 7
1949 --	Oct 16, <b>auto hits horse/on-coming car skids into the auto</b> , 7M S of Sicily Isl. LA--		6
1950 --	<b>measles</b> , especially children; 468 US deaths; subset for LA	--	10
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	--	22
1950 --	Oct 27, <b>USAF Beechcraft Navigator</b> lost after takeoff ~Lake Pontchartrain in fog, LA--		8
1951 --	<b>measles</b> , 688 US deaths; subset for LA	--	13
1951 --	Jan 27-Feb 5, <b>cold waves/winter storms, ice, sleet, snow</b> (175-200 US), LA	--	5-9
1951 --	Mar 17, <b>US Navy C-45 Beechcraft training flight crash</b> , predawn, 1M S Calhoun LA--		6
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for LA	--	20
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for LA	--	156
1952 --	<b>polio</b> , ~3,300 US polio deaths; subset for LA	--	32
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for LA	--	515
1953 --	<b>excessive natural heat</b> (code E931), 576 US heat deaths, esp. Aug 22-Sep 5; LA	--	7
1953 --	<b>influenza</b> ; 9,500 US deaths; subset for LA	--	261
1953 --	<b>polio</b> , subset of 1,450 US polio deaths	--	7
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; LA subset	--	383
1953 --	Apr 27-May 22, heavy rains / <b>flooding</b> , east TX and southwest LA (12), esp. LA	--	9
1954 --	<b>excessive natural heat</b> (especially July); subset, 978-984 US heat-related deaths; LA--		8
1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; LA subset	--	63
1954 --	<b>measles</b> ; 524 US deaths; 21 states double digits; LA subset	--	9
1954 --	<b>polio</b> , acute; 1,400 US deaths; LA subset	--	16
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; LA subset	--	295
1955 --	<b>influenza</b> ; 2,755 US deaths; LA subset	--	80
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; LA subset	--	257
1956 --	<b>influenza</b> , 2,323 US deaths; LA subset	--	78
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; LA subset	--	238
1957 --	<b>influenza</b> ; 7,463 US deaths; LA subset	--	159



**Louisiana (continued):**

1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; LA subset	-- 295
1957 --	Nov 07, <b>tornado</b> outbreak, LA (8-9), MS (2), TX (3), total 13-14	-- 8-9
1958 --	<b>influenza</b> ; 4,442 US deaths; LA subset	-- 134
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; LA subset	-- 297
1961 --	<b>influenza</b> ; 2,137 US deaths/death rate 1.2 per 100K; LA death rate 1.0	-- 33
1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; LA death rate 0.3	-- 9
1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	-- 6-8
1963 --	<b>excessive heat</b> ; 196 US deaths; LA	-- 9
1963 --	<b>influenza</b> ; 7,083 US deaths/death rate 3.8; LA death rate 3.5	-- 119
1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; LA death rate 0.3	-- 7
1963 --	<b>whooping cough</b> (pertussis); 115 US deaths; LA	-- 9
1963 --	Jan 12-14 and 23, <b>cold waves</b> (most of lower 48 states impacted)	-- 5
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; LA death rate 0.6	-- 21
1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; LA death rate 0.3	-- 9
1965 --	<b>influenza</b> ; 2,295 US deaths/death rate 1.2 per 100K; LA death rate 1.2	-- 44
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for LA	-- 18
1968 --	<b>diphtheria</b> (ICD-8 code 032), 30 US diphtheria deaths; (TX had 11), LA	-- 6
1968 --	Dec 29-Mar 8, A2 "Hong Kong" <b>influenza-pneumonia</b> epidemic, 3 cities <sup>335</sup>	-- 195
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; LA 2.41--	87
1969 --	Aug 17-18, <b>Hurricane Camille</b> (subset of 299-335 deaths in LA, MS, VA, WV)	-- 9
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; LA 0.4--	13
1971 --	July 23, <b>fire</b> , Howard Johnson's Motor Lodge, New Orleans, LA	-- 6
1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; LA rate 2.02--	84
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; LA rate 2.40	-- 91
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; LA/0.55	-- 21
1975 --	<b>German measles</b> /rubella; ICD-8 code 056; 21 US deaths/death rate, 0.010; LA, 0.077-	3
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; LA rate 1.41--	55
1979 --	<b>influenza</b> ; 604 US flu deaths/death rate 0.27 per 100K; LA death rate 0.24	-- 12
1979 --	June 08, <b>mine</b> gas explosion, Belle Isle Mine, Franklin, LA	-- 5
1980 --	<b>influenza</b> ; 2,702 US flu deaths/death rate 1.19 per 100K, LA, 0.24	-- 10
1981 --	<b>influenza</b> ; 3,006 US flu deaths/death rate 1.31 per 100K, LA, 1.00	-- 43
1982 --	<b>influenza</b> ; 727 US flu deaths/death rate 0.31 per 100K, LA, 0.28	-- 12
1982 --	Jan 12-13, <b>extreme winter cold and storms</b> , LA	-- 6
1983 --	<b>influenza</b> ; 1,431 US flu deaths, death rate 0.61 per 100K, LA, 0.27	-- 12
1984 --	<b>influenza</b> ; 1,096 US flu deaths, death rate 0.46 per 100K, LA, 0.34	-- 15
1985 --	<b>influenza</b> ; 2,054 US flu deaths, death rate 0.86 per 100K, LA, 0.45	-- 20
1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: LA, 0.29	-- 13
1986 --	<b>measles</b> (ICD-9 055 code; subset of 3 US measles deaths in 1986)	-- 1
1987 --	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; LA, 0.23	-- 10
1987 --	<b>HIV AIDS</b> ; 13,468 deaths/US death rate 5.55 per 100K; LA, 1.01	-- 37
1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, LA, 0.64	-- 28
1988 --	<b>HIV AIDS</b> ; 16,602 deaths/US death rate 6.8 per 100K population; LA, 5.76	-- 247
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; LA, 7.90	-- 336

<sup>335</sup> Baton Rouge, New Orleans, Shreveport. U.S. influenza epidemic death toll was 33,800.

**Louisiana (continued):**

1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; LA, 0.26	--	11
1989 --	Feb 05-07, <b>winter weather/ice storm</b> , and traffic accident fatalities (76-91 US), LA--	--	≥6
1989 --	Dec, <b>cold wave</b> ; LA	--	5
1994 --	May 10, <b>Sonat Services helicopter crash</b> (undetermined cause), 1M off Intracoastal City, LA--	--	5
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; LA, 0.38	--	17
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; LA, 0.269	--	12
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; LA, 0.559	--	25
2001 --	summer, exposure to <b>excessive natural heat</b> , LA	--	9
2002 --	exposure to <b>excessive natural heat</b> , 626 US deaths, subset for LA	--	6
2004 --	summer, exposure to <b>excessive natural heat</b> , LA	--	6
2005 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; LA, 0.219	--	10
2007 --	summer especially, <b>exposure to excessive natural heat</b> , LA	--	8
2008 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; LA, 0.36	--	16
2008 --	Sep-13-14, <b>Hurricane Ike</b> , esp. Iberville, Jefferson Davis, Terrebonne Parishes	--	9
2008 --	Dec 11, air taxi/commuter <b>helicopter crash</b> , Gulf of Mexico, Sabine Pass, TX	--	5
2009 --	<b>diarrhoea/gastroenteritis</b> of infections origin; US death rate 0.9 per 100K; LA, 0.8	--	35
2009 --	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); LA rate 0.4	--	20
2009 --	Jan 04, Sikorsky <b>helicopter hits hawk</b> after takeoff, crashes ~Morgan City, LA	--	8
2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K, LA 0.6	--	28
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; LA, 2.4	--	107
2010 --	Aug 02, <b>drownings</b> , non-swimmer teens; Red River, Shreveport, LA	--	6
2010 --	Dec 28, <b>fire</b> , abandoned warehouse used by homeless, New Orleans, LA	--	8
2011 --	<b>diarrhoea/gastroenteritis</b> , infections origin; US death rate 0.9 per 100K, LA 0.8	--	35
2011 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US and LA death rate 0.2 per 100K	--	10
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US and LA death rate 2.5 per 100K	--	115
2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, LA, 0.6	--	27
2012 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; LA rate 0.3	--	12
2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; LA 0.6	--	29
2013 --	<b>influenza</b> , ICD-10 Codes J09-J11.8; US death rate 1.2 per 100,000; LA rate 0.7	--	35
2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; LA rate 0.7	--	32
2014 --	<b>tuberculosis</b> , ICD-10 Code A16-A19; US and LA death rate 0.2 per 100,000	--	10
2014 --	Nov 11, family home <b>fire</b> (mother, grandmother, 3 children) Broadmoor	--	5
2015 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin; US death rate 0.8 per 100K, LA, 0.6	--	26
2015 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100,000; LA rate 0.7	--	35
2016 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin; US death rate 0.7 per 100K; LA 0.5	--	25
2016 --	<b>influenza</b> (ICD-10 codes J09-J11.8; US death rate 0.9 per 100,000; LA rate 0.6	--	26
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; LA death rate 1.67	--	78
2017 --	<b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; LA subset	--	11
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., LA death rate 3.13	--	146
2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; LA death rate 1.59	--	74
2021 --	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; LA subset	--	16
2023 --	<b>COVID-19</b> , 71,691 US deaths/death rate 3,597 per 1 million population	--	916

Breakout by Type of **Louisiana** Large Loss-of-Life Events (10 or more fatalities):

- 223 -- **Disease**, especially communicable, especially epidemics. (Plus 145 in “Other.”)
- 93 -- **Maritime and Inland Waterways**.
- 31 -- **Heat**. (Plus 7 years 6-9 deaths.)
- 21 -- **Hurricanes**. (Plus **two** --Camille with 9 deaths and Ike with 8.)<sup>336</sup>
- 19 -- **Tornadoes**. (Also note 1957 tornado outbreak with 8-9 deaths.)
- 17 -- **Aviation**.<sup>337</sup> (Plus 9 events noted with 5-9 deaths each.)
- 14 -- **Violence**.
- 8 -- **Explosions**. (Plus **two** with 6-7 deaths – 6 deaths in 1938 and 7 in 1946.)<sup>338</sup>
- 7 -- **Winter Weather/Cold/Hypothermia**. (But 8 other notable years.)
- 5 -- **Flooding**. (Non-hurricane-related.) Plus 9 deaths in Apr-May 1953 flooding.
- 4 -- **Rail**. (Plus one with 6-8 deaths in “Other.”)
- 4 -- **Structural Failure**.
- 2 -- **Vehicular/Road/Highway**. (Plus one noted with six deaths in 1949.)
- 4 -- **Fire-Structural**. (Plus 4 events: 5-8 deaths)
- 1 -- **Mining**. (Plus 2 events <10 deaths: 6 in 1920 and 5 in 1979.)
- 0 -- **Carbon Monoxide Poisoning**. (Five died following Hurricane Katrina in 2005.)
- 0 -- **Drowning (non-water-craft related)**. (Six deaths on 8-2-2010 in Red River.)

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<sup>336</sup> Includes cross-listing of Hurricane Allen and ODECO helicopter crash while evacuating from the hurricane.

<sup>337</sup> Includes cross-listing of Hurricane Allen and ODECO helicopter crash while evacuating from the hurricane.

<sup>338</sup> This includes the cross-listing of the fishing boat *Northumberland* explosion and fire when it ruptured an off-shore natural gas pipeline on Oct 3, 1989, killing 11.

## ME

## Maine

1. 1586 -- Passamaquoddy Natives “Devastated” by **typhus** epidemic, Maine<sup>339</sup> --Hundreds?
2. 1616-17 -- **epidemic**, Native Americans, Maine, especially southeast --≥Hundreds
3. 1675 -- Sep late, Natives **attack** settlers, relief force ambushed, Scarborough vic., ME-23-24
4. 1676 -- Aug 11, **massacre** and captivity, Natives attack English settlers, Portland, ME-- ≥10
5. 1676 -- Aug 13-14, **massacre**, Natives attack settlers, Kennebec River & Arrowsic, ME-≥14
6. 1676 -- Sep 25, **massacre**, Natives destroy settlement at Cape Neddock, ME, kill/capture--40
7. 1677 -- June 29, **massacre**, Natives attack party of 90 settlers near Black Point, ME -- 60
8. 1689 -- Sep 26, **battle**, Major Church force and Natives, near Falmouth (Portland), ME -- 10
9. 1690 -- May 20, **massacre**, French/Indians attack settlers, Falmouth (Portland), ME~120-200
10. 1690 -- ~Sep 15, **massacre**, English attack native village, NW of Brunswick, ME -- 21
11. 1692 -- Jan 25, **massacre**, French and Indians attack English colony, York, ME ---~50-75
12. 1703 -- Aug 10, French & Indians **attack** South coastal ME, esp. greater Portland vic.-- ≥61
13. 1703 -- Oct 6, **massacre**, Eng. settlers/militia attacked while farming, Scarborough, ME-- 19
14. 1724 -- **Natives attack Maine fishing posts** taking 22 vessels/killing at least 20 men -- ≥20
15. 1724 -- Aug 23, **massacre**, colonial militia attack Abenaki village, Norridgewock, ME~80-100
16. 1735-37 -- “throat distemper” (**diphtheria**) epidemic,<sup>340</sup> esp. Kittery, N. Yarmouth--317-500
17. 1755 -- Early Fall, **diphtheria epidemic**, New Casco, ME -- 10
18. 1756 -- Summer, **diphtheria epidemic**, children, Saco, ME -- 14
19. 1787 -- Dec, last week; crewmen from previously captured **Maine sloop Squirrel murdered by Algerians**--11
20. 1807 -- July 11, schooner **Charles**, wrecks on reef, **fog**, west of Portland Light, ME -- 16
21. 1815 -- Jan 23, Portland Maine Privateer **Dash lost in squall**, George’s Bank area --54-66
22. 1836 -- Oct 25, steamer **Royal Tar** burns/sinks off Fox Island, Penobscot Bay, ME -- 32
23. 1842 -- Nov 30, coastal storm, **Isadore** lost, Cape Neddock ME, schooner *Napoleon*<sup>341</sup>-20-21
24. 1849 -- Summer-Fall, **cholera**, ME -- 133
25. 1849 -- Nov 09, Bath, ME ship **Hanover**, grounds, gale, mouth Kennebec River, ME --24-26
26. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 7,584 ME deaths -- 175
27. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571-- 509
28. 1850 -- **scarlet fever**; subset 9,584 such deaths 36 States/Territories/DC (average 266)-- 330
29. 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) --1,702
30. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 128
31. 1850 -- Dec 3, **fire**, Maine Insane Asylum, Augusta ME -- 28
32. 1851 -- Oct 3-4, storm, fishing **schooners lost** or damaged, Prince Edward Island CA -- 58
33. 1860 -- **croup** (contagious upper airway viral infection), subset, 15,188 US croup deaths -- 119
34. 1860 -- **scarlet fever**; subset of 26,402 deaths in 38 Census States & DC -- 347
35. 1860 -- **smallpox** (Maine subset of 1,263-1,271 smallpox deaths in reporting States) -- 56
36. 1860 -- **tuberculosis**, reported as “consumption” (subset of 49,082 US TB deaths)<sup>342</sup> --2,169
37. 1860 -- **typhoid fever** (ME subset, 19,236 deaths in 38 “registration” States and DC) -- 434
38. 1860 -- Sep 22, Gloucester, MA Sch. **Neptune’s Bride** grounds, Malcomb’s Ledge, ME<sup>343</sup>-12
39. 1864 -- Feb 22, steamship **Bohemian** wrecks, Alden’s Rock, off Richmond Isl., ME --19-20

<sup>339</sup> One source notes the tribe was “decimated” and another that it was “devastated.”

<sup>340</sup> Primarily struck children. Was large percentage of child pop. in small communities not much more than a year.

<sup>341</sup> This is a subset of 28-30 fatalities – 3 in Boston Harbor and 5-6 at Rye Beach, NH.

<sup>342</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>343</sup> Cross listed in Massachusetts in that it was a Gloucester boat.



**Maine (continued):**

40. 1869 -- Sep 08, **hurricane**, fishing schooner **Helen Eliza** grounds, Peak's Island, ME -- 12
41. 1870 -- **diarrhoea** (103), **dysentery** (50), **enteritis** (116); data from U.S. Census -- 269
42. 1870 -- **scarlet fever**, especially children (Maine subset of 20,339 deaths nationwide) -- 422
43. 1870 -- **tuberculosis** (Consumption); Maine subset of ~70,000 US TB deaths --1,991
44. 1870 -- **typhoid fever** (Maine subset of 22,187 typhoid fever deaths nationwide) -- 608
45. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) -- 890
46. 1879 -- June-May 1880, **tuberculosis** (Maine subset of 91,270 US TB deaths) --1,825
47. 1887 -- July-Oct, bark **Isabel** lost at sea, Rockland, ME to Pensacola, FL -- 10
48. 1889 -- Mar 16, Portland, Maine bark **E.L. Pettengill**, wrecks, Chesapeake Bay -- 14
49. 1891 -- Sep, Portland, ME fishing schooner **City Point** lost, La Harve Banks trip --12-14
50. 1898 -- Nov 26-27, **nor'easter**, **SS Portland** sinks (Cape Ann MA), New Eng.<sup>344</sup> 450-500
51. 1899 -- Aug 06, **gangplank fails**, drownings, Mount Desert Ferry ~ Bar Harbor ME -- 20
52. 1900 -- **tuberculosis**; leading cause of death in ME; 109,750 US TB deaths --1,145
53. 1900 -- **typhoid fever** (subset of 35,379 US typhoid fever deaths); ME -- 200
54. 1902 -- July 17, sudden squall, excursion party **boat capsizes**, near Appledore Is., ME<sup>345</sup>-- 14
55. 1903 -- Sep 15-17, **Hurricane**, sch. **George F. Edmunds** grounds, Pemaquid Point, ME-- 15
56. 1907 -- **influenza** (subset of over 10,066 deaths in "registration" areas)<sup>346</sup> ME -- 265
57. 1907 -- **tuberculosis of the lungs**; subset of 76,650 US TB deaths, ME -- 969
58. 1907 -- Apr, Maine ship **Arthur Sewall** lost at sea, Philly to Seattle -- 28
59. 1916 -- July-Oct 18 (especially), **polio** outbreak, especially children, Maine -- 23
60. 1917 -- **influenza**; 12,974 US influenza deaths/death rate 17.2 per 100K; ME, 30.2 -- 234
61. 1918 -- Sep-May 1919, **influenza and pneumonia** epidemic, ME --4,667-5,030  
 1918 -- Sep-Dec, **influenza and pneumonia** epidemic, ME --3,467-3,800  
 1919 -- Jan-May, **influenza and pneumonia** epidemic, ME --1,200-1,230
62. 1919 -- Dec 20, **trains collide/fire**, near Onawa, ME --23-24
63. 1920 -- Jan-Dec, **influenza and pneumonia**, ME --1,759
64. 1920 -- Feb 06, **snowstorm**, steamer **Polias** hits Old Cilley Ledge, Penobscot Bay, ME-- 11
65. 1920 -- Nov 18, **motorboat** fire, Lumbermen drownings, Chesuncook Lake, ME -- 16
66. 1924 -- Mar 11/12, Maine schooner **Wyoming** sinks in **blizzard** off Chatham, MA<sup>347</sup> --13-18
67. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; ME, 7.0 -- 56
68. 1936 -- June 19, **outboard motor boat capsizes**, children drown, Lake Gardner, ME -- 12
69. 1940 -- **whooping cough**; 2926 US WC deaths/death rate 2.2 per 100K, ME, 2.5 -- 21
70. 1941 -- June 29, cabin cruiser **Don** explodes and burns off Bailey Island, ME -- 37
71. 1942 -- Sep 22, two USAAF B-25C **bombers crash** ~Presque Isle & Washburn, ME<sup>348</sup>-- 14
72. 1944 -- July 11, USAAF B-17G **plane crash**, Deer Mountain near Rangeley, ME -- 10
73. 1944 -- July 11, USAAF A-26 **crash/fire**, Westbrook Trailer Camp, S. Portland, ME -- 19
74. 1945 -- Jan 31, **fire**, Lacoste Babies' Boarding Home & Nursery, Auburn, ME<sup>349</sup> -- 17
75. 1947 -- Oct 17-27, **Forest Fires**, especially Mount Desert Island, ME -- 16

<sup>344</sup> Cross listed here, as well as MA. The *Portland* was a ME boat with many ME residents on board who drowned. There were up to 192 fatalities. Remaining fatalities were other MA maritime losses, and some deaths elsewhere.

<sup>345</sup> Listed in MA as well as ME in that while the boat capsized in ME waters, 10 of the 14 drowned, were of MA.

<sup>346</sup> With 36.9 per 100K death rate in registration States, only CT (44.2), NH (42.0), VT (51.5), were higher.

<sup>347</sup> Listed, as well, within Massachusetts section in that the boat was crewed by Boston men and sank off MA coast.

<sup>348</sup> A subset of 25 fatalities from eight USAAF plane crashes and collisions on this date.

<sup>349</sup> This was a boarding home for babies and children up to five.

**Maine (continued):**

76.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--	331
77.	1959 --	Mar 11-13, <b>snowstorm/blizzard</b> ; 46 NY and New England deaths; ME	--	11
78.	1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; ME death rate 4.8	--	47
79.	1961 --	<b>influenza</b> ; 2,137 US deaths/death rate 1.2 per 100K; ME death rate 2.7	--	27
80.	1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; ME death rate 2.8	--	28
81.	1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; ME death rate 1.3	--	13
82.	1965 --	<b>influenza</b> , <sup>350</sup> 2,295 US deaths/death rate 1.2 per 100K; ME death rate 5.0 <sup>351</sup>	--	50
83.	1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for ME	--	27
84.	1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; ME 7.0--	68	
85.	1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; ME 5.7--	56	
86.	1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; ME 5.6 <sup>352</sup> --	56	
87.	1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; ME 2.9 <sup>353</sup> --	29	
88.	1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; ME 8.7 --	90	
89.	1972 --	June 03, Brunswick ME-based US Navy P-3 Orion <b>plane crash</b> , mt., <b>Morocco</b> --	14	
90.	1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; ME 3.35 --	35	
91.	1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; ME/3.02--	32	
92.	1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; ME, 4.4--	47	
93.	1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; ME 7.3--	80	
94.	1977 --	Dec 11, BNAS-based <b>USN Orion Crash</b> , <b>fog</b> , El Hierro Mt., Canary Islands <sup>354</sup> --	13	
95.	1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; ME, 5.02 --	56	
96.	1979 --	May 30, <b>crash on approach</b> , Downeast Airlines #46, Owls Head ~Rockland, ME--	17	
97.	1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, ME, 3.29 --	37	
98.	1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, ME, 2.29 --	26	
99.	1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, ME, 3.93 --	45	
100.	1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, ME, 1.63 --	19	
101.	1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: ME, 3.59 --	42	
102.	1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; ME, 1.08 --	13	
103.	1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; ME, 1.79 --	22	
104.	1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; ME, 0.89 --	11	
105.	1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, ME, 1.94 (US high)--	24	
106.	1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate of 0.40 per 100K; ME, 0.97 --	12	
107.	1995 --	<b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, ME, 1.126 --	14	
108.	1996 --	<b>influenza</b> , 745 US flu deaths; US death rate 0.276 per 100K; ME, 1.12 --	14	
109.	1997 --	<b>influenza</b> , 720 US flu deaths; US death rate 0.26 per 100K; ME, 0.956 --	12	
110.	1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; ME, 3.81 --	48	
111.	1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; ME, 1.421--	18	
112.	2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; ME, 1.569--	20	
113.	2002 --	Sep 12, speeding <b>van</b> , off John's Bridge between Eagle & Churchill Lakes, ME--	14	

<sup>350</sup> Distinct from the 61,903 pneumonia deaths noted in the nest USPHS 1965 Mortality Data column in Table 1-14.

<sup>351</sup> Highest influenza state death rate in the US in 1965.

<sup>352</sup> ME had the second highest influenza death rate of all States in 1970 – only Vermont, at 7.64 was higher.

<sup>353</sup> Had highest death rate of any State in the U.S. in 1971.

<sup>354</sup> Cross-listed here in that the crew was permanently based out of the Brunswick Naval Air Station. Maine Governor Langley attended a BNAS memorial service and ordered State government flags flown at half-mast.

**Maine (continued):**

114.	2003	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; ME, 1.454	--	19
115.	2004	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.376 per 100K; ME, 1.827	--	24
116.	2005	--	exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; ME	--	15
117.	2005	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; ME, 2.578	--	34
118.	2006	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.285 per 100K; ME, 1.209	--	16
119.	2008	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; ME, 2.10	--	28
120.	2009	--	<b>diarrhoea/Gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; ME 1.0	--	13
121.	2009	--	<b>H1N1 "Swine Flu,"</b> especially spring through winter	--	19-21
122.	2010	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K; ME 1.2	--	16
123.	2010	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; ME, 2.7	--	36
124.	2011	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K, ME, 1.2	--	16
125.	2011	--	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; ME, 1.4	--	19
126.	2013	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; ME, 1.1	--	14
127.	2013	--	<b>influenza</b> , ICD-10 Codes J09-J11; US death rate 1.2 per 100,000; ME rate 3.2	--	42
128.	2014	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 1.4 per 100,000; ME rate 1.7	--	23
129.	2014	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; ME 1.0	--	13
130.	2015	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, ME 1.8	--	24
131.	2015	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 1.6 per 100,000; ME rate 5.3	--	70
132.	2016	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.7 per 100K, ME 1.4	--	23
133.	2016	--	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.9 per 100k; ME rate 1.6	--	21
134.	2017	--	exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths subset, ME	--	10
135.	2017	--	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; ME rate 5.17	--	69
136.	2018	--	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; ME subset	--	14
137.	2018	--	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., ME rate 5.01	--	67
138.	2019	--	<b>influenza</b> ; 5,902 US deaths/1.08 death rate per 100K; ME rate 3.12	--	42
139.	2020	--	exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; ME	--	13
140.	2020	--	<b>influenza</b> , <sup>355</sup> 5,943 US deaths/death rate 1.8 per 100K; ME death rate 2.52	--	34
141.	2021	--	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; ME, 1.4K per 1M	--	1,184
142.	2022	--	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; ME death rate 9.36	--	1,259
143.	2023	--	Oct 26, <b>mass shooting</b> , bowling alley (8) and bar & grill (10), Lewiston, ME	--	18

**Some Select/Notable Other Maine Large Loss-of-Life Events:<sup>356</sup>**

1789-90	--	Fall-spring, <b>influenza</b> epidemic; CT, ME, MA, NH, NY, Philadelphia, RI <sup>357</sup>	--	Many
1825	--	Oct 07, <b>wildfires, Miramichi</b> (New Brunswick, Canada/>160-300) <b>and ME (0)</b>	--	0
1850	--	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), ME	--	76
1850	--	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	--	29

<sup>355</sup> Distinct from 47,601 pneumonia deaths in 2020 (ICD codes J12-J18).

<sup>356</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>357</sup> Sources consulted do not provide an estimate. Kohn ("New England Influenza Epidemic of 1789," *Encyclopedia of Plague and Pestilence*), writes it was widespread in states we note, affected thousands/Fall of 1789, lasted about 4-6 weeks in each place in the first (1789) wave, was "particularly harsh on the elderly and chronically ill," and that there were especially "many" deaths from the derivative pneumonia. Notes the "case-mortality is believed to have been less than 50 percent during the epidemic." If there were thousands of cases, there would be many deaths.

Some Select/Notable Other **Maine** Large Loss-of-Life Events (continued):

1860 --	<b>measles</b> (Maine subset of 3,900 measles deaths nationwide)	--	31
1860 --	<b>whooping cough</b> (Maine subset of 8,408 whooping cough deaths nationwide)	--	72
1870 --	<b>croup</b> (Maine subset of 10,692 deaths nationwide)	--	59
1870 --	<b>typhus</b> (subset of 1,770 US typhus deaths); ME	--	32
1870 --	<b>whooping cough</b> (Maine subset of 9,008 whooping cough deaths nationwide)	--	71
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	145
1879 --	June-May 1880, <b>malarial fever</b> , (Maine subset, 20,231 such deaths nationwide)	--	27
1879 --	June-May 1880, <b>measles</b> , esp. children (ME subset, 8,254 U.S. measles deaths)	--	36
1879 --	June-May 1880, <b>meningitis</b> (Maine subset of 7,481 U.S. meningitis deaths)	--	51
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (ME subset, 16,388 US S.F. deaths)	--	186
1879 --	June-May 1880, <b>typhoid fever</b> (Maine subset of 23,339 U.S. Typhoid deaths)	--	191
1879 --	June-May 1880, <b>whooping cough</b> (Maine subset, 11,064 U.S. W.C. deaths)	--	55
1881 --	<b>diphtheria</b> , especially Bangor (17) and Portland (13)	--	36
1889-90,	June-May, <b>croup</b>	--	82
1889-90,	June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; ME	--	206
1889-90,	June-May, <b>measles</b> , subset of 9,256 US measles deaths	--	14
1889-90,	June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--	305
1890 --	Jan, <b>influenza</b> (La Grippe/Russian Flu), Portland, ME	--	48
1894 --	<b>diphtheria</b> , State subset of $\geq 14,606$ US diphtheria deaths	--	~167
1897 --	<b>typhoid fever</b> , subset of $>9,192$ US typhoid deaths, Portland, ME	--	11
1897 --	July 7-10, <b>excessive natural heat</b> (608-616 US Heat deaths), ME subset	--	5
1898 --	<b>typhoid fever</b> (subset of $>4,627$ deaths), First Maine Volunteer Inf., US camps <sup>358</sup>	--	76
1900 --	<b>croup</b> ; upper airway contagious viral infection; ME subset 12,484 US croup deaths--	--	65
1900 --	<b>diphtheria</b> (ME subset of 16,475 US diphtheria deaths in 1900)	--	103
1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	--	74
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths)	--	245
1900 --	<b>measles</b> (subset of 12,866 US measles deaths)	--	50
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths)	--	276
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths), ME	--	54
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths), ME	--	97
1900 --	July-Aug (especially), <b>excessive natural heat</b> (subset of 1,266 US heat deaths), ME--	--	5
1901 --	June-July (especially), <b>heat waves</b> (subset of 4,012 US heat deaths), ME	--	9
1902 --	<b>smallpox</b> , ME	--	11
1902 --	Aug 24, <b>fire</b> , residence, kills children, Portland, ME	--	5
1904 --	<b>epidemic cerebrospinal meningitis</b> ; 3,284 such deaths in US, ME	--	22
1905 --	<b>epidemic cerebrospinal meningitis</b> ; 5,114 such deaths in US, ME	--	34
1905 --	<b>tuberculosis</b> , 56,770 census deaths (10 states/135 cities); ME death rate 124.6, avg. 168.2--	--	886
1906 --	<b>epidemic cerebrospinal meningitis</b> , ME	--	21
1907 --	<b>typhoid fever</b> ; subset of approximately 13,000 US typhoid deaths; MR	--	127
1908 --	Sep 01, drownings, <b>sloop</b> capsizes in squall, Penobscot Bay off Deer Isle, ME	--	7
1910 --	<b>polio</b> (ME subset, 1,635 US polio deaths)	--	31
1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; ME, 20.3	--	151
1911 --	July 28, <b>head-on train collision</b> , Bangor and Aroostook RR, Grindstone, ME	--	8-9

<sup>358</sup> At least 31 soldiers died in Maine, most probably from the First Maine.



Some Select/Notable Other **Maine** Large Loss-of-Life Events (continued):

1913 --	<b>heat</b> ; 1,226 “registration area” (65% of US) deaths; subset for ME	--	8
1913 --	<b>measles</b> , 8,108 US “registration area” (65.1%) deaths; ME	--	62
1913 --	<b>polio</b> , acute, esp. summer-fall, 864 “registration area” (65% pop.) deaths, ME	--	14
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; ME rate 5.6	--	43
1915 --	<b>polio</b> ; 691 registration area deaths (67.1% population); subset for ME	--	6
1918 --	<b>typhoid fever</b> (Maine subset of 9,100 U.S. Typhoid Fever deaths)	--	58
1919 --	<b>diphtheria</b> (subset, 9,160 US diphtheria deaths)	--	50
1920 --	<b>diphtheria and croup</b> (ME subset, 13,395 such deaths in 34 registration states)	--	64
1920 --	<b>measles</b> (ME subset of 7,712 measles deaths in 34 registration states)	--	30
1920 --	<b>scarlet fever</b> (ME subset of 4,004 such deaths in 34 registration states)	--	23
1920 --	<b>typhoid fever</b> (ME subset, 6,805 typhoid fever deaths in 34 registration states)	--	69
1920 --	<b>whooping cough</b> (ME subset, 10,968 whooping cough deaths in 34 reg. states)	--	126
1921 --	<b>polio</b> (Acute) esp. late Summer-Fall (Maine subset, 1,597 U.S. polio deaths)	--	17
1925 --	<b>cold</b> (excessive), ME subset of 239 US excessive cold deaths	--	5
1925 --	<b>diphtheria</b> (ME subset, 8,058 US diphtheria deaths)	--	34
1925 --	<b>dysentery</b> (ME subset, 3,257 US dysentery deaths)	--	10
1925 --	<b>excessive heat</b> (ME subset of 1,587 US excessive heat deaths; US Census Bureau)--		5
1925 --	<b>influenza</b> (ME subset, 30,538 US influenza deaths)	--	333
1925 --	<b>measles</b> (ME subset of 2,404 measles deaths in 40 “registration” states)	--	11
1925 --	<b>polio</b> (ME subset, 1,518 US polio deaths)	--	10
1925 --	<b>scarlet fever</b> (ME subset of 2,762 US scarlet fever deaths, 48 states)	--	22
1925 --	<b>tuberculosis</b> (ME subset, 89,268 US tuberculosis deaths)	--	497
1925 --	<b>typhoid/paratyphoid fever</b> (ME subset of 8,287 US Typhoid Fever deaths)	--	53
1925 --	<b>whooping cough</b> (FL subset, 6,948 US whooping cough deaths)	--	26
1931 --	<b>diphtheria</b> , especially children (Maine subset, 5,738 U.S. diphtheria deaths)	--	20
1931 --	<b>influenza</b> ; Maine subset of 31,701 influenza deaths nationwide	--	233
1931 --	<b>measles</b> , especially children; Maine subset of 3,576 measles deaths nationwide	--	22
1931 --	<b>polio</b> , esp. July-Oct, Maine subset, 2,139-2,144 US polio deaths, esp. children	--	11
1931 --	<b>tuberculosis</b> ; Maine subset of 81,395 US Tuberculosis deaths	--	393
1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec, Maine subset, 1,997 US diphtheria deaths	--	10
1939 --	<b>influenza and pneumonia</b> ; ME subset, 99,097 U.S. influenza/pneumonia deaths	--	785
1939 --	<b>tuberculosis</b> , Maine subset of 61,609 tuberculosis deaths nationwide)	--	255
1939 --	<b>whooping cough</b> (Maine subset of 3,026 whooping cough deaths nationwide)	--	36
1940 --	<b>influenza and pneumonia</b> (ME subset of 92,525 U.S. flu and pneumonia deaths)--		568
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); Maine death rate 9.0	--	76
1940 --	<b>tuberculosis</b> (Maine subset of 55,576 tuberculosis deaths nationwide)	--	229
1941 --	<b>measles</b> , especially children (Maine subset of 2,279 measles deaths nationwide)	--	16
1942 --	May 24, <b>plane crash</b> , USAAF Transport, in swamp near Howe Brook, ME	--	6
1943 --	Feb 16, <b>fire</b> , rooming house, Augusta, ME	--	8
1943 --	June 26, <b>USAAF B-26</b> , buzzes relative’s farm, crashes, kills crew/farm workers, ME--		9
1944 --	<b>cerebrospinal meningitis</b> (2,812 cerebrospinal meningitis deaths nationwide)	--	22
1944 --	<b>influenza</b> (ME subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	--	144
1944 --	<b>measles</b> , especially Jan-June (Maine subset of 1,923 measles deaths nationwide)	--	11
1944 --	Mar 06, <b>fire</b> , residence, children killed, York Beach, ME	--	7

**Maine (continued):**

1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	--	10
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	--	8
1950 --	Mar 02, <b>fire</b> , residence (kitchen oil stove suspected), Monson, ME	--	8
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for ME	--	134
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for ME	--	38
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths	--	20
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for ME	--	87
1952 --	Apr 14, USN P2V Ventura patrol <b>bomber crash</b> , Brunswick NAS, ME	--	5
1953 --	<b>influenza</b> ; 9,500 US deaths; ME subset	--	42
1953 --	<b>polio</b> (Maine subset of 1,450 polio deaths nationwide)	--	11
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; ME subset	--	87
1953 --	May 29, speeding <b>car</b> and 10-ton Power Shovel collide, South China, ME	--	6
1954 --	<b>polio</b> , acute; 1,400 US deaths; ME subset	--	8
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; subset for ME	--	68
1954 --	Jan 04, <b>fire</b> , home oil space heater explodes, Old Orchard Beach, ME	--	5
1954 --	Sep 11, <b>Hurricane Edna</b> , flash flooding and drownings, especially from vehicles	--	8
1954 --	Aug 23, home <b>fire</b> (children), wrong-size fuses/defective wiring, Waterville, ME	--	5
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; ME subset	--	55
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; ME subset	--	57
1957 --	<b>influenza</b> ; 7,463 US deaths; ME subset	--	51
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; ME subset	--	42
1957 --	Apr 12, U.S. Navy Neptune VP26 <b>bomber crash</b> , Brunswick, ME	--	6
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; ME subset	--	44
1958 --	July 29, <b>USAF B-52</b> goes out of control on AP approach, crashes 3M from Loring AFB, ME--	--	8
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; ME subset	--	32
1959 --	Jan 20, <b>fire</b> (exploding stove?), residence, children killed, Ashland, ME	--	6
1959 --	Mar 13, dwelling <b>fire</b> (five children, two adults), Easton, ME	--	7
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; ME death rate 4.3	--	42
1960 --	Mar 27, <b>home fire</b> kills widow, five children (faulty oil burner), Winthrop, ME	--	6
1960 --	Dec 11-12, Northeast <b>snowstorm/blizzard/cold</b> ; snow removal deaths, sled collision--	--	6
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; ME death rate 3.6	--	36
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; ME 4.3	--	43
1962 --	May 09 <b>plane crash</b> , USAF KC-135A Stratotanker engine failure, Loring, AFB, ME--	--	6
1963 --	<b>influenza</b> , 7,083 US flu deaths (distinct from 63,678 pneumonia); death rate 3.8; ME 3.5--	--	37
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; ME death rate 3.7	--	36
1963 --	Jan 19-2, <b>cold waves and snowstorms</b> (includes turbulent air B-52 crash/7)	--	9
1963 --	Jan 24, <b>USAF B-52</b> stabilizer shaft breaks (turbulence), <b>crash</b> ~Greenville, ME	--	7
1963 --	Dec 16, <b>fire</b> , duplex home, space heater spilled oil, children die, Portland, ME	--	6
1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; ME death rate 0.5	--	5
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; ME death rate 2.5	--	25
1965 --	<b>tuberculosis</b> , 7,934 US deaths/death rate 4.1 per 100K; ME death rate 2.9	--	29
1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; below US average (death rate) subset for ME	--	34
1967 --	July 04, <b>fire</b> , shanty family residence (defective wiring suspected), Oxford, ME	--	8
1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; ME	--	6

**Maine (continued):**

1968 --	tuberculosis	6,292 US deaths/death rate 3.15 per 100K; ME death rate 2.17	--	21
1969 --	tuberculosis	5,567 US deaths/death rate 2.76 per 100K; ME 2.44	--	24
1970 --	tuberculosis	ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; ME 2.1	--	21
1971 --	tuberculosis	4,501 US TB deaths/death rate 2.18 per 100K; ME/2.16	--	22
1971 --	Apr 02, chemicals	transferring from truck to a tank react, fumes, Berwick, ME	--	6
1972 --	tuberculosis	4,376 US deaths, death rate 2.09 per 100K; ME 1.74	--	18
1973 --	tuberculosis	3,875 US deaths/death rate 1.84 per 100K; ME 1.34 per 100K	--	14
1974 --	tuberculosis	3,513 US TB deaths/death rate 1.65 per 100K; ME, 1.13	--	12
1975 --	tuberculosis	3,333 US TB deaths/death rate 1.55 per 100K; ME, 1.31	--	14
1977 --	influenza	1,305 US flu deaths/death rate 0.59 per 100K; ME, 0.72	--	8
1977 --	tuberculosis	2,968 US TB deaths/death rate 1.35 per 100K; ME, 0.81	--	9
1978 --	tuberculosis	2,914 US TB deaths/death rate 1.31 per 100K; ME, 1.08	--	12
1978 --	Sep 22, US Navy P-3B plane crash	after engine failure/loss, near Poland ME	--	all 8
1979 --	influenza	604 US flu deaths/death rate 0.27 per 100K; ME, 0.62	--	7
1984 --	influenza	1,096 US flu deaths, death rate 0.46 per 100K, ME, 0.69	--	8
1985 --	measles	(ME subset of 5 US measles deaths)	--	1
1985 --	Aug 25, Bar Harbor Airlines Beechcraft 99 approach crash	(too low) near Auburn, ME--	8	
1987 --	HIV AIDS	13,468 deaths/US death rate 5.55 per 100K; ME, 1.01	--	12
1988 --	HIV AIDS	16,602 deaths/US death rate 6.8 per 100K population; ME, 1.41	--	17
1989 --	HIV AIDS	22,082 US deaths, death rate 8.9 per 100K population; ME, 2.62	--	32
1998 --	Jan 9~, ice storm	CO poisoning deaths/3, hypothermia/3, roof collapse/1, tree fall/1--	8	
2011 --	viral hepatitis	ICD-10 code B15-B19, US death rate 2.5 per 100K; ME, 1.4	--	19
2012 --	viral hepatitis	ICD-10 code B15-B19, US death rate 2.6 per 100,000; ME, 1.9	--	25
2013 --	viral hepatitis	ICD-10 code B15-B19; US death rate 2.6 per 100,000; ME, 1.5	--	20
2014 --	viral hepatitis	ICD-10 code B15-B19, US death rate 2.5 per 100,000; ME, 2.0	--	26
2014 --	Nov 01, 3-story rooming house fire	Portland (landlord charged with manslaughter)--	6	
2015 --	viral hepatitis	ICD-10 code B15-B19; US death rate 2.3 per 100,000; ME, 1.4	--	19
2016 --	viral hepatitis	ICD-10 code B15-B19; US death rate 2.0 per 100K; ME, 1.3	--	17
2019 --	HIV/AIDS	5,054 US deaths/death rate of 1.54 per 100,000 pop.; ME subset	--	14
2020 --	COVID-19	354,215 US Covid deaths; 1,070 per 1M; ME, 258 per 1M pop.	--	347
2021 --	exposure to excessive natural cold	1,179 US deaths/death rate 0.36; ME subset	--	10
2023 --	COVID-19	71,691 US deaths/death rate 3,597 per 1 million population	--	430

**Breakout by Type of Maine Large Loss-of-Life Events (10 or more fatalities):**

- 90 -- Disease, especially communicable, especially epidemics. (Plus 129 in "Other.")
- 23 -- Maritime and Inland Waterways. (Plus 7 drowning deaths in 1908 sloop capsizing.)
- 14 -- Violence
  - 6 -- Aviation (Plus 9 with 5-9 fatalities. Two ME-based military planes lost overseas.)
  - 6 -- Winter Weather/Cold/Hypothermia (Plus 6 other notable years 5-10 deaths.)
  - 2 -- Fire, Structural. (Plus 12 with 5-8 fatalities in "Other.")
  - 2 -- Hurricanes. Both were Maritime events and are cross-listed; another with 8 deaths/1954.
  - 1 -- Forest fire/Wildfire.
  - 1 -- Rail. (Plus 1 with 9 fatalities.)

**Maine** (continued):

- 1 -- **Structural Failure.**
- 1 -- **Vehicular/Road/Highway.** (Plus two – each with 6 fatalities.)
- 0 – **Hazardous Materials.** 6 deaths in 1971 event.
- 0 -- **Heat.** (5 years 5-9 deaths: 5 in 1897, 5 in 1900, 9 in 1901, 8 in 1913 and 5 in 1925.)



## MD

## Maryland

1. 1655 -- Mar 20, **Battle of Severn**, "Marylanders" attack "Puritans," Providence, MD -- 19
2. 1793 -- **dysentery** epidemic with "considerable mortality," Caroline County, MD<sup>359</sup> -- >10
3. 1794 -- June-Nov~, **yellow fever** epidemic, Baltimore, MD --200-360
4. 1798 -- **yellow fever** outbreak, Baltimore, MD -- 200
5. 1800 -- Summer-Fall, **yellow fever** epidemic, Baltimore, MD --900-1,197
6. 1811 -- Oct-April 1812, **smallpox** epidemic, Baltimore, MD -- 135
7. 1819 -- July 1-Oct 20, **yellow fever** epidemic, Baltimore, MD -- ≥47
8. 1821 -- Aug, **smallpox**, Baltimore, MD -- 47
9. 1821 -- Aug 21-31, **yellow fever**, Baltimore, MD -- 42
10. 1832 -- Aug 4-Nov 17, **cholera**, esp. Baltimore, Frederick, Hagerstown, MD --1,230-1,387
11. 1834 -- Nov 3-10, 16-22, **cholera**, Baltimore, MD -- 64
12. 1837 -- June 14-15, thunderstorms, **flooding**, Jones' Falls, Baltimore, MD --24-30
13. 1842 -- Apr 14, **Medora** steamboat boiler explosion, Baltimore Harbor, MD -- 28
14. 1849 -- July, **cholera**, especially Baltimore Almshouse (86-99), MD -- 159
15. 1849 -- **yellow fever** epidemic, Fell's Point, Baltimore, MD (out of 18 cases) -- 18
16. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571 -- 607
17. 1850 -- **scarlet fever**; subset 9,584 such deaths 36 States/Territories/DC (average 266)-- 561
18. 1850 -- **smallpox**; subset 2,353 smallpox deaths 31 states/4 territories/DC; avg. 65 -- 144
19. 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) --1,101
20. 1853 -- **yellow fever**, Fell's Point, Baltimore, MD -- 18
21. 1854 -- **yellow fever** outbreak, Fells' Point, Baltimore, MD (out of 40 cases) -- 20
22. 1854 -- July-Sep, **cholera**, esp. Baltimore, and Cumberland, MD -- 102
23. 1854 -- July 04, **two-train collision**, near Relay House, Baltimore, MD -- 30
24. 1857 -- Apr 14, **fire**, warehouse wall/floor collapse, Charles Street, Baltimore, MD -- 12
25. 1860 -- **croup** (contagious upper airway viral infect.), subset, 15,188 US croup deaths-- 299
26. 1860 -- **measles** (MD subset of 3,900 measles deaths nationwide) -- 120
27. 1860 -- Scarlatina (**scarlet fever**); subset of 26,402 deaths in 38 Census States & DC<sup>360</sup>-- 341
28. 1860 -- **tuberculosis** ("consumption") (MD subset of 49,082 death nationwide)<sup>361</sup> --1,197
29. 1860 -- **whooping cough** (MD subset of 8,408 whooping cough deaths nationwide) -- 206
30. 1861 -- Apr 19, **Secession mob attacks** 6<sup>th</sup> MA & 7<sup>th</sup> PA Regiments, Baltimore MD -- 16
31. 1863 -- **smallpox**, especially Baltimore and Point Lookout Confederate POW Camp -- 268
32. 1863 -- Sep-June 1865, **diarrhea & dysentery**, Confederate POWs, Point Lookout MD --2,050
33. 1863 -- Sep-June 1865 (20 months), **scurvy**, Confederate POWs, Point Lookout, MD -- 167
34. 1864 -- Nov 12, Navy Gunboat **Tulip** boiler explosion, Ragged Point, MD --49-61
35. 1865 -- Apr 25, stm. **Massachusetts** hits *Black Diamond*, Potomac Riv. ~St. Clement's Isl., MD ≥60
36. 1866 -- June 16-Oct 1, **Cholera**, Baltimore, MD -- 62
37. 1868 -- July 15-16, **excessive natural heat**, Baltimore, MD -- 24
38. 1868 -- July 24, **flood**, Baltimore and Ellicott City, MD -- 50
39. 1870 -- **diarrhoea** (157), **dysentery** (167), **enteritis** (87); data from U.S. Census -- 411
40. 1870 -- **diphtheria**; subset of 6,303 US diphtheria deaths; MD -- 218

<sup>359</sup> Our number, given that one was not noted, for the purposes of recognition. According to 1790 US Census, the population of Caroline County then was 9,566. We speculate that actual death toll would be measured in dozens.

<sup>360</sup> Second leading known cause of death in the State in 1860, behind consumption.

<sup>361</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

**Maryland (continued):**

41. 1870 --	<b>tuberculosis</b> (consumption); MD subset of ~70,000 TB deaths nationwide	--1,678
42. 1870 --	<b>typhoid fever</b> (MD subset of 22,187 U.S. typhoid fever deaths)	-- 434
43. 1870 --	<b>typhus fever</b> , 42 in Baltimore (MD subset of 1,770 typhus deaths nationwide)	-- 82
44. 1870 --	<b>whooping cough</b> (MD subset of 9,008 whooping cough deaths nationwide)	-- 281
45. 1871 --	<b>scarlet fever</b> epidemic, Baltimore, MD	-- 625
46. 1872 --	<b>smallpox</b> , Baltimore, MD	--1,217
47. 1873 --	Nov 1872-Nov 1873, <b>smallpox</b> , Baltimore, MD	-- 631
48. 1874 --	<b>scarlet fever</b> , Baltimore, MD	-- 174
49. 1876 --	<b>yellow fever</b> , Fell's Point and U.S. Marine Hospital, Baltimore (~80% lethal)	-- 74
50. 1877 --	July 20-26, <b>Great Railroad Strike</b> and violence, Baltimore, MD	--10-11
51. 1879 --	June-May 1880, <b>whooping cough</b> ; 11,064 US whoop cough deaths; MD subset	-- 298
52. 1882 --	<b>smallpox</b> , Baltimore, MD	-- 551
53. 1883 --	Jan 01-July 07 (especially Jan-Feb), <b>smallpox</b> , Baltimore, MD	-- 633
54. 1883 --	July 23, <b>pier fails</b> , North Point, Tivoli Park, Baltimore, MD	--63-70
55. 1887 --	<b>diphtheria</b> , Baltimore, MD	-- 302
56. 1888 --	Mar 11-14, <b>blizzard</b> , MD	-- 22
57. 1888 --	Aug 21, <b>tornado</b> , F2, Kent County, MD	-- 11
58. 1889-90, June-May,	<b>measles</b> , subset of 9,256 US measles deaths	-- 272
59. 1889-90, June-May,	<b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	-- 517
60. 1889 --	Feb 11-14 especially, <b>arctic cold, heavy snow, blizzard</b> , MD	-- ~14
61. 1889 --	May 31-June 2, <b>flooding</b> , District of Columbia; MD (lives lost)	-- 8-11
62. 1892 --	Feb 19-Mar 02~, schooner <b>Tecumseh</b> strands, gale, Fenwick Isl. Shoals, MD	--10-11
63. 1894 --	<b>diphtheria</b> , esp. Baltimore (231); ≥14,606 US diphtheria deaths; MD subset	-- 241
64. 1895 --	Dec 27, fire <b>panic and trampling</b> , Front St. Theater, Baltimore, MD	-- 27
65. 1896 --	<b>measles</b> , Baltimore, MD	-- 27
66. 1896 --	Aug 09-11, <b>excessive heat</b> , sunstroke, heat prostration, Baltimore, MD	-- 27
67. 1897 --	<b>typhoid fever</b> , subset of >9,192 US typhoid deaths, Baltimore (189)	-- 411
68. 1898 --	Sep 01-06, <b>heatwave</b> , sunstrokes and heat exhaustion, especially Baltimore	--13-15
69. 1900 --	<b>diphtheria</b> (MD subset, 16,475 US diphtheria deaths), esp. Baltimore (315)	-- 551
70. 1900 --	<b>tuberculosis</b> , leading cause of death in MD in 1900; 109,750 US TB deaths	--2,318
71. 1900 --	Aug 06-19, <b>excessive natural heat</b> , Baltimore, MD	-- 62
72. 1901 --	June-July (especially), <b>heat waves</b> (subset of 4,012 US heat deaths)	-- ~226
73. 1902 --	July 20, severe <b>Thunderstorm</b> , ~1:30-1:45 pm, Baltimore & vicinity, MD	--12-13
74. 1905 --	June 17, <b>trains collide</b> , Western MD Road, near Patapsco Station, MD	--23-26
75. 1905 --	<b>tuberculosis</b> , subset, 56,770 registration area deaths (10 states/135 cities) <sup>362</sup>	--1,304
76. 1907 --	<b>tuberculosis of the lungs</b> ; subset of 76,650 US TB deaths, MD	--2,292
77. 1907 --	<b>typhoid fever</b> , esp. Baltimore/230; subset of ~13K US Census area deaths	-- 520
78. 1910 --	<b>polio</b> (MD subset, 1,625 US polio deaths)	-- 35
79. 1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; MD, 40.7	-- 528
80. 1911 --	July 2-9, <b>excessive natural heat</b> , Baltimore, MD	--34-42
81. 1913 --	<b>excessive heat</b> ; 1,226 "registration area" (65% of US) deaths; subset for MD	-- 23
82. 1913 --	<b>measles</b> , 8,108 US "registration area" (65.1%) deaths; MD <sup>363</sup>	-- 201

<sup>362</sup> Data for Annapolis/26, Frederick/19, and Baltimore/1,259 (228.7 per 100K pop death rate); US avg. was 168.2

<sup>363</sup> Death rate went from 2.7 per 100,000 population in 1912 to 15.1.

**Maryland (continued):**

83.	1913 -- Jan 1-25, steamer <b>El Dorado</b> lost, from Sparrow Point, MD to Galveston, TX --	39
84.	1913 -- Mar 07, harbor/ship ( <b>Alum Chine</b> ) dynamite <b>explosion</b> , Baltimore, MD --	55
85.	1914 -- May ~15, steamer <b>F.J. Luckenbach</b> , FL to Baltimore, lost off Coast of SC? <sup>364</sup> --	29
86.	1916 -- Feb 29, Davis Coal & Coke Co., <b>Mine</b> No. 42 dust explosion, ~Kempton, MD--	16
87.	1916 -- sum.-fall, <b>polio</b> , esp. Baltimore; MD subset of ~6,700->7,000 US polio deaths--	111
88.	1918 -- <b>typhoid fever</b> (MD subset of 9,100 typhoid fever deaths nationwide)	-- 237
89.	1918 -- Aug 6-8, <b>heat wave</b> , Baltimore/8, Cumberland/2, Greensboro/1	-- 11
90.	1918 -- Sep-Apr, 1919, <b>influenza and pneumonia</b> epidemic, especially Baltimore	12,098
	1918 -- Sep-Dec, <b>influenza</b> epidemic, especially greater Baltimore, MD	--9,494
	1919 -- Jan-April, <b>influenza</b> epidemic, MD	--2,604
91.	1919 -- May 23, steamer <b>Virginia</b> fire ~Potomac Riv. mouth, Chesapeake Bay, MD	-- 6-15
92.	1920 -- Jan-March, <b>influenza</b> epidemic, Baltimore, MD	--1,091
93.	1921 -- <b>polio</b> (Acute) esp. late Summer-Fall (MD subset, 1,597 U.S. polio deaths)	-- 37
94.	1924 -- July 05, steamer <b>Three Rivers</b> fire, Chesapeake Bay, off Cove Point, MD	-- 10
95.	1925 -- <b>cold</b> (Excessive), MD subset of 239 US excessive cold deaths	-- 10
96.	1925 -- <b>excessive heat</b> (MD subset of 1,587 US excessive heat deaths; US Census Bur.)--	51
97.	1925 -- <b>tuberculosis</b> (MD subset, 89,268 US tuberculosis deaths)	--1,885
98.	1925 -- <b>whooping cough</b> (MD subset, 6,948 US whooping cough deaths)	-- 175
99.	1926 -- Nov 09, <b>tornado</b> , Charles and Prince Georges Counties, MD	-- 17
100.	1926 -- Nov 19, oil tanker <b>Mantilla</b> explos., Bethlehem Steel drydock, Sparrows Point, MD--	18
101.	1927 -- July 13-15, <b>excessive natural heat</b> , especially Baltimore, MD	-- 5-11
102.	1930 -- July-Aug, <b>excessive natural heat</b> , especially Baltimore, MD	-- 64
103.	1931 -- <b>measles</b> , especially children (MD subset, 3,576 measles deaths nationwide)	-- 97
104.	1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths	--1,583
105.	1931 -- <b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; MD, 7.4	-- 122
106.	1931 -- Summer, <b>heat</b> , and excessive heat deaths (subset, 2,768 U.S. deaths), MD	-- 36
107.	1933 -- Aug 23, <b>hurricane</b> , 11/drowned, 1/downed-wire electrocution, 2/train derails--	12-14
108.	1934 -- Summer esp., <b>excessive natural heat</b> ; subset of 3,250 US heat deaths; MD	-- 25
109.	1935 -- Apr 12, school <b>bus</b> and <b>train collision</b> , Rockville, MD	-- 14
110.	1936 -- Jan 18-28 <b>winter snow storms, extreme cold</b> , especially Baltimore area	-- 10
111.	1936 -- July-Aug (especially), <b>heat wave</b> (4,678-5,000 US heat deaths), MD subset	-- 28
112.	1940 -- <b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); MD death rate 21.5--	391
113.	1940 -- <b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, MD, 3.7	-- 70
114.	1942 -- Sep 24, <b>three-train crash</b> , Smith's Cut, so. of Frederick, ~Dickerson, MD	-- 14
115.	1943 -- May 04, <b>explosion</b> , Triumph Explosives Inc. Munitions Plant, Elkton, MD	-- 15
116.	1944 -- <b>tuberculosis</b> (MD subset of 54,731 tuberculosis deaths nationwide)	--1,326
117.	1945 -- May 25, <b>firebomb igniter explosion</b> , Edgewood Arsenal, Aberdeen, MD	-- 12
118.	1947 -- May 30, <b>plane crash</b> , Eastern Air Lines Flight 605, near Bainbridge MD	-- 53
119.	1951 -- <b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for MD	-- 746
120.	1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for MD	-- 635
121.	1953 -- <b>heat</b> , excessive natural (code E931), 576 US heat deaths, esp. Aug 22-Sep 5--	12
122.	1954 -- <b>measles</b> ; 524 US deaths; 21 states double digits; MD subset	-- 10
123.	1954 -- Mar 19, <b>USAF C-119 fire after takeoff and crash</b> , near Lothian, MD	--all 18

<sup>364</sup> Is thought the *Luckenbach* went down off SC coast. Boat based/crewed out of Baltimore. (Blanchard)

**Maryland (continued):**

124. 1954 -- June 07, **cars collide**, Rt. 416 (MD 4) Lyons Creek, Calvert County, MD -- 10  
 125. 1954 -- July 16, **explos./fire/explos.**, Kent Defense/Fireworks Mfg., Chestertown, MD-- 11  
 126. 1954 -- Oct 15-16, **Hurricane Hazel** (US 103-108) esp. Eastern Shore, MD -- 11  
 127. 1954 -- Oct 30/31, USN Lockheed R7V transport **plane** disappears off Ocean City, MD<sup>365</sup>--42  
 128. 1955 -- Aug 12, **Hurricane Connie**, Annapolis sightseeing schooner **Levin J. Marvel** capsizes-14  
 129. 1956 -- Jan 29, **fire**, Maryland Oyster Roast, Arundel Park Hall, Brooklyn, MD -- 11  
 130. 1957 -- fall-spring 1958, H2N2 Asian **Influenza/pneumonia** pandemic (US 116K) -- 849  
 131. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including MD -- 18  
 132. 1958 -- Feb 9-16, cold wave and **snow storm**, MD -- 13  
 133. 1958 -- May 20, Capital Air & MD Air Nat. Guard **planes collide**, Brunswick, MD -- 12  
 134. 1959 -- **tuberculosis**; 11,456 US TB deaths; MD subset -- 278  
 135. 1959 -- May 12, **plane crash** in storm, Capital Air Flight 75, near Chase, MD -- 31  
 136. 1960 -- **tuberculosis**; 10,866 deaths/death rate 6.1 per 100K; MD death rate 8.7 -- 259  
 137. 1960 -- Feb 25, **USN R6D / DC-3 collide in fog** off Rio de Janeiro, Brazil<sup>366</sup>--61 (USN-35)  
 138. 1960 -- Mar 02-05, **snowstorm**, subset of 187-193 US; MD --  $\geq$ 12  
 139. 1960 -- Dec 10-12, mid to north east coast **snowstorm/blizzard/coldwave**, MD<sup>367</sup> --24-28  
 140. 1961 -- **tuberculosis**, 9,938 US deaths/death rate 5.4 per 100k; MD death rate 8.1 -- 259  
 141. 1962 -- **tuberculosis**; 9,508 US deaths/death rate 5.1 per 100K pop.; MD rate 7.3 -- 232  
 142. 1962 -- Nov 23, **plane/bird collision**, United 297 Crash, Near Ellicott City, MD -- 17  
 143. 1963 -- **tuberculosis**, 9311 US deaths/death rate 4.9 per 100K; MD death rate 7.4 -- 245  
 144. 1963 -- Dec 08, **plane crash (lightning)**, Pan Am Flight 214, Elkton, MD -- 81  
 145. 1964 -- **tuberculosis**; 8,303 US deaths/death rate 4.3 per 100K; MD death rate 5.7 -- 197  
 146. 1965 -- **tuberculosis**; 7,934 US deaths, death rate 4.1 per 100K; MD death rate 5.7 -- 201  
 147. 1966 -- **meningococcal infections**, 876 US deaths, esp. CA/109, TX/59, OH/50; MD-- 11  
 148. 1966 -- **tuberculosis**, 7,625 US TB deaths; MD death rate higher than US average -- 209  
 149. 1966 -- Jan 26-30, **coldwave, snow, ice**; 251-258 US deaths Jan 26-Feb 1; MD -- 38  
 150. 1968 -- **tuberculosis**, 6,292 US deaths/death rate 3.15 per 100K; MD death rate 4.60-- 175  
 151. 1968 -- Dec 15-Mar 15, A2 Hong Kong **influenza**-pneumonia epidemic, Baltimore<sup>368</sup>--200  
 152. 1969 -- **tuberculosis**; 5,567 US deaths/death rate 2.76 per 100K; MD death rate 3.98-- 154  
 153. 1970 -- **tuberculosis**; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; MD 4.2--163  
 154. 1971 -- **tuberculosis**; 4,501 US TB deaths/death rate 2.18 per 100K; MD rate 2.99 -- 120  
 155. 1971 -- Aug 01, thunderstorm and **flooding**, metropolitan Baltimore and vicinity, MD-- 14  
 156. 1972 -- **excessive natural heat**; 234 US direct heat deaths; MD<sup>369</sup> -- 269  
 157. 1972 -- **tuberculosis**; 4,376 US deaths, death rate 2.09 per 100K; MD rate 2.85 -- 116  
 158. 1972 -- June 21-22, **flooding**, **Tropical Storm Agnes**, MD -- 21  
 159. 1973 -- **excessive natural heat**; ICD-8 code E900; 181 US deaths; MD -- 15

<sup>365</sup> Plane was out of Patuxent River Naval Air Station, MD and was last heard from at 11:30 pm 300 miles off Ocean City, and was thought to have suffered an unknown "catastrophic event" within 90 minutes of that transmission.

<sup>366</sup> Listed in MD in that 10, if not more, of 19 US Navy Band members and plane crew who died lived in MD.

<sup>367</sup> MD subset of 208-253 fatalities overall.

<sup>368</sup> U.S. influenza epidemic death toll was 33,800.

<sup>369</sup> Yes, we show MD with larger death toll than all US combined. The explanation is that the CDC, from which we get the US total, includes only direct deaths as indicated on death certificates their system catches. For MD the CDC shows 24 for the state. However, the Baltimore Dept. of Health noted 185 Baltimore heat and heat-related deaths and the State of MD noted 84 such deaths in 23 MD counties, not including Baltimore.



**Maryland (continued):**

160.	1973 --	tuberculosis	; 3,875 US deaths/death rate 1.84 per 100K; MD death rate 2.20--	90
161.	1974 --	tuberculosis	; 3,513 US TB deaths/death rate 1.65 per 100K; MD rate 1.92 --	75
162.	1975 --	tuberculosis	; 3,333 US TB deaths/death rate 1.55 per 100K; MD rate 1.61 --	67
163.	1977 --	tuberculosis	; 2,968 US TB deaths/death rate 1.35 per 100K; MD rate 1.67 --	70
164.	1978 --	exposure to excessive natural cold/hypothermia	; 652 US deaths; MD	-- 11
165.	1978 --	tuberculosis	; 2,914 US TB deaths/death rate 1.31 per 100K; MD rate 1.47 --	62
166.	1978 --	Oct 20, USCG Cutter <b>Cuyahoga</b> & MV <b>Santa Cruz II</b> collide ~Smith Point, MD-	11	
167.	1979 --	Feb 18-19, Presidents Birthday <b>winter storm</b> (snow, ice, cold)		-- 16
168.	1979 --	Apr 23, impaired driver, <b>pickup sped</b> through curve into trees ~Crofton, MD--		10
169.	1981 --	May 06, <b>plane crash</b> , USAF EC-135N, Walkersville, near Frederick, MD		-- 21
170.	1982 --	tuberculosis	; 1,807 US TB deaths/death rate 0.78 per 100K, MD rate 0.89 --	38
171.	1982 --	May 14, <b>fire</b> , row house (3 adults, 7 children), Baltimore, MD		-- 10
172.	1985 --	influenza	; 2,054 US flu deaths, death rate 0.86 per 100K, MD rate 1.02	-- 45
173.	1987 --	Jan 04, <b>Amtrak 94 rear-ends Conrail ENS-121 freight train</b> , Chase, MD		-- 16
174.	1988 --	influenza	; 1,943 US flu deaths, death rate 0.79 per 100K; MD rate 0.90	-- 42
175.	1992 --	influenza	; 1,006 US deaths, death rate 0.39 per 100K, MD death rate 0.57	-- 28
176.	1993 --	tuberculosis	; 1,631 US TB deaths, death rate of 0.63 per 100K; MD, 0.74	-- 37
177.	1994 --	exposure to excessive natural cold/hypothermia	; 633 US deaths; MD	-- 17
178.	1995 --	exposure to excessive natural cold/hypothermia	; 553 US deaths; MD	-- 13
179.	1995 --	July 14-31, exposure to <b>excessive natural heat</b> , esp. greater Baltimore, MD		-- 11
180.	1995 --	influenza	; ICD-9 code 487.0, US death rate 0.227 per 100K, MD, 0.237	-- 12
181.	1996 --	exposure to excessive natural cold/hypothermia	; 685 US deaths; MD	-- 14
182.	1996 --	Jan 07-08, <b>snow storm</b> (Blizzard of '96), MD		-- 14
183.	1996 --	Feb 16, <b>MARC and Amtrak 29 trains collide</b> , Silver Spring, MD		-- 11
184.	1998 --	exposure to excessive natural cold/hypothermia	; 420 US deaths; MD	-- 11
185.	1998 --	infectious colitis, enteritis, gastroenteritis, ICD-9 code 009.0, MD death rate 0.19 per 100K--		10
186.	1999 --	exposure to excessive natural cold/hypothermia	; 598 US deaths; MD	-- 18
187.	1999 --	influenza	; ICD-10 codes J09-11.8; US death rate 0.597 per 100K; MD, 0.666	-- 35
188.	1999 --	tuberculosis	; ICD-10 code A16-19, death rate 0.333 per 100K; MD, 0.381	-- 20
189.	1999 --	<b>excessive heat</b> , Baltimore (subset of 1,050 heat-related deaths nationwide)		-- 24
190.	2001 --	exposure to excessive natural cold/hypothermia	; 599 US deaths; MD	-- 12
191.	2001 --	<b>excessive natural heat</b> ; 538 US deaths; subset for MD, esp. Baltimore/10		-- 14
192.	2002 --	exposure to excessive natural cold/hypothermia	; 646 US deaths; MD	-- 23
193.	2002 --	<b>excessive heat</b> , esp. Baltimore/34 (subset of 626 US heat-related deaths)		-- 50
194.	2002 --	influenza	; ICD-10 codes J09-11; US death rate 0.253 per 100K; MD, 0.257	-- 14
195.	2003 --	exposure to excessive natural cold/hypothermia	; 620 US deaths; MD	-- 26
196.	2004 --	exposure to excessive natural cold/hypothermia	; 676 US deaths; MD	-- 22
197.	2004 --	tuberculosis	; ICD-10 code A16-19, death rate 0.22 per 100K; MD, 0.29	-- 16
198.	2005 --	exposure to excessive natural cold/hypothermia	; 700 US deaths; MD	-- 15
199.	2005 --	exposure to <b>excessive natural heat</b> ; 939 US deaths, subset for MD		-- 47
200.	2006 --	exposure to excessive natural cold/hypothermia	; 519 US deaths; MD	-- 11
201.	2006 --	summer, <b>heat</b> , esp. Baltimore, also Calvert, Carroll, Harford, Howard, PG counties--		44
202.	2006 --	tuberculosis	; ICD-10 code A16-19, death rate 0.22 per 100K; MD, 0.23	-- 13
203.	2007 --	exposure to excessive natural cold/hypothermia	; 711 US deaths; MD	-- 15

**Maryland (continued):**

204.	2007 -- exposure to <b>excessive natural heat</b> ; 582 US deaths, subset for MD	--	20
205.	2008 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; MD	--	18
206.	2008 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; MD, 0.21	--	12
207.	2008 -- exposure to <b>excessive natural heat</b> ; 502 US deaths, subset for MD	--	19
208.	2009 -- exposure to excessive natural <b>cold/hypothermia</b> ; 616 US deaths; MD	--	15
209.	2009 -- <b>H1N1 "Swine Flu,"</b> especially spring through winter, MD	--	43-45
210.	2010 -- exposure to excessive natural <b>cold/hypothermia</b> ; 710 US deaths; MD	--	15
211.	2010 -- exposure to <b>excessive natural heat</b> ; 874 US deaths, subset for MD	--	34
212.	2011 -- exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for MD	--	35
213.	2012 -- exposure to <b>excessive natural heat</b> , esp. elderly, especially Baltimore, MD	--	46
214.	2012 -- Oct 29-30, <b>Hurricane Sandy</b> (subset of 154-155 U.S. deaths), MD	--	11
215.	2013 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, MD 0.9	--	53
216.	2013 -- exposure to <b>excessive natural heat</b> , especially greater Baltimore, MD	--	19
217.	2013 -- exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; MD	--	15
218.	2014 -- exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; MD	--	23
219.	2015 -- exposure to excessive natural <b>cold/hypothermia</b> ; 815 US deaths; MD	--	14
220.	2015 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 1.6 per 100K; MD rate 1.7	--	102
221.	2016 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.7 per 100K, MD 0.9	--	57
222.	2016 -- exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; MD	--	16
223.	2016 -- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for MD	--	29
224.	2016 -- <b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; MD rate 3.2	--	190
225.	2017 -- exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths; MD	--	17
226.	2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; MD rate 3.29	--	199
227.	2018 -- exposure to excessive natural <b>cold/hypothermia</b> ; 1028 US deaths; MD	--	23
228.	2018 -- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for MD	--	30
229.	2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; MD rate 3.06	--	185
230.	2019 -- exposure to excessive natural <b>cold/hypothermia</b> ; 1115 US deaths; MD	--	22
231.	2019 -- exposure to <b>excessive natural heat</b> ; 915 US deaths/death rate 0.27, MD 0.41	--	25
232.	2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; MD 3.06 <sup>370</sup>	--	185
233.	2019 -- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, MD, 1.41	--	85
234.	2020 -- exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; MD	--	17
235.	2020 -- exposure to <b>excessive natural heat</b> ; 1,174 US deaths, subset for MD	--	11
236.	2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; MD 2.96	--	179
237.	2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths; 1,070 per 1M pop.; MD rate 975	--	5,895
238.	2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; MD rate 1.9K	--	5,683
239.	2021 -- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for MD	--	19
240.	2021 -- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; MD death rate 2.60	--	160
241.	2021 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 602 US deaths/death rate 0.18; MD 0.32	--	20
242.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; MD death rate 7.26	--	4,389
243.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for MD	--	13
244.	2023 -- <b>COVID-19</b> , 71,691 US deaths/death rate 3,597 per 1 million population	--	1,404
245.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for MD	--	13

<sup>370</sup> Third highest death rate behind DC (9.92) and FL (3.23).

**Some Select/Notable Other Maryland Large Loss-of-Life Events:<sup>371</sup>**

1817 -- Aug 8-9, <b>flooding</b> , especially Jones Falls area, Baltimore, MD	--	6
1833 -- <b>cholera</b> , esp. late July-early Sep, esp. C&O canal workers Williamsport area	--	≥21
1850 -- <b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), MD	--	59
1850 -- <b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	--	142
1870 -- <b>measles</b> (MD subset of 9,237 measles deaths nationwide)	--	177
1870 -- <b>scarlet fever</b> , especially children (MD subset of 20,339 deaths nationwide)	--	331
1879 -- June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	184
1879 -- June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	302
1879 -- June-May 1880, <b>malarial fever</b> , (MD subset, 20,231 such deaths nationwide)	--	171
1879 -- June-May 1880, <b>measles</b> , esp. children (MD subset, 8,254 U.S. measles deaths)	--	45
1879 -- June-May 1880, <b>meningitis</b> (MD subset of 7,481 meningitis deaths nationwide)	--	50
1879 -- June-May 1880, <b>scarlet fever</b> , esp. children (MD subset, 16,388 US S.F. deaths)	--	154
1879 -- June-May 1880, <b>tuberculosis</b> (MD subset of 91,270 TB deaths nationwide)	--	1,302
1879 -- June-May 1880, <b>typhoid fever</b> (MD subset of 23,339 U.S. Typhoid deaths)	--	304
1881 -- <b>diphtheria</b> , Westminster, MD	--	10
1885 -- <b>diphtheria and croup</b> , Baltimore, MD	--	299
1888 -- Sep 02, <b>fire</b> , firefighters killed, Hopkins Place, Baltimore, MD	--	7
1889 -- June-May 1890, <b>croup</b> , MD	--	235
1889 -- June-May 1890, <b>diphtheria</b> ; subset, 27,815 US diphtheria deaths; Baltimore/113	--	293
1890 -- Jan-Mar, <b>influenza</b> (La Grippe/Russian Flu), Baltimore, MD	--	481
1890 -- <b>typhoid fever</b> , esp. Baltimore (MD subset, ~30,000 typhoid deaths nationwide)	--	476
1896 -- Sep 29, <b>hurricane</b> , Olney/1, Sandy Point/3, Texas/1 and Washington Grove/3, MD--	--	8
1898 -- <b>typhoid</b> (MD subset of 4,627 deaths), Baltimore and 1st & 5 <sup>th</sup> MD, US camps	--	232
1900 -- <b>croup</b> (upper airway contagious viral infection; MD subset, 12,484 US croup deaths--	--	162
1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	--	165
1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths)	--	221
1900 -- <b>malarial fever</b> (14,874 US malarial fever deaths)	--	131
1900 -- <b>measles</b> (subset of 12,866 US measles deaths)	--	102
1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths), MD	--	312
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths), MD	--	39
1900 -- <b>typhoid fever</b> (MD subset of 35,379 typhoid fever deaths nationwide)	--	510
1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths), MD	--	102
1906 -- <b>epidemic cerebrospinal meningitis</b> , MD	--	31
1910 -- <b>typhoid fever</b> , Baltimore, MD (subset of ~25,000 US typhoid fever deaths)	--	235
1911 -- <b>polio</b> ; subset of 1,060 “registration area” deaths (63.1% pop.), MD	--	34
1913 -- <b>polio</b> , acute, esp. summer-fall, 864 “registration area” (65% pop.) deaths, MD	--	19
1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; MD rate 1.8	--	24
1915 -- <b>polio</b> ; 691 registration area deaths (67.1% population); subset for MD	--	21
1915 -- Dec-Jan 1916, <b>influenza and pneumonia</b> subset of larger epidemic, Baltimore	--	276
1916 -- <b>diphtheria</b> , especially children (MD subset, >8,000-17,000 US diphtheria deaths)--	--	166
1916 -- June 13, <b>grain elevator dust explosion</b> , Central Elevator Co., Baltimore, MD	--	9
1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; MD 17.1	--	235

<sup>371</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

**Maryland (continued):**

1917 --	<b>polio</b> , esp. June-Sep, especially children (State subset, $\geq 1,182$ U.S. polio deaths)	-- 16
1919 --	<b>diphtheria</b> (subset, 9,160 US diphtheria deaths)	-- 224
1920 --	<b>diphtheria and croup</b> (MD subset, 13,395 such deaths in 34 registration states)	-- 192
1920 --	<b>measles</b> (subset of 7,712 measles deaths in 34 registration states); MD	-- 94
1920 --	<b>scarlet fever</b> (MD subset of 4,004 such deaths in 34 registration states)	-- 36
1920 --	<b>typhoid fever</b> (MD subset of 6,805 typhoid fever deaths in 34 registration states)	-- 100
1920 --	<b>whooping cough</b> (MD subset, 10,968 whooping cough deaths in 34 reg. states)	-- 145
1925 --	<b>diphtheria</b> (MD subset, 8,058 US diphtheria deaths)	-- 103
1925 --	<b>dysentery</b> (MD subset, 3,257 US dysentery deaths)	-- 64
1925 --	<b>influenza</b> (MD subset, 30,538 US influenza deaths)	-- 318
1925 --	<b>measles</b> (MD subset of 2,404 measles deaths in 40 "registration" states)	-- 24
1925 --	<b>meningococcus meningitis</b> (MD subset, 1,095 US meningitis deaths)	-- 27
1925 --	<b>polio</b> (MD subset, 1,518 US polio deaths)	-- 17
1925 --	<b>scarlet fever</b> (MD subset of 2,762 US scarlet fever deaths, 48 states)	-- 16
1925 --	<b>scurvy</b> (vitamin C deficiency), MD subset, 5 <sup>th</sup> highest, 58 scurvy deaths in 24 States--	4
1925 --	<b>typhoid/paratyphoid fever</b> (MD subset of 8,287 US Typhoid Fever deaths)	-- 116
1931 --	<b>epidemic cerebrospinal meningitis</b> , MD subset, 2,832 US meningitis deaths	-- 29
1931 --	<b>diphtheria</b> , especially children (MD subset, 5,738 U.S. diphtheria deaths)	-- 66
1931 --	<b>influenza</b> (MD subset of 31,701 influenza deaths nationwide)	-- 333
1931 --	<b>polio</b> , esp. July-Oct, (MD subset of 2,139-2,144 U.S. polio deaths, esp. children)	-- 11
1935 --	Aug 20, <b>car</b> slides into bus path, wet road, killing car occupants ~Bowie, MD	-- 5
1936 --	Feb 04-19, especially, <b>arctic cold waves, snow</b> (273 US deaths), MD	-- 9
1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (MD subset of 1,997 U.S. diphtheria deaths)	-- 23
1939 --	<b>influenza and pneumonia</b> (MD subset, 99,097 US influenza/pneumonia deaths)	--1,391
1939 --	<b>tuberculosis</b> (MD subset of 61,609 tuberculosis deaths nationwide)	--1,094
1939 --	<b>whooping cough</b> (MD subset of 3,026 whooping cough deaths nationwide)	-- 27
1939 --	summer, <b>excessive heat</b> (subset of 527-1,073 heat deaths nationwide), MD	-- 8
1940 --	<b>influenza and pneumonia</b> (MD subset, 92,525 U.S. flu and pneumonia deaths)	--1,328
1940 --	<b>tuberculosis</b> (MD subset of 55,576 tuberculosis deaths nationwide)	--1,230
1941 --	<b>measles</b> , especially children (MD subset of 2,279 measles deaths nationwide)	-- 13
1944 --	<b>cerebrospinal meningitis</b> (2,812 cerebrospinal meningitis deaths nationwide)	-- 57
1944 --	<b>influenza</b> (MD subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	-- 152
1944 --	<b>measles</b> , especially Jan-June (MD subset of 1,923 measles deaths nationwide)	-- 26
1944 --	<b>whooping cough</b> (MD subset of 1,878 whooping cough deaths nationwide)	-- 29
1947 --	Sep 15, <b>USAF B-17 explodes</b> /crashes, Bush River at Chesapeake Bay ~Aberdeen MD--	9
1948 --	<b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	-- 11
1948 --	Nov 04, George M. Nethken Coal Co., Milt No. 1 <b>mine</b> fire suffocations, Kitzmiller MD--	5
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	-- 13
1948 --	Jan 13, <b>Eastern Air Lines</b> DC-3 hits tree tops, too-low approach to Nat. AP, Oxen Hill MD--	5
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	-- 25
1950 --	Feb 28, <b>speeding car</b> /4 Ft. Meade soldiers, hits taxi, US 1 near Patapsco Riv. Bridge, MD--	6
1951 --	Jan 01, <b>cars collide</b> , US 1 (Baltimore Washington Boulevard), near Savage, MD	-- 7
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for MD	-- 54
1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; subset for MD	-- 10



**Maryland (continued):**

1952 --	<b>polio</b> , subset of ~3,300 US polio deaths	--	15
1953 --	<b>influenza</b> ; 9,500 US deaths; MD subset	--	78
1953 --	<b>polio</b> ; acute; 1,450 US deaths; MD subset	--	25
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; MD subset	--	446
1954 --	<b>polio</b> , acute; 1,400 US deaths; MD subset	--	10
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; MD subset	--	347
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; MD subset	--	320
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; MD subset	--	334
1957 --	<b>influenza</b> ; 7,463 US deaths; MD subset	--	66
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; MD subset	--	319
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; MD subset	--	339
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; MD death rate 1.7	--	54
1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; MD death rate 0.8	--	25
1961 --	Feb 02, <b>speeding train derails</b> (Philadelphia Racing Special), Bowie, MD	--	6
1963 --	<b>influenza</b> , 7,083 US deaths <sup>372</sup> /death rate 3.8; MD death rate 3.5	--	116
1964 --	Jan 12-14, <b>snowstorm and coldwave</b> , esp. NE US (146-167), MD	--	9
1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; MD death rate 0.5	--	17
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for MD	--	21
1966 --	Nov 6, rowhouse <b>fire</b> , West Franklin Street, West Baltimore, MD	--	8
1967 --	Jan 08, <b>USN plane crash</b> after takeoff from <b>Andrews AFB</b> , ~Upper Marlboro, MD--	9	
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; MD 2.39--	91	
1968 --	Apr 04-11, Martin Luther King Jr. assassination <b>rioting</b> , Baltimore, MD	--	6
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; MD 1.0--	40	
1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; MD 1.04	--	41
1971 --	Apr 06, <b>car</b> with US Coast Guardsmen, goes into Curtis Creek near Glen Burnie, MD--	6	
1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; MD rate 1.37--	56	
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; MD 0.83	--	34
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; MD/0.945--	39	
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; MD, 0.795	--	33
1975 --	Jan 18, rowhouse <b>fire</b> (cigarette), 7 children/1 adult, Walbrook Ave. Baltimore, MD--	8	
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; MD 1.9--	77	
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; MD, 1.27	--	53
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; MD, 0.85	--	36
1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; MD, 0.73	--	31
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, MD, 0.95	--	40
1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; MD, 0.66	--	28
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, MD rate 0.68	--	29
1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; MD rate 0.77	--	33
1983 --	<b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, MD rate 0.32	--	14
1983 --	<b>tuberculosis</b> , 1,779 US TB deaths/death rate 0.76 per 100K; MD rate 0.56	--	24
1983 --	Dec 9, <b>fire</b> (careless smoking) row house (five children), west Baltimore, MD	--	8
1983 --	Dec 22-31, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	--	8
1984 --	Mar 8-9, <b>winter weather</b> , severe cold and snow, icy roads	--	6

<sup>372</sup> Distinct from the 63,678 pneumonia deaths noted in the next column in Table 1-12.

**Maryland (continued):**

1984 --	tuberculosis	, 1,729 US TB deaths, death rate 0.73 per 100K; MD, 0.43	--	19
1985 --	tuberculosis	, 1,752 US TB deaths, death rate 0.74 per 100K; MD, 0.66	--	29
1986 --	influenza	; 1,838 US flu deaths; death rate 0.76 per 100K: MD, 0.56	--	25
1986 --	tuberculosis	, 1,782 US deaths, death rate 0.74 per 100K; MD death rate 0.51	--	23
1987 --	HIV AIDS	, 13,468 deaths/US death rate 5.55 per 100K; MD, 4.42	--	202
1987 --	tuberculosis	; 1,755 US TB deaths, death rate 0.72 per 100K, MD, 0.48	--	22
1987 --	Summer esp.	<b>excessive natural heat</b> ; subset of ~388 US heat deaths; MD	--	8
1988 --	HIV AIDS	, 16,602 deaths/US death rate 6.8 per 100K population; MD, 5.32	--	248
1988 --	tuberculosis	, 1,921 US TB deaths, death rate 0.78 per 100K pop.; MD, 0.62	--	29
1989 --	HIV AIDS	; 22,082 US deaths, death rate 8.9 per 100K population; MD, 8.66	--	410
1989 --	influenza	, 1,593 US flu deaths, death rate 0.64 per 100K population; MD, 0.32	--	15
1989 --	tuberculosis	; 1,970 US TB deaths, death rate 0.80 per 100K; MD, 0.53	--	25
1989 --	Dec 01,	<b>US Army CASA 212 plane crash</b> , Patuxent River NAS, MD	--	5
1990 --	influenza	, 2,098 US flu deaths; death rate 0.84 per 100K population; MD, 0.29	--	14
1990 --	tuberculosis	, 1,810 US TB deaths, death rate 0.73 per 100K; MD, 0.46	--	22
1991 --	tuberculosis	, 1,713 US TB deaths, death rate 0.68 per 100K, MD, 0.45	--	22
1992 --	tuberculosis	, 1,705 US TB deaths, death rate 0.66 per 100K; MD, 0.55	--	27
1992 --	July 07,	<b>arson fire</b> set by mother kills six of her children, Baltimore, MD	--	6
1993 --	influenza	, 1,044 US flu deaths, death rate 0.40 per 100K; MD, 0.38	--	19
1994 --	tuberculosis	; 1,478 US TB deaths; death rate 0.56 per 100K, MD, 0.52	--	26
1994 --	Jan 09,	<b>fire</b> (clothing on heating grate), row house (6 children), Baltimore, MD	--	7
1994 --	Feb 26,	<b>fire</b> , from candle; rowhouse; power turned off, west Baltimore, MD	--	9
1995 --	tuberculosis	; 1,336 US TB deaths/death rate 0.5 per 100K; MD, 0.49	--	25
1996 --	influenza	, 745 US flu deaths; US death rate 0.276 per 100K; MD, 0.196	--	10
1996 --	tuberculosis	, 1,202 US TB deaths; death rate 0.45 per 100K, MD, 0.29	--	15
1997 --	tuberculosis	, ICD-9 code 010-018, death rate 0.43 per 100K, MD 0.39	--	20
1998 --	influenza	, ICD-9 code 487.0; US death rate 0.62 per 100K; MD, 0.33	--	17
1998 --	tuberculosis	, ICD-9 code 010-018, death rate 0.40 per 100K; MD, 0.25	--	13
2000 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.627 per 100K; MD, 0.359	--	19
2001 --	tuberculosis	, ICD-10 code A16-19, death rate 0.268 per 100K; MD, 0.242	--	13
2001 --	summer,	<b>excessive natural heat</b> , Baltimore, MD	--	6
2002 --	tuberculosis	, ICD-10 code A16-19, death rate .273 per 100K, MD, 0.257	--	14
2003 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.618 per 100K; MD, 0.327	--	18
2003 --	Sep 18-19,	<b>Hurricane Isabel</b> , esp. Anne Arundel/Baltimore/Prince George's Counties-	9	
2004 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.376 per 100K; MD, 0.361	--	20
2005 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.613 per 100K; MD, 0.608	--	34
2005 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.22 per 100K; MD, 0.21	--	12
2006 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.285 per 100K; MD, 0.267	--	15
2007 --	May 22,	<b>fire</b> (smoking materials), row house, east Baltimore, MD	--	8
2008 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.57 per 100K; MD rate 0.37	--	21
2008 --	Feb 16,	<b>car hits street race spectators</b> , Indian Head Highway, Accokeek, MD	--	8
2009 --	diarrhoea/gastroenteritis	of Infectious Origin; US death rate 0.9 per 100K; MD, 0.9	--	53
2009 --	influenza (avian)	, ICD-10 code J09 (US death rate 0.5 per 100K); MD, 0.4	--	23
2009 --	June-Aug especially,	<b>excessive heat</b> (MD subset of 257 heat deaths nationwide)	--	6

2010 --	<b>diarrhoea/gastroenteritis</b> of infectious origin, US death rate 0.9 per 100K, MD 0.8	--	45
2010 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; MD, 0.2	--	10
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; MD rate 2.1	--	119
2010 --	Dec 14, <b>fire</b> , two-story brick row house home, east Baltimore, MD	--	6
2011 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin, US death rate 0.9 per 100K, MD 0.7	--	40
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; MD, 2.2	--	131
2012 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin, US and MD death rate 0.8 per 100K	--	49
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; MD, 2.1	--	122
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; MD, 1.9	--	115
2013 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; MD rate 0.9	--	54
2013 --	<b>tuberculosis</b> , ICD-10 code A16-A19, US and MD death rate 0.2 per 100,000	--	10
2014 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin, US and MD death rate 0.8 per 100K	--	46
2014 --	exposure to <b>excessive natural heat</b> ; 360 US heat-related deaths, subset for MD	--	8
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; MD, 2.1	--	123
2014 --	<b>influenza</b> , ICD-10 codes J09-11.8; US avg. death rate 1.4 per 100K; MD rate 0.8	--	49
2014 --	Dec 08, <b>Sage Aviation AP approach crash</b> into houses, fire, Gaithersburg MD	--	6
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; MD 0.7	--	39
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; MD, 1.9	--	115
2015 --	Jan 19, house <b>fire</b> ; old Xmas tree (grandparents & 4 grandchildren), Annapolis	--	6
2015 --	Mar 28-29, <b>carbon monoxide poisoning</b> , family home, Princess Anne, MD	--	8
2016 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.9 per 100K; MD rate 0.6	--	37
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; MD rate 1.7	--	100
2017 --	<b>excessive heat</b> from natural sources, subset of $\geq 727$ US heat deaths, MD	--	5
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; MD death rate 1.55	--	94
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., MD death rate 2.07	--	125
2020 --	<b>influenza</b> <sup>373</sup> ; 5,943 US deaths/death rate 1.8 per 100K; MD death rate 1.73	--	105
2021 --	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; MD rate 0.32	--	20

#### Breakout by Type of **Maryland** Large Loss-of-Life Events (10 or more fatalities):

- 121 -- **Disease**, especially communicable, especially epidemics. (Plus 162 in "Other.")
- 36 -- **Heat**. (Plus 5 years 5-9 deaths: 8 in 1987, 6 in 2001 and 2009, 8 in 2014, 5 in 2017.)
- 34 -- **Winter Weather/Cold/Hypothermia**. (Plus 5 other notable years.)
- 12 -- **Maritime and Inland Waterways**.
- 9 -- **Aviation**. (Plus 5 events noted with 5-9 deaths each.)
- 5 -- **Flooding**. (Plus one with six deaths in "Other;" one cross-listed with Hurricane remnant.)
- 5 -- **Hurricanes**. (Plus two – one with 8 deaths in 1896 and one with 9 in 2003.)
- 5 -- **Rail**. (We note as well one event in 1961 when 6 lives were lost.)
- 4 -- **Explosions**. (Plus 1 with 9 dead; excludes 4 Maritime explosions and 1 in mining.)
- 4 -- **Violence**. (Plus one with 6 deaths in "Other.")
- 3 -- **Fire**. Plus 10 at 6-9 deaths; 9 deaths/1994; 8/1966/1975/1983/2007; 7/1888/1994; 6/1992/2010/2015.
- 3 -- **Vehicular**. (Plus 5 events 5-8 deaths.)
- 2 -- **Tornadoes**.
- 1 -- **Mining**. (Plus one event <10 deaths: 5 in 1948 coal mine fire.)
- 1 -- **Structural Failure**.

<sup>373</sup> Distinct from 47,601 pneumonia deaths in 2020 (ICD codes J12-J18).

**Maryland (continued):**

**1 -- Thunderstorm/Windstorm**

**0 -- Carbon Monoxide Poisoning.** (But 8 deaths in March 28-29, 2015 family home.)



## MA

## Massachusetts

1. 1616 -- **epidemic**, Wampanoag, btw. Provincetown, MA and Narragansett Bay, RI<sup>374</sup> --thousands
2. 1620-21 -- Winter, **disease and exposure**, Plymouth Colony, MA -- ~ 50
3. 1633-34 -- **smallpox** epidemic, New England Natives, Plymouth Colonists, MA<sup>375</sup> --100's
4. 1635 -- Aug 14-15, storm, pinnace **Watch and Wait** wrecks on Thacher Island, MA -- 21
5. 1648-49 -- **smallpox** epidemic, Mass. Bay Col., esp. Scituate, Roxbury, Cape Cod<sup>376</sup> --major
6. 1666 -- **smallpox**, (population of colony about 4,000), Boston, MA --40-50
7. 1675 -- ~June 23-25, **King Philips War** begins, Wampanoags attack Swansea, MA -- 9-12
8. 1675 -- Sep 02, settlers **killed in Native attack** on Northfield, MA -- 8-10
9. 1675 -- Sep 18-19,<sup>377</sup> **Bloody Brook Massacre**, Natives attack wagon train, S. Deerfield --59-76
10. 1676 -- Feb 10, **massacre**, Nipmuc Natives attack Lancaster, MA --34-35
11. 1676 -- Feb 21, **massacre**, Nipmuc and Narragansett Natives attack Medfield, MA --17-18
12. 1676 -- Mar 12, **massacre**, Natives Attack Clark House, Eel River, ~Plymouth, MA --11-12
13. 1676 -- Apr 18, **massacre**, Natives attack settlers at Sudbury, MA -- 7-12
14. 1676 -- May 19, Eng. colonists **massacre** Natives, Peskeompskut, Turners Falls, MA--200-300
15. 1676 -- June 12, Mohawks **massacre** Native camp whose men were attacking Hadley -- 50
16. 1676 -- Aug-Sep, **Bloody Flux (dysentery)** Mass. Bay Colony, especially Boston<sup>378</sup> -- 50
17. 1677-78--**smallpox** epidemic, Massachusetts Bay Colony, esp. Boston & vic. --750-1,000
18. 1677 -- Sep 19, **massacre**, Pocumtuck natives attack English colonists, Hatfield, MA--12-15
19. 1689-90 -- **smallpox**, New Eng. (esp. Boston<sup>379</sup>)/NY, settlers/natives (≥820-1,500) -- >320
20. 1693 -- June 17 start, **yellow fever**, Boston, British fleet arrival from Martinique<sup>380</sup> -- ≤10?
21. 1694 -- July 27, **massacre**, Natives attack settlers, Groton, MA --20-22
22. 1695 -- Aug 05, **massacre**, Natives attack settlers, Billerica, MA -- 10
23. 1697 -- Mar 15, **massacre**; Natives attack English settlers, Haverhill, MA -- ~40
24. 1697 -- Sep 11, **massacre**, Natives attack Lancaster, MA --21-26
25. 1702 -- Summer (late) to early Spring 1703, **smallpox** epidemic, Boston, MA --302-313
26. 1704 -- Feb 29, **massacre**, French and Native allies attack **Deerfield**, MA<sup>381</sup> -- 68
27. 1704 -- May 13, **massacre**, Natives attack settlers, Pascommuck (Easthampton) MA -- 19
28. 1708 -- Aug 29, **raid/massacre**, French and Indians attack settlers, Haverhill, MA --16-19
29. 1713-14 -- Oct-1714, **measles** epidemic, Boston/100, (also CT, RI, NY, NJ, NH, PA) -- >109
30. 1715 -- "**malignant disease**," Plymouth, MA -- 40
31. 1716 -- five Gloucester MA **fishing vessels lost**, Voyage to Cape Sable -- ~ 20

<sup>374</sup> Cross-listed in Maine and Rhode Island.

<sup>375</sup> Though smallpox spread through New England, numbers here are primarily Plymouth Colony vicinity, including 20 Plymouth colonists. About 950 Natives in one tribe were reported to have died from smallpox; according to Gov. William Bradford, mostly in Conn. River area (runs through MA as well as CT), though that is not absolutely clear.

<sup>376</sup> Have not found a source speculating on death-toll. One source notes this was a "major outbreak" over a fairly wide area of the colony (including Roxbury Scituate and Cape Cod, with Boston to a lesser extent), and another source stating that it was a "very virulent" outbreak, noting Scituate, Cape Cod, Boston and Roxbury. Whatever the actual death toll, it surely was more than ten, thus warranting inclusion herein.

<sup>377</sup> Both dates are used, apparently depending on whether old style or new style dating is applied.

<sup>378</sup> Fifty deaths in August (Increase Mather). Was also reported still deadly in September but we have no numbers.

<sup>379</sup> There were 320 smallpox deaths reported in Boston alone. Lovejoy (1972, 351) writes that the government was moved out of Boston to Charleston because of the epidemic.

<sup>380</sup> Approximately 3,100 British sailors and soldiers died from yellow fever on way to Boston and while stationed there in June and July. It was only reported that "several" colonists succumbed in Boston.

<sup>381</sup> Though death tolls vary, we rely on Demos and Sheldon. Includes 39 in attack, 9 in pursuit party, 20 captives.

### Massachusetts (continued):

32. 1721 -- May-Apr 1722, **smallpox**, Mass. Bay Colony, esp. Boston & Charlestown --957-1004
33. 1730 -- **smallpox** epidemic, Massachusetts Bay Colony, especially Boston --  $\geq 502$
34. 1732 -- Oct, **influenza** outbreak, Ipswich (17), Nantucket (~3), New London (6)<sup>382</sup> --  $\geq 26$
35. 1735 -- Aug-July, 1736; **scarlet fever** outbreak, Boston, MA --100-114
36. 1736 -- July-Nov, epidemic (**scarlet fever or diphtheria?**), esp. children, Marblehead MA-- ~25
37. 1737-38, Dec-Jan '38; **smallpox**, esp. Chilmark & Edgartown, Martha's Vineyard, MA-- 12
38. 1735-40--"Throat Distemper" (**diphtheria**), esp. Essex County (1,400), MA-->1,616->1,645
39. 1741 -- Pre-April, "**long**" or "**lung**" fever," Sutton, MA (19), New London, CT (?) --  $\geq 19$
40. 1741 -- Summer to Fall, **yellow fever** outbreak, Boston, MA -- 15
41. 1753-54--Dec-Jan (2 mo.), **unknown epidemic fever**, Holliston (pop. ~80 families), MA--43
42. 1745 -- Malignant **dysentery**, at least two deaths in each of five families, Shrewsbury<sup>383</sup>-- 10
43. 1746 -- **dysentery** ("Fever & Flux") Epidemics, esp. Harvard/37, Westborough/25 MA --  $\geq 62$
44. 1747 -- "Throat Distemper" (**diphtheria**), esp. Bridgewater (51) and Kingston (~30), MA  $\geq 89$
45. 1749-50 -- "Throat Distemper" (**diphtheria**), MA, esp. Tewksbury ( $\geq 38$ ) -- $\geq 106$ -112
46. 1751-52 -- "Throat Distemper" (**diphtheria**), esp. Abington/Hingham/Weymouth, MA-240-290
47. 1752 -- Early in year through at least Summer, **smallpox** epidemic, Boston, MA --535-569
48. 1756 -- epidemics, esp. **dysentery**; Mass. Bay Col., esp. Rutland/60, Lancaster/42, MA-- >225
49. 1761 -- Spring, 1st American **influenza** epidemic, esp. Natives, esp. MA, PA<sup>384</sup> --hundreds
50. 1763-64 -- Aug-Feb, **yellow fever**, Indians, Nantucket Isl., & Martha's Vineyard, MA<sup>385</sup>--200-261
51. 1763-64 -- Dec-July 1764, **smallpox** epidemic, Boston (170) & Cambridge (6), MA col.-176
52. 1764 -- "**throat distemper**" (**diphtheria**), especially children, Westminster, MA -- 15
53. 1766 -- March, storm, 7 Gloucester MA **fishing boats sink**, Grand Bank -- ~40
54. 1767-70-- **diphtheria** epidemic (12% of population, mostly children), Oxford, MA --96-144
55. 1769 -- Aug-Sep, Flux (**dysentery**) and Fever Outbreak, esp. children, Boston, MA -- ~108
56. 1770 -- "Chin" (**whooping**) cough epidemic esp. children, Salem (pop. ~5,000), MA -- 37
57. 1771 -- May-July, **scarlet fever** (especially children), Duxbury, MA --  $\geq 10$
58. 1773 -- **smallpox**, Beverly (1), Marblehead (~3), and Salem ( $\geq 17$ ), MA -- ~21
59. 1775 -- summer-fall (esp.), **dysentery**, esp. Marlborough, Needham, Westford, MA --  $\geq 482$
60. 1776 -- **dysentery** epidemics, Chester, Kingston, Roxbury, etc. MA<sup>386</sup> --  $\geq 15$
61. 1777 -- **dysentery**, esp. Conway (73), Granville (34), Greenfield (50), Shelburne (80) --  $\geq 255$
62. 1777 -- privateer **The Gloucester** lost at sea, out of Gloucester, MA -- ~60
63. 1778 -- late summer-fall, **dysentery**, esp. Dunstable, Lexington/Medford/Tewksbury, MA-111
64. 1778 -- Dec 25, **gale**, brig. **General Arnold**, sloop **Stark** ground, Plymouth Bay, MA -- 101
65. 1786 -- Dec 5, **gale**,<sup>387</sup> **sloop** grounds, Lovell's Isl., Brig at Pt. Shirley, Boston Harbor, MA-- 18
66. 1795 -- "Throat Distemper" (**diphtheria**), Royalston (66) and Rutland (5) MA -- 71

<sup>382</sup> We note "26, if not more" though the numbers add to 26, in that sources note influenza was widespread in 1732 Mass. Bay Colony, especially in coastal communities. We report only on localities for which we have numbers.

<sup>383</sup> There may well have been other fatalities -- this number reflects five named families who lost at least two members each. One source describes a similar outbreak in Stamford, CT, with 70 deaths as typhoid fever.

<sup>384</sup> Cross-listed in Pennsylvania.

<sup>385</sup> The Nantucket Island Native American population was decimated, only a small percentage survived.

<sup>386</sup> We suspect a high death toll, but do not have supporting numbers. For example, it was said that dysentery was "very mortal" in Kingston, but we report no deaths there, since we have seen no numbers. We show ten deaths in Chester, but this is just taking advantage of reports of two or more children dying in five named families.

<sup>387</sup> Hypothermia ashore was cause of death for all victims.

**Massachusetts (continued):**

67. 1795 -- **scarlet fever**, at least 16 MA towns, esp. Beverly/19, Sterling/8, Topsfield/11--  $\geq$ 39  
68. 1796 -- **dysentery**, Sheffield/mill ponds area (44-60), and Worcester (59), MA --103-119  
69. 1796 -- **scarlet fever** outbreak (especially children), Marblehead, MA -- 21  
70. 1796 -- Aug start, **yellow fever**, Newburyport, MA --  $\geq$ 44  
71. 1797 -- summer-fall, **dysentery**, Nantucket Island (100), Sutton (8), Westport, MA (30)--138  
72. 1798 -- summer-fall, **yellow fever** outbreak, Boston, MA -- 200  
73. 1798 -- Nov 17-21, **New England blizzard** and **maritime** storm and losses<sup>388</sup> --  $>$ 25  
74. 1800 -- July-Oct **smallpox** epidemic blamed on virulent smallpox **vaccine**, Marblehead MA<sup>389</sup>-- 68  
75. 1800 -- summer-fall, **yellow fever** outbreak, Boston, MA -- 60  
76. 1801 -- Oct (1<sup>st</sup> week), **dysentery** outbreak (3-4 children a day), Salem, MA --  $\geq$ 10  
77. 1802 -- **yellow fever** outbreak, Boston, MA -- 60  
78. 1802 -- Feb 22/23, **winter storm**, **ships ground**, esp. **Brutus**, **exposure**, Cape Cod, MA-- 14  
79. 1802 -- Aug 1-Nov 2, **dysentery** outbreak, esp. children, esp. Greenfield & Shelburne, MA--121  
80. 1803 -- summer-fall, **dysentery**, esp. children, esp. Greenfield (11), Oxford (6), MA --  $>$ 31  
81. 1804 -- Oct 09, **winter storm** ("Hurricane"), New England, especially coast of MA<sup>390</sup>--  $\geq$ 30  
82. 1805 -- Sep-Oct (esp.), **dysentery**, esp. Ashburnham/9, Beverly/24, Cambridge/9, MA-- 50  
83. 1810-11-- "**canker rash**" (diphtheria or scarlet fever),<sup>391</sup> children, Winchendon, MA -- 59  
84. 1819 -- late June-Aug, **yellow fever**, Fort Hill area and *Ten Brothers*, Boston, MA --  $\geq$ 18  
85. 1832 -- July-Nov, **cholera** outbreak, esp. Boston, also Andover, Mt. Wash., MA -- 50  
86. 1839 -- Dec 15, **winter gale**, **maritime losses**, MA coast/harbors, esp. Gloucester --67-90  
87. 1839 -- Dec 22-23, **gale**, maritime losses (barque **Lloyd**/9, brig **Pocahontas**/13), MA -- 22  
88. 1840 -- Jan 13, steamship **Lexington** fire/sinks, Long Island Sound, NY<sup>392</sup> --118-156  
89. 1842 -- May 6, sailing boat **Polka** capsizes off Thompson's Island, Mass Bay, MA -- 25  
90. 1843 -- Aug, Gloucester MA fishing schooner **The Byron** lost, "South Channel" -- 10  
91. 1846 -- Jun 27, brig **Sutley** wrecks, Pictou N.S. to Fall River Vineyard Sound, MA -- 30  
92. 1846 -- Sep 19, gale, eleven **fishing schooners lost**, out of Marblehead, MA -- 65  
93. 1846 -- Nov 25, gale, Gloucester MA schooners **General Scott**, **Canton** lost, Georges -- 15  
94. 1849 -- **cholera** epidemic, especially Boston, also Hamden County, and Quincy, MA --1,064  
95. 1849 -- summer-Fall, **heat and sunstroke**; subset of 248 such deaths 31 States, MA -- 63  
96. 1849 -- Oct 6-7, **hurricane/severe storm**, **St. John & Levi Woodbury** wreck, MA -- 143  
97. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 19,404 MA deaths-- 339  
98. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571--2,437  
99. 1850 -- **measles**; subset 2,988 US measles deaths; average was 83 per State/Ter., MA-- 118  
100. 1850 -- **scarlet fever**; subset 9,584 such deaths 36 States/territories/DC (avg. 266) -- 571  
101. 1850 -- **smallpox**; subset 2,353 smallpox deaths 31 states/4 territories/DC; avg. 65 -- 232  
102. 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) --3,426

<sup>388</sup> The loss of life was much larger, but we do not know the number. David Ludlum writes in *Early American Winters 1604-1820* (p.75) that "hundreds" died in this storm and that the bodies of at least 25 sailors were pulled from wrecked ships on Cape Cod alone. He also notes that at least seven ships were lost near Cape Cod with all aboard. Seems likely that at least ten people would have died in Mass., but we have no confirming reports.

<sup>389</sup> Cross-listed in Tainted Food, Drugs and Medicine.

<sup>390</sup> All but one death was maritime-related.

<sup>391</sup> "Canker rash" was a term used to describe both what was later referred to as scarlet fever and diphtheria. There were similar and dissimilar symptoms. Thus without detailed descriptions at the time it is not clear which disease.

<sup>392</sup> Cross-listed here in that at least 38 of the fatalities, according to Howland (1843), were from Massachusetts.

**Massachusetts (continued):**

103. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC; avg. 147-- 240
104. 1850 -- Apr, Gloucester MA fishing schooners **Walter Scott** and **Specie** lost at sea -- 15
105. 1850 -- Oct 06, storm, emigrant (Irish) ship **Saint John**, wrecks, Scituate, MA -- 99
106. 1851 -- Oct 3-4, storm, **fishing schooners** lost or damaged, Prince Edward Island, Can-- 84
107. 1852 -- Mar, Gloucester schooners **Golden Fleece & C.E. Parkhurst** lost, Georges Bank-17
108. 1853 -- Feb 16/26, brig **Vintage** sails from Salem, MA for West Coast of Africa, lost-- 10
109. 1853 -- Aug 12-18, **heatwave**, especially Boston (23), MA -- 31
110. 1854 -- **cholera** epidemic, Boston, MA -- 650
111. 1854 -- Feb, fishing schooner **Flight** lost, Georges Bank Gloucester, MA -- 12
112. 1855 -- Mar, Gloucester MA schooners **Reporter & Abner L. Colby** lost, Georges Bank-- 16
113. 1856 -- Nov 2, schooner **Le Lyonnais** collision, Nantucket Island, MA --120-260
114. 1858 -- Oct, fishing schooner **Village Belle** lost, Gloucester, MA -- 16
115. 1858 -- Dec, Gloucester MA schooner **John Franklin** lost after leaving Prince Ed. Il.-- 14
116. 1859 -- Apr ~1, storm, Gloucester schrs. **Grace T. Powers & Charles E. Grover** lost-- 17
117. 1860 -- **croup** (contagious upper airway viral infection), subset, 15,188 US deaths -- 581
118. 1860 -- **measles** (MA subset of 3,900 measles deaths nationwide) -- 141
119. 1860 -- **scarlet fever** (MA subset of 26,402 deaths in 38 Census States & DC) -- 809
120. 1860 -- **smallpox** (State subset of 1,263-1,271 smallpox deaths in reporting States) -- 473
121. 1860 -- **tuberculosis** ("consumption") (MA subset of 49,082 US TB deaths)<sup>393</sup> --4,845
122. 1860 -- **whooping cough** (MA subset of 8,408 U.S. whooping cough deaths) -- 352
123. 1860 -- Jan 10, **building collapse & fire**, Pemberton Cotton Mills, Lawrence, MA --90-145
124. 1860 -- Feb, Gloucester MA schrs. **George Washington, Advance, Wonson, Relief** lost-- 35
125. 1860 -- Sep 22, Gloucester MA sch. **Neptune's Bride** wrecks, Malcomb's Ledge, ME<sup>394</sup>-- 12
126. 1861 -- Feb, Gloucester MA schrs. **Sweepstakes, Young, Stanwood, White Swallow** lost-34
127. 1861 -- Nov 02-03, storm, ship **Maritana** wrecks, Egg Rocks ~Boston Light, MA --24-27
128. 1862 -- Jan 01, storm, Gloucester schooners **Cynisca, Life Boat, Ocean Traveller** lost-- 29
129. 1862 -- Feb 24, **Blow of 1862, 15 Gloucester, MA boats** lost, Georges Bank -- 122
130. 1864 -- Feb-Mar (esp. Mar 22), **8 Gloucester, MA fishing schooners** lost at sea --74-75
131. 1867 -- Aug, two Gloucester, MA **fishing schooners** lost on Georges Bank -- 17
132. 1867 -- Sep, Gale, Gloucester MA Fishing Sch. **Fashion** lost, Bay of St. Lawrence -- 13
133. 1867 -- Oct 19, **naphtha explos./fire**, Hoosac **Tunnel shaft**, Northern Berkshires, MA-- 13
134. 1868 -- July 4-18, **excessive heat** and sunstrokes, MA -- 30
135. 1868 -- June, Gloucester MA fishing schooner **General Butler** lost, Georges Bank -- 10
136. 1868 -- ~Dec-Jan 1869, storm, Gloucester, MA fishing schr. **Forest Belle** lost, GB -- 12
137. 1869 -- Mar 6-7, gale, Gloucester schrs. **Price, Porter & Woodbury** lost, Georges Bank-- 31
138. 1869 -- Sep 08, **hurricane**, Gloucester fishing schooner **Yankee Girl** lost, 4 on shore-- 15
139. 1870 -- **diarrhoea** (406), **dysentery** (427), **enteritis** (284); data from U.S. Census --1,114
140. 1870 -- **diphtheria** (MA subset of 6,303 diphtheria deaths nationwide) -- 280
141. 1870 -- **measles** (MA subset of 9,237 measles deaths nationwide) -- 294
142. 1870 -- **scarlet fever**, especially children (subset of 20,339 U.S. deaths); MA -- 911
143. 1870 -- **smallpox** (subset of 4,597 US smallpox deaths); MA -- 116
144. 1870 -- **tuberculosis** (consumption) (Mass. subset of ~70,000 US TB deaths) --5,157

<sup>393</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>394</sup> Cross-listed in Maine where the loss occurred.



**Massachusetts (continued):**

145. 1870 -- **typhoid fever** (State subset of 22,187 typhoid fever deaths nationwide) --1,142
146. 1870 -- **whooping cough** (subset of 9,008 whooping cough deaths nationwide), MA-- 361
147. 1870 -- Jan, Gloucester, MA fishing schooner **Viking** lost on way to Grand Banks -- 11
148. 1870 -- Jan 25, Gloucester, MA fishing schooner **Weather Gage** lost, Grand Banks -- 10
149. 1870 -- Mar, Gloucester MA fishing schooner **William F. Pool** lost on Georges Bank-- 10
150. 1870 -- Sep, Gloucester MA fishing schr. **Dauntless** lost on way to St. Lawrence Bay-- 12
151. 1870 -- Sep 18, Gale, Gloucester, MA fishing schooner **Day Star** lost at sea -- 12
152. 1870 -- Oct, Gloucester, MA fishing schooner **Alatamaha** lost, Georges Bank -- 10
153. 1871 -- Jan 9, Gloucester, MA fishing schooner **Edith Wonson** lost on Western Bank-- 12
154. 1871 -- Feb, Gloucester, MA fishing schooners **Hiawatha & E.L. Cook** lost at sea -- 21
155. 1871 -- Summer, East Gloucester, MA fishing schooner **River Queen** lost at sea -- 12
156. 1871 -- Apr 2, gale, Gloucester, MA schooners **Lindberg, Pride, Murray, Hough** lost-- 42
157. 1871 -- Aug 26, **trains collide**, Eastern RR of Mass., Revere Station ~Boston MA --29-32
158. 1871 -- Sep 2, Gloucester, MA fishing schooners **Montrose** and **Emporia** lost at sea -- 17
159. 1872 -- **cerebrospinal meningitis**, MA, especially Boston) -- 175
160. 1872 -- **smallpox**, Boston, MA --1,600
161. 1872 -- Mar, Gloucester, MA fishing schooners **Matchless** and **Franklin Snow** lost -- 22
162. 1872 -- July 01-07, **heatwave and sunstroke**, Boston, MA, -- 20
163. 1872 -- Jan, Gloucester, MA fishing schooner **Messenger** lost on Western Bank -- 12
164. 1872 -- Nov 9-10, **conflagration**, "Great Boston Fire of 1872," Boston, MA --25-41
165. 1872 -- Dec 26, storm, bark **Kadosh** wrecked, ship **Peruvian** lost, MA coast -- 32
166. 1873 -- **cerebral spinal meningitis** epidemic, Boston & Lowell MA -- 253
167. 1873 -- **smallpox**, essentially Boston and vicinity, MA -- 668
168. 1873 -- Mar, Gloucester, MA fishing schooner **J. H. Orne** lost on Georges Bank -- 11
169. 1873 -- Aug 24, **unnamed hurricane**, **fishing fleet** maritime losses, Gloucester, MA-- 128
170. 1874 -- **scarlet Fever**, MA --1,382
171. 1874 -- Feb 11, gale, Gloucester, MA fishing schooner **B. H. Smith**, lost Grand Banks-- 12
172. 1874 -- March, Gloucester, MA fishing schooner **White Fawn** lost Western Banks -- 12
173. 1874 -- May 16, Mill River Reservoir **dam failure**, **flooding**, Williamsburg MA --138-139
174. 1874 -- Sep 19, **fire**, Granite Mill No. 1, Fall River, MA --23-25
175. 1874 -- Nov, Gloucester, MA fishing schooner **G. G. Kidder** lost, Grand Banks --12-13
176. 1875 -- Jan, Gloucester, MA fishing schooner **David Burnham** lost, Grand Banks -- 12
177. 1875 -- Jan, Gloucester, MA fishing schooner **Joseph Chandler** lost, Grand Banks -- 12
178. 1875 -- Feb, Gloucester, MA fishing schooner **J. C. Call** lost, Grand Banks -- 12
179. 1875 -- Feb, Gloucester, MA fishing schooner **Sarah H. Cressey** lost, Grand Banks -- 12
180. 1875 -- Mar, Gloucester, MA fishing schooner **H.B. Stanwood** lost, Georges Bank -- 12
181. 1875 -- Mar. Gloucester MA fishing schooner **William C. Endicott** lost, Georges Bank-- 10
182. 1875 -- May 27, **fire**, Holyoke Catholic Church, Holyoke, MA -- 75
183. 1875 -- Nov, Gloucester, MA fishing schooner **Pharsalia** lost, Georges Banks -- 12
184. 1876 -- ~Apr 4, Gloucester, MA fishing schooner **Kearsarge** lost, Georges Bank -- 11
185. 1876 -- Apr 8, Gloucester MA fishing schr. **Henrietta Greenleaf** capsizes ~Georges Bk-- 10
186. 1876 -- Apr-May, Gloucester, MA fishing schooner **James L. Shute** lost on GB -- 14
187. 1876 -- Apr-May, Gloucester, MA fishing schooner **Janet Middleton** lost on GB -- 11
188. 1876 -- ~May, Gloucester, MA fishing schooner **Saratoga** hit/sunk, Georges Bank -- 9-12

**Massachusetts (continued):**

189. 1876 -- Sep, Gloucester, MA fishing schooner **Walter M. Falt** lost, Grand Banks -- 12
190. 1876 -- Oct, Gloucester, MA fishing schooner **Joseph F. Allen** lost, Western Bank -- 10
191. 1876 -- Dec, Gloucester, MA fishing schooner **D. E. Woodbury** lost, trip to GB -- 10
192. 1876 -- Dec, Gloucester, MA fishing schooner **Howard Steele** lost, La Have Bank -- 11
193. 1876 -- Dec, Gloucester, MA fishing schooner **J.F. Huntress** lost, La Have Bank -- 10
194. 1876 -- Dec, Gloucester, MA fishing schooner **John S. Tyler** lost, La Have Bank -- 10
195. 1876 -- Dec, Gloucester, MA fishing schooner **Modena B. Jerauld** lost, La Have Bank-- 11
196. 1876 -- Dec, Gloucester, MA fishing schooner **William T. Merchant** lost, Grand Bk.-- 12
197. 1876 -- Dec, Gloucester, MA fishing schooner **Wyoming** lost, La Have Bank -- 9-10
198. 1877 -- Jan, Gloucester, MA fishing Schooner **Mary Burnham** lost, La Have Bank -- 11
199. 1878 -- Jan 2-3, Cape Cod Storm, schooners **A.P. Avery, Powwow, F. Fish** wrecked-- ~12
200. 1878 -- Jan 10, storm, Boston fishing sch. **Little Kate** grounds near Duxbury, MA -- 13
201. 1878 -- Jan-Feb, Gloucester, MA fishing schooner **Carrie P. Morton** lost, Grand Bk.-- 14
202. 1878 -- Oct 08, **train derailment**, Old Colony Road, Wollaston, near Boston, MA -- 19
203. 1878 -- Oct 12, whaling bark **Sarah** capsizes in gale, out of Bedford, MA -- 22
204. 1878 -- Oct 20, Last sighting Gloucester fishing schooner **Cunard** for Grand Banks-- 14
205. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 US croup deaths)--625
206. 1879 -- June-May 1880, **measles**, esp. children (MA subset, 8,254 US measles deaths)-236
207. 1879 -- June-May 1880, **meningitis** (MA subset of 7,481 US meningitis deaths) -- 224
208. 1879 -- June-May 1880, **scarlet fever**, esp. children (subset, 16,388 US S.F. deaths)-- 459
209. 1879 -- June-May 1880, **tuberculosis** (MA subset of 91,270 US TB deaths) --3,102
210. 1879 -- June-May 1880, **typhoid fever** (MA subset, 23,339 US typhoid fever deaths)-- 882
211. 1879 -- Feb 20-21, storm, **~13 Gloucester, MA schooners** lost, George's Bank --143-157
212. 1879 -- Apr, Gloucester, MA fishing schooner **Ida** (or *Ada*) **E. Baker**, Western Bank-- 12
213. 1879 -- Apr, Gloucester, MA fishing schooner **William Thompson** lost, Banks -- 14
214. 1879 -- Oct, Gloucester, MA fishing schooner **Andrew Leighton** lost, LaHave Bank-- 14
215. 1879 -- Oct 29, Gloucester MA fishing sch. **N.H. Phillips** lost, Banquereau Bank NS-13-14
216. 1879 -- Oct-Dec, Gloucester MA fishing sch. **Harvey C. Mackay** lost, Grand Banks -- 10
217. 1880 -- **diphtheria**, esp. Sep-Dec, esp. children<sup>395</sup> --1,769
218. 1880 -- Jan 1-Oct 16, **smallpox**, MA -- 38
219. 1880 -- Mar 23, Gloucester, MA sch. **Annie C. Norwood** lost, Caches' Shoal, MA -- 14
220. 1880 -- Nov, Gloucester, MA fishing schooner **Nathaniel Webster** lost, the Banks -- 14
221. 1881 -- **diphtheria**, especially Boston (601), MA --1,706
222. 1881 -- March-Dec, **smallpox**, especially Holyoke (15) from Nov 13-Dec 31, MA -- 47
223. 1881 -- Apr 15, Gloucester, MA fishing schooner **Carrie S. Dagle** lost, Western Bk.-- 12
224. 1881 -- Aug-Sep, Gloucester, MA fishing sch. **Guy Cunningham** lost, Grand Banks --13-14
225. 1882 -- Feb 5?, gale, Gloucester schs. **Bellerophon, Carroll, Pew, Revere, Somes**, GB-- 67
226. 1882 -- Mar 17?, gale, Gloucester MA schooners **Northerner** and **Victor** lost, GB -- 24
227. 1883 -- Aug 29, gale, Gloucester MA schooners **Alaska** and **James Bliss** lost, GB --23-24
228. 1883 -- Sep, Gloucester MA schooner **Charles Hildreth** lost, trip to Georges Bank -- 10
229. 1883 -- Nov 12-14, gales, 9 Gloucester, MA **fishing schooners** lost, Georges Bank -- 114
230. 1883 -- Dec 28, gale, Gloucester schooners **Stetson, Knutsford, Irving, Maddocks** lost- 52-55

<sup>395</sup> Noted as "very fatal epidemic of diphtheria" in MA Sec. of State report to Legislature. Later combines 625 croup deaths with diphtheria deaths for total of 2,394, making combined maladies leading cause of death in the State.

**Massachusetts (continued):**

231. 1884 -- Jan 18, stmr. **City of Columbus** hits Devil's Bridge reef/sinks, Martha's Vyd., MA--103
232. 1884 -- Feb 28, gale, Gloucester MA fishing schooners **Magic** and **Phoenix** lost -- 26
233. 1885 -- **diphtheria and croup**, esp. Boston/436, Cambridge/72, Worcester/101 -- 996
234. 1885 -- Feb 9~, gale, Gloucester, MA fishing schooner **Solomon Poole** lost, GB -- 14
235. 1885 -- May 5, New Bedford, MA whaling bark **Napoleon** sunk by ice, Bering Sea -- 22
236. 1885 -- Dec 25-Jan 1886, Gloucester, MA fishing sch. **Hyperion** lost, GB trip gale? -- 12
237. 1885 -- Dec 25-Jan 1886, Gloucester, MA fishing schooner **Mabel Dilloway** lost -- 16
238. 1885 -- Dec-Jan 1886, Gloucester, MA fishing schooner **Virginia Dare** lost, GB -- 14
239. 1886 -- Jan 8-10, Gale, schs. **L. Babcock, Juliet, Witherspoon, J. Brown** founder/strand-20
240. 1886 -- Apr 07, **train derails** between Bardswell Ferry/W. Durfield Station, MA -- 13
241. 1886 -- Jun-Jul, Gloucester, MA fishing schooner **Seth Stockbridge** lost, Greenland -- 14
242. 1886 -- Aug-Sep, Gloucester, MA fishing schooner **George L. Smith** lost GB trip -- 14
243. 1886 -- Aug-Sep, Gloucester, MA fishing schooner **John F. Wonson** lost, Brown's Bk.--10
244. 1887 -- **diphtheria**, especially Boston (410), MA --1,628
245. 1887 -- Feb 05, **train derails** into White River, Fire, Hartford, VE<sup>396</sup> -- >40
246. 1887 -- Mar 14, **Bussey Bridge collapses under train**, Roslindale, Forest Hills, MA-23-37
247. 1887 -- Apr, Gloucester, MA fishing schooner **Jamestown** lost, Western Bank -- 12
248. 1887 -- Apr-Aug, MA fishing schooner **Lydia Y. (or T.) Crowell**, lost, N.S. fishing --15-16
249. 1887 -- Aug 20, Gale, Provincetown MA whaling sch. **Ellen Rizpah** lost ~Hatteras --13-14
250. 1887 -- Sep 3~, Gloucester, MA fishing sch. **Thomas L. Tarr** lost, Gale, Banks trip -- 14
251. 1887 -- Sep 3, Gale, Provincetown, MA fishing sch. **Rebecca R. Nickerson** lost, GB-- 19
252. 1887 -- Nov-Dec, Gloucester, MA fishing schooner **Peter D. Smith** lost Georges trip-- 12
253. 1887 -- Nov-Dec, Gloucester, MA fishing schooner **William Parsons 2<sup>nd</sup>**, lost, GB -- 12
254. 1888 -- Jan, Gloucester MA fishing schooners **William Parsons & Peter D. Smith** lost-- 24
255. 1888 -- Jan 10, **train derailment**, Merrimac River Bridge, Haverhill, MA -- 9-14
256. 1888 -- Mar 11-14, **blizzard**, MA -- 55
257. 1888 -- Nov 25, storm, Philly steam collier **Allentown** grounds off Cohasset, MA<sup>397</sup> --all 18
258. 1888 -- Nov 26, storm, schooner **Edward Norton** wrecks, First Cliff Pt., Scituate, MA-- 15
259. 1888 -- Nov-Dec, Gloucester, MA fishing schooner **Carleton** lost, Georges trip -- 12
260. 1888 -- Nov-Dec, Gloucester, MA fishing schooner **Joseph O.** lost, Georges trip -- 12
261. 1889 -- Mar 26~, Gloucester, MA fishing sch. **Shiloh** reported run down off Cape Cod-- 14
262. 1889-90 -- June-May, **croup**, MA -- 490
263. 1889-90 -- June-May, **diphtheria**; subset, 27,815 US diphtheria deaths; MA<sup>398</sup> --1,774
264. 1889-90 -- June-May, **typhoid fever**; subset of 27,058 US typhoid deaths, MA -- 817
265. 1890 -- Jan 09~, Gloucester, MA fishing schooner **Alice M. Strople** lost, GB gale? -- 14
266. 1890 -- Feb 02, **fire**, shop and tenement, North Street, Boston, MA --12-14
267. 1890 -- Mar-Apr, Gloucester, MA fishing schooner **William W. Rice** lost, Iceland trip-- 16
268. 1890 -- Aug 06, Boston sch. **Magellan**, sunk by the **St. Mary** near Falkland Islands --20-22
269. 1890 -- Aug 19, **train derails**, Cape Cod Express, Old Colony RR, near Quincy, MA-- 23
270. 1891 -- Jan-Feb?, Gloucester, MA fishing schooner, **Veteran** lost, Georges trip -- 12
271. 1891 -- Sep, Gale, Beverly, MA fishing schooner **Albert Woodbury** lost ~Nova Scotia-11-12

<sup>396</sup> Cross-listed in MA in that many of the fatalities were from Boston.

<sup>397</sup> Cross-listed in PA in that the ship was owned and operated out of Philadelphia, and most of the crew were PA.

<sup>398</sup> Had above avg. death rate of 38.33 per 1,000; avg. US rate was 33.06. Lawrence was at 121.0 and Boston, 49.05.

**Massachusetts (continued):**

272.	1891 -- Sep-Oct, Gloucester, MA fishing schooner <b>Percy</b> lost, Georges Bank trip	--	12
273.	1891 -- Oct, MA fishing schooner, <b>Hattie N. Reed</b> lost at sea	--	15
274.	1893 -- Aug, Gloucester, MA fishing schooner <b>Pioneer</b> lost at sea, Georges Bank trip--		12
275.	1893 -- Aug 31, <b>bridge fails, train wreck</b> , near Chester, MA	--	13
276.	1894 -- <b>diphtheria</b> , esp. Boston (878), MA subset of $\geq 14,606$ US diphtheria deaths	--	1,508
277.	1894 -- <b>smallpox</b> , subset of 1,752 US smallpox deaths	--	33
278.	1894 -- Jan 12-13~, Gloucester fishing schooners. <b>Edwards, Flash, Henrietta</b> lost, gale--		26
279.	1894 -- Mar 12-Jun~, Gloucester fishing sch. <b>Ambrose H. Knight</b> lost, Iceland trip	--	16
280.	1894 -- Apr, Gloucester, MA fishing schooner <b>Martha and Susan</b> lost, Georges trip--		13
281.	1895 -- Feb 09, Gloucester schooner <b>Clara F. Friend</b> strands, Eastern Head, N.S.	--	12
282.	1895 -- Nov 23-Dec, Gloucester fishing schooner <b>Falcon</b> lost, Georges Bank trip	--	11
283.	1896 -- <b>measles</b> , esp. Boston (27), Fall River (12) Worcester (7) Somerville (6)	--	115
284.	1896 -- Aug 8-12, <b>excessive natural heat</b> ; subset of 2,038 US heat deaths; Boston	--	24-29
285.	1897 -- <b>typhoid fever</b> , subset of ~9200 US typhoid deaths; Boston (173)	--	1,185
286.	1897 -- July 6-11, <b>excessive natural heat</b> (608-616 US Heat deaths), MA subset	--	15
287.	1897 -- Nov 25, Provincetown, MA sch. <b>Susan R. Stone</b> sails for West. Bank, lost	--	19
288.	1898 -- Jan 31-Feb 1, <b>storm, maritime fatalities</b> , MA Coast, esp. Gloucester area	--	17-35
289.	1898 -- Nov 26-27, <b>Portland Gale, MA maritime</b> , esp. <i>SS Portland</i> (127-176), MA--~300		
	-- 127-176 Side-wheel steamer, <b>SS Portland</b> , off Cape Cod.		
	-- 15 <b>F. R. Walker</b> , fishing schooner, off Cape Cod.		
	-- 16 Steamer <b>Pentagoet</b> , off Cape Cod.		
290.	1899 -- Feb 14~, Gloucester MA schooner <b>A.M. Burnham</b> lost on Brown's Bank	--	12
291.	1900 -- <b>diphtheria</b> (MA subset 16,475 US diphtheria deaths), esp. Boston (391)	--	1,072
292.	1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	--	267
293.	1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths; largest state loss to flu)	--	1,130
294.	1900 -- <b>measles</b> (subset of 12,866 US measles deaths)	--	311
295.	1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths; 4 <sup>th</sup> largest state loss)	--	1,206
296.	1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths; 5 <sup>th</sup> highest state loss)	--	384
297.	1900 -- <b>tuberculosis</b> (49,756 MA deaths all causes) (109,750 US TB deaths)	--	5,224
298.	1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	--	375
299.	1900 -- July-Aug (esp.), <b>excessive natural heat</b> ; subset of 1,266 US heat deaths, MA--		89
300.	1900 -- Sep 14, Gloucester, MA fishing schooner <b>Sigfrid</b> sails for Quero Bank, lost	--	13
301.	1901 -- <b>smallpox</b> , especially Boston (75)	--	98
302.	1901 -- Jan 22, Gloucester, MA schooner <b>Commonwealth</b> sails for Georges Bank, lost--		14
303.	1901 -- June-July (especially), <b>heat waves</b> (subset of 4,012 US heat deaths)	--	195
304.	1901 -- Sep 16, Gloucester, MA cod-fishing schooner <b>Lolanthe</b> sails; lost at sea	--	14
305.	1902 -- <b>smallpox</b> , esp. Boston (189); U.S. death rate 6.6 per 100,000; MA 9.7	--	283
306.	1902 -- Jan 25, Gloucester, MA fishing schooner <b>Alva</b> sails for Georges Bank, lost	--	17
307.	1902 -- Jan 29, <b>fire</b> , Italian tenement, Fleet Street, North End, Boston, MA	--	10-11
308.	1902 -- Mar 17, Monomoy Station <b>lifeboat capsizes</b> off Chatham, MA	--	12
309.	1902 -- June-Aug (especially July) <b>excessive natural heat</b> ; subset, 290 US heat deaths--		12
310.	1902 -- July 17, sudden squall, excursion party <b>boat capsizes</b> , ~Appledore Is. ME <sup>399</sup> --		14
311.	1902 -- Dec 17, Schooners <b>Louise B. Crary/Frank A. Palmer</b> collide, Gloucester, MA--		11

<sup>399</sup> Listed in MA as well as ME in that while the boat capsized in ME waters, 10 of the 14 drowned, were of MA.



**Massachusetts (continued):**

312. 1902 -- Dec 17, last sighting, Gloucester fishing schr. **Annie Wesley**, off Sable Island-- 14
313. 1903 -- May 5, fog, Gloucester, MA fishing sch. **Gloriana** grounds, White Point, N.S.-- 15
314. 1903 -- June-Aug (especially first half July), **high heat**; subset of 520 US heat deaths-- 23
315. 1903 -- July 29, **powder/dynamite explos./fire**, U.S. Cartridge Co., Tewksbury, MA-20-22
316. 1903 -- Sep 16, Gloucester sch. **George F. Edmunds**, grounds, storm, Pemaquid Pt. ME-- 15
317. 1904 -- Jan 2-4, **blizzard, maritime gale and Arctic cold**, MA (US 76-78) -- 12
318. 1904 -- June -Aug, **excessive natural heat**, subset of 235 US heat deaths, MA -- 25
319. 1905 -- **epidemic cerebrospinal meningitis**; 5,114 such deaths in US -- 550
320. 1905 -- Mar 20, **boiler explosion**, Grover & Co. Shoe Factory, Brockton, MA -- 58
321. 1905 -- Nov 26, **trains collide**, Bakers Bridge, MA --17-20
322. 1906 -- July 23, **Amsden building collapse**, , South Framingham, MA -- ~12
323. 1906 -- **epidemic cerebro-spinal meningitis**; 3,258 in US registration area; MA -- 345
324. 1907 -- **tuberculosis** (subset of 76,650 US TB), Boston had 1,149 --4,857
325. 1907 -- July 15, USS **Georgia** gun turret powder explosion off Cape Cod, MA -- 10
326. 1907 -- Oct 22, Gloucester, MA fishing sch. **Clara G. Silva** loses five dories, storm -- 10
327. 1908 -- Jan/Feb, Gloucester fishing schooner **Northern Eagle** lost, Gulf of Mex.<sup>400</sup> -- 9-10
328. 1908 -- Apr 12, **fire**, the Great Chelsea Fire/Conflagration of 1908, Chelsea, MA --15-19
329. 1908 -- May 26, Boston sch. **Fame**/UK steamer **Boston** collide, fog, Cashes Bank, ME-- 18
330. 1909 -- **polio** (acute), especially children; subset of 266 US polio deaths; MA -- 74
331. 1909 -- Aug 18, Gloucester, MA schooner **Orinoco** capsizes, Sambro, Nova Scotia -- 11
332. 1909 -- Dec 26, schooner **Davis Palmer** founders off Boston Harbor, MA -- 14
333. 1910 -- **polio**, especially children, MA -- 122
334. 1910 -- Jan 22, schooner **Henry B. Fiske** of Boston, capsizes off Nantucket MA -- 8-10
335. 1910 -- Dec 29, **boiler explosion**, Morewood Lake Ice Co., south of Pittsfield, MA -- 17
336. 1911 -- **polio**; subset of 1,060 “registration area” deaths (63.1% pop.), MA -- 55
337. 1911 -- Jan 10, barges **Trevorton, Corbin, Pine Forest**, wreck, Cape Cod, MA -- 17
338. 1911 -- Jan 21~, Gloucester sch. **Ella M. Goodwin** departs Bay of Islands, NFL, lost-- 10
339. 1911 -- May, **Septic sore throat (from hemolytic streptococcus in milk)**, Boston MA-38-48
340. 1911 -- July 03-10, **heat wave**, especially Boston, MA --39-51
341. 1911 -- Oct 29-Dec 30 (two months), **tuberculosis**, State of MA -- 570
342. 1912 -- Jan-May 12, **tuberculosis**, State of MA --1,000
343. 1912 -- Mar 15, Gloucester schooner **Patrician** founders, Jordan Bay, Nova Scotia -- 10
344. 1913 -- **heat**; 1,226 “registration area” (65% of US) deaths; subset for MA -- 28
345. 1913 -- **measles**, 8,108 US “registration area” (65.1%) deaths; MA -- 499
346. 1913 -- **polio**, acute, esp. summer-fall, 864 “registration area” (65% pop.) deaths, MA-- 67
347. 1913 -- June 09, whaler steamer **A. T. Gifford** leaves New Bedford, MA, lost at sea -- 15
348. 1913 -- June 30, **Walkway/Gangway failure, drownings**, Merrimac River, Lawrence-- 11
349. 1913 -- Dec 02, **fire**, Arcadia Boarding House (“Hotel”/Flop House), Boston, MA -- 28
350. 1914 -- **polio**, especially summer-fall, esp. children; subset, 720 US polio deaths -- 50
351. 1915 -- Aug-Nov, **polio**, especially children (MA subset of 691 US polio deaths) -- 41
352. 1915 -- Oct 28, **fire** and **trampling** deaths, St. John’s Parochial School, Peabody, MA-- 21
353. 1915 -- Dec 26-Jan 1, 1916, **influenza/pneumonia** subset of larger epidemic, Boston-- 71
354. 1916 -- esp. July-Nov, **polio** epidemic, at least 66 locations, especially Boston, MA -- 452

<sup>400</sup> Though lost in the Gulf of Mexico, the *Northern Eagle* was a Gloucester schooner, manned by a Gloucester crew.

**Massachusetts (continued):**

355. 1916 -- Nov 07, **Train** goes through **open drawbridge**, ~ South Station, Boston, MA-- 50  
 356. 1917 -- **anthrax**, Boston (5), Chelsea (2), Waltham, Weymouth, Woburn (3) -- 11  
 357. 1917 -- **polio**, esp. June-Sep, especially children (State subset,  $\geq 1,182$  US polio deaths)--49  
 358. 1917 -- Sep 05, whaling brig **Viola** sails, not seen again, out of New Bedford, MA, lost-- 19  
 359. 1918 -- July 03, whaler schooner **Pedro Varela** departs New Bedford, MA, lost at sea-- 16  
 360. 1918 -- Sep-Apr 1919, **influenza and pneumonia** epidemic, MA 22,360-49,513  
     1918 -- Sep 1-Jan 16,1919, **influenza and pneumonia** epidemic, MA--45,000  
     1919 -- Jan-Apr, **influenza and pneumonia** epidemic, MA -- 4,513  
 361. 1919 -- **diphtheria**, MA subset (5<sup>th</sup> highest state), 9,160 US diphtheria deaths) -- 591  
 362. 1919 -- Jan 15, **molasses tank collapse**, US Industrial Alcohol Co., Boston, MA -- 21  
 363. 1919 -- Jan 15, schooner **Ellen A. Swift** leaves New Bedford, MA, whaling, lost -- 14  
 364. 1919 -- July 25, Springfield Boys' Club **boat capsizes**, Big Pond, East Otis, MA -- 11  
 365. 1919 -- Dec 25-30, **wood alc. poisoning**, Chicopee, Holyoke, Springfield, Hadley --54-57  
 366. 1920 -- **diphtheria & croup** (MA subset, 13,395 such deaths, 34 registration states)<sup>401</sup> -- 586  
 367. 1920 -- **influenza and pneumonia**, MA --7,735  
 368. 1920 -- **measles** (MA subset of 7,712 measles deaths in 34 registration states) -- 355  
 369. 1920 -- **scarlet fever** (subset of 4,004 US deaths in 34 registration states); MA -- 218  
 370. 1920 -- **tuberculosis**, especially Boston, Cambridge, Fall River, Lawrence, MA --3,757  
 371. 1920 -- **whooping cough** (MA subset, 10,968 whoop. cough deaths, 34 reg. states) -- 536  
 372. 1921 -- **polio** (acute) esp. late Summer-Fall (MA subset, 1,597 U.S. polio deaths) -- 48  
 373. 1923 -- Apr 06, steamer **John Dwight** sinks, suspected rum runner, Vineyard Sound, MA-- 8-10  
 374. 1924 -- Mar 11/12, Maine schooner **Wyoming** sinks, blizzard off Chatham, MA<sup>402</sup> --13-18  
 375. 1924 -- Aug 26~, three MA fishing **schooners** lost, probably in gale, Georges Bank -- 17  
 376. 1925 -- **diphtheria** (MA subset, 7<sup>th</sup> highest, 8,058 US diphtheria deaths) -- 334  
 377. 1925 -- **excessive heat** (MA subset, 5<sup>th</sup> highest, 1,587 US excessive heat deaths) -- 65  
 378. 1925 -- **measles** (MA subset, end highest, 2,404 measles deaths) -- 349  
 379. 1925 -- **meningococcus meningitis**, MA subset, 5<sup>th</sup> highest, 1095 US meningitis deaths--51  
 380. 1925 -- **polio** (MA subset, 1,518 US polio deaths) -- 45  
 381. 1925 -- **scarlet fever** (MA subset of 2,762 US scarlet fever deaths, 48 states) -- 116  
 382. 1925 -- **tuberculosis** (MA subset, 6<sup>th</sup> highest, 89,268 US tuberculosis deaths) --3,441  
 383. 1925 -- **whooping cough**; MA subset, 6<sup>th</sup> highest, 6,948 US whooping cough deaths-- 279  
 384. 1925 -- June 28, Gloucester, MA fishing schr. **Rex** sunk by Liner off 200M E of N.S.-- 15  
 385. 1925 -- July 4, 2<sup>nd</sup> **floor collapse** into basement, **Pickwick dance Club**, Boston, MA-44-45  
 386. 1927 -- **polio**, esp. late Sum-Fall; MA subset (2<sup>nd</sup> highest state), 2,013 US polio deaths)-- 170  
 387. 1927 -- Jan 11, storm, collier **John Tracy** sinks off Highland Light, Truro, MA --26-27  
 388. 1927 -- Apr 8, Gloucester, MA fishing schooner **Commonwealth** burns, N.S. coast -- 12  
 389. 1927 -- Aug 24~, Gloucester, MA schooner **Columbia** lost, gale, off Sable Island, N.S.-- 23  
 390. 1927 -- Oct 29, **President Wilson** hits Gloucester fisher **Avalon**, fog, ~Cape Cod MA-- 20  
 391. 1927 -- Nov 3-4, heavy rain, **flooding**, MA, esp. Westfield, Northampton areas -- 13  
 392. 1927 -- Dec 17, sub **USS S-4** struck by CG cutter **Paulding**, **sunk** off Provincetown, MA-- 40  
 393. 1928 -- Feb 10, **vaporizer explos./fire**, Beacon Oil Co. Refining Plant, Everett, MA-- 14  
 394. 1928 -- Nov 08, **explosion, fire**, Preble Box Toe Co. Plant and house, Lynn, MA<sup>403</sup> --20-21

<sup>401</sup> Fall River, MA, had 3<sup>rd</sup> highest death rate reported by a registered city – 32.4 per 100,000; nat. average was 15.3.

<sup>402</sup> Listed, as well, within Maine section in that the boat was out of Portland, ME; crewed, though by Boston men.

**Massachusetts (continued):**

395. 1930 -- June 10, **fog/collision/fire**, **Fairfax**/oil tanker **Pinthis** (all 19) off Scituate, MA-- 50  
 396. 1931 -- **polio**, esp. July-Oct, (MA subset, 2,139-2,144 US polio deaths, esp. children)-- 115  
 397. 1931 -- **tuberculosis**; subset of 81,395 US TB deaths, MA --2,549  
 398. 1931 -- summer, **heatwave and excessive heat deaths** (MA subset, 2,768 U.S. deaths)-- 16  
 399. 1932 -- Feb 05, Boston schr. **Eleanor Nickerson** hit/sinks off SE of Cape Sable, N.S.-- 21  
 400. 1938 -- **encephalitis**, MA (38 cases and 25 deaths) -- 25  
 401. 1938 -- July 31-Aug 5, **heatwave**, Boston, Chelsea, Lynn, Natick, Roxbury, etc. MA-- 10  
 402. 1938 -- Sep 21, **New England Hurricane "Long Island Express,"** subset for MA --134-140  
 403. 1939 -- **influenza and pneumonia** (MA subset, 99,097 US flu/pneumonia deaths) --3,225  
 404. 1939 -- **tuberculosis** (MA subset of 61,609 tuberculosis deaths nationwide) --1,524  
 405. 1940 -- **influenza and pneumonia**; 92,525 US flu & pneumonia deaths; MA --2,628  
 406. 1940 -- **tuberculosis** (MA subset of 55,576 tuberculosis deaths nationwide) --1,495  
 407. 1940 -- Feb 14, Valentine's Day **winter nor'easter, snow-storm**, especially east -- 11  
 408. 1941 -- Jan 21, **Mary E. O'Hara & barge** collide, entrance to Boston Harbor, MA --18-20  
 409. 1941 -- Mar 10, **fire & roof collapse**, Strand Theater, Brockton, MA -- 13  
 410. 1941 -- Mar 24, steamer **Cities Service Denver** explosion/fire, off NC/SC coast<sup>404</sup> --19-20  
 411. 1941 -- Dec 10, freighter **Oregon** sinks, collision with USN ship off Nantucket MA -- 17  
 412. 1942 -- Jan 20, **fire**, Melvin Hall Apartments, Lynn, MA -- 13  
 413. 1942 -- June 15, passenger ship **Cherokee** sunk by U-boat, Atlantic ~50M off Boston, MA-- 86  
 414. 1942 -- July 18, **plane crash**, U.S. Army Air Force B-17, North Reading, MA -- 10  
 415. 1942 -- Aug 15, **plane crash**, US Army AF C-53 near Garnet Peak, Peru, MA -- 16  
 416. 1942 -- Nov 28, **fire/trampling/suffocation**, Cocoonut Grove Nightclub, Boston, MA--498  
 417. 1944 -- **cerebrospinal meningitis**, MA (2,812 US cerebrospinal meningitis deaths) -- 80  
 418. 1944 -- **tuberculosis** (MA subset of 54,731 tuberculosis deaths nationwide) --1,689  
 419. 1944 -- Apr 07, **plane lost**, USAAF B-24H, Atlantic Ocean, off coast of MA -- 11  
 420. 1944 -- May 11, **explosion**, ammo dump at sea, **Hingham Depot boat**, ~Boston Harbor, MA--17  
 421. 1944 -- May 27, **USAAF B-24J plane crash**, Westover Field, Chicopee, MA -- 10  
 422. 1944 -- Sep 15/16, **hurricane**, onshore deaths/15; USCG **Lightship LS-73** sinks/12 -- 27  
 423. 1946 -- July 09, **USAAF B-17 hits Mount Tom**, too-low approach, Westover AFB ~Holyoke, MA--25  
 424. 1947 -- Jan 09, Boston **fishing trawler Belle** goes missing off coast of MA -- 17  
 425. 1948 -- Jan 01-02, **winter sleet, ice and snow**, MA -- 9-10  
 426. 1950 -- Apr 7-8, New Bedford MA scallop dragger **Four Sisters** lost E of Nantucket, MA--all 10  
 427. 1950 -- Sep 12, Fairhaven, MA fishing boat **Theresa A.** sunk in **hurricane**, Georges Bank--12  
 428. 1951 -- **tuberculosis** (respiratory), 31,163 US deaths, subset for MA -- 922  
 429. 1951 -- Jan 14, Boston fishing trawler **Gudrun** lost at sea off Argentia, Newfoundland-- 17  
 430. 1952 -- **tuberculosis** (respiratory): 22,700 US deaths; MA (tied, 10<sup>th</sup> highest US loss-- 690  
 431. 1952 -- Apr 09, **USAF** F-94 fighter & C-47 transport collide in clouds ~Otis AFB, MA--all 12  
 432. 1953 -- June 9, F4 **tornado**; Worcester/60, Holden/9, Shrewsbury/12, Westborough/6, MA-- 94  
 433. 1953 -- Oct 16, carrier USS **Leyte** **explosion/fire**, Charleston Naval Yard, Boston, MA-- 37  
 434. 1954 -- **dysentery**, infectious, all forms (codes 045-048), 655 US deaths; MA subset-- 14  
 435. 1954 -- **tuberculosis** (respiratory); 15,146 US deaths; MA had 10<sup>th</sup> highest US loss -- 473  
 436. 1954 -- Aug 31, **Hurricane Carol**, **boat Redstart** lost/11, land losses 21, MA -- 32

<sup>403</sup> Besides deaths in the factory due to explosion, fire, partial roof collapse, seven died in adjoining house-fire.

<sup>404</sup> Listed herein in that at least ten of the crew fatalities were Massachusetts men.

**Massachusetts (continued):**

437. 1955 -- **measles**, 345 US deaths (7 states double digits); MA 6<sup>th</sup> highest state loss -- 18
438. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); esp. Boston (~200)<sup>405</sup>--168
439. 1955 -- **tuberculosis** (respiratory); 13,676 US TB deaths; MA subset (in top ten) -- 445
440. 1955 -- Jan 13~, New Bedford, MA scalloper **Doris Gertrude** lost, New England coast-- 11
441. 1955 -- Aug 18-19, **Hurricane Diane flooding**, esp. Central MA/7, Western MA/6 -- 13
442. 1956 -- Feb 28, speeding **train hits stopped train** in snow storm, Swampscott, MA -- 13
443. 1956 -- Mar 16 & 18, **snowstorms**; US deaths in 14 states 95-138; MA subset --17-18
444. 1956 -- July 25, **Andrea Doria** and **Stockholm** collide, **fog** off Nantucket Isl., MA<sup>406</sup>-- 51
445. 1956 -- **tuberculosis** (respiratory), 12,978 US deaths; MA (10<sup>th</sup> highest US state) -- 415
446. 1957 -- **tuberculosis** (respiratory); 12,384 US deaths; MA subset -- 401
447. 1957 -- Sep 15, **Northeast Air** #285 ILS **airport approach crash**, New Bedford, MA-- 12
448. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) --1,913
449. 1958 -- Feb 08-17, **coldwave and snow storm**, MA -- 11
450. 1958 -- June 27, **USAF KC-135 tanker crash** after takeoff near Westover AFB, MA-- 15
451. 1958 -- Aug 15, Northeast Air Flight 258 **crash** on AP approach in fog, Nantucket, MA--25
452. 1959 -- **tuberculosis**; 11,456 US TB deaths; MA subset -- 360
453. 1960 -- **tuberculosis**; 10,866 deaths/death rate 6.1 per 100K; MA death rate 6.4 -- 328
454. 1960 -- Mar 02-05, **snowstorm**, subset of 187-193 US; MA -- 22
455. 1960 -- Oct 04, **plane crash** (bird hit), Eastern Air Electra, Logan, Boston, MA -- 62
456. 1960 -- Dec 10-12, mid to northeast coast **snowstorm/blizzard/coldwave**, MA<sup>407</sup> --22-36
457. 1961 -- **tuberculosis**, 9,938 US deaths/death rate 5.4 per 100k; MA death rate 5.8 -- 304
458. 1961 -- Feb 04, snow storm, exposure and snow removal (heart attack) deaths -- 19
459. 1962 -- Nov 15~, storm, New Bedford, MA scalloper **Midnight Sun** lost, Georges Bank-11
460. 1964 -- Jan 12-14, **snowstorm and coldwave**, esp. NE US (146-167), MA -- 10
461. 1965 -- **tuberculosis**, 7,934 US deaths, death rate 4.1 per 100K; MA death rate 4.2 -- 225
462. 1965 -- July 11, **USAF** Constellation engine fire, **crash**, ~100 miles off Nantucket, MA--16
463. 1966 -- **meningococcal infections**, 876 US deaths, esp. CA/109, TX/59, OH/50; MA-- 16
464. 1966 -- **tuberculosis**, 7,625 US TB deaths; subset for MA -- 193
465. 1966 -- Jan 28, **fire**, Paramount Hotel, Boston, MA -- 11
466. 1966 -- Nov 11, **plane crash**, USAF Constellation Atlantic East of Cape Cod, MA -- 19
467. 1966 -- Dec 28, **train** hits stalled oil tanker **truck** at RR crossing, fire, Everett, MA -- 13
468. 1967 -- Apr 25, **USAF** Super Constellation engine fire and **crash** off Nantucket Isl., MA-15
469. 1968 -- **excessive natural cold**; ICD-8 code E901; subset of 494 of US cold deaths; MA-- 11
470. 1968 -- **tuberculosis**, 6,292 US deaths/death rate 3.15 per 100K; MA 3.26 -- 184
471. 1968 -- Oct 27-Mar 22, A2 Hong King **influenza-pneumonia** epidemic, 9 cities<sup>408</sup> -- 904
472. 1969 -- **excessive natural cold**; ICD-8 code E901; 424 US deaths; MA -- 16
473. 1970 -- **excessive natural cold**; ICD-8 code E901; 466 US deaths; MA -- 15
474. 1971 -- **excessive natural cold**; ICD-8 code E901; 361 US deaths; MA -- 15
475. 1971 -- **influenza**, ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; MA 0.9--52
476. 1972 -- **excessive natural cold**, ICD-8 code E901, 490 US deaths; MA -- 10

<sup>405</sup> Largest loss of life of any State, though WI was close with 166. The next highest toll (77) was in TX.

<sup>406</sup> *Andrea Doria* (46 deaths) was Italian liner; *Stockholm* was Swedish. Collision occurred in U.S. waters.

<sup>407</sup> MA subset of 208-253 fatalities overall.

<sup>408</sup> Just CDC reporting cities of Boston, Cambridge, Fall River, Lowell, Lynn, New Bedford, Somerville, Worcester.



**Massachusetts (continued):**

477.	1973 -- July 11, <b>fire</b> , apartment bldg./rooming house, Main St., Worcester, MA	--	10
478.	1973 -- July 31, <b>plane crash</b> , Delta Air 723 into Seawall in Fog, Logan, Boston, MA	--	89
479.	1975 -- exposure to excessive natural <b>heat</b> ; 190 US deaths/ death rate 0.417; MA 0.088	--	24
480.	1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; MA 5.5-314		
481.	1977 -- <b>heat</b> (esp. summer), ICD-8 E900 excessive natural/US death rate 0.14, MA 0.21	--	12
482.	1978 -- exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; MA <sup>409</sup>	--	13
483.	1978 -- Feb 05-07, <b>nor'easter and blizzard</b> , MA <sup>410</sup>	--	54-73
484.	1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, MA, 3.41	--	196
485.	1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, MA, 1.80	--	104
486.	1984 -- July 04, <b>arson fire</b> , Elliott Chambers Rooming Home fire, Beverly, MA	--	15
487.	1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: MA, 0.86	--	51
488.	1987 -- exposure to excessive natural <b>cold/hypothermia</b> ; 326 US deaths; MA	--	10
489.	1988 -- summer <b>heat</b> , especially Boston/Suffolk County area, and Middlesex County	--	40
490.	1988 -- Dec 21, MA residents on <b>Pan Am 103 blown-up</b> over Lockerbie, Scotland <sup>411</sup>	--	13
491.	1990 -- exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; MA	--	13
492.	1992 -- <b>influenza</b> , 1,006 US deaths, death rate 0.39 per 100K, MA, at 0.55	--	33
493.	1993 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; MA	--	17
494.	1993 -- <b>influenza</b> , 1,044 US deaths, death rate of 0.40 per 100K; MA, 0.51	--	31
495.	1995 -- exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; MA	--	11
496.	1995 -- <b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, MA, 0.228	--	14
497.	1996 -- exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; MA	--	14
498.	1999 -- exposure to excessive natural <b>cold/hypothermia</b> ; 598 US deaths; MA	--	18
499.	1999 -- Oct 31, <b>plane crash</b> , Egypt Air 990 <b>mass murder</b> , off Nantucket Island, MA	--	217
500.	2000 -- exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; MA	--	25
501.	2001 -- exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; MA	--	24
502.	2002 -- exposure to excessive natural <b>cold/hypothermia</b> ; 646 US deaths; MA	--	12
503.	2003 -- exposure to excessive natural <b>cold/hypothermia</b> ; 620 US deaths; MA	--	18
504.	2004 -- exposure to excessive natural <b>cold/hypothermia</b> ; 676 US deaths; MA	--	14
505.	2004 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.376 per 100K; MA 0.671	--	43
506.	2004 -- summer esp., <b>heat</b> , esp. Boston (based on avg. 56-96 Boston heat deaths), MA	-->	10
507.	2005 -- exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; MA	--	16
508.	2006 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; MA	--	19
509.	2006 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.285 per 100K; MA, 0.345	--	22
510.	2007 -- exposure to excessive natural <b>cold/hypothermia</b> ; 711 US deaths; MA	--	19
511.	2007 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.14 per 100K; MA, 0.19	--	12
512.	2008 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; MA	--	16
513.	2008 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; MA, 0.77	--	50

<sup>409</sup> Some double-counting from Feb 5-7 winter event noted below is possible, though we know of no specific case.

<sup>410</sup> Of the identified causes of death we have located there were at least fourteen carbon monoxide poisoning deaths of people "huddled in their snow-trapped vehicles," seven sea-rescue operations deaths, six heart attacks while shoveling snow, two heart attacks or cold exposure (not clarified) of victims in snowbound cars, one death due to inability of emergency transportation to reach the victim in time due to road conditions, one electrocution from stepping on snow-covered downed wire, one drowning death in home basement, one burn death, one asphyxiation death of a snow-bound motorist, one concussion death related to a fall on slippery ice, and one vehicular accident.

<sup>411</sup> At least 189 of the 270 killed (includes 11 on the ground in Lockerbie) were United States citizens.

**Massachusetts (continued):**

514.	2008 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.19 per 100K; MA, 0.20--	13
515.	2009 --	exposure to excessive natural cold/hypothermia	; 616 US deaths; MA	-- 10
516.	2009 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.9 per 100K; MA 1.4--	93
517.	2009 --	H1N1 "Swine Flu,"	especially spring through winter, MA	--30-33
518.	2010 --	exposure to excessive natural cold/hypothermia	; 710 US deaths; MA	-- 14
519.	2010 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.9 per 100K; MA, 1.5--	100
520.	2011 --	exposure to excessive natural cold/hypothermia	; 0.216 death rate; MA 0.319--	21
521.	2011 --	diarrhoea/Gastroenteritis	, infectious origin, US death rate 0.9 per 100K; MA, 1.3--	85
522.	2011 --	influenza	, ICD-10 codes J09-J11; US death rate 0.5 per 100,000; MA, 0.6	-- 42
523.	2012 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K; MA, 1.4--	91
524.	2013 --	diarrhoea/gastroenteritis	, infectious origin, US death rate 0.8 per 100K, MA, 0.9--	63
525.	2013 --	influenza	, ICD-10 codes J09-11; US death rate 1.2 per 100,000; MA, 1.5	-- 102
526.	2014 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K, MA, 1.1--	73
527.	2015 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K; MA, 1.2--	81
528.	2015 --	influenza	, ICD-10 codes J09-J11; US death rate 1.6 per 100K; MA, 2.6	-- 176
529.	2016 --	diarrhoea/gastroenteritis	of Infectious Origin; US death rate 0.7, MA, 0.9	-- 62
530.	2016 --	influenza	, ICD-10 codes J09-J11; US death rate 0.9 per 100K; MA, 1.0	-- 71
531.	2017 --	exposure to excessive natural cold/hypothermia	; 804 US deaths; MA	-- 12
532.	2017 --	influenza	; 6,515 US deaths/death rate 2.0 per 100K pop.; MA rate 2.39	-- 164
533.	2018 --	exposure to excessive natural cold/hypothermia	; 1,028 US deaths; MA	-- 17
534.	2018 --	influenza	, ICD codes J09-11.8/death rate 3.41 per 100K pop., MA rate 3.82--	264
535.	2019 --	exposure to excessive natural cold/hypothermia	; 1,115 US deaths; MA	-- 21
536.	2019 --	influenza	; 5,902 US deaths/1.08 death rate per 100K, MA death rate 1.93	-- 133
537.	2020 --	influenza	; 5,943 US deaths/death rate 1.8 per 100K; MA death rate 2.36	-- 163
538.	2020 --	exposure to excessive natural cold	; 919 US deaths/death rate 0.28; MA	-- 14
539.	2020 --	COVID-19	; 354,215 US/death rate 1,070 per 1M; MA 2,802 per 1M pop.	--12,423
540.	2021 --	COVID-19	; 437,984 US deaths/2.6K deaths per 1M pop.; MA, 2.9K per M	--7,850
541.	2022 --	COVID-19	; 217,370 US deaths/death rate 6.50; MA death rate 3.86	--2,667
542.	2023 --	COVID-19	, subset of 71,691 US deaths	--2,288

**Some Select/Notable Other Massachusetts Large Loss-of-Life Events:<sup>412</sup>**

1647 --	influenza	, MA		---40-50
1789-90 --	fall-spring, influenza	epidemic; CT, ME, MA, NH, NY, Philadelphia, RI <sup>413</sup>		--Many
1813 --	Jan 6-May 7, lung fever/peripneumony/pneumonia	, esp. Kingston & Lancaster		-- 20
1836 --	scarlet fever	, especially children, Boston, MA		-- 16
1837 --	scarlet fever	, especially children, Boston, MA		-- 39
1870 --	typhus	(State subset of 1,770 typhus deaths nationwide)		-- 33

<sup>412</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>413</sup> Sources consulted do not provide an estimate. Kohn ("New England Influenza Epidemic of 1789," *Encyclopedia of Plague and Pestilence*), writes it was widespread in states we note, affected thousands/Fall of 1789, lasted about 4-6 weeks in each place in the first (1789) wave, was "particularly harsh on the elderly and chronically ill," and that there were especially "many" deaths from the derivative pneumonia. Notes the "case-mortality is believed to have been less than 50 percent during the epidemic." If there were thousands of cases, there would be many deaths.

**Massachusetts (continued):**

1875 --	<b>smallpox</b> , MA	--	34
1876 --	<b>smallpox</b> , MA	--	31
1877 --	<b>smallpox</b> , MA	--	26
1879 --	June-May 1880, <b>malarial fever</b> , (MA subset, 20,231 such deaths nationwide)	--	57
1880 --	<b>whooping cough</b> ; MA subset, 11,064 U.S. whooping cough deaths 1880 Census	--	230
1882 --	Jan-Man, <b>smallpox</b> , MA	--	45
1886 --	Apr 20, rain, mud pond <b>reservoir dam</b> /Mt. Lake <b>fails/flood</b> , East Lee, MA	--	7
1889-90,	June-May, <b>measles</b> , subset of 9,256 US measles deaths	--	97
1890 --	Jan-Feb, <b>influenza</b> (La Grippe/Russian Flu), esp. Fall River, Worcester, Boston	--	395
1891 --	Jan-Mar 14, <b>typhoid fever</b> , Lowell (24), Boston (14), elsewhere	--	42
1895 --	Week ending June 28, <b>diphtheria</b> , Boston, Lowell, Pittsfield, MA	--	15
1898 --	<b>typhoid fever</b> (MA subset of >4,627 deaths), MA Vol. Inf. Regiments, US camps	--	75
1900 --	<b>croup</b> (upper airway contagious viral infection; MA subset, 12,484 croup deaths)	--	204
1900 --	<b>malarial fever</b> (MA subset of 14,874 US malarial fever deaths)	--	70
1900 --	<b>smallpox</b> (MA subset, 8,484 US smallpox deaths)	--	15
1900 --	<b>typhoid fever</b> (MA subset of 35,379 typhoid fever deaths nationwide)	--	625
1903 --	<b>smallpox</b> , esp. Boston/13; $\geq 1,457$ US smallpox deaths	--	22
1904 --	<b>epidemic cerebrospinal meningitis</b> ; 3,284 such deaths in US	--	155
1905 --	<b>tuberculosis</b> , subset, 56,770 registration area deaths (10 states/135 cities) <sup>414</sup>	--	4,900
1907 --	<b>typhoid fever</b> ; subset of ~13K US Census-area typhoid fever deaths	--	398
1909 --	Apr 11, urban <b>conflagration</b> fire, Lenox, MA	--	6
1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; MA, 12.4	--	421
1911 --	July 28, New England coastal storm, <b>craft lost</b> (esp. <i>Nokomis</i> ), esp. MA <sup>415</sup>	--	9
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; MA rate 5.5	--	199
1916 --	<b>anthrax</b> , Boston (3), Chelsea, North Adams, MA	--	5
1916 --	<b>diphtheria</b> , especially children; MA subset, >8,000-17,000 US diphtheria deaths	--	177
1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; MA, 12.4	--	469
1918 --	<b>typhoid fever</b> (MA subset of 9,100 typhoid fever deaths nationwide)	--	158
1919 --	Sep 09-11, Boston Police strike, martial law, <b>U.S. Cavalry charge</b> , MA	--	8-9
1920 --	<b>typhoid fever</b> (MA subset of 6,805 typhoid fever deaths in 34 registration states)	--	95
1925 --	<b>anthrax</b> (MA subset of 22 US anthrax deaths)	--	1
1925 --	<b>excessive natural cold</b> ; subset of 239 US excessive cold deaths; MA	--	7
1925 --	<b>dysentery</b> (MA subset, 3,257 US dysentery deaths)	--	16
1925 --	<b>influenza</b> (MA subset, 30,538 US influenza deaths)	--	604
1925 --	<b>typhoid/paratyphoid Fever</b> (MA subset of 8,287 US Typhoid Fever deaths)	--	116
1927 --	July 13-17, <b>heatwave</b> , especially Boston (MA subset of 127-161 heat deaths)	--	4-7
1931 --	<b>epidemic cerebrospinal meningitis</b> , MA subset, 2,832 US meningitis deaths	--	44
1931 --	<b>diphtheria</b> , especially children (MA subset, 5,738 U.S. diphtheria deaths)	--	131
1931 --	<b>influenza</b> (MA subset of 31,701 influenza deaths nationwide)	--	420
1931 --	<b>measles</b> , especially children (MA subset, 3,576 measles deaths nationwide)	--	65
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; MA, 2.1	--	91

<sup>414</sup> A large number, but MA TB death rate was 163.1 per 100,000 pop.; below the Census average was 168.2.

<sup>415</sup> Five men in Boston sword fishing schooner *Nokomis* dory were lost in Nantucket South Shoals; four men from the Provincetown fisher *Arbitrator* dory were lost; and two Maine men were lost.

**Massachusetts (continued):**

1936 -- Jan 18-28, <b>winter snow storms and extreme cold</b> , MA	--	5-7
1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (MA subset of 1,997 U.S. diphtheria deaths)	--	15
1939 -- <b>whooping cough</b> (MA subset of 3,026 whooping cough deaths nationwide)	--	44
1939 -- summer, <b>excessive natural heat</b> (subset of 527-1,073 heat deaths nationwide), MA--		6
1940 -- <b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); MA death rate 8.6	--	371
1940 -- <b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, MA, 0.6	--	24
1944 -- <b>influenza</b> (MA subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	--	209
1944 -- <b>measles</b> , especially Jan-June (MA subset of 1,923 measles deaths nationwide)	--	21
1944 -- <b>whooping cough</b> (subset of 1,878 US whooping cough deaths), MA	--	15
1946 -- <b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths), MA	--	24
1946 -- July 18, butane gas <b>explosion</b> , Christy's Spa & 3 frame buildings, Onset, MA	--	9
1949 -- <b>polio</b> , especially July-Nov (subset of ~2,725 US polio deaths), MA	--	53
1949 -- Oct 17, <b>Cape Cod Flying Service</b> Piper Clipper emer. sea landing off Provincetown, MA-5		
1950 -- <b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths, MA	--	10
1951 -- <b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths, MA	--	11
1951 -- Jan 28, <b>Bridal party car misses Mystic Riv. bridge ramp</b> , goes off old bridge draw, Boston MA--		6
1952 -- <b>dysentery</b> , infections (all forms); 949 US deaths; subset for MA	--	15
1952 -- <b>influenza</b> ; 5,649 US deaths; subset for MA	--	32
1952 -- <b>measles</b> , 621 US deaths; 24 states double digits; MA subset	--	19
1952 -- <b>polio</b> , subset of ~3,300 US polio deaths, MA	--	25
1953 -- <b>excessive natural heat</b> (code E931), 576 US heat deaths, esp. Aug 22-Sep 5; MA--		6
1953 -- <b>influenza</b> ; 9,500 US deaths; subset for MA	--	46
1953 -- <b>polio</b> , acute; 1,450 US deaths; MA subset	--	25
1953 -- <b>tuberculosis</b> (respiratory); 17,954 US deaths; MA subset	--	547
1954 -- <b>polio</b> , acute; 1,400 US deaths; MA subset	--	15
1957 -- <b>influenza</b> ; 7,463 US deaths; MA subset	--	81
1958 -- <b>tuberculosis</b> ; 12,361 US TB deaths; MA subset	--	343
1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; MA death rate 1.5	--	77
1961 -- <b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; MA death rate 0.3	--	14
1962 -- <b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; MA 5.1	--	263
1962 -- Dec 20, St. Jude Nursing Home <b>fire</b> , Hudson, MA	--	9
1963 -- <b>influenza</b> , 7,083 US deaths <sup>416</sup> /death rate 3.8; MA death rate 1.5	--	77
1963 -- <b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; MA death rate 4.8	--	251
1963 -- Jan 11-13, 18, 27, <b>cold waves and snow</b> , MA	--	9
1964 -- <b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; MA death rate 3.6	--	190
1965 -- <b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; MA death rate 0.9	--	47
1966 -- <b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for MA	--	27
1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; MA 2.32--		131
1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; MA 1.9--		108
1969 -- <b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; MA death rate 2.28	--	129
1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; MA 0.98	--	56
1970 -- <b>polio</b> ; ICD-8 codes 040-044; 128 US deaths; MA	--	6
1970 -- <b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; MA 2.44--		139

<sup>416</sup> Distinct from the 63,678 pneumonia deaths noted in the next column in Table 1-12.



**Massachusetts (continued):**

1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; MA death rate 1.81	--	104
1971 --	Jan 25, <b>construction failure</b> , 16-story apartment building, Boston, MA	--	4
1972 --	<b>chickenpox</b> ; 122 US deaths; MA	--	6
1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; MA 1.25	--	72
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; MA 1.77	--	102
1972 --	June 17, <b>fire/building collapse</b> , firefighters killed, Hotel Vendome, Boston, MA	--	9
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; MA 1.72	--	99
1973 --	<b>polio</b> ; ICD-8 codes 040-044; 93 US polio deaths; MA	--	5
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; MA 1.61 per 100K	--	93
1974 --	<b>chickenpox</b> ; 106 US deaths/death rate 0.05 per 11K; MA 0.121	--	7
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; MA/0.676--		39
1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; MA, 1.30	--	75
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; MA, 1.12	--	69
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; MA, 1.22	--	70
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; MA, 1.10	--	63
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; MA, 0.17	--	10
1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; MA, 0.99	--	57
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; MA, 1.43	--	82
1978 --	<b>polio</b> (Acute poliomyelitis, ICD-8 codes 040-045), death rate 0.04 per 100K, MA, 0.09--		5
1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; MA, 0.82	--	47
1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; MA, 0.49	--	28
1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; MA, 0.56	--	32
1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; MA, 0.48	--	28
1982 --	<b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, MA, 0.38	--	22
1982 --	Apr 06-07, <b>snow storm with blizzard conditions</b>	--	5
1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, MA, 0.31	--	18
1983 --	<b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K; MA, 0.36	--	21
1983 --	Feb 12, <b>snow storm with blizzard conditions</b> , MA	--	5
1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, MA, 0.27	--	16
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; MA, 0.32	--	18
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, MA, 0.80	--	47
1985 --	<b>measles</b> (subset of 5 US measles deaths)	--	1
1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K pop.; MA, 0.56	--	33
1985 --	Jan 10, home <b>fire</b> from makeshift heater during frigid cold spell, Brockton, MA	--	5
1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K pop.; MA rate 0.54	--	32
1986 --	Dec 10, <b>Teledyne Industries Beechcraft</b> King Air AP approach crash, Windsor, MA--		6
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K pop.; MA, 4.06	--	241
1987 --	<b>measles</b> , Bristol and Middlesex counties, MA (boy, 5-9 and man, 55-64)	--	2
1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K pop., MA, 0.35	--	21
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; MA, 5.31	--	318
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K pop.; MA, 0.43	--	26
1988 --	<b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K pop.; MA, 0.43	--	26
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; MA, 6.77	--	408
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; MA death rate 0.41	--	25

**Massachusetts (continued):**

1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; MA, 0.41	--	25
1989 --	June 17, <b>US Army Iroquois helicopter crashes</b> in dense fog near Yarmouth, MA--	all	6
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; MA, 0.73	--	44
1990 --	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; MA, 0.52	--	31
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K; MA, 0.37	--	22
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, MA, 0.42	--	25
1991 --	Oct 28-Nov 1, <b>Perfect Storm nor'easter</b> , East Coast, <b>Andrea Gail</b> (6) lost	--	8
1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; MA, 0.32	--	19
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; MA, 0.41	--	38
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; MA, 0.20	--	12
1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K, MA, 0.26	--	16
1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths; death rate 0.5 per 100K; MA, 0.24	--	15
1996 --	<b>tuberculosis</b> , 1,202 US TB deaths; death rate 0.45 per 100K, MA, 0.36	--	22
1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, MA, 0.19	--	12
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; MA, 0.59	--	37
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; MA, 0.285	--	18
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; MA, 0.252	--	16
2000 --	<b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; MA, 0.205	--	13
2001 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.268 per 100K; MA, 0.188	--	12
2003 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; MA, 0.327	--	21
2003 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; MA, 0.22	--	14
2005 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; MA rate 0.547	--	35
2005 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; MA rate 0.19	--	11
2007 --	<b>tuberculosis</b> , ICD-10 code A16-A19, death rate 0.184 per 100K; MA rate 0.171	--	11
2009 --	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); MA rate 0.2	--	14
2009 --	<b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.2 per 100K; MA rate 0.2	--	12
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; MA rate 2.1	--	135
2011 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19, US and MA death rate 0.2 per 100,000	--	11
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; MA rate 1.9	--	125
2011 --	Oct 29, <b>nor'easter snowstorm</b> , CO poisonings, house fire, electrocution	--	6
2012 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; MA rate 0.4	--	24
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; MA, 1.8	--	120
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; MA, 1.6	--	105
2013 --	Apr 15, terrorism, <b>Boston Marathon bombs</b> , MIT officer killed Apr 19, MA	--	4
2014 --	<b>influenza</b> , ICD-10 codes J09-11.8; US avg. death rate 1.4 per 100,000; MA, 1.2	--	83
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; MA, 2.0	--	132
2015 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US and MA death rate 0.1 per 100,000	--	11
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; MA, 1.9	--	128
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; MA rate 1.1	--	75
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; MA, 1.4	--	95
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; MA rate 1.14	--	78
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; MA death rate 1.01	--	70
2018 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; MA subset--		11
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; MA rate 0.87	--	60

2020 --	<b>HIV</b> ;	ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; MA 0.74	--	51
2020 --	<b>tuberculosis</b> ;	ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; MA	--	13
2021 --	exposure to <b>excessive natural cold</b> ;	1,179 US deaths/death rate 0.36; MA subset	--	12
2021 --	<b>HIV/AIDS</b> ;	4,977 deaths/death rate 1.50 per 100K; MA death rate 0.66	--	46

**Breakout by Type of Massachusetts Large Loss-of-Life Events (10 or more fatalities):**

- 211 -- **Disease**, especially communicable, especially epidemics. (Plus 157 in “Other.”)
- 197 -- **Maritime and Inland Watercraft**. (Plus two -- 9 deaths in 1911 and 8 in 1991.)
- 45 -- **Winter Weather/Cold/Hypothermia**.<sup>417</sup> (Plus 7 other notable years.)
- 20 -- **Heat**. (Plus 3 years 4-7 deaths each: 4-7 in 1927, 6 in 1939 and 6 in 1953.)
- 19 -- **Violence**. (Plus two -- one with 8-9 fatalities and one with 4 in “Other.”)
- 16 -- **Aviation**. (Plus 3 events with 5-6 deaths each.)
- 16 -- **Fire**. (Plus 4 with 5-9 deaths: 6 in 1909, 9 in 1962, 9 in June 1972 and 5, Jan 10, 1985.)
- 12 -- **Rail**
  - 9 -- **Structural Failures**. (Plus two -- one with 7 and one with 4 deaths in “Other.”)
  - 8 -- **Hurricanes (primarily offshore maritime disasters)**.
  - 7 -- **Explosions**. (Plus one event <10 deaths: 9 fatalities 7-19-1946.)
  - 3 -- **Flooding**.
  - 2 -- **Tainted Food, Drugs, Medications**.
  - 1 -- **Mining/Tunneling**.
  - 1 -- **Tornado**.
  - 1 -- **Vehicular -- Road/Highway**. (Plus 1 noted event with 6 deaths.)
  - 1 -- **Wood Alcohol Poisoning**.

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<sup>417</sup> Includes 1786 Gale--grounding of two vessels did not cause deaths-- hypothermia, ashore, was cause of death. Also includes 1802 exposure deaths ashore of sailors from ships after grounding, e.g. the *Brutus* with nine lives lost.

## MI

## Michigan

1. 1763 -- May 25, St. Joseph's Post **massacre**, mouth of St. Joseph's River, MI -- 11
2. 1832 -- **cholera**, Forts Gratiot and Mackinac, MI -- 60
3. 1834 -- Aug 1-15, **cholera**, Detroit, MI -- 99
4. 1839 -- Nov 25, brig **Neptune** grounds, Lake Michigan gale, Little Sable Point, MI -- 17
5. 1841 -- Oct 23? schooner **Post Boy** lost/powder explos.~/gale?, Lake MI, 15m off Kalamazoo, MI ~10
6. 1846 -- Nov 19, schooner **Lexington** sinks, Lake Erie storm, off Point Mouillee, MI -- 13
7. 1847 -- June 13~, schooner **Merchant** lost, Lake Superior storm, ~Keweenaw Peninsula MI-14-18
8. 1848 -- Apr 18 schooner **Tribune** sinks, Lake Michigan gale, off Cathead Point, MI -- 10
9. 1848 -- Sep 16, freighter **Goliah** fire/explosion, Lake Huron, east of Point aux Barques, MI-18
10. 1849 -- **cholera**, esp. Detroit, and Dutch settlements of Drenthe, Grandville, Zeeland -- 200
11. 1849 -- Apr 17, **Outward Bound** founders, Lake Michigan storm, Manitou Passage, MI-- 11
12. 1850 -- Oct 03-14, **cholera** outbreak, Kalamazoo, MI -- 17
13. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 4,515 MI deaths -- 102
14. 1854 -- May 19, **cholera** outbreak beginning, Detroit, MI; also Ann Arbor, MI --1,013
15. 1854 -- Oct 08, sidewheeler **E.K. Collins** burns, Lake Erie, near mouth of Detroit Riv., MI-- 23
16. 1854 -- Nov 13, **Bucephalus**, steamer, sinks, Lake Huron storm, near Bird's Creek, MI-- 10
17. 1854 -- Dec 08, stmr. **Westmoreland** sinks/ice-laden, Lake MI storm, Manitou Passage, MI-17
18. 1855 -- Apr 20, propeller **Oregon** boiler explodes/sinks, Detroit River, ~Belle Isle, MI-- 12
19. 1855 -- Aug 08, bark **L. M. Hubby** capsizes, Lake Michigan off Point Betsie, MI -- 10
- 1856 -- Apr 16~ steamers collide, **Northerner** sinks, Lake Huron, off Port Huron, MI<sup>418</sup>--12 or 1
20. 1856 -- July 17, MI steamer **Northern Indiana** burns, Lake Erie, ~Pt. Pelee, Ont.<sup>419</sup> --40-58
21. 1856 -- Oct 29, sidewheel **Superior** grounds, Lake Superior gale, Pictured Rocks, MI --34-42
22. 1856 -- Nov 26, schooner **Cherokee** founders, Lake MI Gale, 7m so. Manistee, MI -- 14
23. 1857 -- Oct 19, paddlewheel **Reindeer** (Can.) grounds, Lake MI gale, Big Sable Pt., MI-- 21
24. 1859 -- Oct 18, propeller **Troy** founders, Lake Huron storm, ~Point aux Barques, MI -- 23
25. 1860 -- **scarlet fever**, 2<sup>nd</sup> high death cause; MI subset/26,402 deaths, 38 Census States/DC-- 657
26. 1860 -- **tuberculosis**, MI subset (leading cause of death in MI), 49,082 US TB deaths--1,187
27. 1861 -- Nov 9-10~, NY steamer **Keystone State** sinks, Lake Huron gale, off Port Austin, MI--33
28. 1862 -- Aug 09, sch. **Oriole** sinks, hit by *Illinois* in fog, Lake Sup. off Pictured Rocks, MI-12
- 1862 -- or 1863, Aug,<sup>420</sup> steamer **Planet** sinks, Lake Superior ~Eagle Riv., Keweenaw Pt.--35
29. 1863 -- Aug 28, sidewheel **Sunbeam** sinks, Lake Superior gale, ~Eagle Harbor, MI --26-35
30. 1863 -- Nov 11~, steam propeller **Water Witch** sinks, Lake Huron storm ~off Oscoda MI--23
31. 1864 -- May 21, steamboat **Nile** boiler explosion, Detroit, MI -- 6-13
32. 1865 -- Mar 31, US Govt. transport **General Lyon** burns (~521-571), Cape Hatteras, NC<sup>421</sup>-- ~24
33. 1865 -- Aug 9, **Pewabic** collides with *Meteor*, sinks, Thunder Bay, Lake Huron, ~Alpena, MI--40
34. 1866 -- Apr 26, wharf fire, ferry steamer **Windsor** burns, Detroit River, Detroit, MI -- 28
35. 1868 -- Sep 08, steamer **Hippocampus** sinks, Lake Michigan storm, off St. Joseph, MI-- 26
36. 1868 -- Sep 16, sch. **Persian** sunk by *E.B. Allen*, Lake Huron, 3m off 40-Mile Point, MI-- 10
37. 1869 -- Nov 5~ schooner **W.W. Arnold** grounds, Lake Sup. storm, Two Hearted Riv., MI--11

<sup>418</sup> We show this only because there were accounts of 12 deaths. Papers at the time note only one death – engineer.

<sup>419</sup> Included in that this was a Michigan vessel.

<sup>420</sup> Though reported in two sources, the *Planet* did not sink in August 1862 or 1863. The *Planet* did pick up a survivor of the *Sunbeam* sinking in a storm at this location Aug 28, 1863 – 34 died in that event.

<sup>421</sup> Noted here in that about 24 members of MI State military units, mostly paroled POWs, died in this loss.



**Michigan (continued):**

38. 1870 -- **diarrhoea** (363), **dysentery** (258), **enteritis** (240); data from U.S. Census -- 861
39. 1870 -- **diphtheria** (MI subset of 6,303 diphtheria deaths nationwide) -- 141
40. 1870 -- **scarlet fever**, especially children (subset, 20,339 US scarlet fever deaths); MI-- 852
41. 1870 -- **typhoid fever** (MI subset, 22,187 US typhoid fever deaths) -- 666
42. 1870 -- **tuberculosis** (Consumption) (MI subset, ~70,000 US TB deaths) --1,844
43. 1870 -- **whooping cough** (MI subset of 9,008 whooping cough deaths nationwide) -- 244
44. 1871 -- **scarlet fever**, especially children, MI -- 696
45. 1871 -- **smallpox**, MI -- 73
46. 1871 -- Sep 22, schooner **Charles H. Hurd** sinks, Lake MI gale ~South Manitou Isl., MI-- 11
47. 1871 -- Oct 8-9 **wildfires** spreading from Peshtigo WI fire, Birch Creek, upper MI --21-40  
(Not part of the lower MI wildfires noted below on the other side of MI.)
48. 1871 -- Oct 8-9, **wildfires**, esp. Port Huron, St. Clair Co., Manistee Co., lower MI-169--~200
49. 1871 -- Oct 15, steamer **R.G. Coburn** sinks, Lake Huron storm, no. of Saginaw Bay, MI-- ~32
50. 1872 -- **scarlet fever**, especially children, MI -- 565
51. 1872 -- Nov 27, barges **Jupiter & Saturn** ground, Lake Sup. storm, Vermilion Pt. MI -- 15
52. 1873 -- **scarlet fever**, especially children, MI -- 580
53. 1873 -- **smallpox**, MI -- 90
54. 1873 -- Sep 15, steamer **Ironsides** sinks, Lake Michigan storm, off Grand Haven, MI --20-25
55. 1873 -- Dec 04, freighter **City of Detroit** sinks, Lake Huron storm, Saginaw Bay, MI --19-20
56. 1874 -- **scarlet fever**, especially children, MI -- 440
57. 1874 -- Oct 22, steamer **Brooklyn** boiler explodes/sinks, Detroit Riv. ~Wyandotte MI --13-18
58. 1874 -- Nov 22/23, schooner **William Sanderson** breaks-up, Lake MI storm off Empire, MI--7-10
59. 1875 -- **croup and diphtheria**, MI -- 374
60. 1875 -- **scarlet fever**, primarily children, MI -- 423
61. 1875 -- **tuberculosis** (Consumption), leading cause of death in State for year, MI --1,479
62. 1875 -- **typhoid fever**, 3<sup>rd</sup> leading cause of death in MI for year -- 433
63. 1875 -- **whooping cough**, MI -- 101
64. 1875 -- Apr 29, **fishermen drown** off Saint Joseph, MI -- 11
65. 1875 -- Sep 10, propeller **Equinox** sinks, Lake Michigan storm ~Big Sable Point, MI --21-25
66. 1875 -- Sep 10, steamer **Mendota** sinks, Lake Michigan storm, off Point Betsie, MI --10-12
67. 1876 -- July 9, steamer **St. Clair** burns, Lake Superior, off 14 Mile Pt. ~Ontonagon, MI--26-27
68. 1877 -- **smallpox**, MI -- 102
69. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 US croup deaths)-- 374
70. 1879 -- June-May 1880, **diphtheria** 2<sup>nd</sup> leading cause of death; 38,143 US deaths --1,881
71. 1879 -- June-May 1880, **measles**, esp. children (MI subset, 8,254 US measles deaths) -- 190
72. 1879 -- June-May 1880, **scarlet fever**, esp. children; subset, 16,388 US S.F. deaths; MI-- 483
73. 1879 -- June-May 1880, **tuberculosis** (MI subset of 91,270 TB deaths nationwide) --2,387
74. 1879 -- June-May 1880, **typhoid fever** (MI subset of 23,339 U.S. typhoid deaths) -- 517
75. 1879 -- June-May 1880, **whooping cough** (MI subset, 11,064 U.S. W.C. deaths) -- 330
76. 1879 -- Oct 09, rear-end **train collision**, Michigan Central RR, Jackson, MI -- 30
77. 1880 -- July 22, steamer **Mamie** bisected by **Garland**, Detroit Riv., ~Grosse Isle, MI --16-17
78. 1880 -- Aug 29, steamer **Marine City** burns/sinks, Lake Huron, 2m off Alcona, MI -- 9-14

1880 -- Oct 12, steambarge **Trader** waterlogged in storm/lost, Lake MI, off MI coast<sup>422</sup>-- 0

**Michigan (continued):**

79. 1880 -- Oct 16, sidewheel steamer **Alpena** sinks, Lake Mich. storm off Holland, MI --60-101  
 80. 1881 -- **diphtheria**, MI --2,083  
 81. 1881 -- Apr-Dec, **smallpox**, especially Bingham Township (18 in Nov), MI -- 82  
 82. 1881 -- Sep 01-06, **wildfire**, "The Thumb Fire," Lower Peninsula Michigan -->220->300  
 83. 1881 -- Sep 10, steamer **Columbia** founders, Lake MI storm, north off Frankfort, MI -- 15  
 84. 1882 -- **smallpox**, 61 Localities, MI --159-175  
 85. 1882 -- Apr 06, **tornadoes** (5), 10 Counties in MI -- 10  
 86. 1882 -- Dec 1, steambarge **R.G. Peters** burns/sinks, storm, mid-Lake MI, MI bound/owned--14  
 87. 1883 -- Nov 16, steamer **Manistee** lost, Lake Superior gale, off west Keweenaw Pen., MI~27  
 88. 1884 -- Apr 30, **fire**, Van Buren County, MI Poorhouse, near Harford, MI --13-15  
 89. 1885 -- **diphtheria** (1,054) and **croup** (498) --1,552  
 90. 1885 -- Nov 07, snowstorm, passenger ship **Algoma** grounds, Greenstone, Mott Isl., MI<sup>423</sup>--37-48  
 91. 1885 -- Dec 4-6, schooner **Orphan Boy** grounds, Lake Mich. storm, Big Sable Pt., MI-- 7-10  
 92. 1886 -- Nov 19, barges **Menekaunee & Marinette** wreck, Lake Mich., ~Frankfort, MI-- 14  
 93. 1887 -- **diphtheria**, statewide, MI -- 825  
 94. 1887 -- Mar 24, **fire**, Colby Iron Mine Boarding House, Bessemer, MI -- 12  
 95. 1887 -- June 17, steamer **Champlain** burns, grounds, Lake Mich., off Charlevoix, MI -- 22  
 96. 1887 -- Oct 03, propeller **California** founders, Lake Michigan, off St. Helena Isl., MI -- 9-14  
 97. 1889-90, June-May, **croup**, MI -- 368  
 98. 1889-90, June-May, **diphtheria**; subset of 27,815 US diphtheria deaths; esp. Detroit --1,189  
 99. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths, MI -- 282  
 100. 1889-90, June-May, **typhoid fever**, subset of 27,058 US typhoid deaths, MI -- 686  
 101. 1890 -- Nov 5, 8, schooners **Lillie Amoitt & John D. Miner** collide, Menominee Harbor, MI-25  
 102. 1892 -- Mar 21, East Jordan Lumber Co. mill no. 2 boiler **explosion**, East Jordan, MI--7-10  
 103. 1892 -- Aug 30, freighter **Western Reserve** sinks, storm off Sable Banks Deer Park, MI--26  
 104. 1892 -- Oct 28, steamer **W.H. Gilcher** sinks, Lake Michigan storm ~Manitou Isl. MI--17-21  
 105. 1893 -- May, **forest fire, lumber camp**, near Cadillac MI --10-12  
 106. 1893 -- May 14, **mine** hoist cage fall, Red Jacket Shaft Copper Mine, Calumet, MI -- 10  
 107. 1893 -- Sep 28, Mansfield Iron **Mine** flooding, Crystal Falls, MI -- 28  
 108. 1893 -- Oct 13, NY excursion **train rear-ended** by second train, depot, Jackson, MI--12-14  
 109. 1893 -- Oct 13-14, MI lives lost, schooners **Riverside, Wocoken**, Great Lakes Storm<sup>424</sup>-- 16  
 110. 1893 -- Oct 20, World's Fair excursion **trains collide** head-on, burn, ~Battle Creek MI-- 28  
 111. 1893 -- Nov 7, **Albany & Philadelphia** collide in **fog**, Lake Huron ~Pt. Aux Barques, MI-24  
 112. 1883 -- Dec 12-13, MI schooner **Mary Ann Hulbert** sinks, Lake Superior storm ~St Ignace Isl. Ont.-- 20  
 113. 1895 -- Jan 21, steamer **Chicora** founders, Lake Mich. storm, ~off South Haven, MI--24-26  
 114. 1895 -- Sep 07, **mine** fire, Osceola Copper Mine, Level 27, Calumet, MI -- 30  
 115. 1895 -- Nov 06, **boiler explosion** and **fire**, *Evening Journal* Building, Detroit, MI --37-40  
 116. 1896 -- **measles**, especially Bay City (40) and West Bay City (6) -- 156

<sup>422</sup> Listed in that several sources and newspapers at time report ten-eleven deaths. The *Great Lakes & Seaway Shipping News Archive*, however, notes that crew was rescued by the schooner *Guide*.

<sup>423</sup> No surviving record of those onboard and conflicting accounts of numbers of crew and passengers lost and saved. The Thunder Bay Public Library webpage on the *Algoma* names 30 crew and 12 passenger fatalities.

<sup>424</sup> This is a subset of total loss of life in this storm, with a fatality range of 65-73.

**Michigan (continued):**

117. 1896 -- **smallpox**, Detroit (11) and Marine City (1) -- 12
118. 1896 -- Sep 05, **fire**, Yore's Opera House, Benton Harbor, MI -- 12
119. 1897 -- **typhoid fever** (MI subset of approximately 9,200 deaths nationwide) -- 774
120. 1897 -- July 5-12, **heat** (608-616 US Heat deaths), MI subset, especially Detroit/20 -- 31
121. 1898 -- **typhoid fever**; MI subset, >4,527 deaths, civilians & MI Vol. Inf., US camps<sup>425</sup>-- 676
122. 1898 -- Feb 26, **fire/explosions**, walls fall, Hall Brothers Chemical, Kalamazoo, MI-- 10
123. 1898 -- Nov 05, **building collapse**, Wonderland Theater, Detroit, MI -- 15
124. 1900 -- **diphtheria** (MI subset, 16,475 US diphtheria deaths; esp. Detroit/113) -- 378
125. 1900 -- **influenza** (subset, 16,645 US influenza deaths) -- 419
126. 1900 -- **measles** (subset of 12,866 US measles deaths) -- 373
127. 1900 -- **meningitis** (subset, 19,423 US meningitis deaths) -- 464
128. 1900 -- **scarlet fever** (subset, 6,333 US scarlet fever deaths; 8<sup>th</sup> largest state loss) -- 220
129. 1900 -- **tuberculosis** (33,572 MI deaths all causes; 109,750 US tuberculosis deaths) --2,438
130. 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths) -- 273
131. 1900 -- July-Aug (especially), **excessive heat** (subset of 1,266 US heat deaths) -- 32
132. 1901 -- May 24, Lake Huron storm, steamer **Baltimore** sinks off Au Sable Pt., MI --12-13
133. 1901 -- June-July (especially), **heat waves** (subset of 4,012 US heat deaths) -- 53
134. 1901 -- Sep 16, steamer **Hudson** sinks, Lake Superior gale ~8m off Eagle River, MI--24-25
135. 1901 -- Nov 26, **boiler explosion** and **fire**, Penberthy Injector Co., Detroit, MI --29-30
136. 1901 -- Nov 27, passenger **trains** collide head-on, one burns, Wabash RR ~Seneca, MI -23-100
137. 1902 -- Jan 07, copper **mine** cave-in, Negaunee, MI --10-15
138. 1902 -- June-Aug (especially July) **excessive heat** (subset of 290 heat deaths) -- 11
139. 1902 -- Nov 23, MI freighter **Silvanus J. Macy** sinks, Lake Erie storm, off Port Burwell, Ont.--13-14
140. 1903 -- June-Aug (especially first half July), **heat** (subset of 520 US heat deaths) -- 16
141. 1903 -- Aug 7, brake fails, Wallace Circus **trains collide**, Grand Trunk RR, Durand, MI-- 26
142. 1903 -- Dec 26, passenger **trains collide** head-on, East Paris near Grand Rapids, MI-- 22
143. 1904 -- June -Aug, **excessive natural heat**, subset of 235 US heat deaths -- 12
144. 1905 -- **cerebrospinal meningitis**; 5,114 such deaths in US; highest MI rate ever -- 171
145. 1905 -- Sep 2-3, **Iosco & Olive-Jeanette** sink, Lake Sup. storm, E of Keweenaw Pen., MI- 26
146. 1905 -- Oct 19, Lake Huron storm, **lives lost from ≥3 vessels**, in waters of Michigan-- ≥27  
 -- 1 **Joseph S Fay**, steamer, near Rogers City, MI, Lake Huron  
 --17 **Kaliyuga**, steamer, lost, last seen 5m off Presque Isle, MI, Lake Huron  
 -- 9 **Minnedosa**, schooner (Canadian), foundered off Harbor Beach, MI.
147. 1907 -- **tuberculosis of the lungs**; subset of 76,650 US TB deaths, MI --2,316
148. 1907 -- **typhoid fever**, esp. Detroit/104; subset of ~13K US census-area TF deaths -- 594
149. 1907 -- Apr ?, schooner **Argo** strands/breaks-up on Lake Mich. beach ~Manistee, MI-- 14
150. 1907 -- Apr 13-14, steam barge **Arcadia** sinks, Lake Michigan, off Big Sable, MI --11-14
151. 1907 -- July 20, excursion & freight **trains collide**, Pere Marquette RR, ~Salem, MI--31-32
152. 1907 -- Oct 11, freighter **Cyprus** sinks, Lake Superior storm, 19m off Deer Park, MI--21-22
153. 1907 -- Dec 07, Rolling Mill **Iron Mine, Skip Fall**, Negaunee, MI -- 10
154. 1908 -- Oct 15, **wildfire** (Nowicki **train** fire), NE MI, esp. Metz, Presque Isle Co. --37-47
155. 1908 -- Dec 01, steamer **D.M. Clemson** sinks, Lake Superior storm ~Whitefish Pt., MI-- 24
156. 1909 -- May 01-02, steamer **Adella Shores** sinks, Lake Superior gale, off Grand Isl., MI-14

<sup>425</sup> 572 civilians; 96 MI military in 31<sup>st</sup> (16), 32<sup>nd</sup> (19), 33<sup>rd</sup> (14), 34<sup>th</sup> (26) and 35<sup>th</sup> (21) MI Vol. Infantry regiments.

**Michigan (continued):**

157. 1909 -- July 12, **fog**, SS **John B. Cowle** hit by *Scott*/sinks, Lake Superior off Whitefish Pt., MI--14
158. 1910 -- **polio**, especially children (MI subset, 1,625 US polio deaths) -- 48
159. 1910 -- **typhoid fever**; subset, 12,673 US deaths/21 states/death rate 23.5; MI, 23.7 -- 667
160. 1910 -- May 23, **fog**, **Frank H. Goodyear** sinks, hit by *Wood*, Lake Huron ~Pt. Aux Barques MI-17-19
161. 1910 -- Sep 9, **Pere Marquette 18** springs leak/sinks, Lake MI, 20M off Sheboygan WI<sup>426</sup>-29-31
162. 1910 -- Oct-Dec, esp., **smallpox**, esp. Bay City, Lapeer, Saginaw (MI led US) -- 121
163. 1911 -- **polio**; subset of 1,060 "registration area" deaths (63.1% pop.), MI -- 46
164. 1911 -- Feb 06, **explosion**, Pluto Powder Co., near Winthrop & Ishpeming, MI -- 10
165. 1911 -- July 02-10, **excessive natural heat**, Detroit, MI -- 9-21
166. 1911 -- July 11, **wildfire**, Northeastern Mich., esp. Au Sable, Oscoda on Lake Huron--5-12
167. 1911 -- Nov 11, **tornadoes** (3), Mason, IL; Rock, WI; Shiawassee, MI -- 13
168. 1913 -- **heat**; 1,226 "registration area" (65% of US) deaths; subset for MI -- 68
169. 1913 -- **polio**, acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, MI-- 41
170. 1913 -- Nov 8-10, **7 crews lost**, Great Lakes Storm "The Big Blow" (MI subset) --157-175  
 --24-28 **Argus**, freighter Lake Huron, off Point Aux Barque, MI  
 -- 28 **Charles S. Price**, freighter Lake Huron, off Port Huron, MI  
 --23-26 **Henry B. Smith**, freighter Lake Superior, off Marquette, MI  
 --24-28 **Hydrus**, freighter Lake Huron, off Lexington, MI  
 -- 28 **Isaac M. Scott**, freighter. Lake Huron, off Thunder Bay Island, MI  
 --23-28 **John A. McGean**, freighter Lake Huron, off Sturgeon Point, MI  
 -- 7-9 **Plymouth**, schooner-barge Lake Michigan, off Gull Island, MI
171. 1913 -- Dec 24, false fire scare; **crushing** and **trampling**, Italian Hall, Calumet, MI --73-75
172. 1914 -- May 15, **chemical explosion**, Mexican Crude Rubber Co., Detroit, MI -- 10
173. 1914 -- July-Dec, **polio**, especially children (subset, 720 US polio deaths) -- 34
174. 1914 -- Nov 19, storm, steamer **C.F. Curtis**/two **barges** sink ~Grand Marais, MI --27-28
175. 1915 -- Sep-Oct, **polio**, especially children (MI subset, 691 US polio deaths) -- 35
176. 1916 -- **diphtheria**, esp. children (MI subset, >8,000-17,000 US diphtheria deaths) -- 486
177. 1916 -- Aug 01-Oct 23, **polio** epidemic, especially children, MI -- 138
178. 1916 -- May 08, freighter **Kirby** sinks, Lake Superior storm 8m no. of Eagle Harbor MI--20
179. 1916 -- July 12-31, **excessive natural heat**, especially Detroit, MI -- 109
180. 1916 -- Oct 01, **freight train/street car (trolley) crossing collision**, Detroit, MI --10-14
181. 1917 -- **influenza**; 12,974 US influenza deaths/death rate 17.2 per 100K; MI, 17.3 -- 534
182. 1917 -- **polio**, esp. June-Sep, especially children; MI subset, ≥1,182 US polio deaths-- 40
183. 1918 -- **typhoid fever** (subset of 9,100 U.S. Typhoid Fever deaths), MI -- 321
184. 1918 -- Feb 21, **mine** cave-in, Amasa-Porter Iron Mine, Crystal Falls, MI -- 17
185. 1918 -- July 20, **trains collide**, near Chelsea, MI -- 15
186. 1918 -- Sep-Apr 1919, **influenza and pneumonia** epidemic, esp. Detroit --11,440-11,697  
 1918 -- Sep-Dec, **influenza & pneumonia**, esp. greater Detroit, MI --6,443-6,700  
 1919 -- Jan-Apr, **influenza & pneumonia**, esp. greater Detroit, MI -- 4,997
187. 1919 -- **diphtheria**, MI subset (2<sup>nd</sup> highest behind DC), 9,160 US diphtheria deaths -- 745
188. 1919 -- Oct 28, sidewheel **Muskegon** hits pier/sinks, Lake Michigan, Muskegon, MI--23-24
189. 1919 -- Nov 12-13, freighter **John Owen** sinks, Lake Superior storm, SE of Caribou Isl., MI--22
190. 1919 -- Nov 22, steamer **Myron** sinks, Lake Superior gale, off Whitefish Point, MI -- 16

<sup>426</sup> We include in MI section in that ten fatalities were of crewmembers who resided in Ludington, MI.



**Michigan (continued):**

191.	1920 --	<b>diphtheria/croup</b> (highest rate in US, 23.8 per 100K), 13,395 US deaths, 34 Census states)--	586
192.	1920 --	Jan-Dec, <b>influenza and pneumonia</b> , especially Detroit, MI	--5,459
193.	1920 --	<b>measles</b> , MI subset (5 <sup>th</sup> highest), 7,712 measles deaths, 34 registration states--	439
194.	1920 --	<b>scarlet fever</b> , MI subset (3 <sup>rd</sup> highest), 4,004 scarlet fever deaths, 34 registration states--	303
195.	1920 --	<b>typhoid fever</b> , MI subset, 6,805 typhoid fever deaths, 34 registration states --	294
196.	1920 --	Mar 28, <b>tornadoes</b> , counties of Barry, Ocean, Eaton, Genesee, Oakland, others--	13
197.	1921 --	<b>polio</b> , esp. late sum-fall; MI subset (4 <sup>th</sup> highest), 1,597 US polio deaths --	115
198.	1921 --	Oct 30, House of David <sup>427</sup> schooner <b>Rosa Belle</b> founders, storm, mid-Lake MI--	11
199.	1924 --	Sep 22, freighter <b>Clifton</b> sinks, Lake Huron storm, ~30m no. of Oscoda, MI --	27-30
200.	1925 --	<b>cold</b> (excessive), CO subset of 239 US excessive cold deaths	-- 15
201.	1925 --	<b>diphtheria</b> (MI subset, 8,058 US diphtheria deaths)	-- 360
202.	1925 --	<b>excessive heat</b> (MI subset of 1,587 US excessive heat deaths; US Census Bur.--	42
203.	1925 --	<b>influenza</b> (MI subset, 30,538 US influenza deaths)	-- 914
204.	1925 --	<b>measles</b> (MI subset of 2,404 measles deaths in 40 “registration” states)	-- 72
205.	1925 --	<b>meningococcus meningitis</b> , MI subset, 10 <sup>th</sup> highest, 1,095 US meningitis deaths--	39
206.	1925 --	<b>scarlet fever</b> , MI subset, 4 <sup>th</sup> highest, 2,762 US scarlet fever deaths, 48 states --	216
207.	1925 --	<b>smallpox</b> , MI subset, 709 US smallpox deaths in 48 registration states	-- 22
208.	1925 --	<b>tuberculosis</b> (MI subset, 89,268 US tuberculosis deaths)	--2,848
209.	1925 --	<b>whooping cough</b> ; 6,948 US whooping cough deaths; MI subset/6 <sup>th</sup> highest	-- 269
210.	1926 --	July 19-21, <b>excessive heat</b> , esp. Detroit, MI (subset, 160-180 U.S. deaths)	-- >15
211.	1926 --	Sep 02, <b>trains collide</b> , near Monroe, MI	-- 10
212.	1926 --	Nov 03, <b>mine</b> flood, Barnes Hecker Mine, Ishpeming, MI	-- 51
213.	1927 --	<b>polio</b> (acute) esp. late Summer and Fall (MI subset, 2,013 US polio deaths)	-- 67
214.	1927 --	Apr 23, <b>fire/explosions</b> , Briggs Manufacturing Co., Detroit, MI	-- 23
215.	1927 --	May 18, <b>dynamite bombing</b> , Bath Township Consolidated School, MI <sup>428</sup>	-- 46
216.	1929 --	July 04, <b>drownings</b> , Grand Haven State Park, MI	-- 10
217.	1929 --	July 26-28 (Friday-Sunday) heat wave, weekend <b>drownings</b> , MI	--20-21
218.	1929 --	Sep 09, steamer <b>Andaste</b> sinks, Lake Michigan gale, 14m west off Holland, MI--	25
219.	1929 --	Sep 20, <b>fire</b> , Study Club, Detroit, MI	-- 22
220.	1929 --	Oct 22, RR car carrier <b>Milwaukee</b> sinks, Lake MI storm ~7m NE Milwaukee WI <sup>429</sup> --	≥19
221.	1931 --	<b>epidemic cerebrospinal meningitis</b> (Census name), MI subset, 2,832 US deaths)--	126
222.	1931 --	<b>diphtheria</b> , especially children (MI subset, 5,738 U.S. diphtheria deaths)	-- 173
223.	1931 --	<b>influenza</b> (MI subset of 31,701 influenza deaths nationwide)	-- 813
224.	1931 --	<b>polio</b> , esp. July-Oct; MI subset, 2,139-2,144 US polio deaths, esp. children	-- 116
225.	1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--2,714
226.	1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; MI, 4.1	-- 201
227.	1931 --	summer, <b>excessive natural heat</b> ; subset, 2768 US heat-related deaths; MI	-- 97
228.	1933 --	Feb 09-12, <b>cold waves</b> , winter storms, blizzard-like conditions	-- 12

<sup>427</sup> Michigan religious order. Boat met disaster on trip between High Island and Benton Harbor, MI.

<sup>428</sup> Kehoe's bombs initially killed 37 elementary school children and 2 teachers. He murdered his wife. Detonated car bomb killing himself, school superintendent, village postmaster, postmaster's father-in-law. On August 22, 1927, student Beatrice Gibbs dies of injuries, and about one-year later 2<sup>nd</sup> grader Richard Fritz died of “lingering injuries.”

<sup>429</sup> While the *Milwaukee* went down across the lake off Milwaukee, WI, at least 19 of the fatalities lived in the destination locality of Grand Haven, MI, or other Michigan localities such as Manistee.

**Michigan (continued):**

229. 1934 -- summer, **excessive natural heat** deaths; subset of 3,250 US heat deaths; MI-- 38
230. 1934 -- Dec 11, **fire**, Kerns Hotel, Grand Avenue, Lansing, MI -- 34
231. 1936 -- Jan 18-28, **winter snow storms and extreme cold**, statewide MI -- 8-16
232. 1936 -- Feb 4-27, especially, **arctic cold-waves, snowstorms** (273 US deaths), MI -- 50
233. 1936 -- July-Aug (esp.), **heat** (4,678-5,000 US heat deaths), esp. Detroit/364 --454-617
234. 1939 -- **influenza and pneumonia**; subset, 99,097 U.S. flu/pneumonia deaths; MI --3,598
235. 1939 -- **tuberculosis**; subset of 61,609 US tuberculosis deaths; MI --1,703
236. 1939 -- **whooping cough**; subset of 3,026 US whooping cough deaths; MI -- 77
237. 1939 -- summer, **excessive heat** (subset of 527-1,073 heat deaths nationwide), MI -- 10
238. 1940 -- **influenza and pneumonia**; subset, 92,525 US flu/pneumonia deaths; MI --2,777
239. 1940 -- **polio** (subset of 1,026 polio deaths nationwide), MI -- 73
240. 1940 -- **tuberculosis**; subset of 55,576 tuberculosis deaths nationwide; MI --1,583
241. 1940 -- Nov 11-12, Armistice Day Storm, 4 on land; **5 boats lost** Lake Mich. off MI-- 70
242. 1941 -- **measles**, especially children (MI subset of 2,270 measles deaths nationwide)-- 66
243. 1942 -- Oct 28, **bus** with children/workers goes past flashing lights, hit by **Train**, Detroit, MI-16
244. 1943 -- June 20-22, **racial rioting**, Detroit, MI -- 34
245. 1944 -- **cerebrospinal meningitis** (2,812 U.S. cerebrospinal meningitis deaths), MI -- 117
246. 1944 -- **influenza** (MI subset, 17,320 US influenza deaths), esp. Jan-Apr, Dec -- 367
247. 1944 -- **measles**, especially Jan-June; 1,923 US measles deaths; subset for MI -- 44
248. 1944 -- **polio**, especially July-Nov (MI subset of 1,070 polio deaths nationwide) -- 47
249. 1944 -- **tuberculosis** (MI subset of 54,731 tuberculosis deaths nationwide) --1,814
250. 1946 -- **polio**, especially July-Nov; 1,845 US polio deaths; subset for MI -- 90
251. 1948 -- **polio**, July-Nov especially; subset of 1,895 US polio deaths) -- 55
252. 1949 -- **polio**, especially July-Nov (MI subset of ~2,725 polio deaths nationwide) -- 210
253. 1949 -- Mar 03, **explosion**, kerosene put in coal stove, **fire**, residential, Lakewood, MI-- 11
254. 1950 -- **measles**, especially children (MI subset, 3<sup>rd</sup> highest, 468 US measles deaths)-- 28
255. 1950 -- **polio**, especially July-Nov (MI subset of 1,904 polio deaths nationwide) -- 127
256. 1950 -- June 23, **NW Orient fl. 2501** disappears, Lake MI, near Benton Harbor, MI -- 58
257. 1950 -- Nov 24-27, East US "**Storm of the Century**," subset for MI --16-22
258. 1951 -- **polio**, especially July-Nov (MI subset of 1,551-1,555 U.S. polio deaths) -- 62
259. 1951 -- **tuberculosis** (respiratory), 31,163 US deaths, subset for MI (7<sup>th</sup> US high) --1,166
260. 1951 -- **whooping cough**; 960 US deaths; subset for MI -- 21
261. 1951 -- Jan 27-Feb 4, **cold waves/winter storms, ice/sleet/snow** (175-200 US), MI --10-16
262. 1951 -- Aug 18, Beer **truck/car collide**, truck/Greyhound bus collide near Alpena, MI-11-14
263. 1952 -- **polio**, subset of ~3,300 US polio deaths; esp. Wayne County/61 & Detroit -- 218
264. 1952 -- **tuberculosis** (respiratory): 22,700 US deaths; MI (tied for 10<sup>th</sup> high US loss)-- 690
265. 1953 -- **heat, excessive natural** (code E931), 576 US heat deaths, esp. Aug 22-Sep 5-- 17
266. 1953 -- **measles**, 483 US deaths, 23 states in double digits; MI subset -- 16
267. 1953 -- **polio**, acute; 1,450 US deaths; MI, 3<sup>rd</sup> highest US state loss -- 106
268. 1953 -- **whooping cough**; 271 US deaths, 11 States double digits; MI subset -- 11
269. 1953 -- May 11, freight **Henry Steinbrenner** sinks, Lake Superior storm, ~Isle Royale, MI-- 17
270. 1953 -- June 08, **tornadoes**, esp. Flint/115, Ann Arbor, Brown City, Erie, Tawas City-- 125
271. 1954 -- **encephalitis**, acute infectious (viral); 407 US deaths, esp. NY/52 PA/31; MI-- 27
272. 1954 -- **measles**; 524 US deaths; 21 states double digits; MI subset -- 16

**Michigan (continued):**

273.	1954 --	<b>polio</b> , acute; 1,400 US deaths; MI, 5 <sup>th</sup> highest US state loss	--	89
274.	1954 --	<b>whooping cough</b> /pertussis; 375 US deaths, 17 states double digits, MI subset--		13
275.	1955 --	<b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); MI subset	--	33
276.	1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; MI subset	--	437
277.	1956 --	<b>measles</b> , 530 US deaths/21 states in double digits; MI 6 <sup>th</sup> highest US state loss--		26
278.	1956 --	<b>polio</b> /acute, 566 US deaths/15 states in double-digits; MI 6 <sup>th</sup> highest US state--		22
279.	1956 --	<b>scarlet fever/streptococcal sore throat</b> ; 240 US deaths; MI subset	--	10
280.	1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths; MI (7 <sup>th</sup> highest US state loss)	--	446
281.	1956 --	Apr 3, MI <b>tornadoes</b> , especially Hudsonville/14, Standale/4, Benzie Co./2, MI--		20
282.	1956 --	Oct 03, <b>building collapse</b> (under const.), Consumers Power Co., Jackson, MI--		10
283.	1957 --	<b>measles</b> ; 389 US deaths; 15 states double digit deaths; MI subset	--	22
284.	1957 --	<b>polio</b> , acute; 221 US deaths; six double digit states; CA, IL IN MI OH TX; MI--		14
285.	1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; MI subset (10 <sup>th</sup> US state high)--		407
286.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--	2,233
287.	1958 --	<b>measles</b> ; 552 US deaths; 23 States in double digits, including MI	--	18
288.	1958 --	<b>polio</b> (acute); 255 US deaths; 11 states in double digit deaths; MI (US high)	--	36
289.	1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; MI subset (8 <sup>th</sup> highest US State loss)	--	401
290.	1958 --	Feb 07-18, <b>cold wave/snow storms</b> ; heart attacks, vehicular accidents, CO	--	12-15
291.	1958 --	Apr 06, <b>plane crash</b> , Capital Airlines Flight 67, near Freeland, MI	--	47
292.	1958 --	Nov 18, freighter <b>Carl D. Bradley</b> sinks in Lake Mich. storm, ~Gull Island, MI--		33
293.	1959 --	<b>influenza</b> ; 2,845 US deaths; MI subset	--	108
294.	1959 --	<b>measles</b> , especially children; 385 US deaths; MI subset	--	11
295.	1959 --	<b>polio</b> (acute, as opposed to late effects of); 454 US deaths; MI subset	--	17
296.	1960 --	<b>measles</b> , especially children; 380 US deaths; MI	--	17
297.	1962 --	Jan 08-13, <b>snow, sleet, extreme cold-wave</b> ; 153-219 US deaths; MI subset	--	12-17
298.	1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	--	29-32
299.	1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; MI death rate 0.3	--	27
300.	1963 --	Jan 11-14, <b>cold wave/snow</b> , heart attacks shoveling snow/traffic/fires, MI	--	14
301.	1963 --	Jan 18-28, <b>cold waves/snow</b> (subset of 315-352 US deaths); MI	--	19
302.	1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; MI death rate 0.1	--	11
303.	1964 --	May 08, <b>tornado</b> , Chesterfield Twp., Mount Clemens area, Macomb Co., MI--		13
304.	1965 --	Feb 24-25, heavy snow and high wind; US death toll 48-51; MI	--	≥10
305.	1965 --	Apr 11, storms/Palm Sunday Midwest <b>tornado</b> outbreak, 260-271 US deaths--		55
306.	1965 --	May 07, ships collide, <b>fog</b> , <b>Cedarville</b> sinks, Lake Huron, Mackinac Straits, MI--		10
307.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; MI--		35
308.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for MI	--	303
309.	1967 --	Jan 26-27, <b>Great Midwest Blizzard</b> (subset US 94-107), MI	--	22
310.	1967 --	July 23-26, Detroit racial <b>riots</b> and <b>excessive</b> use of <b>Governmental force</b> , MI--		43
311.	1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; MI--		20
312.	1968 --	Oct 27-Mar 29, A2 Hong Kong <b>influenza-pneumonia</b> , esp. Detroit, MI <sup>430</sup>	--	592
313.	1969 --	<b>excessive natural cold</b> ; ICD-8 code E901; 424 US deaths; MI	--	21
314.	1969 --	July 10, <b>fire</b> , farm house (laundry room), Posen, Presque Isle County, MI	--	10
315.	1970 --	excessive <b>natural cold</b> ; ICD-8 code E901; 466 US deaths; MI	--	11

<sup>430</sup> CDC *Morbidity and Mortality Weekly Reports*, covered three MI cities – Detroit, Flint, and Grand Rapids.

**Michigan (continued):**

316.	1971 -- excessive <b>natural cold</b> ; ICD-8 code E901; 361 US deaths; MI	--	11
317.	1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; MI 0.8--		74
318.	1971 -- Dec 11, nat. <b>gas explos.</b> , Lake Huron water <b>tunnel const.</b> proj., Port Huron, MI--		22
319.	1972 -- <b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; MI	--	14
320.	1973 -- <b>excessive natural cold</b> ; ICD-8 code E901; 381 US deaths; MI subset	--	12
321.	1974 -- <b>excessive natural cold</b> ; ICD-8 code E901; 348 US deaths; MI	--	14
322.	1974 -- Dec 01-02, <b>snowstorm</b> , many heart attacks shoveling snow, esp. Detroit MI--		32
323.	1975 -- exposure to excessive natural <b>cold</b> (ICD-8 E901); 359 US deaths; MI	--	11
324.	1975 -- Nov 10, storm, SS <b>Edmund Fitzgerald</b> sinks, Lake Superior, Whitefish Bay, MI--		29
325.	1976 -- exposure to excessive natural <b>cold/hypothermia</b> ; 424 US deaths; MI	--	11
326.	1976 -- Sep 26, USAF KC-135 Stratotanker <b>plane crash</b> , near Alpena, MI	--	15
327.	1977 -- <b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; MI <sup>431</sup>	--	31
328.	1977 -- Jan 26-Feb 1, <b>winter storms/blizzards/coldwave</b> (116 US deaths), MI	--	17
329.	1977 -- Dec 08-12, <b>snowstorms and cold wave</b> ( $\geq$ 114 US deaths)	--	14
330.	1977 -- Dec 10, Wenonah Park Apt. Bldg. <b>fire</b> /light fixture short-circuit, Bay City, MI--		10
331.	1978 -- exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; MI <sup>432</sup>	--	20
332.	1978 -- <b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; MI rate 1.90	--	175
333.	1978 -- Jan 25-27, <b>snow, high wind, deep cold</b> ; 143-146 US deaths subset; MI <sup>433</sup>	--	17-20
334.	1979 -- exposure to excessive natural <b>cold/hypothermia</b> ; 356 US deaths; MI	--	14
335.	1980 -- exposure to excessive natural <b>cold/hypothermia</b> ; 302 US deaths; MI/US high--		19
336.	1981 -- exposure to excessive natural <b>cold/hypothermia</b> ; 289 US deaths; MI	--	19
337.	1982 -- exposure to excessive natural <b>cold/hypothermia</b> ; 402 US deaths; MI <sup>434</sup>	--	15
338.	1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, MI, 0.38	--	35
339.	1982 -- Jan 09-17, <b>extreme winter cold and snow storms</b> , MI	--	10-12
340.	1982 -- Jan 31-Feb 03, <b>winter snow, cold</b> , especially shoveling snow Detroit area	--	19
341.	1983 -- exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; MI	--	18
342.	1983 -- <b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, MI rate 1.05	--	95
343.	1983 -- Sep 1, <b>Korean Air 007 shot down</b> by USSR off Sakhalin Island; MI residents--		12
344.	1983 -- Dec 16-27, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads, MI--		12
345.	1985 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; MI	--	21
346.	1985 -- Jan 20-23, <b>winter weather, exposure/hypothermia, traffic accidents</b> , MI <sup>435</sup> --		10
347.	1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: MI rate 1.36	--	124
348.	1987 -- Aug 16, Northwest Airlines Flight 255 <b>takeoff crash</b> , hits cars, Detroit, MI	--	156
349.	1988 -- exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; MI	--	18
350.	1988 -- summer esp., <b>excessive heat</b> , especially Detroit/Wayne County area, MI	--	~121
351.	1988 -- Dec 21, MI residents killed on <b>Pan Am 103 takedown</b> , Lockerbie Scotland	--	14
352.	1989 -- Dec 02-03, <b>heavy snow and traffic accidents</b> , Michigan	--	16
353.	1990 -- exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; MI	--	30

<sup>431</sup> We know of 1 exposure death in the Jan 26-Feb 1 event and none during the Dec 8-12 event.

<sup>432</sup> Of the 17-20 deaths attributed to the Jan 25-27 event below we know of one specific cold/hypothermia death.

<sup>433</sup> An exposure death, 5 heart attacks shoveling snow, 2 snowmobile-related heart attacks, heart attack victim dies while awaiting medical help hampered by snow heart attack/seizure pushing car, man slipped from snowbank into path of bus, pedestrian hit by car in poor visibility conditions, and girl trapped in snow avalanche into a creek.

<sup>434</sup> May well double-count deaths included in the two Jan 1982 winter weather events noted below.

<sup>435</sup> Six deaths were weather-related traffic accidents, 2 were CO poisoning, 1 was heart-attack shoveling snow.



**Michigan (continued):**

354.	1991 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 588 US deaths; MI	--	24
355.	1991 -- <b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K; MI, 0.51		--	48
356.	1992 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 558 US deaths; MI	--	29
357.	1992 -- June 02, <b>fire</b> , Nu-Way Development Home (adult foster care), Detroit, MI		--	10
358.	1993 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 641 US deaths; MI (US high)--		42
359.	1994 -- <b>chickenpox</b> (subset of 124 US chickenpox deaths)		--	10
360.	1994 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 633 US deaths; MI	--	31
361.	1994 -- <b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; MI, 0.48		--	46
362.	1994 -- exposure to <b>excessive natural heat</b> ; subset of 221 U.S. heat deaths; MI		--	11
363.	1995 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 553 US deaths; MI	--	25
364.	1995 -- <b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, MI, 0.300		--	29
365.	1995 -- July 13-17, exposure to <b>excessive natural heat</b> , especially west-central MI		--	28
366.	1996 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 685 US deaths; MI	--	28
367.	1997 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 501 US deaths; MI	--	14
368.	1997 -- <b>influenza</b> , code 487.0; US death rate 0.26 per 100K (720 US deaths); MI, 0.14		--	14
369.	1997 -- Jan 09, Comair 3272 <b>plane crash</b> , snowstorm/icing, ~Monroe & Detroit, MI--			29
370.	1997 -- July 29, dump <b>truck</b> hits pickup truck, Albion, Concord Township, MI		--	11
371.	1998 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 420 US deaths; MI	--	12
372.	1998 -- <b>infectious colitis</b> , enteritis, gastroenteritis, ICD-9 code 009.0, MI death rate 0.14 per 100K--			14
373.	1998 -- <b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; MI, 1.12		--	110
374.	1999 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 598 US deaths; MI	--	27
375.	1999 -- exposure to <b>excessive natural heat</b> ; 1,050 US deaths; subset for MI		--	13
376.	1999 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; MI, 0.768		--	76
377.	1999 -- July 31, Parahawks Skydiving Center <b>plane takeoff crash</b> , Marine City MI		--	10
378.	2000 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 742 US deaths; MI	--	28
379.	2000 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; MI, 0.694		--	69
380.	2000 -- <b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; MI, 0.292		--	29
381.	2001 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 599 US deaths; MI	--	29
382.	2001 -- exposure to <b>excessive natural heat</b> ; 538 US deaths; subset for MI		--	17
383.	2001 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.268 per 100K; MI, 0.310		--	31
384.	2002 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 646 US deaths; MI	--	43
385.	2002 -- exposure to <b>excessive natural heat</b> , 626 US deaths, subset for MI		--	12
386.	2002 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; MI, 0.26		--	26
387.	2003 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 620 US deaths; MI	--	38
388.	2004 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 676 US deaths; MI	--	42
389.	2004 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; MI 0.537--			54
390.	2005 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 700 US deaths; MI (US high)--		40
391.	2005 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.61 per 100K; MI, 0.806		--	81
392.	2005 -- Oct 02, <b>Ethan Allen</b> tour boat capsizes, Lake George, ~Cramer Point, NY <sup>436</sup> --			19
393.	2006 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 519 US deaths; MI	--	37
394.	2006 -- exposure to <b>excessive natural heat</b> ; 1,104 US deaths, subset for MI		--	22
395.	2007 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 711 US deaths; MI	--	37
396.	2008 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 641 US deaths; MI	--	45

<sup>436</sup> Cross-listed in Michigan in that 19 of the 20 fatalities were tourists from Michigan.

**Michigan (continued):**

397.	2008	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; MI rate 0.62--	62
398.	2009	--	exposure to excessive natural <b>cold/hypothermia</b> ; 616 US deaths; MI	-- 45
399.	2009	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; MI 1.0--	100
400.	2009	--	<b>H1N1 "Swine Flu,"</b> especially spring through winter, MI	-- 88
401.	2010	--	exposure to excessive natural <b>cold/hypothermia</b> ); 710 US deaths; MI	-- 33
402.	2010	--	exposure to <b>excessive natural heat</b> ; 874 US deaths, subset for MI	-- 10
403.	2011	--	exposure to excessive natural <b>cold/hypothermia</b> ; 0.216 death rate; MI 0.466--	46
404.	2011	--	exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for MI	-- 11
405.	2011	--	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; MI, 0.7	-- 46
406.	2012	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; MI 0.9--	92
407.	2012	--	exposure to excessive <b>natural cold/hypothermia</b> ; 501 US deaths; MI	-- 20
408.	2012	--	exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for MI	-- 15
409.	2012	--	<b>fungal meningitis due to tainted steroid injections</b> , MI	-- 19
410.	2013	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; MI 0.9--	93
411.	2013	--	exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; MI	-- 38
412.	2013	--	exposure to <b>excessive natural heat</b> ; 651 US deaths, subset for MI	-- 15
413.	2013	--	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; MI, 1.5	-- 150
414.	2014	--	exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; MI	-- 37
415.	2014	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.4 per 100K; MI rate 1.6	-- 161
416.	2014	--	June-Oct 2015, <b>legionella pneumophila</b> /Legionaries' Disease, Flint, MI	-- 12
417.	2015	--	exposure to excessive natural <b>cold/hypothermia</b> , 815 US deaths; MI	-- 35
418.	2015	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100K; MI rate 2.0	-- 194
419.	2016	--	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; MI/US high--	35
420.	2016	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.9 per 100K; MI rate 1.1	-- 114
421.	2017	--	exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths; MI	-- 37
422.	2017	--	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; MI rate 2.24	-- 223
423.	2018	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; MI	-- 44
424.	2018	--	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., MI rate 3.45	-- 345
425.	2019	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths; MI <sup>437</sup>	-- 70
426.	2019	--	<b>influenza</b> ; 5,902 US deaths/1.08 death rate per 100K; MI death rate 1.89	-- 189
427.	2020	--	exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; MI 0.41	-- 41
428.	2020	--	exposure to <b>excessive natural heat</b> ; 1,174 US deaths, subset for MI	-- 13
429.	2020	--	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; MI death rate 2.19	-- 218
430.	2020	--	<b>COVID-19</b> ; 354,215 US Covid deaths/1,070 per 1M; MI 1,304 per 1M pop.	--13,018
431.	2021	--	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; MI, 2.9 per 1M	--16,001
432.	2021	--	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; MI 0.63--	63
433.	2021	--	exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for MI	-- 13
434.	2022	--	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; MI death rate 11.83	--11,817
435.	2022	--	exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for MI	-- 17
436.	2023	--	<b>COVID-19</b> , 71,691 US deaths/death rate 3,597 per 1 million population	--2,926

<sup>437</sup> At 0.70 deaths per 100,000 population, MI had 4th highest death rate in the U.S. (which averaged 0.34.)

Some Select/Notable Other **Michigan** Large Loss-of-Life Events:<sup>438</sup>

1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	-- 280
1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), MI	-- 49
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	-- 54
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	-- 26
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	-- 657
1850 --	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	-- 78
1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	-- 251
1860 --	<b>measles</b> (MI subset of 3,900 measles deaths nationwide)	-- 53
1860 --	<b>whooping cough</b> (MI subset of 8,408 whooping cough deaths nationwide)	-- 118
1870 --	<b>measles</b> (MI subset of 9,237 measles deaths nationwide)	-- 133
1870 --	<b>typhus</b> (MI subset of 1,770 typhus deaths nationwide)	-- 37
1874 --	Feb 13, copper <b>mine</b> dynamite explosion, Phoenix, MI	-- 6
1875 --	<b>smallpox</b> , MI	-- 26
1876 --	<b>smallpox</b> , MI	-- 76
1879 --	June-May 1880, <b>malarial fever</b> , (MI subset, 20,231 such deaths nationwide)	-- 296
1879 --	June-May 1880, <b>meningitis</b> (MI subset of 7,481 meningitis deaths nationwide)	-- 68
1890 --	Jan-Mar, <b>influenza</b> (La Grippe/Russian Flu), esp. Detroit, Grand Rapids, MI	-- 294
1894 --	<b>diphtheria</b> , esp. Detroit; MI subset of $\geq 14,606$ US diphtheria deaths	-- 181
1894 --	Jan 08-Dec 08, <b>smallpox</b> , Detroit, Menominee, Muskegon, Otsego, Sturgis, MI	-- 51
1900 --	<b>croup</b> (upper airway contagious viral infection; subset, 12,484 US croup deaths	-- 161
1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 201
1900 --	<b>malarial fever</b> (14,874 US malarial fever deaths)	-- 168
1900 --	<b>typhoid fever</b> (MI subset of 35,379 typhoid fever deaths nationwide)	-- 289
1901 --	<b>smallpox</b> , MI	-- 26
1901 --	June 04, Chapin iron <b>mine</b> dynamite explosion, Iron Mountain, MI	-- 8
1902 --	<b>smallpox</b> , MI	-- 40
1903 --	<b>smallpox</b> , especially Detroit/11; subset of $\geq 1,457$ US smallpox deaths	-- 30
1904 --	<b>epidemic cerebrospinal meningitis</b> ; 3,284 such deaths in US	-- 143
1905 --	<b>tuberculosis</b> , subset, 56,770 registration area deaths (10 states/135 cities) <sup>439</sup>	--2,261
1906 --	<b>epidemic cerebro-spinal meningitis</b> ; 3,258 in US registration area; MI	-- 157
1913 --	<b>measles</b> , 8,108 US "registration area" (65.1%) deaths; MI	-- 253
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; MI rate 5.9	-- 177
1919 --	Oct, <b>botulism from contaminated canned California olives</b> , Grosse Pointe, MI	-- 5-7
1920 --	<b>whooping cough</b> (MI subset, 10,968 whooping cough deaths in 34 reg. states)	-- 299
1924 --	Dec 25-28, <b>coldwave</b> and exposure/hypothermia deaths, MI subset of US 51	-- 5
1925 --	<b>dysentery</b> (MI subset, 3,257 US dysentery deaths)	-- 59
1925 --	<b>polio</b> (MI subset, 1,518 US polio deaths)	-- 28
1925 --	<b>scurvy</b> (vitamin C deficiency), MI subset, 4 <sup>th</sup> highest, 58 scurvy deaths in 24 States--	5
1925 --	<b>typhoid/paratyphoid fever</b> (MI subset of 8,287 US Typhoid Fever deaths)	-- 161
1931 --	<b>measles</b> , especially children (MI subset, 3,576 measles deaths nationwide)	-- 32
1936 --	July 18, <b>train</b> hits <b>car</b> /9 occupants, crossing near Dundee, near Ann Arbor, MI	-- 9

<sup>438</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>439</sup> A large number, but at 88.4 per 100K population TB death rate, below the census area average of 168.2.

**Michigan (continued):**

1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (MI subset of 1,997 U.S. diphtheria deaths)	--	26
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); MI death rate 11.5	--	607
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, MI rate 1.1	--	57
1944 --	<b>whooping cough</b> ; subset of 1,878 US whooping cough deaths; MI	--	29
1945 --	Aug 5, explosion/ <b>fire</b> (boys playing with matches) Evangelical home for orphans and elderly, Detroit--	6	
1945 --	Oct 18, <b>USAAF TB-26B</b> Marauder loses wing, crashes, 5M SW of Flat Rock, MI--	all	6
1948 --	Jan 01-02, <b>winter sleet, ice and snow storm</b> , MI	--	9
1948 --	Mar 27, <b>car turns in front of truck</b> , collide in heavy fog, near Kalamazoo, MI	--	6
1951 --	<b>measles</b> , 688 US deaths; subset for MI	--	12
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for MI	--	10
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for MI	--	122
1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; subset for MI	--	17
1952 --	<b>scarlet fever and streptococcal sore throat</b> ; 352 US deaths; subset for MI	--	10
1953 --	<b>influenza</b> ; 9,500 US deaths; subset for MI	--	242
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; MI subset	--	530
1954 --	<b>excessive natural heat</b> (especially July), state subset of 978-984 heat-related deaths--	8	
1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; MI subset	--	55
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; MI subset	--	467
1955 --	Nov 18, <b>truck</b> drives into path of <b>train</b> at crossing near Newport, MI	--	9
1956 --	<b>influenza</b> , 2,323 US deaths; MI subset	--	57
1957 --	<b>influenza</b> ; 7,463 US deaths; MI subset	--	193
1958 --	<b>influenza</b> ; 4,442 US deaths; MI subset	--	130
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; MI subset	--	382
1959 --	Dec 18, <b>car</b> tries to beat train across road at crossing, Fowlerville, MI	--	8
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; MI death rate 2.8	--	220
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; MI death rate 5.0	--	392
1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; MI death rate 0.9	--	70
1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; MI death rate 0.2	--	13
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; MI death rate 4.2	--	334
1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; MI death rate 1.6	--	131
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; MI death rate 4.2	--	334
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; MI death rate 2.8	--	231
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; MI death rate 3.8	--	312
1963 --	Jan 27, <b>cars</b> collide, Corunna and Morrish Rds., five miles west of Flint, MI	--	6
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; MI death rate 0.5	--	38
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; MI death rate 4.1	--	334
1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; MI death rate 1.2	--	97
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; MI death rate 3.6	--	293
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for MI	--	58
1968 --	<b>chickenpox</b> ; ICD-8 code 052; 99 US polio deaths; MI	--	6
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; MI 2.60--	229	
1968 --	<b>polio</b> ; ICD-8 codes 040-044; 130 US polio deaths; subset for MI	--	7
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; MI death rate 3.10	--	273
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; MI 2.33--	206	



**Michigan (continued):**

1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; MI death rate 2.29	--	202
1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; MI 1.09	--	97
1970 --	<b>polio</b> ; ICD-8 codes 040-044; 128 US deaths; MI	--	9
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; MI 2.06	--	183
1971 --	exposure to <b>excessive natural heat</b> , ICD-8 code E900, 112 US deaths, MI	--	7
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; MI death rate 1.81	--	162
1971 --	Jan 07, <b>USAF B52</b> crash off Big Rock Pt. ~Charlevoix, Little Traverse Bay, MI	--	all 9
1971 --	June 14, "dope den" "execution style" <b>shootings</b> , motel room, Detroit, MI	--	8
1972 --	<b>chickenpox</b> ; 122 US deaths; MI	--	6
1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; MI 2.17	--	196
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; MI death rate 1.64	--	148
1973 --	<b>chickenpox</b> ; 138 US deaths; MI	--	7
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; MI rate 1.48	--	134
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; MI 1.58 per 100K	--	143
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; MI/0.627	--	57
1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; MI death rate 1.57	--	143
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; MI, 1.47	--	134
1975 --	<b>polio</b> ; 78 US polio deaths/death rate 0.036 per 100K, MI death rate 0.055	--	5
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; MI death rate 1.23	--	112
1975 --	<b>whooping cough</b> (pertussis; ICD-8 code 033.0); 8 US deaths/death rate 0.004; MI	--	1
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; MI 3.2	--	295
1976 --	<b>polio</b> (Acute poliomyelitis, ICD-8 codes 040-045); 90 US polio deaths; MI	--	6
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; MI death rate 1.13	--	103
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; MI death rate 0.23	--	21
1977 --	<b>polio</b> (acute poliomyelitis); 100 polio deaths/death rate 0.05 per 100K; MI, 0.07	--	6
1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; MI death rate 1.06	--	97
1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; MI death rate 0.89	--	82
1979 --	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; MI death rate 0.23	--	21
1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; MI death rate 0.66	--	61
1980 --	<b>chickenpox</b> , 78 US chickenpox deaths/death rate 0.03 per 100K; MI, 0.05	--	5
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K; 1.04 death rate for MI	--	96
1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; MI, 0.66	--	61
1980 --	Dec 29, <b>Southern City Cessna 421B plane crash</b> north of Muskegon, MI	--	all 5
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, MI, 0.88	--	72
1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; MI, 0.58	--	53
1982 --	<b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, MI, 0.44	--	40
1982 --	summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 196	--	6
1983 --	<b>tuberculosis</b> , 1,779 US TB deaths/death rate 0.76 per 100K; MI, 0.43	--	39
1983 --	summer <b>excessive heat</b> , deaths in at least six counties (subset of U.S. toll of 597)	--	6
1983 --	July 10/11, <b>US Army CH-47 Chinook helicopter crash</b> , South Fox Island, MI	--	6
1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, MI, 0.34	--	31
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; MI, 0.64	--	58
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, MI, 0.40	--	36
1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; MI, 0.52	--	47

**Michigan (continued):**

1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; MI, 0.48	--	44
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K population; MI, 1.75	--	161
1987 --	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K population; MI, 0.24	--	22
1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, MI, 0.51	--	47
1987 --	Mar 04, <b>Northwest Airlink crash</b> , Detroit/Wayne County Airport, Romulus, MI	--	9
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; MI, 2.35	--	217
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K population; MI, 0.63	--	58
1988 --	<b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K pop.; MI, 0.46	--	42
1988 --	Oct 11, <b>USAF KC-135 tanker lands hard</b> and breaks-up, Oscoda-Wurtsmith AFB, MI	--	6
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; MI, 3.57	--	331
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K population; MI, 0.64	--	59
1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K pop.; MI, 0.50	--	46
1989 --	Feb 2-8, Arctic blast <b>winter snowstorm &amp; cold</b> weather; subset of 76-91 US deaths	--	5
1989 --	Dec 20-25, <b>cold wave</b> and freezing drizzle, MI	--	5
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; MI, 0.71	--	66
1990 --	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; MI, 0.46	--	43
1990 --	Dec 03, fog, <b>Northwest 1482 &amp; 299 runway collision</b> /fire, DTW AP, Romulus, MI	--	8
1990 --	Dec 22, <b>Christmas tree fire</b> , father and six children, Canon, MI	--	7
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, MI, 0.44	--	41
1992 --	<b>influenza</b> , 1,006 US deaths, death rate 0.39 per 100K, MI at 0.40	--	38
1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; MI, 0.52	--	49
1993 --	<b>influenza</b> , 1,044 US deaths, death rate of 0.40 per 100K; MI, 0.34 per 100K	--	32
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; MI, 0.40	--	44
1993 --	Feb 28, <b>fire</b> , apartment building (8 children, 1 adult), Ludington, MI	--	9
1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K, MI rate 0.46	--	44
1994 --	Jan 30, <b>van</b> apparently purposefully driven into tractor-trailer, near Howell, MI	--	7
1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.50 per 100K; MI, 0.43	--	42
1996 --	<b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; MI rate 0.266	--	26
1996 --	<b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K; MI, 0.29	--	28
1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, MI death rate 0.35	--	34
1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; MI death rate 0.33	--	33
1998 --	July 26, <b>racing crash, spectators killed</b> , U.S. 500, Brooklyn, MI	--	3
1998 --	Dec 11, <b>explosion</b> , Independence Professional Fireworks Co., Osseo, MI	--	7
1999 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; MI, 0.273	--	27
1999 --	Feb 01, boiler <b>explosion</b> , Ford Motor's River Rouge complex, Dearborn, MI	--	6
1999 --	Mar 29, <b>explosion</b> , Independence Professional Fireworks Co., Osseo, MI	--	5
2002 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate .273 per 100K, MI, 0.170	--	17
2003 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; MI, 0.528	--	53
2003 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; MI rate 0.20	--	20
2004 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; MI rate 0.21	--	21
2005 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; MI rate 0.12	--	19
2006 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.285 per 100K; MI, 0.229	--	23
2006 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; MI rate 0.12	--	12
2007 --	<b>tuberculosis</b> , death rate 0.184 per 100K; MI rate 0.140	--	14

**Michigan (continued):**

2008 --	tuberculosis, ICD-10 code A16-19, US death rate 0.19 per 100K; MI rate 0.10	--	10
2009 --	influenza (avian), ICD-10 code J09 (US death rate 0.5 per 100K); MI rate 0.5	--	45
2009 --	tuberculosis, ICD-10 code A16-19; US death rate 0.2 per 100K; MI rate 0.1	--	12
2010 --	diarrhoea/gastroenteritis, infectious origin; US death rate 0.9 per 100K; MI, 0.8	--	83
2010 --	influenza, MI subset, 500 US flu deaths, death rate 0.2 per 100K; MI rate 0.1	--	12
2010 --	tuberculosis, ICD-10 code A16-19, US death rate 0.2 per 100K; MI rate 0.2	--	18
2010 --	viral hepatitis, ICD-10 code B15-B19; US death rate 2.4 per 100K; MI rate 2.2	--	219
2011 --	diarrhoea/gastroenteritis, infectious origin; US death rate 0.9 per 100K; MI 0.7	--	71
2011 --	viral hepatitis, ICD-10 code B15-19, US death rate 2.5 per 100K; MI rate 2.1	--	212
2011 --	tuberculosis, ICD-10 codes A16-A19; US death rate 0.2 per 100K, MI rate 0.1	--	10
2012 --	influenza, ICD-10 codes J09-11; US death rate 0.4 per 100K; MI rate 0.2	--	18
2012 --	tuberculosis, ICD-10 code A16-A19; US and MI death rate was 0.2 per 100,000	--	15
2012 --	viral hepatitis, ICD-10 code B-15-B19, US death rate 2.6 per 100,000; MI, 2.2	--	222
2013 --	tuberculosis, ICD-10 code A16-A19, US death rate 0.2 per 100,000; MI rate 0.1	--	11
2013 --	viral hepatitis, ICD-10 code B-15-B19; US death rate 2.6 per 100,000; MI 2.4	--	237
2014 --	diarrhoea/gastroenteritis of infectious origin; US death rate 0.8 per 100K, MI, 0.7	--	70
2014 --	tuberculosis, ICD-10 Code A16-A19; US death rate 0.2 per 100K, MI rate 0.1	--	10
2014 --	viral hepatitis, ICD-10 code B15-B19, US death rate 2.5 per 100,000; MI, 1.9	--	192
2014 --	Jan 1-7, winter storms and polar vortex cold wave (subset, 44-45 US deaths)	--	9
2015 --	diarrhoea/gastroenteritis of infectious origin; US and MI death rate 0.8 per 100K	--	76
2015 --	viral hepatitis, ICD-10 code B15-B19; US death rate 2.3 per 100,000; MI rate 1.9	--	193
2016 --	diarrhoea/gastroenteritis of infectious origin; US death rate 0.7 per 100K; MI 0.5	--	54
2016 --	HIV/AIDS, 6,160 US deaths/death rate 1.9 per 100,000; MI rate 0.9	--	93
2016 --	tuberculosis, ICD-10 Codes A16-A19; US death rate 0.2 per 100K, MI rate 0.1	--	14
2016 --	viral hepatitis, ICD-10 code B15-B19; US death rate 2.0 per 100K; MI rate 1.6	--	159
2016 --	Feb 20, violence, Uber driver random mass shootings, Kalamazoo, MI	--	6
2017 --	HIV/AIDS; 5,698 US deaths/death rate 1.75 per 100K; MI death rate 0.84	--	84
2017 --	tuberculosis, IDC-10 code A16-19; 515 US deaths/death rate 0.16; MI subset	--	15
2018 --	HIV/AIDS; 5,425 US deaths/death rate 1.66 per 100K; MI death rate 0.75	--	75
2018 --	tuberculosis, ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; MI subset	--	11
2019 --	HIV/AIDS; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; MI rate 0.72	--	72
2019 --	tuberculosis, ICD-10 codes A16-A19 (526 US TB deaths); subset for MI	--	11
2020 --	HIV; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; MI 0.76	--	76
2020 --	tuberculosis, ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; MI	--	15
2021 --	HIV/AIDS; 4,977 deaths/death rate 1.50 per 100K; MI death rate 0.81	--	81

**Breakout by Type of Michigan Large-Loss-of-Life Events (10 or more fatalities):**

- 178 -- Disease, select communicable, especially epidemics. (Plus 177 in "Other.")
- 76 -- Maritime and Inland Waterways. (Includes MI losses when *Gen. Lyon* burned off NC.)
- 73 -- Winter Weather/cold/hypothermia.
- 29 -- Heat. (Plus 5 years 6-9 deaths: 8 in 1954, 7 in 1971, 9 in 1980, 6 in 1982 & 1983.)
- 13 -- Fire, structural -- Four follow explosions. Plus 3 events noted with 6, 7 and 9 deaths.
- 11 -- Rail.

**Michigan (continued):**

- 9 -- **Aviation**. Plus note 7 events with 5-9 deaths each.
- 9 -- **Explosions**. (Plus **three** -- one in 1998 with 7 deaths, one in 1999 with 6, another with 5.)
- 8 -- **Mining/Tunneling**. (Plus 2 events <10 deaths: 6 in 1874 and 8 deaths in 1901.)
- 7 -- **Tornadoes**.
- 6 -- **Fire, Wildfires, Forest Fires, Prairie Fires**.
- 6 -- **Violence**. Includes Lockerbie, Scotland plane. (Plus 8 fatalities in 1971 and 6 in 2016.)
- 4 -- **Fog as a contributing factor (cross-listed in Maritime and Inland Waterways)**
- 3 -- **Vehicular/Road/Highway**. (Plus 6 events noted 6-9 deaths each.)
- 2 -- **Drowning events (non-Maritime; usually swimming)**
- 2 -- **Structural Failures**.
- 1 -- **Flooding (Mine Flood)**
- 1 -- **Tainted Food, Drugs, Medication**. (Plus one 1919 event with 5-7 deaths.)



## MN

## Minnesota

1. 1862 -- Aug 17-23 especially, **Dakota "insurrection,"** southcentral MN; also IA --750-779
2. 1862 -- Dec 26, **mass hanging** of Dakota Natives accused of 1862 war massacres, Mankato, MN<sup>440</sup>--38
3. 1863 -- early spring-July, **Dakota attack** against settlers and military run-ins, MN -- ~30
4. 1870 -- **diarrhoea** (112), **dysentery** (84), **enteritis** (83); data from U.S. Census -- 279
5. 1870 -- **typhoid fever**; subset of 22,187 US typhoid fever deaths; MN -- 236
6. 1871 -- **scarlet fever**, MN -- 335
7. 1873 -- Jan 7-9, **blizzard**, MN -- 70
8. 1874 -- **scarlet fever**, MN -- 233
9. 1878 -- May 02, **dust explosion/fire**, Washburne Flour Mills, MN -- 18
10. 1879 -- June-May, 1880, **diphtheria**, esp. Sep-Jan, esp. children, esp. Sleepy Eye, MN-1,463
11. 1879 -- **diphtheria**, esp. Blue Earth, Faribault, Hennepin, Goodhue, Watonwan Counties<sup>441</sup>-- 951
12. 1879 -- June-May 1880, **typhoid fever** (MN subset of 23,339 U.S. Typhoid deaths) -- 285
13. 1879 -- July 2, **tornado outbreak**, Nicollet, Le Sueur, Goodhue Counties, MN -- 14
14. 1880 -- Nov 15, **fire**, Minnesota State Asylum for Insane, St. Paul, MN --24-30
15. 1881 -- **diphtheria**, Minneapolis (83) and St. Paul (70) -- 153
16. 1881 -- **smallpox**, especially Stearns County, MN -- 44
17. 1881 -- Aug-Dec, **typhoid fever**, Minneapolis, MN -- 230
18. 1881 -- July 15, **tornado outbreak**, MN -- 24
19. 1882 -- **smallpox**, especially Spring Hill (29 deaths), MN -- 52
20. 1883 -- **smallpox**, Caldwell's lumber camp/8, Lake Winnibigoshish Chippewa/~36, WI--~48
21. 1883 -- Aug 21, **tornadoes**, Olmsted, Dodge, Winona counties, MN -- 40
22. 1886 -- Apr 14, **tornadoes**, Sterns/Benton (Sauk Rapids)/Morrison counties, MN -- 79
23. 1888 -- Jan 12, "**Schoolchildren's Blizzard**," and **extreme cold**, MN 70-200
24. 1889-90, June-May, **diphtheria**; subset of 27,815 US diphtheria deaths; MN<sup>442</sup> -- 933
25. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 158
26. 1889-90, June-May, **typhoid fever**; subset of 27,058 US typhoid deaths; MN -- 489
27. 1890 -- July 13, steamer **Sea Wing** capsizes in storm, Miss. River, Lake Pepin, MN -- 98
28. 1892 -- June 15, **tornado outbreak**, multiple counties, MN --40-50
29. 1894 -- Sep 01, **wildfire**, esp. Hinckley; also Pokegama, Mission Creek, MN --436-500
30. 1896 -- **measles**, esp. Minneapolis (18), also Duluth (5), St. Paul (3), Chatfield (1) -- 27
31. 1897 -- **typhoid fever**; MN subset, ~9,200 US typhoid deaths; Minneapolis (148) -- 201
32. 1900 -- **diphtheria** (MN subset, 16,475 US diphtheria deaths), esp. Minneapolis/St. Paul-- 357
33. 1900 -- **tuberculosis**; 109,750 US TB deaths; leading cause of death in MN --1,844
34. 1900 -- Oct 06, **tornado**, St. Louis County, MN -- 10
35. 1903 -- Apr 23, **explosion**, Northwestern Star Oil Plant, Minneapolis, MN --10-11
36. 1905 -- Nov 27-29, Lake Sup. storm, **Mataafa**/9 **Edenborn**/1 **Lafayette**/1 wreck ~Duluth MN-- 11
37. 1906 -- Jan 10, **fire**, The West Hotel, Hennepin & Fifth, Minneapolis, MN -- 11
38. 1907 -- **tuberculosis**; 76,650 US deaths; 3 cities: Duluth/101, Minneapolis./289, St. Paul -- 639
39. 1908 -- summer-fall, **polio** outbreak, MN subset of 87 US polio deaths; 2<sup>nd</sup> behind WI-- 13
40. 1909 -- **polio** (acute), especially children (MN subset of 569 polio deaths nationwide) -- 30
41. 1910 -- **polio**, especially children, MN subset, 1,635 US polio deaths (5<sup>th</sup> highest US) -- 97

<sup>440</sup> See Aug 17-Sep, 1872 entry above noting the deaths of 300-650 MN white settlers in the "uprising."

<sup>441</sup> There is a 7-month overlap in the June 1879-May 1880 U.S. Census diphtheria count, above.

<sup>442</sup> US avg. diphtheria death rate 33.06 per 1000 deaths. Minneapolis/154 deaths was 63.22; St. Paul/94 was 42.15.

**Minnesota (continued):**

42. 1910 -- **smallpox** (MN subset of 403-415 U.S. smallpox deaths) -- 10
43. 1910 -- **typhoid fever**; subset, 12,673 US deaths/21 states/death rate 23.5; MN, 32.1 -- 668
44. 1910 -- Oct 07, **wildfire**, Northern MN, esp. Baudette, Pitt, Spooner, MN --32-43
45. 1911 -- **polio**; subset of 1,060 “registration area” deaths (63.1% pop.), MN -- 59
46. 1911 -- Mar 11, **ore landslide**, Oliver Iron **Mine**, Norman Open Pit, Virginia, MN -- 14
47. 1911 -- Dec 18, **trains collide**, Chicago, Milwaukee, St. Paul Railroad, Odessa, MN -- 12
48. 1913 -- **heat**; 1,226 “registration area” (65% of US) deaths; subset for MN -- 24
49. 1913 -- **measles**, 8,108 US “registration area” (65.1%) deaths; MN<sup>443</sup> -- 207
50. 1913 -- **polio**, acute, esp. summer-fall, 864 “registration area” (65% pop.) deaths, MN-- 36
51. 1914 -- Apr 28, steamer **Benjamin Noble** sinks, Lake Superior gale, ~Knife Isl. MN --16-20
52. 1914 -- July-Dec, **polio** (acute), esp. children (subset, 720 US polio deaths), MN -- 15
53. 1915 -- Sep-Nov, **polio** (acute), especially children (subset, 691 US polio deaths), MN-- 30
54. 1916 -- Aug-Oct (esp.), **polio**, esp. children (MN subset ~6,700->7,000 US polio deaths)-105
55. 1918 -- June 27, **mine** explosion, Silver Open Pit Iron Mine, Virginia, MN -- 18
56. 1918 -- Aug 21, **tornado**, Brookings County SD / Lincoln, Lyon Counties, MN -- 36
57. 1918 -- Sep-Apr, 1919, **influenza and pneumonia** epidemic, MN --10,576-10,795  
 1918 -- Sep-Dec, **influenza and pneumonia** epidemic, MN--7,521-7,740  
 1919 -- Jan-Apr, **influenza and pneumonia** epidemic, MN --3,055
58. 1918 -- Oct 12, **forest fires**, Cloquet, Moose Lake, many towns, northeast MN --453-559
59. 1919 -- **diphtheria** (subset, 9,160 US diphtheria deaths) -- 301
60. 1919 -- June 22, **tornado**, Fergus Falls (Ottertail County), MN --50-59
61. 1920 -- **scarlet fever** (MN subset of 4,004 scarlet fever deaths in 34 registration states)-- 116
62. 1920 -- **smallpox** (MN subset of 508 smallpox deaths in 34 registration states) -- 17
63. 1921 -- **polio** (Acute) esp. late summer-fall; 1,597 U.S. polio deaths; MN -- 95
64. 1922 -- Aug 12, **train/truck/train collisions**, Annandale, MN -- 10
65. 1924 -- Feb 05, **mine** flooding, Milford Iron Ore Mine, Crosby, MN -- 41
66. 1925 -- **diphtheria** (MN subset, 8,058 US diphtheria deaths) -- 230
67. 1925 -- **excessive heat** (MN subset of 1,587 US excessive heat deaths; US Census Bur.-- 12
68. 1925 -- **influenza** (MN subset, 30,538 US influenza deaths) -- 636
69. 1925 -- **polio** (MN subset, 3<sup>rd</sup> highest polio loss in a state from 1,518 US polio deaths)-- 140
70. 1925 -- **scarlet fever** (MN subset, 7<sup>th</sup> highest, 2,762 US scarlet fever deaths, 48 states)-- 152
71. 1925 -- **smallpox**; subset, highest state #, 709 US smallpox deaths 1925, 48 states; MN-- 196
72. 1931 -- **polio**, esp. July-Oct, (MN subset, 2,139-2,144 US polio deaths, esp. children) -- 69
73. 1931 -- **tuberculosis**; subset of 81,395 US TB deaths --1,067
74. 1931 -- summer, especially June 15-28, July 15-19, **heat waves**, esp. Minneapolis -- 148
75. 1934 -- summer, **excessive natural heat**; subset of 3,250 US heat deaths; MN --26-32
76. 1936 -- Jan 18-28, **winter snow storms and extreme cold**, statewide MN -- 4-11
77. 1936 -- Feb 02-17, especially, **arctic cold-waves, snowstorms** (273 US deaths), MN -- 14
78. 1936 -- July-Aug (especially), **heat** (4,678-5,000 US heat deaths), MN subset --454-772
79. 1940 -- **polio** (MN subset of 1,026 polio deaths nationwide) -- 23
80. 1940 -- Jan 03, **fire**, Marlborough (Apartment) Hotel, Minneapolis, MN -- 19
81. 1940 -- Apr 21, two **cars collide** head-on (young people 17-23), Slayton, MN<sup>444</sup> -- 12

<sup>443</sup> Went from death rate of 1.0 per 100,000 population in 1912 to 9.5 in 1913.

<sup>444</sup> This was at the time the deadliest “pleasure car” accident in the country.

**Minnesota (continued):**

82. 1940 -- Nov 11-12, **Armistice Day Storm, blizzard**, MN -- 49
83. 1941 -- Oct 30, **plane crash**, Northwest Airlines DC-3, Moorhead, MN<sup>445</sup> -- 14
84. 1942 -- July 30, **plane crash** on takeoff, USAAF C-73, Minneapolis, MN -- 10
85. 1944 -- **measles**, especially Jan-June (MN subset of 1,923 US measles deaths) -- 62
86. 1944 -- **polio**, the year, especially July-Nov (MN subset of 1,070 US polio deaths) -- 37
87. 1944 -- June 17, **tornadoes**, Brown/Codington/Grant/Roberts, SD; Big Stone, MN -- 13
88. 1946 -- **polio**, July-Nov esp.; MN subset (highest in US) of 1,845 US polio deaths -- 216
89. 1946 -- Aug 17, **tornadoes**, esp. Green Gables tourist camp, Blue Earth Co., MN -- 9-11
90. 1948 -- **polio**, especially children (MN subset of 1,895 polio deaths nationwide) -- 106
91. 1948 -- Aug 29, **Northwest 421** wing structural failure in thunderstorm/crash NW of Winona MN-37
92. 1949 -- **polio**, especially July-Nov (MN subset of ~2,725 polio deaths nationwide) -- 114
93. 1950 -- **measles**, especially children (MN subset of 468 measles deaths nationwide) -- 10
94. 1950 -- Mar 7, **Northwest 307** hits flagpole, Twin Cities AP landing, crashes, Minneapolis, MN-- 15  
 --All 13 on Northwest 307  
 -- 2 children in bed in house that plane crashed into – girl 10, brother, 8.
95. 1951 -- **polio**, especially July-Nov (MN subset of 1,551-1,555 US polio deaths) -- 41
96. 1951 -- Feb 08, **LPG vapor explosion**, Minnesota Mining & Mfg., St. Paul, MN -- 14
97. 1952 -- **polio**, subset of ~3,300 US polio deaths; esp. Hennepin Co./46, Ramsey Co./19-- 188
98. 1953 -- **measles**, 483 US deaths, 23 states in double digits; MS subset -- 10
99. 1953 -- **polio** (MN subset of 1,450 polio deaths nationwide) -- 90
100. 1953 -- Aug 01, two **cars collide**/side-swipe in downpour, US 10 near Randall, MN --all 10
101. 1954 -- May 31, **USAF C47/MN ANG AP approach crash**, gravel pit/heavy fog, Duluth IAP, MN--11
102. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); MN subset -- 11
103. 1956 -- June 09, **USN F9F-4 Panther** (1) **crashes into houses** (10), Minneapolis, MN-- 11
104. 1957 -- **influenza**; 7,463 US deaths; subset for MN -- 187
105. 1957 -- **measles**; 389 US deaths; 15 states double digit deaths; MN subset -- 14
106. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) --1,065
107. 1959 -- **polio** (acute, as opposed to late effects of); 454 US deaths; MN subset -- 19
108. 1960 -- **influenza**; 7,872 US deaths/death rate 4.4 per 100K; MN death rate 5.4 -- 185
109. 1962 -- **influenza**; 3,431 US deaths/death rate 1.8 per 100K; MN death rate 2.7 -- 95
110. 1962 -- **measles**, 408 US deaths/death rate 0.2 per 100,000 population, MN rate 0.3 -- 11
111. 1963 -- Jan 18-29, **cold waves and snow** (subset of 315-352 US deaths) --13-15
112. 1964 -- **influenza**; 1,687 US deaths/death rate 0.9 per 100K; MN death rate 2.5 -- 88
113. 1964 -- Sep 12, **fire**, farm house (Bowdish/McConnell children), Kasota, MN -- 10
114. 1965 -- Apr 06-27, rain, **flooding, levee failures**, esp. Mankato, St. Paul, Winona, MN-- 12
115. 1965 -- May 06, **tornadoes**, Anoka/Carver/Hennepin/Ramsey/Sibley counties, MN --13-14
116. 1966 -- **influenza**; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for MN-- 126
117. 1966 -- **meningococcal infections**, 876 US deaths, esp. CA/109, TX/59, OH/50; MN-- 12
118. 1966 -- Jan 06, Hotel Carlton (and apartments), **fire** (cigarette), St. Paul, MN -- 11
119. 1967 -- Apr 30, MN **tornadoes**, esp. Freeborn (7 deaths), and Waseca (6) counties MN--13
120. 1968 -- **excessive natural cold**; ICD-8 code E901; subset, 494 of US cold deaths; MN-- 20
121. 1968 -- **influenza**, ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; MN 4.4--166
122. 1969 -- **excessive natural cold**; ICD-8 code E901; 424 US deaths; MN -- 21

<sup>445</sup> Was attempting Fargo, ND landing – went down just north of the Moorhead, MN city limits.

**Minnesota (continued):**

123.	1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5971 US deaths/death rate 2.96 per 100K; MN 3.9-149	
124.	1969 --	Aug 06, MN <b>tornadoes</b> , especially Roosevelt Lake area (11), MN	-- 15
125.	1970 --	excessive <b>natural cold</b> ; ICD-8 code E901; 466 US deaths; MN	-- 18
126.	1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; MN 2.7--	102
127.	1970 --	Aug 05, <b>fire</b> , pensioner rooming house, East Hennepin, Minneapolis, MN	--11-12
128.	1971 --	excessive natural <b>cold</b> ; ICD-8 code E901; 361 US deaths; MN	-- 18
129.	1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; MN 1.3--	49
130.	1972 --	excessive <b>natural cold</b> , ICD-8 code E901, 490 US deaths; MN	-- 18
131.	1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; MN 4.7--	182
132.	1973 --	excessive <b>natural cold</b> ; ICD-8 code E901; 381 US deaths; MN subset	-- 13
133.	1973 --	<b>influenza</b> ; ICD-8 codes 470-74; 5,131 US deaths/death rate 2.43; MN 4.39	-- 170
134.	1974 --	<b>influenza</b> , ICD-8 codes 470-74; 2201 US deaths/death rate 1.0 per 100K; MN/3.0--	115
135.	1975 --	exposure to excessive natural <b>cold</b> (ICD-8 E901); 359 US deaths; MN	-- 20
136.	1975 --	exposure to <b>excessive natural heat</b> ; ICD-8 code E900; 190 US deaths; MN	-- 12
137.	1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; MN/3.1--	120
138.	1975 --	Jan 10-12, <b>blizzard</b> (90 US deaths, especially MN)	-- 35
139.	1976 --	exposure to excessive natural <b>cold/hypothermia</b> ; 424 US deaths; MN	-- 11
140.	1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; MN 7.7-303	
141.	1977 --	<b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; MN	-- 20
142.	1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; MN, 0.60	-- 24
143.	1977 --	Jan 28, Stratford Hotel <b>fire</b> (early a.m., below zero temp.), Breckenridge, MN--	16
144.	1978 --	exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; MN	-- 27
145.	1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; MN, 2.49	-- 100
146.	1979 --	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; MN, 0.69	-- 28
147.	1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, MN, 2.01	-- 82
148.	1982 --	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, MN, 0.92	-- 38
149.	1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, MN, 2.73	-- 113
150.	1984 --	exposure to excessive natural <b>cold/hypothermia</b> ; 359 US deaths; MN <sup>446</sup>	-- 21
151.	1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, MN, 0.58	-- 24
152.	1984 --	Feb 04-05, <b>blizzard</b> and <b>hypothermia</b> , mostly stranded motorists, MN	-- 16
153.	1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, MN, 1.31	-- 55
154.	1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: MN, 3.19	-- 134
155.	1987 --	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; MN, 0.28	-- 12
156.	1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; MN, 1.44	-- 62
157.	1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; MN, 1.20	-- 52
158.	1989 --	Jan 01, <b>fire</b> , rural single family house, Remer, MN	-- 10
159.	1990 --	exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; MN	-- 13
160.	1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; MN, 1.78	-- 78
161.	1991 --	exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; MN	-- 20
162.	1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; MN, 1.26	-- 56
163.	1992 --	exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; MN	-- 14
164.	1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, MN at 0.93	-- 42

<sup>446</sup> Highest loss of life due to hypothermia of any state in 1984. May well include all sixteen of the deaths from the Feb 04-05, 1984 blizzard and snow storm. It appears that there were sixteen hypothermia deaths from that event.



**Minnesota (continued):**

165.	1993	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	641 US deaths; MN	--	16
166.	1993	-- <b>influenza</b> ,	1,044 US flu deaths, death rate 0.40 per 100K, MN, 0.92		--	42
167.	1993	-- Dec 01, <b>Terrain Express II Airlines/Northwest Airlin</b>	<b>crash</b> , Hibbing, MN		--	18
168.	1994	-- <b>influenza</b> ,	1,229 US flu deaths; death rate 0.47 per 100K; MN, 0.98		--	45
169.	1995	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	553 US deaths; MN	--	10
170.	1995	-- <b>influenza</b> ,	ICD-9 code 487.0, US death rate 0.227 per 100K, MN, 0.515		--	24
171.	1996	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	685 US deaths; MN	--	16
172.	1996	-- <b>influenza</b> ,	subset, 745 US flu deaths/US death rate 0.276 per 100K; MN, 0.339		--	16
173.	1997	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	501 US deaths; MN	--	19
174.	1997	-- <b>influenza</b> ,	code 487.0; US death rate 0.26 per 100K (720 US deaths); MN, 0.672		--	32
175.	1998	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	420 US deaths; MN	--	12
176.	1998	-- <b>influenza</b> ,	ICD-9 code 487.0; US death rate 0.62 per 100K; MN, 2.06		--	99
177.	1999	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	598 US deaths; MN	--	11
178.	1999	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.597 per 100K; MN, 2.031		--	99
179.	2000	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	742 US deaths; MN	--	18
180.	2000	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.63 per 100K; MN, 1.71		--	23
181.	2001	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	599 US deaths; MN	--	17
182.	2001	-- summer, <b>heat</b> esp. Hennepin & St. Louis counties; subset of 344 US fatalities			--	20
183.	2002	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	646 US deaths; MN	--	14
184.	2002	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.253 per 100K; MN, 1.116		--	56
185.	2003	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	620 US deaths; MN	--	16
186.	2003	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.62 per 100K; MN, 0.97		--	49
187.	2004	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	676 US deaths; MN	--	21
188.	2004	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.376 per 100K; MN, 0.678		--	34
189.	2005	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	700 US deaths; MN	--	17
190.	2005	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.613 per 100K; MN, 2.344		--	120
191.	2005	-- Mar 21, 16-year-old <b>killing spree</b> , Red Lake HS & vic., Red Lake, MN <sup>447</sup>			--	9-10
192.	2006	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	519 US deaths; MN	--	15
193.	2006	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.285 per 100K; MN, 0.581		--	30
194.	2007	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	711 US deaths; MN	--	16
195.	2007	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.14 per 100K; MN, 0.29		--	15
196.	2007	-- Aug 01, <b>bridge collapse</b> and <b>vehicles</b> fall, Minneapolis Interstate 35W, MN			--	13
197.	2008	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	641 US deaths; MN	--	16
198.	2008	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.57 per 100K; MN, 1.56		--	82
199.	2009	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	616 US deaths; MN	--	20
200.	2009	-- <b>H1N1 "Swine Flu,"</b> especially spring through winter, MN			--	61-63
201.	2010	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	710 US deaths; MN	--	33
202.	2011	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	0.216 death rate; MN, 0.24	--	13
203.	2011	-- <b>influenza</b> ,	ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; MN, 0.8		--	38
204.	2012	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	501 US deaths; MN	--	11
205.	2012	-- exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for MN			--	14
206.	2012	-- <b>influenza</b> ,	ICD-10 codes J09-J11.8; US death rate 0.4 per 100K; MN, 0.8		--	41

<sup>447</sup> Killed were nine people -- shooter's grandfather and grandfather's girlfriend, a security guard at Red Lake High School, 5 high school students and one teacher, before 16-year-old high school student shooter committed suicide.

207.	2013 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 725 US deaths; MN <sup>448</sup>	--	25
208.	2013 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; MN, 2.6--		142
209.	2014 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 930 US deaths; MN	--	30
210.	2014 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.4 per 100,000; MN, 1.9--		102
211.	2015 -- exposure to excessive natural	<b>cold/hypothermia</b> , 815 US deaths; MN	--	16
212.	2015 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.6 per 100,000; MN, 2.8--		152
213.	2016 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 731 US deaths; MN	--	25
214.	2017 -- exposure to excessive natural	<b>cold/hypothermia</b> , 804 US deaths; MN <sup>449</sup>	--	26
215.	2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; MN rate 3.35	--	187
216.	2018 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 1,028 US deaths; MN <sup>450</sup>	--	36
217.	2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., MN rate 4.08--		229
218.	2019 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 1,115 US deaths; MN <sup>451</sup>	--	42
219.	2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; MN rate 0.39--		22
220.	2019 --	<b>influenza</b> ; 5,902 US deaths/1.08 death rate per 100K; MN death rate 1.54	--	87
221.	2020 -- exposure to excessive	<b>natural cold</b> ; 919 US deaths/death rate 0.28; MN 0.57--		32
222.	2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; MN death rate 1.96	--	111
223.	2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths/1,070 per 1M; MN, 954 per 1M pop.--		5,382
224.	2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; MN, 1.9K per M --		5,274
225.	2021 -- exposure to excessive	<b>natural cold</b> ; 1,179 US deaths/death rate 0.36; MN 0.47--		27
226.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; MN death rate 6.50	--	3,664
227.	2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	1,615

#### Some Select/Notable Other **Minnesota** Large Loss-of-Life Events:<sup>452</sup>

1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	--	45
1860 --	<b>scarlet fever</b> (MN subset of 26,402 deaths in 38 Census States & DC)	--	56
1860 --	<b>tuberculosis</b> , leading cause of death in MN; subset of U.S. 49,082 TB deaths, MN--		151
1860 --	<b>whooping cough</b> (MN subset of 8,408 whooping cough deaths nationwide)	--	28
1870 --	<b>scarlet fever</b> , especially children (MN subset of 20,339 deaths nationwide)	--	238
1870 --	<b>tuberculosis</b> (Consumption); ~70,000 US TB deaths; subset for MN	--	450
1870 --	<b>typhus</b> (MN subset of 1,770 typhus deaths nationwide)	--	31
1870 --	<b>whooping cough</b> ; subset of 9,008 whooping cough deaths nationwide, MN	--	103
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	188
1879 --	June-May 1880, <b>malarial fever</b> , (MN subset, 20,231 such deaths nationwide)	--	27
1879 --	June-May 1880, <b>measles</b> , esp. children (MN subset, 8,254 U.S. measles deaths)	--	83
1879 --	June-May 1880, <b>meningitis</b> (MN subset of 7,481 meningitis deaths nationwide)	--	47
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children; subset, 16,388 US S.F. deaths, MN	--	191
1879 --	June-May 1880, <b>tuberculosis</b> (MN subset of 91,270 TB deaths nationwide)	--	713
1879 --	June-May 1880, <b>whooping cough</b> (MN subset, 11,064 U.S. W.C. deaths)	--	64
1889 --	June-May 1890, <b>croup</b> , MN	--	243

<sup>448</sup> At 0.46 deaths per 100,000 population (0.23 US average), MN had highest state hypothermia death toll in 2013.

<sup>449</sup> At 0.466 deaths per 100,000 population, MN had 3<sup>rd</sup> highest state death rate in US (US average was 0.246).

<sup>450</sup> At 0.64 deaths per 100,000 population, MN had highest state death rate (US average was 0.31).

<sup>451</sup> At 0.74 deaths per 100,000 population, MN had 3<sup>rd</sup> highest death rate in the U.S., which averaged 0.34.

<sup>452</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

**Minnesota (continued):**

1889 -- Nov 30, <b>fire</b> , Tribune Building, Minneapolis, MN	--	7
1890 -- Jan-Feb, <b>influenza</b> (La Grippe/Russian Flu), especially Minneapolis, MN	--	308
1891 -- Dec 04, <b>wall falls</b> on workers, previously burned Shepard building, St. Paul, MN	--	9
1894 -- <b>diphtheria</b> , esp. Minneapolis/St. Paul; MN subset, $\geq 14,606$ US diphtheria deaths	--	167
1898 -- <b>typhoid fever</b> , MN subset, $>4,627$ deaths; First MN Volunteer Inf., US camps <sup>453</sup>	--	56
1900 -- <b>croup</b> ; upper airway contagious viral infection; 12,484 US croup deaths, MN subset	--	131
1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900), MN	--	47
1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths), MN	--	152
1900 -- <b>measles</b> (subset of 12,866 US measles deaths), MN	--	79
1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths), MN	--	317
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths), MN	--	92
1900 -- <b>smallpox</b> (subset, 8,484 US smallpox deaths); MN	--	22
1900 -- <b>typhoid fever</b> (subset of 35,379 US typhoid fever deaths), MN	--	386
1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths), MN	--	164
1903 -- <b>smallpox</b> , esp. Minneapolis/9, St. Paul/15, Winona/3; subset of $\geq 1,457$ US deaths--		28
1905 -- <b>tuberculosis</b> , Minneapolis & St. Paul; 56,770 census deaths (10 states/135 cities) <sup>454</sup> --		466
1907 -- <b>typhoid fever</b> , Duluth/29, Mankato/4, Minneapolis/74, St. Paul/36, Winona/2	--	145
1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; MN 8 city rate	--	79
1916 -- <b>diphtheria</b> , especially children (MN subset, $>8,000$ -17,000 US diphtheria deaths)--		170
1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; MN, 9.5	--	220
1917 -- <b>polio</b> (Acute), esp. June-Sep, esp. children (MN subset, $\geq 1,182$ U.S. polio deaths)--		18
1918 -- <b>typhoid fever</b> (subset of 9,100 U.S. typhoid fever deaths), MN	--	88
1920 -- <b>diphtheria and croup</b> ; subset of 13,395 US deaths, 34 registration states; MN	--	247
1920 -- <b>influenza/pneumonia</b> (MN subset, 141,609-220,798 US flu/pneumonia deaths)--1,145-1,512		
1920 -- <b>measles</b> (subset of 7,712 measles deaths in 34 registration states), MN	--	158
1925 -- <b>excessive natural cold</b> , subset of 239 US excessive cold deaths, MN	--	5
1925 -- <b>dysentery</b> (subset, 3,257 US dysentery deaths), MN	--	32
1925 -- <b>measles</b> (subset of 2,404 measles deaths in 40 "registration" states); MN	--	15
1925 -- <b>meningococcus meningitis</b> (subset, 1,095 US meningitis deaths), MN	--	18
1925 -- <b>tuberculosis</b> (subset, 89,268 US tuberculosis deaths); MN	--	1,573
1925 -- <b>typhoid/paratyphoid fever</b> (subset of 8,287 US typhoid fever deaths), MN	--	45
1925 -- <b>whooping cough</b> ; subset, 6,948 US whooping cough deaths); MN	--	95
1927 -- <b>polio</b> (Acute) esp. late Summer and Fall (subset, 2,013 U.S. polio deaths); MN	--	31
1931 -- <b>epidemic cerebrospinal meningitis</b> (Census term), 2,832 meningitis deaths	--	43
1931 -- <b>diphtheria</b> , especially children (MN subset, 5,738 U.S. diphtheria deaths)	--	38
1931 -- <b>influenza</b> (MN subset of 31,701 influenza deaths nationwide)	--	548
1931 -- <b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; MN, 2.3	--	59
1938 -- Oct 10-11, <b>forest fires</b> , border area of Ontario (19) and MN (3)	--	3
1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (MN subset of 1,997 U.S. diphtheria deaths)	--	10
1939 -- <b>influenza and pneumonia</b> (MN subset, 99,097 US influenza/pneumonia deaths)	--	1,952
1939 -- <b>tuberculosis</b> (MN subset of 61,609 tuberculosis deaths nationwide)	--	714
1939 -- <b>whooping cough</b> ; subset of 3,026 whooping cough deaths nationwide, MN	--	23

<sup>453</sup> Twelfth (16 deaths), Fourteenth (12) and Fifteenth (18) Minnesota Vol. Infantry Regiments; 9 mil. deaths in MN.

<sup>454</sup> Minneapolis/244 TB deaths, had death rate of 93.1 per 100K pop., St. Paul had 112.7; Census average was 168.2.

**Minnesota (continued):**

1939 --	summer, <b>excessive natural heat</b> ; subset of 527-1,073 heat deaths nationwide, MN--	7
1940 --	<b>influenza and pneumonia</b> (MN subset of 92,525 U.S. flu & pneumonia deaths)	--1,771
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); MN death rate 8.6	-- 239
1940 --	<b>tuberculosis</b> (MN subset of 55,576 tuberculosis deaths nationwide)	-- 681
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, MN, 1.2	-- 32
1940 --	Nov 07, automobile and gravel <b>truck</b> collide, all killed, Pipestone, MN	-- 9
1944 --	<b>cerebrospinal meningitis</b> (2,812 U.S. cerebrospinal meningitis deaths), MN	-- 42
1944 --	<b>influenza</b> (MN subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	-- 294
1944 --	<b>tuberculosis</b> (MN subset of 54,731 tuberculosis deaths nationwide)	-- 693
1944 --	<b>whooping cough</b> (MN subset of 1,878 whooping cough deaths nationwide)	-- 19
1950 --	<b>polio</b> , especially July-Nov (1,904 US polio deaths), subset for MN	-- 21
1950 --	Oct 13, <b>Northwest Airlines</b> Martin 2-0-2 captain check flight crash, Almelund, MN--all 6	
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for MN	-- 262
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for MN	-- 50
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for MN	-- 192
1952 --	Nov 25-26, <b>winter storm</b> (subset of approximately 38 deaths nationwide)	-- 2-5
1953 --	<b>excessive natural heat</b> (code E931), 576 US heat deaths, esp. Aug 22-Sep 5; MN--	8
1953 --	<b>influenza</b> ; 9,500 US deaths; subset for MN	-- 208
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for MN	-- 194
1953 --	May 10, <b>tornado</b> outbreak, especially MN (8 deaths) and WI (4 deaths)	-- 8
1954 --	<b>polio</b> , acute; 1,400 US deaths; MN subset	-- 19
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; MN subset	-- 126
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; MN subset	-- 110
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; MN subset	-- 103
1956 --	Dec 23, <b>fire</b> , Xmas tree wiring short circuit, Doctors' Hospital, Minneapolis, MN	-- 7
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; MN subset	-- 98
1958 --	<b>influenza</b> ; 4,442 US deaths; MN subset	-- 65
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; MN subset	-- 99
1958 --	Sep 16, <b>USAF B52 bomber</b> tail separation and <b>plane crash</b> , South St. Paul, MN	-- 7
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; MN subset	-- 151
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; MN death rate 2.9	-- 98
1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; MN death rate 1.1	-- 38
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; MN death rate 2.8	-- 98
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; MN 2.6	-- 99
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; MN death rate 2.6	-- 90
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; MN death rate 2.7	-- 94
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; MN death rate 2.0	-- 71
1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; MN death rate 0.8	-- 27
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; MN death rate 1.9	-- 68
1966 --	<b>excessive natural heat</b> , subset of 613 US heat deaths, MN	-- 7
1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for MN (lower than US avg. death rate)--	72
1966 --	Mar 02-05, <b>snowstorm/blizzard</b> , Upper Plains; 20-21 deaths; MN	-- 7
1966 --	Mar 07, two car <b>collision</b> , US Highway 61 north of St Paul, MN	-- 7
1966 --	Mar 22-24, <b>Midwest blizzard/snowstorm</b> , 41-46 US deaths; MN	-- 6-9



**Minnesota (continued):**

1968 --	tuberculosis	6,292 US deaths/death rate 3.15 per 100K; MN death rate 1.17	--	44
1968 --	Dec 29-Feb 01, A2 "Hong Kong" influenza-pneumonia epidemic, 3 cities <sup>455</sup>		--	84
1969 --	tuberculosis	5,567 US deaths/death rate 2.76 per 100K; MN death rate 1.27	--	48
1970 --	excessive natural heat	ICD-8 code E900; 179 US deaths; MN	--	7
1970 --	tuberculosis	ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; MN 1.2	--	46
1971 --	tuberculosis	4,501 US TB deaths/death rate 2.18 per 100K; MN death rate 0.88	--	34
1972 --	tuberculosis	4,376 US deaths, death rate 2.09 per 100K; MN 0.93	--	36
1972 --	Dec 20, private Cessna stalls in circling landing approach	Eden Prairie, MN	--	all 5
1973 --	tuberculosis	3,875 US deaths/death rate 1.84 per 100K; MN 0.67 per 100K	--	26
1973 --	May 25, Clark Equipment Cessna 411 pilot error crash	Minneapolis, MN	--	all 5
1974 --	tuberculosis	3,513 US TB deaths/death rate 1.65 per 100K; MN, 0.74	--	29
1974 --	Aug 9, Piper PA-30 Comanche charter crash	3/8 mile NE Jackson Municipal AP	--	all 6
1974 --	Aug 10, Piper Aztec loss of control at too-low altitude	Fergus Falls, MN	--	all 8
1974 --	Sep 11, Piper Aztec plane crash	Austin, MN	--	all 6
1975 --	tuberculosis	3,333 US TB deaths/death rate 1.55 per 100K; MN, 1.05	--	41
1975 --	Dec 28, fire	Breezy Point Inn, Island Lake, near Duluth, MN	--	6
1976 --	tuberculosis	3,130 US TB deaths/death rate 1.44 per 100K; MN, 0.68	--	27
1977 --	tuberculosis	2,968 US TB deaths/death rate 1.35 per 100K; MN, 0.53	--	21
1978 --	tuberculosis	2,914 US TB deaths/death rate 1.31 per 100K; MN, 0.52	--	21
1979 --	tuberculosis	2,007 US TB deaths/death rate 0.89 per 100K; MN, 0.32	--	13
1980 --	tuberculosis	1,978 US TB deaths/death rate 0.87 per 100K; MN, 0.39	--	16
1980 --	Dec 06, United Dressed Beef Mitsubishi Solitaire icing plane crash	Ramsey, MN	--	all 5
1981 --	influenza	3,006 US flu deaths/death rate 1.31 per 100K, MN, 0.92	--	68
1982 --	tuberculosis	1,807 US TB deaths/death rate 0.78 per 100K pop., MN, 0.27	--	11
1982 --	Jan 07-16, winter weather	-- extreme cold and snowstorms, MN	--	5-7
1983 --	tuberculosis	1,779 US TB deaths, death rate 0.76 per 100K pop.; MN, 0.29	--	12
1983 --	Dec 13-21, winter weather	severe cold/exposure deaths, snow, icy roads	--	8
1985 --	tuberculosis	1,752 US TB deaths, death rate 0.74 per 100K pop.; MN, 0.36	--	15
1987 --	HIV AIDS	13,468 deaths/US death rate 5.55 per 100K population; MN, 1.70	--	72
1987 --	July 12, Cessna 180A float plane takeoff crash	wing hit water, New Brighton MN	--	all 5
1988 --	HIV AIDS	16,602 deaths/US death rate 6.8 per 100K population; MN, 1.68	--	72
1989 --	HIV AIDS	22,082 US deaths, death rate 8.9 per 100K population; MN, 2.33	--	101
1992 --	tuberculosis	1,705 US TB deaths, death rate of 0.66 per 100K pop.; MN, 0.27	--	12
1994 --	tuberculosis	1,478 US TB deaths; US death rate 0.56 per 100K pop., MN, 0.33	--	15
1994 --	Feb 08, Fargo ND van hits snowplow in whiteout	I-94 near Alexandria, MN <sup>456</sup>	--	7
1995 --	tuberculosis	1,336 US TB deaths/death rate 0.5 per 100K; MN, 0.28	--	13
1999 --	Jan 01, fire	Hatfield family home (from LP gas heater in garage), Ceylon, MN	--	6
2002 --	Oct 25, Aviation Charter with Senator Wellstone & staff approach stall crash	Eveleth MN	--	8
2005 --	summer, excessive natural heat	(exposure to excessive natural heat), MN	--	6
2008 --	July 31, East Coast Jets crash	late in landing attempt go-around, hits aerials, Owatonna AP, MN	--	8
2009 --	influenza (avian)	ICD-10 code J09 (US death rate 0.5 per 100K); MN rate 0.5	--	27
2009 --	diarrhoea/gastroenteritis	infectious origin; US death rate 0.9 per 100K; MN, 0.6	--	34

<sup>455</sup> CDC MMWR reported only on Duluth, Minneapolis and St. Paul. U.S. influenza epidemic death toll was 33,800.

<sup>456</sup> Cross-listed in North Dakota given that all seven fatalities were from North Dakota.

2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K; MN, 0.5	--	26
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; MN, 1.2	--	61
2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US & MN death rate 0.9 per 100K	--	49
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; MN rate 1.2	--	62
2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; MN 0.7	--	38
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; MN, 1.5	--	80
2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; MN, 0.6	--	31
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; MN, 1.5	--	79
2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; MN, 0.7	--	38
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; MN, 1.5	--	80
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100k; MN, 0.6	--	31
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; MN, 1.1	--	61
2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.7 per 100K; MN rate 0.4	--	24
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; MN rate 0.6	--	35
2016 --	<b>influenza</b> , ICD-10 codes J09-J11; US and MN death rate 0.9 per 100,000 pop.	--	52
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; MN, 1.0	--	55
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; MN rate 0.66	--	37
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; MN death rate 0.52	--	29
2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; MN 0.44	--	25
2020 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; MN	--	10
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; MN death rate 0.51	--	29

#### Breakout by Type of **Minnesota** Large Loss-of-Life Events (10 or more fatalities):

- 119 -- **Disease**, especially communicable, especially epidemics. (Plus 132 in "Other.")
- 50 -- **Winter Weather/Cold/Hypothermia**. (We note 7 events with 5-9 deaths as well.)
- 13 -- **Tornadoes**. (Additionally, note 5-10-1953 outbreak with 8 deaths.)
- 9 -- **Fires**, structural. (Plus four -- two with 7 fatalities each, and two with six.)
- 8 -- **Heat**. (Plus 6 years 6-8 deaths.)
- 7 -- **Aviation**. (Plus 11, 5-8 deaths: 3 with eight, 1 with seven, 3 with six, and 4 with five.)
- 4 -- **Vehicular** (2007 bridge collapse cross-listed in structural failures; 7 in 1966 & 1994, 9 in 1940.)
- 4 -- **Violence**.
- 3 -- **Explosions**.
- 3 -- **Fire, Forest/Wildfire**.
- 3 -- **Maritime and Inland Waterways**.
- 3 -- **Mining/Quarrying**.
- 1-2 -- **Flooding** (one was a mine flood).
- 2 -- **Rail**. (Plus one with 5 fatalities in "Other.")
- 2 -- **Structural Failure** (Plus 9 deaths in Dec 4, 1891 Shepard building wall fall, St. Paul.)
- 1 -- **Landslide**. (Cross-listed in Mining/Quarrying.)

## MS

## Mississippi

1. 1541 -- ~Mar 10, Hernando de Soto forces and “Chicasa” **battle/“slaughter,”** MS<sup>457</sup> -->20?
2. 1729 -- Nov 28, Ft. Rosalie **massacre,** French Colonists by Natchez, Natchez, MS --200-300
3. 1809 -- May-Feb 1810 -- **disease/illness,** U.S. Army, MS -- 656
4. 1817 -- Aug-Nov 15, **yellow fever** epidemic, Natchez, MS -- 134
5. 1819 -- Sep 4-Dec 1, **yellow fever** epidemic, Natchez, MS --180-250
6. 1819 -- Jul 27, **hurricane,** US **Firebrand** grounds, ‘The Square Handkerchief,’ MS --39-41
7. 1821 -- Sep 15-17, **hurricane,** land/maritime (**Washington**) Bay St. Louis, MS region-- 35
8. 1823 -- Feb 08, steamboat **Tennessee** snags, Miss. River, near Natchez, MS -- > 60
9. 1823 -- Aug 12-Nov 1, **yellow fever** epidemic, Natchez and vicinity, MS -- ~337
10. 1825 -- May 05, steamer **Teche** explos. MS Riv., St. Catherines Creek, ~Natchez, MS --15-60
11. 1825 -- Mid-Aug-Nov 1, **yellow fever** epidemic, Natchez (150), Washington (~60) -- ~210
12. 1828 -- **yellow fever,** MS -- 90
13. 1829 -- Fall, **yellow fever** epidemic, Natchez, MS -- 90
14. 1832 -- Oct-Nov, **cholera** outbreak, especially Vicksburg and Natchez, MS --21-22
15. 1833 -- **cholera,** especially Natchez/107, also Vicksburg, Port Gibson, elsewhere, MS -- ≥136
16. 1833 -- Steamship **Caspian** burns, near Mouth of Red River, MS -- 40
17. 1837 -- May 08, steamer **Ben Sherrod** fire/explosions, MS River, Fort Adams, MS --120-175
18. 1837 -- Sep 08-Nov 25, esp. Oct, **yellow fever** epidemic, Natchez, MS -- 280
19. 1838 -- Apr 21, steamer **Oronoko** flue collapse/explosion, MS River, Princeton, MS-100-130
20. 1838 -- Dec 3, stmr. **Augusta** boiler explosion, Miss. River ~11m north of Natchez, MS-- 10
21. 1839 -- Sep-early Nov, **yellow fever** epidemic, especially Natchez, MS<sup>458</sup> -- 433
22. 1840 -- May 07, **tornado,** Natchez/48 and on river/269 (e.g. steamboat Hinds), MS -- >317
23. 1841 -- Fall, **yellow fever** epidemic, especially Vicksburg and Warren County, MS<sup>459</sup> -- ~200
24. 1843 -- Oct-Nov, **yellow fever** epidemic, Rodney, MS (out of ~100 population) -- 26
25. 1846 -- May 07, **tornado,** Grenada, MS -- 21
26. 1846 -- May 27-28, steamer **Queen City** steam pipe bursts, Miss. River, Natchez, MS --12-17
27. 1846 -- Nov 21, steamers collide, **Maria** sinks, Miss. River, 7M below Natchez MS --30-50
28. 1847 -- sum-fall, **yellow fever,** esp. Vicksburg, also Natchez, Rodney, Pass Christian -- ≥36
29. 1848 -- Nov 21, steamboat **Wyandotte** snags and sinks, MS River, above Vicksburg, MS-- 30
30. 1849 -- summer-fall, **cholera,** MS -- 346
31. 1850 -- spring, **cholera,** MS -- 183
32. 1850 -- **croup;** subset, 10,706 deaths/36 States/DC/Territories, and 8,721 MS deaths -- 398
33. 1850 -- **whooping cough,** subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 242
34. 1851 -- steamship **Autocrat** collision, near Natchez, MS -- 30
35. 1851 -- Jan 27, steamboat **John Adams** snags/sinks, Mississippi River ~Greenville, MS-- 123
36. 1852 -- Jan 14, **George Washington** boiler explosion/fire, Miss. Riv., Grand Gulf MS --16-20
37. 1852 -- Dec 14, steamers collide, **Western World** rolls over, MS Riv., Princeton Lndg., MS--12
38. 1853 -- Aug-Nov, **yellow fever** esp. Natchez/350), Thibodaux/130, Vicksburg/500<sup>460</sup> --1,311

<sup>457</sup> Have not seen estimate of Natives killed; have conjectured “more than 20.” We know from Duncan’s account (*Hernando de Soto*, 1995) that the “Chicasa” attacked with a force of over 300 about seven days earlier. Duncan notes that there was a rout and a “pent-up rage” slaughter. It was usual for this particular force to kill all they could kill when in battle. We suspect that dozens, if not many dozens, were killed.

<sup>458</sup> Also Alexandria (105), Fort Adams (~20), Grand Gulf (~20), Natchitoches (~3), and Vicksburg (~50).

<sup>459</sup> A report of the time is that for about a two-week period, 8-10 died daily from yellow fever.

<sup>460</sup> Also Biloxi, Brandon, Fort Adams vic., Greenwood, Jackson, Port Gibson, Thibodaux, Woodville and elsewhere.

### Mississippi (continued):

39. 1854 -- Mar 27, steamer **Monroe** hits log/sinks, MS Riv., just north of Natchez, MS --17-30
40. 1854 -- Oct 06, steamer **Princess** burns, Mississippi River, Fort Adams, MS -- 14
41. 1855 -- Aug-Nov, **yellow fever**, Natchez and vicinity ( $\geq 47$ ), Cooper's Well (13), MS -- 102
42. 1857 -- Feb 21, steamer **Humboldt** sunk by *Belfast*, MS Riv., chute of Island No. 75, MS-- 15
43. 1858 -- Oct 04-10, **yellow fever**, Natchez and Vicksburg, MS --  $>27$
44. 1860 -- **croup**, contagious upper airway viral infection, MN subset, 15,188 US croup deaths<sup>461</sup>--428
45. 1860 -- **measles** (subset of 3,900 US measles deaths – much higher than States avg.) -- 180
46. 1860 -- **scarlet fever**; 26,402 scarlet fever deaths, 38 Census States/DC; MS -- 348
47. 1860 -- **typhoid fever**; 19,236 deaths in 38 “registration” States and DC; MS -- 808
48. 1860 -- **whooping cough**; 8,408 US whooping cough deaths; MS -- 368
49. 1860 -- May 09, steamer **R.F. Sass** snags/sinks, Miss. River, Clark's Bar, ~Glover, MS-- 17
50. 1860 -- June 03, **tornado outbreak**, Mid-Mississippi Valley, MS -- 150
51. 1862 -- Oct 07, steamboat **Ceres** boiler explosion off St. Joseph Island lighthouse, MS-- 12
52. 1862 -- Nov 05, **explosion**, Munitions “Laboratory” Arsenal, Jackson, MS -- ~40-48
53. 1863 -- Aug 19, steamboat **City of Madison** ammunition explosion, Vicksburg, MS --63-156
54. 1864 -- Jun 10, Confederates **kill captured** black soldiers, Battle of Brice's Cross Roads, MS--  $>20$
55. 1864 -- July 21, **B.M. Runyan** snags/sinks, MS River, Isl. 84, Gaines Landing, MS --70-150
56. 1865 -- June 03, steamers **Poland and Idaho** collide, *Poland* Sinks, Yazoo River, MS--10-12
57. 1865 -- July 31, steamer **Joseph Pierce** boiler explosion/fire, Palmyra Landing, MS -- 9-12
58. 1865 -- Dec 09, steamer **De Soto**, boiler explosion, near Pascagoula, MS -- 11
59. 1866 -- Feb 02, steamer **W.R. Carter** boilers explode, Miss. River, Island No. 98, MS -- 125
60. 1866 -- Aug 07-Nov, **cholera**, esp. Vicksburg (510), Oshand plantation/18, Jackson/3 --  $\geq 531$
61. 1867 -- Jan 17, steamer **John Raine** burns?, Mississippi River, Greenville, MS<sup>462</sup> -- 59
62. 1867 -- Feb 17, steamer **David White** boiler explosion, Miss. River, Pt. Chicot, MS --35-60
63. 1867 -- summer-fall, **yellow fever**, esp. Pass Christian, Winchester, Vicksburg, MS --  $\geq 19$
64. 1870 -- **croup** (upper airway contagious viral infection; subset, 10,692 US croup deaths)-- 281
65. 1870 -- **diarrhoea** (325), **dysentery** (103), **enteritis** (237); data from U.S. Census -- 665
66. 1870 -- **measles**; subset of 9,237 US measles deaths; U.S. Census; MS -- 272
67. 1871 -- Jan 14, steamboat **T. L. McGill** burns, Mississippi River, Shoo-Fly Bar, MS --40-58
68. 1871 -- Mar 06-07 approximately, **racial violence**, Meridian, MS --25-30
69. 1871 -- Sep 10-Nov 1, **yellow fever**, Jackson ( $\geq 26$ ), Natchez (99), Vicksburg ( $\geq 18$ ) --  $>143$
70. 1873 -- ~May-July, **cholera**, Hinds, Lauderdale, Marshall, Warren, Washington Co's -- 58
71. 1874 -- Dec 07, **violence-massacre**, Whites attack Blacks, Vicksburg, MS -- 50
72. 1875 -- **yellow fever** outbreak, Pascagoula, MS -- 60

<sup>461</sup> From US Census using data from 38 “registration” (reporting) states.

<sup>462</sup> Though there are four sources, I have been unable to corroborate with any newspaper or other source. Seems suspicious – when there was a steamboat event with large loss of life it was reported in papers all over the country. We speculate there may have been some confusion between this reported event and the boiler explosion on the steamboat *David White* 2-17-1867 at Point Chicot, just above Greenville. Earlier in its career (1858) the *David White* had been named the *John Raine*. The source we use which notes this states that “some sixty persons lost their lives...” when the *David White* boilers exploded. (*Cincinnati Commercial*. “River and Steamboat News.” 5-9-1867, p. 7, col. 2.) This is very close to the 59 reported by Berman, Lytle and Holdcamper, Nash, and Way, in their accounts of the *Raine* fire. We suspect that either Lytle and Holdcamper or Way put down the first (and mistaken) account, and the other sources just repeated the same data.



### Mississippi (continued):

73.	1875 -- Sep 4-6, racial/pol. <b>violence</b> , whites attack blacks, Clinton, Hinds Co., MS <sup>463</sup>	--37-57
74.	1878 -- Aug-Nov 16, <b>yellow fever</b> >60 locales esp. Vicksburg/Greenville/Grenada/Holly Springs>4,000	
75.	1879 -- Summer-Fall, <b>yellow fever</b> , MS	-- 20
76.	1879 -- June-May 1880, <b>malarial fever</b> , (MS subset, 20,231 such deaths U.S.)	--1,029
77.	1879 -- June-May 1880, <b>tuberculosis</b> (MS subset of 91,270 TB deaths nationwide)	--1,310
78.	1880 -- Apr 25, <b>tornado</b> , Macon, Noxubee County, MS	-- 22
79.	1881 -- Apr 12, <b>tornado</b> , F3, Tunica, Desoto Counties, MS	-- 10
80.	1882 -- Apr 22, <b>tornado</b> , Lawrence County, MS	-- 10
81.	1883 -- Apr 22, <b>tornadoes</b> , MS	-- 81
82.	1886 -- Mar 17, racial <b>hate crime</b> , Carrollton Massacre, Carrollton, MS	-- 13
83.	1888 -- Dec 23, steamer <b>Kate Adams</b> burns, Mississippi River, Commerce Landing, MS	-- ~33
84.	1889-90, June-May, <b>measles</b> , subset of 9,256 US measles deaths	-- 450
85.	1889-90, June-May, <b>typhoid fever</b> , subset of 27,058 US typhoid deaths, MS	-- 521
86.	1890 -- Nov 27, steamer <b>T. P. Leathers</b> burns, Miss. River, Point Breeze, MS	--17-19
87.	1891 -- Oct 29, steamer <b>Oliver Beirne</b> fire, MS Ri., Millikens Bend, ~Vicksburg MS	--15-19
88.	1893 -- Apr 12, <b>tornado</b> , Tunica and Desoto Counties, MS	-- 13
89.	1893 -- May 07, steamer <b>Ohio</b> steam flue bursts, Miss. River ~ Wolf Island, MS	-- 13
90.	1893 -- Oct 01-02, <b>Hurricane Cheniere Caminanda</b> , primarily fishing vessels	--50-59
91.	1896 -- May 10, stmr. <b>Harry Brown</b> boiler explosion, Miss. River ~Ursina Landing, MS	-- 10
92.	1897 -- Aug-Nov, <b>yellow fever</b> , especially Biloxi (28), Edwards (30), Scranton (13)	-- 110
93.	1898 -- Aug 29-Oct 19, <b>yellow fever</b> , esp. Oxford (39), Taylor (13), Harriston (6)	-- 80
94.	1899 -- Sep 10-Nov 9, <b>yellow fever</b> , Jackson (9), Mississippi City (2)	-- 11
95.	1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 380
96.	1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths)	-- 587
97.	1900 -- <b>malarial fever</b> (14,874 US malarial fever deaths)	-- 983
98.	1900 -- <b>measles</b> (subset, 12,866 US measles deaths; 4 <sup>th</sup> largest state loss to measles)	-- 950
99.	1900 -- <b>smallpox</b> ; subset, 8,484 US smallpox deaths; largest smallpox loss any state	-- 782
100.	1900 -- <b>tuberculosis</b> (20,252 MS deaths all causes) (109,750 US TB deaths) <sup>464</sup>	--2,129
101.	1900 -- <b>typhoid fever</b> (MS subset of 35,379 typhoid fever deaths nationwide)	--1,370
102.	1900 -- <b>heat</b> /excessive natural heat exposure, coded "sunstroke" in some Census docs.	-- 10
103.	1901 -- Aug 13-16, <b>hurricane</b> , near Gulfport, MS	-- 10
104.	1902 -- Sep 01, excursion <b>train derailment</b> , Southern Railway, near Berry, AL <sup>465</sup>	-- 30
105.	1905 -- Aug 15-Nov 29, <b>yellow fever</b> , especially Vicksburg (28)	-- 57
106.	1906 -- Mar 02, <b>tornado</b> , Meridian, Lauderdale County, MS	-- 23
107.	1906 -- Sep 27, <b>hurricane</b> , especially MS Gulf Coast	-- 4-78
108.	1908 -- Feb 14, <b>tornado</b> , Mossville, Service and Soso, MS	-- 6-10
109.	1908 -- Apr 24, <b>tornadoes</b> (4), Marion/Lamar/Forest/Perry/Wayne, other counties	--139-155
110.	1909 -- Apr 06-07, <b>wind storms/tornadoes</b> , MS	-- 10
111.	1909 -- Apr 29, <b>tornado</b> , Horn Lake, Desoto County, MS <sup>466</sup>	--14-20
112.	1909 -- Sep 20-21, LA/MS <b>hurricane</b> , esp. western coastal MS; subset of 350-353	-- ≥23

<sup>463</sup> Cross-listed in Political Violence. Majority of targets were Black men, in general, and Republican leaders.

<sup>464</sup> Somewhat more than ten percent of all reported deaths in Mississippi in 1900 were due to tuberculosis.

<sup>465</sup> Though the wreck was in Ala., this was a MS excursion train and the great majority of fatalities were from MS.

<sup>466</sup> Part of outbreak taking lives in AR, IL, MS, MO and TN.

**Mississippi (continued):**

113.	1912 -- Apr, MS Riv. <b>levee breaks</b> , esp. Beulah levee, Bolivar Co., <b>flooding</b> , MS	--50-100
114.	1913 -- Mar 21, <b>tornadoes</b> (3), MS	-- 14
115.	1913 -- July 21, <b>fire</b> , convict cage, Oakley Convict Farm, Hinds County, MS	-- 35
116.	1913 -- Sep 28, <b>mass murder</b> shooting spree, Lynching, Harriston, MS	--11-12
117.	1913 -- Oct 19, <b>train derailment</b> , Buckatunna, MS	-- 17
118.	1915 -- Sep 29-Oct 1, <b>hurricane</b> , MS coast	-- 50
119.	1915 -- Dec 17, <b>tornado</b> , Lauderdale and Kemper Counties, MS, Millport, AL	-- ~10
120.	1916 -- June 05, <b>tornado</b> , Vicksburg, Warren County & Jackson, Hinds County, MS	-- 15
121.	1916 -- June 06, <b>tornado</b> , Hinds and Madison Counties, MS	-- 13
122.	1916 -- Late Summer-Fall (especially), <b>polio</b> , especially children, Statewide, MS	-- 31
123.	1918 -- <b>typhoid fever</b> (MS subset of 9,100 U.S. typhoid fever deaths)	-- 599
124.	1918, Sep-Dec, 1920 -- <b>influenza and pneumonia</b> epidemic, MS	--11,863
	1918 -- Sep-Dec, <b>influenza and pneumonia</b> epidemic, MS	--6,219
	1919 -- Jan-Dec, <b>influenza and pneumonia</b> , MS	--4,687
125.	1919 -- Mar 16, <b>tornadoes</b> , esp. Isola, Issaquena & Sharkey counties, Moorhead, MS	-- 36
126.	1920 -- <b>malaria</b> , MS subset (highest state), 3136 malaria deaths, 34 registration states/DC-683	
127.	1920 -- <b>smallpox</b> , MS subset (2 <sup>nd</sup> highest), 508 smallpox deaths/34 registration states	-- 45
128.	1920 -- <b>typhoid fever</b> (MS subset, 6,805 typhoid fever deaths, 34 registration states)	-- 333
129.	1920 -- Apr 20, <b>tornadoes</b> , MS	-- 131
130.	1921 -- Apr 26, <b>tornado</b> , Copiah, Simpson Counties, MS	-- 15
131.	1923 -- Mar 15, <b>tornadoes</b> , Tunica, Tate, Desoto, Quitman, Panola Co.'s, MS	-- 17
132.	1924 -- May 26, <b>tornadoes</b> , MS	-- 30
133.	1925 -- <b>dysentery</b> ; 3,257 US dysentery deaths; MS subset, 9 <sup>th</sup> highest	-- 158
134.	1925 -- <b>influenza</b> ; subset of 30,538 US influenza deaths; MS	-- 976
135.	1925 -- <b>malaria</b> (subset, highest in US, of 2,132 malaria deaths in 1925); MS	-- 426
136.	1925 -- <b>tuberculosis</b> (subset, 89,268 US tuberculosis deaths) ; MS	--1,928
137.	1925 -- <b>typhoid/paratyphoid fever</b> (MS subset, 8,287 US Typhoid Fever deaths)	-- 480
138.	1925 -- <b>whooping cough</b> (subset, 6,948 US whooping cough deaths); MS	-- 184
139.	1925 -- May 08, US steamer <b>Norman</b> capsizes/sinks, Miss. River, Coahoma, MS <sup>467</sup>	-- 23
140.	1927 -- Feb 17, <b>tornadoes</b> , Warren, Covington, Jones, Jasper counties, MS	-- 14
141.	1927 -- Apr-May (esp.) <b>levee breaks</b> , <b>flooding</b> , drownings, MS River & Tributaries	-- 42
142.	1929 -- Feb 25, <b>tornado</b> , F4, Bolivar County, MS	-- 19
143.	1931 -- <b>diphtheria</b> , especially children (MS subset, 5,738 U.S. diphtheria deaths)	-- 238
144.	1931 -- <b>malaria</b> , MS subset (3 <sup>rd</sup> highest state), 2,536 US malaria deaths	-- 252
145.	1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths	--1,683
146.	1931 -- summer, <b>heat wave</b> and excessive heat deaths; subset of 2,768 US deaths, MS	-- 11
147.	1933 -- Mar 31, <b>tornado outbreak</b> , esp. Jones, Jasper, Clarke, Smith, Wash. counties	-- 56
148.	1936 -- Apr 05, <b>tornadoes</b> , four counties, especially Tupelo, MS	--224-233
149.	1937 -- Sep 25-Oct 24, <b>Elixir Sulfanilamide medicine non-intentional poisoning</b>	--23-24
150.	1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (MS subset, 1,997 US diphtheria deaths)	-- 58
151.	1939 -- <b>influenza/pneumonia</b> (MS subset, 99,097 US influenza/pneumonia deaths)	--2,122
152.	1939 -- <b>malaria</b> ; subset (2 <sup>nd</sup> highest state loss), 1,761 US malaria deaths, MS	-- 235
153.	1939 -- <b>whooping cough</b> , MS subset (4 <sup>th</sup> highest), 3,026 US whooping cough deaths	-- 155

<sup>467</sup> Cross-listed in Tennessee in that the majority of victims were from Memphis.

**Mississippi (continued):**

154.	1940 --	<b>influenza and pneumonia</b> ;	92,525 US flu and pneumonia deaths; MS	--1,906
155.	1940 --	<b>malaria</b> ,	MS subset, 4 <sup>th</sup> highest state loss, 1,442 US malaria deaths	-- 174
156.	1940 --	<b>syphilis</b> ,	US death rate 14.4 per 100,000 pop. (19K US); MS death rate 21.7--	474
157.	1940 --	<b>whooping cough</b> ;	2926 US WC deaths/death rate 2.2 per 100K, MS, 6.6	-- 146
158.	1940 --	Apr 23, Rhythm Night Club <b>fire</b> /	suffocation/trampling, Natchez, MS	-- 209
159.	1941 --	<b>measles</b> ,	especially children (MS subset of 2,279 U.S. measles deaths)	-- 69
160.	1942 --	Mar 16, <b>tornadoes</b> ,	Baldwin and multiple counties, MS	-- 75
161.	1943 --	Sep 05, <b>USAAF B-17F plane crash</b> ,	Lake Cormorant, MS	-- 10
162.	1944 --	<b>influenza</b> (MS subset, 17,320 US	influenza deaths), esp. Jan-Apr, Dec; MS	-- 594
163.	1944 --	<b>whooping cough</b> (subset of 1,878 US	whooping cough deaths); MS	-- 45
164.	1944 --	Aug 27, <b>USAAF B-17G plane crash</b> ,	20M from Bay St. Louis, MS	-- 10
165.	1945 --	Apr 11, two <b>USAAF TB-17Fs AP</b>	<b>approach collision</b> near Jackson AAB, MS--	14
166.	1945 --	June 14, <b>USAAF C-46D crash</b> (apparent	lightning strike), 6M SE Oakridge, MS--	17
167.	1947 --	Sep 17-19, <b>hurricane</b> ,	MS (subset of 51 fatalities in FL, LA and MS)	-- 22
168.	1948 --	Nov 05, <b>tornadoes</b> ,	Madison, Yazoo, Tippah Counties, esp. Madison/9, MS--	10
169.	1950 --	<b>measles</b> ,	468 US deaths MS subset (largest US state loss)	-- 34
170.	1951 --	<b>measles</b> ,	688 US deaths; subset for MS	-- 15
171.	1951 --	<b>polio</b> ,	especially July-Nov (MS subset of 1,551-1,555 US polio deaths)	-- 37
172.	1951 --	<b>whooping cough</b> ;	960 US deaths; subset for MS (3 <sup>rd</sup> highest US state loss)	-- 72
173.	1951 --	Jan 27-Feb 4, <b>cold waves/winter storms/ice/sleet/snow</b> ,	175-200 US; MS	-- 10
174.	1952 --	<b>dysentery</b> ,	infections (all forms); 949 US deaths; MS (2 <sup>nd</sup> highest US state)	-- 71
175.	1952 --	<b>whooping cough</b> (pertussis);	406 US deaths; MS (2 <sup>nd</sup> highest US state loss)	-- 30
176.	1953 --	<b>dysentery</b> ,	infectious, all forms (codes 045-048), 886 US deaths; MS (2 <sup>nd</sup> highest)-	52
177.	1953 --	<b>influenza</b> ;	9,500 US deaths; MS subset (10 <sup>th</sup> highest in the US)	-- 342
178.	1953 --	<b>measles</b> ,	483 US deaths, 23 states in double digits; MS tied for 6 <sup>th</sup> high state--	20
179.	1953 --	<b>whooping cough</b> ;	271 US deaths, 11 States double digits; MS subset/5 <sup>th</sup> highest--	14
180.	1953 --	Dec 05, <b>tornado</b> ,	F4, Warren County, MS, especially Vicksburg, MS	-- 38
181.	1954 --	<b>dysentery</b> ,	infectious, all forms (045-048), 655 US deaths; MS 2 <sup>nd</sup> US high	-- 61
182.	1954 --	<b>influenza</b> ,	2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; MS subset--	84
183.	1954 --	<b>whooping cough</b> /pertussis;	375 US deaths, 17 states double digits, MS subset--	23
184.	1955 --	<b>influenza</b> ;	2,755 US deaths; MS had 7 <sup>th</sup> highest US state loss of life	-- 106
185.	1955 --	<b>whooping cough</b> /pertussis,	476 US deaths/15 states in double digits; MS	-- 34
186.	1955 --	Feb 1, <b>tornadoes</b> /strong winds,	Commerce Landing school/20 & Lewisburg/3, NW MS-	23
187.	1956 --	<b>influenza</b> ,	2,323 US deaths; MS had 6 <sup>th</sup> highest US state death toll	-- 100
188.	1956 --	<b>polio</b> /acute,	566 US deaths/15 states in double-digits; MS subset	-- 13
189.	1956 --	<b>whooping cough</b> /pertussis,	266 US deaths; 8 states double digit deaths, MS, 2 <sup>nd</sup> high--	41
190.	1957 --	<b>influenza</b> ;	7,463 US deaths; MS subset	-- 173
191.	1957 --	<b>whooping cough</b> /pertussis;	183 US deaths; 6 states double digits; MS	-- 14
192.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b>	pandemic (US 116K) <sup>468</sup> --	803
193.	1958 --	<b>influenza</b> ;	4,442 US deaths; MS subset (6 <sup>th</sup> highest in the US)	-- 199
194.	1958 --	<b>measles</b> ;	552 US deaths; 23 States in double digits, including MS	-- 18
195.	1958 --	<b>whooping cough</b> (pertussis);	177 US deaths; MS had 5 <sup>th</sup> highest state loss	-- 12

<sup>468</sup> "...the West Coast was involved first, followed shortly by Louisiana and Mississippi, which experienced extensive epidemics involving large areas." (Communicable Disease Center. *Asian Influenza 1957-1960*. 1960, p13.)

**Mississippi (continued):**

196.	1958	-- Feb 06-17, <b>coldwave/ice &amp; snow</b> , especially vehicles skidding on icy roads	-- 8-17
197.	1958	-- Feb 26, <b>tornadoes</b> , 5 counties, esp. Farmhaven, Madison Co./6, south & cent. MS	--13
198.	1959	-- <b>tuberculosis</b> ; 11,456 US TB deaths; subset for MS	-- 151
199.	1959	-- <b>whooping cough</b> (pertussis); 269 US deaths, especially children; MS subset	-- 17
200.	1960	-- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; MS death rate 10.9	-- 238
201.	1960	-- <b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; MS death rate 6.7	-- 145
202.	1961	-- <b>influenza</b> ; 2,137 US deaths/death rate 1.2 per 100K; MS death rate 2.6	-- 58
203.	1962	-- <b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; MS death rate 4.2	-- 95
204.	1962	-- <b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population; MS rate 0.3	-- 11
205.	1962	-- <b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; MS rate 5.6	-- 125
206.	1962	-- Jan 09-11, <b>extreme cold-wave</b> ; 153-219 US deaths; subset for MS	--11-15
207.	1963	-- <b>dysentery</b> ; 294 US deaths/death rate 0.2 per 100K pop.; MS death rate 0.7	-- 15
208.	1963	-- <b>influenza</b> , 7,083 US deaths/death rate 3.8; MS death rate 10.9	-- 249
209.	1964	-- <b>dysentery</b> ; 283 US deaths; MS subset	-- 25
210.	1964	-- <b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; MS death rate 1.7	-- 40
211.	1964	-- <b>measles</b> ; 421 US deaths/death rate 0.2; MS death rate 0.2	-- 25
212.	1965	-- <b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; MS death rate 2.6	-- 60
213.	1966	-- <b>dysentery</b> , 172 US deaths; subset for MS	-- 11
214.	1966	-- <b>measles</b> , 276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; MS	-- 10
215.	1966	-- <b>tuberculosis</b> , 7,625 US TB deaths; subset for MS	-- 100
216.	1966	-- Jan 29-30, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; MS	-- 10
217.	1966	-- Mar 03, <b>tornado</b> , Hinds/19 (Jackson), Rankin/6, Scott/26, Leake/6 counties, MS	--57
218.	1968	-- <b>influenza</b> , ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; MS 4.6	-- 100
219.	1968	-- <b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; MS death rate 4.11	-- 89
220.	1969	-- <b>excessive natural heat</b> , ICD-8 code E900; 271 US deaths; MS	-- 13
221.	1969	-- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; MS 3.8	--83
222.	1969	-- Jan 23, <b>tornado</b> , esp. Copiah/11, Simpson/12, Smith/9 Counties, central MS	-- 32
223.	1969	-- Aug 17-18, <b>Hurricane Camille</b> , esp. Harrison Co./114, Hancock, Jackson-135-172	
224.	1970	-- <b>influenza</b> ; ICD-8 codes 470-474; 3707 US deaths/death rate 1.8 per 100K; MS 5.2 <sup>469</sup>	--116
225.	1971	-- <b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; MS rate 2.20	-- 50
226.	1971	-- Feb 21, <b>tornadoes</b> , esp. Pugh City/22, Inverness/19, Cary/14, Yazoo/9, MS	-- 110
227.	1972	-- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; MS 3.12	-- 72
228.	1972	-- <b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; MS death rate 2.77	-- 64
229.	1973	-- <b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; MS 2.77	-- 65
230.	1973	-- mid-Mar-May, <b>flooding</b> , Mississippi River drainage area, 28-33 deaths; MS	-- 14
231.	1974	-- <b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; MS rate 1.89	-- 45
232.	1975	-- <b>St. Louis Encephalitis</b> outbreak, MS	-- 13
233.	1976	-- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; MS 4.9	--118
234.	1976	-- <b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; MS, 2.14	-- 52
235.	1977	-- <b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; MS, 0.81	-- 20
236.	1977	-- <b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; MS, 1.83	-- 45
237.	1978	-- <b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; MS, 2.49	-- 62
238.	1978	-- <b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; MS, 1.77	-- 44

<sup>469</sup> At 5.22 deaths per 100K, MS had the 3<sup>rd</sup> highest US influenza death rate in 1970.



**Mississippi (continued):**

239.	1978 --	Dec 09, <b>fire</b> , Ellisville State School/mental hosp., women's dorm, Ellisville, MS-15	
240.	1979 --	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; MS, 0.52	-- 13
241.	1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; MS, 1.63	-- 41
242.	1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; MS, 1.19	-- 30
243.	1980 --	June-Aug (esp.), <b>heat</b> , esp. counties of Washington/17 and Grenada/10, MS	-- 135
244.	1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, MS, 2.44	-- 62
245.	1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; MS, 0.98	-- 25
246.	1981 --	June-Aug especially, <b>heat</b> (ICD-9 E900 code for excessive natural heat), MS--	11
247.	1982 --	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, MS, 0.43	-- 11
248.	1982 --	<b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, MS, 1.09	-- 28
249.	1982 --	Nov 08, Harrison County Jail <b>fire</b> , intentionally set by inmate, Biloxi, MS	-- 29
250.	1983 --	exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; MS	-- 10
251.	1983 --	<b>tuberculosis</b> , 1,779 US TB deaths/death rate 0.76 per 100K; MS, 1.21	-- 31
252.	1983 --	summer <b>heat</b> , esp. July, deaths in 8 counties, esp. Bolivar/3; US/597)	-- 11
253.	1983 --	Dec 16-31, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	-- 11
254.	1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, MS, 0.62	-- 16
255.	1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; MS, 1.09	-- 28
256.	1984 --	Apr 21, <b>tornadoes</b> , especially Water Valley (7-8) and Philipp (5), MS	--15-16
257.	1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, MS, 1.78	-- 46
258.	1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; MS, 0.85	-- 22
259.	1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: MS, 0.93	-- 24
260.	1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; MS, 1.00	-- 26
261.	1986 --	summer <b>excessive heat</b> , MS (subset of >400 U.S. heat-related fatalities)	-- 23
262.	1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, MS, 0.89	-- 23
263.	1987 --	summer <b>excessive heat</b> , MS subset of approximately 388 U.S. heat deaths	-- 10
264.	1988 --	<b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K; MS rate 1.16	-- 30
265.	1988 --	summer especially, <b>excessive natural heat</b> , MS	-- 10
266.	1989 --	exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; MS	-- 13
267.	1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; MS, 0.97	-- 25
268.	1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; MS rate 1.10	-- 26
269.	1989 --	June-Aug (esp.), <b>heat</b> , ICD-9 E900 code for excessive heat and hyperthermia--	10
270.	1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; MS rate 1.28	-- 33
271.	1990 --	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; MS rate 1.48	-- 38
272.	1990 --	summer esp., <b>heat</b> , ICD-9 E900 excessive heat and hyperthermia code	-- 14
273.	1991 --	<b>influenza</b> , 1,137 US flu deaths/death rate 0.45 per 100K; MS death rate 0.62--	16
274.	1992 --	exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; MS	-- 10
275.	1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; MS rate 1.33	-- 35
276.	1992 --	summer esp., <b>excessive heat</b> , esp. July-Aug; subset of 155 US heat deaths; MS--	10
277.	1992 --	Nov 21-22, <b>tornado outbreak</b> , esp. Rankin County (10 deaths), MS	-- 15
278.	1993 --	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; MS	-- 10
279.	1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K, MS, 0.41	-- 11
280.	1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; MS, 1.05	-- 28
281.	1994 --	exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; MS	-- 16
282.	1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; death rate 0.56 per 100K, MS, 0.74	-- 20

**Mississippi (continued):**

283.	1995 --	tuberculosis	; 1,336 US TB deaths/death rate 0.5 per 100K; MS, 0.59	--	16
284.	1995 --	summer heat	(MS subset of 1,563-1,601 U.S. heat-related deaths)	--	15
285.	1996 --	tuberculosis	, 1,202 US TB deaths; death rate 0.45 per 100K, MS, 0.9	--	25
286.	1997 --	tuberculosis	, ICD-9 code 010-018, death rate 0.43 per 100K, MS, 0.50	--	14
287.	1998 --	tuberculosis	, ICD-9 code 010-018, death rate 0.40 per 100K; MS, 0.53	--	15
288.	1998 --	summer especially, heat	(435 U.S. heat-related deaths); subset for MS	--	12
289.	1999 --	tuberculosis	, ICD-10 code A16-19, death rate 0.333 per 100K; MS, 0.53	--	15
290.	1999 --	summer especially, heat	(MS subset of 1,050 U.S. heat-related deaths)	--	28
291.	2000 --	exposure to excessive natural cold/hypothermia	; 742 US deaths; MS	--	14
292.	2000 --	exposure to excessive natural heat	, 494 US deaths, subset for MS	--	18
293.	2000 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.627 per 100K; MS, 0.809	--	23
294.	2000 --	tuberculosis	, ICD-10 code A16-19; death rate 0.276 per 100K; MS, 0.492	--	14
295.	2001 --	exposure to excessive natural cold/hypothermia	; 599 US deaths; MS	--	11
296.	2001 --	tuberculosis	, ICD-10 code A16-19, death rate 0.268 per 100K; MS, 0.351	--	10
297.	2003 --	exposure to excessive natural cold/hypothermia	; 620 US deaths; MS	--	10
298.	2003 --	exposure to excessive natural heat	; 426 US deaths; subset for MS	--	11
299.	2004 --	exposure to excessive natural cold/hypothermia	; 676 US deaths; MS	--	14
300.	2005 --	exposure to excessive natural heat	; 939 US deaths, subset for MS	--	12
301.	2005 --	Aug 29, Hurricane Katrina	, MS coast, esp. Hancock, Harrison, Jackson Co's.	--	238
302.	2006 --	summer, excessive natural heat	(exposure to), MS	--	12
303.	2007 --	exposure to excessive natural heat	; 582 US deaths, subset for MS	--	12
304.	2008 --	exposure to excessive natural heat	; 502 US deaths, subset MS	--	10
305.	2008 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.19 per 100K; MS, 0.41	--	12
306.	2009 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.9 per 100K; MS 1.0	--	29
307.	2009 --	exposure to excessive natural heat	; 555 US deaths, subset for MS	--	13
308.	2009 --	especially fall/winter, H1N1 "Swine Flu"	(MS subset, over 12,000 U.S.)	--	22-26
309.	2010 --	Apr 24, tornado	, central MS (Choctaw, Holmes and Yazoo County deaths)	--	10
310.	2010 --	exposure to excessive natural heat	, esp. July 29-Aug 4; 874 US deaths; MS	--	34
311.	2011 --	exposure to excessive natural heat	, 1,060 US deaths, subset for MS	--	21
312.	2011 --	Apr 27, tornadoes	, especially Counties of Monroe (Smithville) and Clarke	--	35
313.	2012 --	exposure to excessive natural heat	; 879 US deaths; subset for MS	--	16
314.	2014 --	exposure to excessive natural cold/hypothermia	; 930 US deaths subset, MS	--	12
315.	2014 --	viral hepatitis	, ICD-10 code B15-19, US death rate 2.5 per 100K; MS rate 2.6	--	79
316.	2014 --	Apr 28, tornado outbreak	, especially Winston County (4 other counties)	--	14
317.	2015 --	diarrhoea/gastroenteritis	, infectious origin, US death rate 0.8 per 100K, MS higher	--	27
318.	2015 --	exposure to excessive natural heat	; 567 US deaths; subset for MS	--	10
319.	2015 --	Dec 23, tornado fatalities	, Benton (6), Coahoma, Marshall, Tippah counties	--	10
320.	2016 --	exposure to excessive natural heat	, 786 US deaths, subset for MS	--	11
321.	2016 --	HIV AIDS	, 6,160 US deaths/death rate 1.9 per 100,000; MS rate 2.6	--	77
322.	2016 --	tuberculosis	, ICD-10 Codes A16-A19; US death rate 0.2 per 100K, MS, 0.3	--	10
323.	2017 --	HIV/AIDS	; 5,698 US deaths/death rate 1.75 per 100K; MS death rate 3.75	--	112
324.	2017 --	July 10, USMC KC-130	(NY Reserve) crash, with Sp. Ops team, Leflore Co., MS	--	16
325.	2018 --	exposure to excessive natural cold/hypothermia	; subset of 1,028 US deaths	--	11
326.	2018 --	exposure to excessive natural heat	; 1,012 US deaths; subset for MS	--	15

327.	2018 --	<b>HIV/AIDS</b> ;	5,425 US deaths/death rate 1.66 per 100K; MS death rate 4.15 <sup>470</sup> --	124
328.	2019 --	exposure to <b>excessive natural heat</b> ,	subset of 915 US heat deaths	-- 11
329.	2019 --	<b>HIV/AIDS</b> ;	5,054 US deaths/death rate of 1.54 per 100,000 pop.; MS 2.59	-- 77
330.	2019 --	<b>influenza</b> ;	subset of 5,902 US deaths, 1.08 death rate per 100K, MS, 1.31	-- 39
331.	2020 --	<b>COVID-19</b> ;	354,215 US Covid deaths/1,070 per 1M; MS, 1,608 per 1M pop.	--4,787
332.	2020 --	<b>HIV</b> ;	ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; MS 3.34	-- 99
333.	2020 --	Apr 13, <b>tornadoes</b> ,	esp. counties of Jefferson Davis/4, Jones/3, Lawrence/2, MS-12	
334.	2021 --	<b>COVID-19</b> ;	437,984 US deaths/2.6K deaths per 1M pop.; MS, 3.6K per M	--5,663
335.	2022 --	<b>COVID-19</b> ;	217,370 US deaths/death rate 6.50; MS death rate 8.86	--2,636
336.	2021 --	<b>HIV/AIDS</b> ;	4,977 deaths/death rate 1.50 per 100K; MS death rate 2.71	-- 80
337.	2022 --	exposure to <b>excessive natural heat</b> ;	2,159 US deaths; subset for MS	-- 18
338.	2023 --	<b>COVID-19</b> ;	71,691 US deaths (MS, 429 underlying cause, 782 contributing)-1,211	
339.	2023 --	exposure to <b>excessive natural heat</b> ;	2,155 US deaths; subset for MS	-- 41
340.	2023 --	Mar 24, <b>tornado</b> & severe storms	MS/25 & AL/1, especially Rolling Fork, MS--25	
341.	2024 --	Jan 12-21, <b>winter storms</b> ,	snow and cold, MS	-- 12

#### Some Select/Notable Other **Mississippi** Large Loss-of-Life Events:<sup>471</sup>

1801-02--	<b>smallpox</b>	outbreak, Whites and presumably Native Americans, MS <sup>472</sup>	--	?
1850 --	<b>dysentery</b> ;	subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	--	217
1850 --	<b>measles</b> ;	subset 2,988 US measles deaths (average was 83 per State/Ter.), MS	--	46
1850 --	<b>scarlet fever</b> ;	subset of 9,584 such deaths 36 States/Territories/DC (average 266)	--	204
1850 --	<b>smallpox</b> ;	subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	--	12
1850 --	<b>tuberculosis</b> ;	subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	--	332
1870 --	<b>tuberculosis</b>	(consumption) (Miss. Subset of ~70,000 TB deaths nationwide)	--	695
1870 --	<b>typhoid fever</b>	(MS subset of 22,187 typhoid fever deaths nationwide)	--	333
1870 --	<b>whooping cough</b>	(MS subset of 9,008 whooping cough deaths nationwide)	--	159
1873 --	<b>yellow fever</b> ,	MS	--	9
1889 --	June-May 1890, <b>croup</b> ,	MS	--	226
1889 --	June-May 1890, <b>diphtheria</b> ;	subset of 27,815 U.S. diphtheria deaths; MS	--	89
1898 --	<b>typhoid fever</b>	(subset of 3071 deaths), First & Second MS Vol. Inf., US camps	--	46
1900 --	<b>croup</b>	(upper airway contagious viral infection; MS subset, 12,484 croup deaths)	--	188
1900 --	<b>diphtheria</b>	(MS subset of 16,475 US diphtheria deaths in 1900)	--	85
1900 --	<b>meningitis</b>	(subset, 19,423 US meningitis deaths)	--	211
1900 --	<b>scarlet fever</b>	(subset, 6,333 US scarlet fever deaths)	--	42
1900 --	<b>whooping cough</b>	(subset, 9,958 US whooping cough deaths)	--	175
1910 --	<b>polio</b>	outbreak, especially children (MS subset, 1,635 US polio deaths in 1910)	--	18
1912 --	May 06, <b>train derailment</b>	(poorly maintained roadbed) near Eastabuchie, MS	--	9
1916 --	<b>diphtheria</b> ,	especially children; MS subset, >8,000-17,000 US diphtheria deaths	--	141
1917 --	<b>influenza</b> ;	12,974 US influenza deaths/death rate 17.2 per 100K; three cities <sup>473</sup>	--	48

<sup>470</sup> Highest State death rate. District of Columbia was higher with 9.25.

<sup>471</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>472</sup> We do not have a number. We know there was a pandemic among Native Americans that stretched from Gulf of Mexico to the Canadian border and beyond and to the Pacific Northwest to the Pacific. There was an outbreak in Natchez and the Governor ordered mass vaccinations. We speculate there were deaths amongst whites and natives.

<sup>473</sup> Not a Census registration state, so no State data. Hattiesburg death rate 57.6, Jackson, 61.1, Vicksburg, 47.5.

**Mississippi (continued):**

1920 --	<b>diphtheria and croup</b> (MS subset, 13,395 such deaths in 34 registration states)	--	284
1920 --	<b>influenza and pneumonia</b> (MS subset, 141,609-220,798 flu/pneumonia deaths)	--	957
1920 --	<b>measles</b> (MS subset of 7,712 measles deaths in 34 registration states)	--	18
1920 --	<b>scarlet fever</b> (MS subset of 4,004 scarlet fever deaths in 34 registration states)	--	24
1920 --	<b>whooping cough</b> (MS subset, 10,968 whooping cough deaths in 34 reg. states)	--	157
1921 --	<b>polio</b> (Acute) esp. late summer-fall (MS subset, 1,597 U.S. polio deaths)	--	17
1925 --	<b>anthrax</b> (MS subset of 22 US anthrax deaths)	--	1
1925 --	<b>diphtheria</b> (MS subset, 8,058 US diphtheria deaths)	--	144
1925 --	<b>excessive heat</b> (MS subset of 1,587 US excessive heat deaths; US Census Bureau--	--	7
1925 --	<b>measles</b> (MS subset of 2,404 measles deaths in 40 "registration" states)	--	23
1925 --	<b>polio</b> (MS subset, 1,518 US polio deaths)	--	25
1925 --	<b>scarlet fever</b> (MS subset of 2,762 US scarlet fever deaths, 48 states)	--	11
1927 --	<b>polio</b> (acute) esp. late summer and fall (MS subset, 2,013 U.S. polio deaths)	--	20
1931 --	<b>epidemic cerebrospinal meningitis</b> (Census term) 2,832 US deaths, MS subset	--	35
1931 --	<b>influenza</b> (MS subset of 31,701 influenza deaths nationwide)	--	540
1931 --	<b>polio</b> , esp. July-Oct, (MS subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	15
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; MS death rate 3.8	--	77
1937 --	Jan 20-Feb 10 (generally), <b>flooding</b> , OH and MS River Valley areas	--	6
1939 --	<b>tuberculosis</b> ; 61,609 US tuberculosis deaths; subset for MS	--	1,035
1939 --	summer, <b>excessive natural heat</b> (subset of 527-1,073 heat deaths nationwide)	--	9
1940 --	<b>tuberculosis</b> (MS subset of 55,576 tuberculosis deaths nationwide)	--	1,015
1944 --	<b>measles</b> , especially Jan-June (1,923 US measles deaths), subset for MS	--	24
1944 --	<b>tuberculosis</b> (MS subset of 54,731 tuberculosis deaths nationwide)	--	831
1946 --	<b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths)	--	17
1946 --	Jan 06, <b>tornadoes</b> , Carroll and Sunflower counties, MS	--	6-8
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	--	10
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	--	14
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for MS	--	462
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for MS	--	197
1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; subset for MS	--	19
1952 --	<b>polio</b> , ~3,300 US polio deaths; subset for MS	--	30
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for MS	--	367
1952 --	<b>typhoid fever</b> (code 040); 79 US deaths; subset for MS	--	7
1952 --	Mar 21, <b>tornado</b> , Byhalia ( $\geq 6$ ) and Cayce, Marshall County, MS	--	9
1953 --	<b>polio</b> , especially children (MS subset of 1,450 polio deaths nationwide)	--	10
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; MS subset	--	263
1954 --	<b>excessive heat</b> (especially July), state subset of 978-984 heat-related deaths	--	8
1954 --	<b>polio</b> , acute; 1,400 US deaths; MS subset	--	12
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; MS subset	--	196
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; MS subset	--	170
1956 --	<b>measles</b> , 530 US deaths/21 states in double digits; MS subset	--	9
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; MS subset	--	163
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; MS subset	--	141
1958 --	<b>diphtheria</b> ; 74 US deaths; MS subset (3 <sup>rd</sup> highest in US behind GA/9 and TX/8)	--	6



**Mississippi (continued):**

1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; MS subset	--	163
1959 --	Jan 05, <b>fire</b> , residential, coal-burning stove, Winstonville, Bolivar Co., MS	--	6
1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; MI death rate 0.4	--	9
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; MS death rate 5.2	--	116
1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	--	5-8
1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; MS death rate 0.3	--	8
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; MS death rate 4.9	--	113
1963 --	Apr 29, <b>tornadoes</b> , Coahoma County, esp. Moon Lake (5), Shannon, Lee County (3)--	8	
1963 --	Dec 23, USAF B-52 Stratofortress <b>plane crash</b> after takeoff ~Columbus AFB, MS--all	9	
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; MS death rate 4.3	--	99
1964 --	<b>whooping cough</b> (pertussis); 93 US deaths; MS deaths	--	7
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; MS death rate 3.3	--	76
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for MS	--	26
1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; MS	--	9
1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; MS	--	8
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; MS death rate 2.59	--	57
1969 --	Jan 18, Carrie Weaver Nursing Home <b>fire</b> , Greenville, MS	--	7
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; MS 1.9--	43	
1972 --	<b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; MS	--	8
1972 --	<b>measles</b> /rubeola; ICD-8 code 055; 24 US deaths; MS had US high	--	6
1972 --	Sep 07, <b>Piper Navajo loss of control AP approach crash</b> , near Columbus, MS	--	all 6
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; MS death rate 1.53	--	36
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; MS/0.967--	70	
1974 --	Dec 11, <b>Iowa Aviation Cessna 210L plane crash</b> , I-20, heavy rain, Brandon, MS--	all 5	
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; MS, 0.96	--	23
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; MS death rate 1.42	--	34
1977 --	Oct 20, <b>Lynyrd Skynyrd Band plane crash</b> near Gillsburg, MS	--	6
1978 --	Nov 06, <b>Beechcraft</b> Duke loses an engine/ <b>crash</b> , fam. of 7 & pilot killed ~Jackson MS--	8	
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, MS death rate 0.71	--	18
1984 --	summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) MS subset of 228	--	6
1985 --	summer <b>heat</b> (ICD-900 code for excessive heat/hyperthermia) MS subset of 227	--	9
1986 --	<b>measles</b> (ICD-9 055 code; subset of 3 US measles deaths in 1986)	--	1
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K population; MS rate 2.43	--	63
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; MS rate 2.87	--	74
1988 --	<b>Influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K pop.; MS rate 0.58	--	15
1988 --	June 08, Air Nat. Guard <b>C-130 plane crash</b> , touch-and-go-landing, Greenville, MS--	6	
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; MS rate 3.72	--	96
1989 --	June 26-28, <b>Tropical Storm Allison</b> , MS	--	5
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate of 0.68 per 100K pop., MS rate 0.54--	14	
2002 --	May 16, fire and <b>rubber dust explosion</b> , Rouse Polymerics, Vicksburg, MS	--	5
2003 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K pop.; MS, 0.453	--	13
2004 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.376 per 100K pop.; MS, 0.346	--	10
2008 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K pop.; MS rate 0.54--	16	
2009 --	<b>influenza (avian)</b> , ICD-10 code J09; US death rate 0.5 per 100K pop.; MS rate 0.4--	12	

2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US and MS death rate 0.9 per 100K pop. --	26
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; MS rate 1.8 --	52
2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K, MS 0.6 --	30
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K pop.; MS, 2.2 --	66
2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, MS 0.6 --	18
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100K; MS rate 2.5 --	74
2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US & MS death rate 0.8 per 100K --	24
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; MS, 2.5 --	76
2013 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.2 per 100,000; MS rate 1.1 --	33
2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US and MS death rate 0.8 per 100K --	23
2014 --	<b>influenza</b> , ICD-10 codes J09-11; US avg. death rate 1.4 per 100,000; MS rate 1.4 --	41
2015 --	<b>influenza</b> , ICD-10 codes J09-11; US avg. death rate 1.6 per 100,000; MS rate 1.0 --	31
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; MS rate 2.3 --	68
2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US & MS death rate 0.7 per 100K --	20
2016 --	<b>influenza</b> , ICD-10 codes J09-11; US avg. death rate 0.9 per 100,000; MS rate 0.7 --	21
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; MS rate 1.9 --	58
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; MS death rate 1.74 --	52
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., MS death rate 3.08 --	92
2020 --	<b>influenza</b> : <sup>474</sup> 5,943 US deaths/death rate 1.8 per 100K; MS death rate 1.58 --	47
2021 --	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; MS subset --	10

#### Breakout by Type of **Mississippi** Large-Loss-of-Life Events (10 or more fatalities):

- 180 -- **Disease**, especially communicable, especially epidemics. (Plus 103 in "Other.")
- 42 -- **Tornadoes** (One cross-listing in windstorms; plus note 3 events 6-9 deaths).
- 36 -- **Maritime and Inland Waterways**. (Including cross-listing of one in Hurricanes.)
- 31 -- **Heat**. (Plus 4 years 6-9 deaths: 7 in 1925, 8 in 1954, 6 in 1984, and 9 in 1985.)
- 17 -- **Winter Weather/Cold/Hypothermia**. (Plus 5 years 5-10 deaths.)
- 10 -- **Hurricanes/Tropical Storms**. (Plus one with 5 fatalities in "Other.")
- 8 -- **Violence**.
- 5 -- **Aviation**. (Plus 6: 9 deaths in 1963 and in 1988, 8 in 1978, 6 in 1972 and 1977, 5 in 1974)
- 4 -- **Fire, Structural**. (Plus two -- 6 deaths in 1959 and 7 in 1969.)
- 3 -- **Flooding**.
- 2 -- **Rail**. (Plus 1 with 9 deaths in "Other.")
- 2 -- **Structural Failure (Dam/Levee)**
- 1 -- **Explosion**. (Plus one event >10 deaths: 5 in 2002.)
- 1 -- **Poisoning (non-intentional)**
- 1 -- **Wind and high-wind thunder storms**. (Cross listed in Tornado)

<sup>474</sup> Distinct from 47,601 pneumonia deaths in 2020 (ICD codes J12-J18).

## MO

## Missouri

1. 1797 -- **yellow fever** outbreak, New Design, MO -- 57
2. 1780 -- May 26, violence, **massacre** of settlers near St. Louis, MO -- ~20
3. 1801-02 -- **smallpox** pandemic, Native Amer., Central, Midwest, esp. Upper, Northwest<sup>475</sup>--?
4. 1811 -- Dec 16-Feb 7, 1812, **New Madrid Earthquakes**, MO -- >139
5. 1830 -- Apr 18, stmr. **Caledonia** boiler explosion,, MS Riv. ~9m below New Madrid, MO --10-11
6. 1831 -- May 14, steamboat **Coosa** sinks, collision with *Huntress*, Caruthersville, MO -- 13
7. 1832 -- Oct 9-Nov, **cholera** epidemic, St. Louis, MO -- ~200
8. 1833 -- **cholera**, especially Palmyra (130), and St. Charles (60), and elsewhere, MO -- ≥206
9. 1834 -- Aug, **cholera**, Jackson County, MO -- 17
10. 1835 -- June, **cholera**, Palmyra (17), also Natchez and St. Louis -- 19
11. 1837 -- July 28, sidewheel **Chariton** boiler explosion, St. Louis, MO -- 12
12. 1840 -- Apr 25, **Bedford** snags, mouth of MO Riv. ~Mobile Is. or Cora Is. Chute MO -- 15
13. 1841 -- Aug 29, steamboat **Keokuk** snags, Miss. River, St. Genevieve Island, MO --11-13
14. 1842 -- July 03, steamboat **Edna** flues collapse, near Mouth of Missouri River, MO -- 55
15. 1845 -- Jul 23, steamboat **Big Hatchie** boiler explosion, Missouri River, Hermann, MO-- >35
16. 1844 -- Jan 03, steamer **Shepherdess** snags/sinks, MS Riv., 3M No. St. Louis MO --57-100
17. 1847 -- Nov 19, steamers collide, **Talisman** sinks, Miss. River, Cape Girardeau, MO -- ≥51
18. 1849 -- **cholera** epidemic, especially St. Louis (~4,500), MO --4,579
19. 1849 -- May 17, **fire**, **27 boats**, much of wharf and business district, St. Louis, MO -- 3-20
20. 1849 -- summer-fall, **heat and sunstroke**; subset of 248 such deaths 31 States -- 11
21. 1850 -- Jan-Dec, **cholera** epidemic, St. Louis, MO --883-953
22. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 12,292 MO deaths-- 431
23. 1850 -- **measles**; subset 2,988 US measles deaths (average was 83 per State/Terr.), MO-- 189
24. 1850 -- **scurvy**, MO subset of 54 scurvy deaths in Census survey of 31 states/4 terr./DC-- 18
25. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)--152
26. 1850 -- May 23, steamboat **St. Louis** flue collapse, MS River, Jefferson Barracks, MO --10-16
27. 1851 -- **cholera**, esp. St. Louis; also Independence, Jefferson City/Barracks/Weston, etc.--955
28. 1851 -- Feb 20, sidewheel ferry **St. Louis** boiler explosion, St. Louis, MO -- 20
29. 1852 -- **cholera**, esp. St. Louis/802, Jackson/70, Westport/48, Independence/40, MO -- 980
30. 1852 -- Apr 03, steamboat **Glencoe** boiler explosion and fire, St. Louis, MO --40-62
31. 1852 -- Apr 09, steamboat **Saluda** boiler explosion, Missouri River, Lexington, MO --54-100
32. 1852 -- Aug 22, **Doctor Franklin No. 2**, flue collapse, near Ste. Genevieve, MO -- 32
33. 1854 -- **cholera**, Herman, Independence, and especially St. Louis (1,574), MO --1,774-1,784
34. 1854 -- Feb 16, steamboat **Kate Kearney** boiler explosion, St. Louis, MO --≥9-15
35. 1854 -- May 10, steamer **Pike** snags/sinks, MS Riv., Big Eddy, Wilkinson's Lndg., MO-- 10
36. 1854 -- July 04-10, **heat**, excessive heat and sunstrokes, St. Louis, MO -- 22
37. 1854 -- Aug 07-8, **voting riots**, Nativist "Know Nothings" vs. Irish, St. Louis, MO -- 10
38. 1854 -- Aug 26, steamboat **Timour** boilers explode, MO Riv. 3m~Jefferson City, MO --15-20
39. 1855 -- Apr-Jul, **cholera**, esp. Georgetown, Jefferson Barracks, St. Louis, Westport, MO-- 121
40. 1855 -- Nov 01, **bridge failure** under **excursion train**, Gasconade, MO --20-31
41. 1857 -- Oct 15, steamer **Tropic** snagged, Missouri River, near Waverly, MO --10-15
42. 1857 -- Nov 18, steamboat **Cataract** mud drum explosion, Missouri Riv., Lisbon, MO --12-15

<sup>475</sup> We do not have a number. We have sources stating the Missouri and the Osage who lived in or moved about Missouri were effected. One account notes "seriously depleted." We estimate more than 9,090 Natives died.

**Missouri (continued):**

43. 1858 -- Feb 04, **Colonel Crossman** boiler explosion, fire, Miss. River ~New Madrid MO-- 14
44. 1858 -- Feb 20, **fire**, Pacific Hotel, St. Louis, MO --21-30
45. 1858 -- Apr 02, steamer **Sultan** fire, Mississippi River, near St. Genevieve, MO -- 23
46. 1858 -- Apr 22, steamer **Ocean Spray** fire (racing), Miss. River, near St. Louis, MO -- 23
47. 1860 -- **croup** (contagious upper airway viral infection), subset 15,188 US croup deaths --1,101
48. 1860 -- **measles**; MO subset (3<sup>rd</sup> highest state) of 3,900 US measles deaths -- 247
49. 1860 -- **scarlet fever** (MO subset of 26,402 deaths in 38 Census States & DC -- 896
50. 1860 -- **tuberculosis** ("consumption") (MO subset of 49,082 death nationwide)<sup>476</sup> --1,302
51. 1860 -- **whooping cough** (MO subset of 8,408 whooping cough deaths nationwide) -- 351
52. 1861 -- May 10, Camp Jackson Affair, **Union German unit kills Civilians**, St Louis --  $\geq$ 28
53. 1862 -- Oct 18, Unionist disappears, **Union Col. executes Reb. prisoners**, Palmyra, MO-- 10
54. 1863 -- Nov 13, steamer **Sunnyside** burns, MS river ~Isl. #16, below Caruthersville, MO--22-25
55. 1864 -- Feb 17, steamboat **Orient** snags/sinks to upper deck Miss. Riv., Commerce, MO-- 14
56. 1864 -- July 21, **B.M. Runyan** snags/sinks, MS Riv., Isl. 84, Gaines Landing. MS<sup>477</sup> -- >25
57. 1864 -- Sep 27, train robbery/**massacre**, Bill Anderson/Jesse James, Centralia, MO --22-27
58. 1864 -- Dec 11, steamboat **Maria** boiler explosion, fire, Miss. River, Carondelet, MO -- ~25
59. 1865 -- Jun 9~, SS **Kentucky** snags/sinks, Red River, Tow Head Isl. ~Shreveport LA<sup>478</sup>--  $\leq$ 30
60. 1866 -- July-Nov, **cholera** epidemic, St. Louis, also some deaths in Kansas City, MO --3,541
61. 1867 -- June-Dec, **cholera** outbreak, St. Louis, MO -- 684
62. 1868 -- July 12-18, **excessive natural heat**, St. Louis, MO --  $\geq$ 45
63. 1869 -- Oct 27, steamer **Stonewall** burns/grounds, Miss. River, Tea Table Bar, MO -- ~209
64. 1870 -- **diarrhoea** (1,300), **dysentery** (503), **enteritis** (467); data from U.S. Census --2,270
65. 1870 -- **diphtheria**; MO subset, 6,303 US diphtheria deaths; data from US Census<sup>479</sup> -- 356
66. 1870 -- **measles**, MO subset, 9,237 US measles deaths; data from U.S. Census<sup>480</sup> -- 860
67. 1870 -- **scarlet fever**, especially children (MO subset of 20,339 deaths nationwide)<sup>481</sup> --1,049
68. 1870 -- **smallpox**, MO subset, 4,597 US smallpox deaths; data from U.S. Census<sup>482</sup> --1,034
69. 1870 -- **tuberculosis** (Consumption) (MO subset of ~70,000 TB deaths nationwide) --2,717
70. 1870 -- **typhus** (MO subset of 1,770 typhus deaths nationwide) -- 60
71. 1870 -- **typhoid fever** (MO subset of 22,187 typhoid fever deaths nationwide)<sup>483</sup> --1,395
72. 1870 -- **whooping cough** (MO subset of 9,008 whooping cough deaths nationwide) -- 384
73. 1870 -- May 12, **train collision**, Missouri Pacific RR, near Eureka, MO -- 25
74. 1871 -- July 25, **trains collide**, Toledo and Wabash Railroad, 16M ~St. Louis, MO -- 8-10
75. 1872 -- May-Dec, **smallpox**, St. Louis, MO --1,600
76. 1873 -- May-Sep, **cholera**, esp. July-Sep, esp. St. Louis/529 and 12 counties --733-850
77. 1875 -- May 02, steamer **St. Luke** hits bridge pier/sinks, Missouri Riv., St. Charles, MO--9-10
78. 1877 -- Apr 11, **fire**, Southern Hotel, St. Louis, MO --16-21

<sup>476</sup> Was 2<sup>nd</sup> leading cause of death in the State (behind pneumonia) and leading cause of death in the U.S. in 1860.

<sup>477</sup> This is cross-listed in MO in that the *Runyan* was carrying 430-440 members of the 10<sup>th</sup> Missouri Cavalry back home. Of the 50 to 150 lives lost, it is reported that about half were from this cavalry unit.

<sup>478</sup> Listed herein because most of the fatalities were paroled MO Confederate soldiers returning home.

<sup>479</sup> In terms of loss of life to diphtheria by State in 1870, MO was 5<sup>th</sup> behind NY/864, PA/702, IL/603, and OH/474.

<sup>480</sup> In terms of loss of life to measles by State in 1870, MO was 2<sup>nd</sup> behind NY with 1,073 deaths.

<sup>481</sup> In terms of loss of life to scarlet fever by State in 1870, MO was 4<sup>th</sup> behind PA/5,645, NY/3,403, and IL/2,102.

<sup>482</sup> MO led the nation in smallpox deaths in 1870, followed by Louisiana with 925 and New York with 582.

<sup>483</sup> In terms of loss of life to typhoid fever by State in 1870, MO was 4<sup>th</sup> behind NY/2,029, PA/1,898, and IL/1,758.



**Missouri (continued):**

79.	1878 --	<b>yellow fever</b> , especially New Design (57) and St. Louis 46), MO	-- 103
80.	1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children; 17,966 US croup deaths	-- 917
81.	1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	-- 639
82.	1879 --	June-May 1880, <b>malarial fever</b> , (MO subset, 20,231 US "MF" deaths	--1,563
83.	1879 --	June-May 1880, <b>measles</b> , esp. children (MO subset, 8,254 U.S. measles deaths)--	666
84.	1879 --	Jun-May 1880, <b>meningitis</b> ; MO subset, 5 <sup>th</sup> highest; 7,481 US meningitis deaths--	282
85.	1879 --	June-May 1880, <b>tuberculosis</b> (MO subset of 91,270 TB deaths nationwide)	--2,718
86.	1879 --	June-May 1880, <b>typhoid fever</b> (MO subset of 23,339 U.S. Typhoid deaths)	--1,214
87.	1879 --	June-May 1880, <b>whooping cough</b> (MO subset, 11,064 U.S. wh. cough deaths)--	416
88.	1880 --	Apr 18, <b>tornado</b> outbreak, particularly Marshfield (92), MO <sup>484</sup>	-- 152
89.	1881 --	<b>diphtheria</b> , especially St. Louis (157)	-- 165
90.	1882 --	<b>smallpox</b> , especially Seneca (~50) and St. Louis (81, Jan-May 13	-- ~134
91.	1882 --	Apr 19, <b>tornado</b> , F3, Petits and Saline Counties, MO	-- 11
92.	1883 --	mid-March through Nov 17, <b>smallpox</b> , St. Louis	-- 42
93.	1886 --	May 11, <b>wind storm</b> , Kansas City, MO	-- 32
94.	1886 --	Oct 05, <b>La Mascotte</b> flue collapse/fire/stack fall, MS Riv., Crawford Lndg., MO--	≥35
95.	1887 --	<b>diphtheria</b> , St. Louis, MO	--1,112
96.	1887 --	Nov 01, <b>explosion/fire</b> , Newman's Grocery Store/Tenement, St. Louis, MO	-- 8-10
97.	1888 --	Mar 29, coal <b>mine</b> explosion, Keith & Perry No. 6, Rich Hill, MO	-- 24
98.	1889-90,	June-May, 1890, <b>croup</b>	-- 669
99.	1889-90,	June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; MO	-- 708
100.	1889-90,	June-May, <b>measles</b> , subset of 9,256 US measles deaths	-- 513
101.	1889-90,	June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--1,072
102.	1892 --	Jan 19, <b>train</b> hits Clover fishing club <b>sleighing</b> party, St Louis, MO	-- ~10
103.	1893 --	Apr 11, <b>tornado</b> , Dent and Crawford Counties, MO	-- 12
104.	1894 --	<b>diphtheria</b> , St. Louis (379); MO subset of ≥14,606 US diphtheria deaths	-- 481
105.	1895 --	Mar 28-June 15, <b>smallpox</b> outbreak, St. Louis, MO	-- 18
106.	1895 --	July 06, storms, <b>flooding</b> , especially Winona and Thomasville, MO	-- 23
107.	1896 --	<b>measles</b> , esp. St. Louis/17, also St. Joseph/6, Boonville, Clinton, Kansas City--	29
108.	1896 --	May 27, <b>tornadoes</b> , especially St. Louis, MO	-- 137
109.	1896 --	July 30-Aug 12, <b>heat</b> , esp. heat prostration/sunstrokes, esp. St. Louis (79)	-- 81
110.	1897 --	July 1-11, <b>heat</b> (608-616 US Heat deaths), MO subset, esp. St. Louis (42)	-- 52
111.	1897 --	<b>typhoid fever</b> , subset of >9,192 US typhoid deaths, St. Louis (125)	-- 157
112.	1898 --	<b>typhoid fever</b> ; subset of >4,627 deaths, esp. St. Louis & MO Vols., US camps <sup>485</sup>	-- 214
113.	1898 --	July 08, cloudburst, <b>flash flood</b> , Steelville and vicinity, MO	-- 19
114.	1899 --	Jan 31-Feb 13, <b>arctic cold, snow, blizzard-like conditions</b> ; exposure deaths--	11
115.	1899 --	Apr 27, <b>tornado</b> , Kirksville and Newtown, MO	-- 63
116.	1900 --	<b>croup</b> (upper airway contagious viral infection; MO subset, 12,484 US croup deaths)--	630
117.	1900 --	<b>diphtheria</b> (MO subset of 16,475 US diphtheria deaths in 1900)	-- 404
118.	1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 390
119.	1900 --	<b>influenza</b> (MO subset, 16,645 US influenza deaths)	-- 355
120.	1900 --	<b>malarial fever</b> (MO subset of 14,874 US malarial fever deaths)	-- 965

<sup>484</sup> Additionally, there were ten deaths in AR, one each in IL, KS and OK.

<sup>485</sup> Twelve civilian and 93 military. Fourteen military deaths were in MO.

**Missouri (continued):**

121.	1900 --	<b>measles</b> (MO subset of 12,866 US measles deaths)	-- 494
122.	1900 --	<b>meningitis</b> (MO subset, 19,423 US meningitis deaths)	-- 827
123.	1900 --	<b>scarlet fever</b> (MO subset, 6,333 US scarlet fever deaths)	-- 134
124.	1900 --	<b>tuberculosis</b> (38,084 MO deaths all causes) (109,750 US TB deaths)	--4,107
125.	1900 --	<b>typhoid fever</b> ; subset (4 <sup>th</sup> state high), 35,379 U.S. typhoid fever deaths	--1,790
126.	1900 --	<b>whooping cough</b> (MO subset, 9,958 US whooping cough deaths)	-- 380
127.	1900 --	Aug 01-18, <b>excessive natural heat</b> , St. Louis, MO	-- 91
128.	1901 --	Jan 01-12, Grip ( <b>influenza</b> ) epidemic, St. Louis, MO	-- 54
129.	1901 --	June-July (esp.), <b>heat waves</b> , esp. St. Louis (subset, 4,012 US heat deaths)	-- 240
130.	1901 --	July 10, <b>trains collide</b> head-on, Chicago & Alton Road, ~Norton, MO	--21-23
131.	1901 --	Oct 19-Nov 7, <b>Tetanus tainted (horse blood) diphtheria antitoxin</b> , St Louis--	13
132.	1902 --	Feb 09, <b>fire</b> , Empire Hotel lodging house, Olive Street, St. Louis, MO	-- 11
133.	1903 --	May 16-June 1, <b>flooding</b> , lower MO and upper MS, esp. Kansas City, MO	-- 200
134.	1904 --	Oct 09, freight and passenger <b>trains collide</b> , near Warrensburg, MO	--27-29
135.	1905 --	<b>tuberculosis</b> , subset, 56,770 Census area deaths (10 states/135 cities) <sup>486</sup>	--2,023
136.	1905 --	Oct 30, Atchison, Topeka & Santa Fe <b>train derails</b> near Kansas City, MO	-- 13
137.	1907 --	<b>tuberculosis</b> ; 76,650 US deaths; 3 cities: KC/350, St. Joe./94, St. Louis/1,140	--1,574
138.	1909 --	Apr 29, <b>tornadoes</b> , Barry, Oregon, Stone and Texas Counties, MO	-- 19
139.	1909 --	Aug 9-17, <b>heat</b> , especially Kansas City, St. Joseph, and St. Louis, MO	-- 26
140.	1910 --	May 11, steamer <b>City of Saltillo</b> grounds on rock, sinks, Glen Park, MO	-- 12
141.	1911 --	<b>polio</b> ; subset of 1,060 "registration area" deaths (63.1% pop.), MO	-- 60
142.	1911 --	July-Dec, <b>tuberculosis</b> , MO	--2,250
143.	1911 --	July 02-08, <b>excessive natural heat</b> , especially St. Louis, MO	--28-29
144.	1912 --	Jan-Mar, <b>tuberculosis</b> , MO	--1,372
145.	1912 --	Feb 18-June 8, <b>meningitis</b> outbreak, especially Kansas City, MO	-- 186
146.	1913 --	<b>heat</b> ; 1,226 "registration area" (65% of US) deaths; subset for MO	-- 114
147.	1913 --	<b>measles</b> , 8,108 US "registration area" (65.1%) deaths; MO	-- 440
148.	1913 --	<b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, MO--	48
149.	1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; MO 10 city rate 11.0--	413
150.	1914 --	<b>polio</b> , late summer-fall, especially children (subset of 720 US polio deaths)	-- 38
151.	1914 --	Mar 08, <b>fire</b> , wall fall (17 <sup>th</sup> ) Missouri Athletic Club (lodging), St. Louis, MO <sup>487</sup> -	37
152.	1914 --	Aug 05, <b>trains collide</b> , Tipton Ford, MO	-- 43
153.	1914 --	Sep 15, <b>train derailment</b> , Lebanon, MO	-- 28
154.	1915 --	<b>polio</b> ; 691 registration area deaths (67.1% population); subset for MO	-- 40
155.	1915 --	Aug 20, <b>flooding</b> , St. Louis and vicinity, MO	-- 10
156.	1916 --	Apr 19, <b>tornadoes</b> , Bourbon Ct., KS; Six Counties in MO	-- 11
157.	1916 --	June 05, <b>tornadoes</b> (2), Stoddard, New Madrid and Scott Counties, MO	--14-30
158.	1916 --	sum-fall, <b>polio</b> , esp. children, esp. St. Louis (~6,700->7,000 US polio deaths)--	20
159.	1916 --	July 27-Aug 6, <b>excessive natural heat</b> , especially, St. Louis, MO	-- 46
160.	1916 --	Oct 05, <b>fire</b> , Christian Brothers College, St. Louis, MO	-- 10
161.	1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; MO, 23.8	-- 815

<sup>486</sup> Data only on Kansas City/361 and death rate of 201.4 per 100K, St. Joseph/255 (221.0 death rate), St. Louis/1,407 TB deaths and TB death rate of 221.0K per 100,000 population. Census average was 168.2 death rate.

<sup>487</sup> Thirty fatalities from the March 8<sup>th</sup> fire and 7 fatalities from the March 17<sup>th</sup> Missouri Athletic Club wall fall.

**Missouri (continued):**

162.	1917 --	<b>polio</b> , esp. June-Sep, especially children; MO subset, $\geq 1,182$ US polio deaths--	48
163.	1917 --	May 30, <b>tornadoes</b> (8), MO	-- 64
164.	1917 --	June 05, <b>tornadoes</b> , Cooper/Boone/Audrain/Wright/Ray/Carroll Counties MO--	34
165.	1918 --	Aug 06, <b>heat wave</b> ; 294 US deaths, St. Louis (10)	-- 10
166.	1918 --	1919, <b>influenza and pneumonia</b> epidemic, MO	22,177-22,721
		1918 -- Jan-Dec, <b>influenza and pneumonia</b> epidemic, MO --	15,173-15,727
		1919 -- Jan-Dec, <b>influenza and pneumonia</b> epidemic, MO --	7,004
167.	1918 --	Sep 17, <b>trains collide</b> , near Marshfield, MO	-- 15
168.	1919 --	Sep 13, Murray Elevator <b>grain dust explosion</b> , North Kansas City, MO	-- 14
169.	1920 --	<b>diphtheria &amp; croup</b> ; 13,395 Census states (34) deaths, MO 5 <sup>th</sup> state high	-- 645
170.	1920 --	<b>influenza and pneumonia</b> , MO	--4,021
171.	1920 --	<b>malaria</b> (MO subset of 3,136 malaria deaths in 34 registration states)	-- 137
172.	1920 --	<b>measles</b> (MO subset of 7,712 measles deaths in 34 registration states)	-- 286
173.	1920 --	<b>scarlet fever</b> , MO subset, 4,004 scarlet fever deaths, 34 registration states	-- 156
174.	1920 --	<b>smallpox</b> (MO subset of 508 smallpox deaths in 34 registration states)	-- 28
175.	1920 --	<b>typhoid fever</b> , MO subset, 6,805 typhoid fever deaths, 34 registration states--	341
176.	1921 --	<b>polio</b> (acute) esp. late Summer-Fall (MO subset of 1,597 U.S. polio deaths)	-- 58
177.	1922 --	Aug 05, <b>trains collide</b> , Missouri Pacific Railroad, Sulphur Springs, MO	-- 34
178.	1925 --	exposure to excessive <b>natural cold</b> ; 239 US excessive cold deaths, MO	-- 10
179.	1925 --	<b>diphtheria</b> (MO subset, 9 <sup>th</sup> highest, 8,058 US diphtheria deaths)	-- 242
180.	1925 --	<b>dysentery</b> (MO subset, 8 <sup>th</sup> highest of 3,257 US dysentery deaths)	-- 171
181.	1925 --	<b>excessive heat</b> (MO subset, tied at 6 <sup>th</sup> highest, 1,587 US excessive heat deaths)--	52
182.	1925 --	<b>influenza</b> (MO subset, 5 <sup>th</sup> highest, 30,538 US influenza deaths)	--1,464
183.	1925 --	<b>malaria</b> (MO subset of 2,132 malaria deaths in 1925)	-- 189
184.	1925 --	<b>meningococcus meningitis</b> , MO subset, 10 <sup>th</sup> highest, 1,095 US meningitis deaths-	39
185.	1925 --	<b>polio</b> (MO subset, 7 <sup>th</sup> highest polio loss in a state; 1,518 US polio deaths)	-- 55
186.	1925 --	<b>scarlet fever</b> (MO subset, 6 <sup>th</sup> highest, 2762 US scarlet fever deaths, 48 states)--	169
187.	1925 --	<b>tuberculosis</b> (MO subset, 8 <sup>th</sup> highest, 89,268 US tuberculosis deaths)	--3,039
188.	1925 --	<b>typhoid/paratyphoid fever</b> (MO subset, 8,287 US Typhoid Fever deaths)	-- 391
189.	1925 --	<b>whooping cough</b> (MO subset, 6,948 US whooping cough deaths)	-- 201
190.	1925 --	Mar 18, <b>Tri-State Tornado</b> , esp. Annapolis, Ellington / Altenburg areas	--11-13
191.	1927 --	<b>polio</b> , esp. late Sum.-Fall (MO subset, 7 <sup>th</sup> highest, 2,013 US polio deaths)	-- 81
192.	1927 --	May 08, <b>tornadoes</b> , MO	-- 12
193.	1927 --	May 09, <b>tornadoes</b> , especially Poplar Bluff ( $\geq 83$ ) & Poplar Bluff area, MO	-- $\geq 93$
194.	1927 --	Sep 29, <b>tornado</b> , St. Louis City and County, MO <sup>488</sup>	-- 78
195.	1928 --	Apr 13, <b>explosion/bldg. collapse/fire</b> , Bond Dance Hall, West Plains, MO	--37-40
196.	1930 --	May 08, <b>gas explosion</b> , Armour Meat Processing Plant, St. Joseph, MO	-- 19
197.	1931 --	<b>epidemic cerebrospinal meningitis</b> , subset, 2,832 US meningitis deaths	-- 109
198.	1931 --	<b>diphtheria</b> , especially children, MO subset, 5,738 US diphtheria deaths	-- 251
199.	1931 --	<b>influenza</b> (MO subset of 31,701 influenza deaths nationwide)	--1,391
200.	1931 --	<b>malaria</b> (MO subset, 2,536 malaria deaths nationwide)	-- 149
201.	1931 --	<b>measles</b> , esp. children (MO subset, 3 <sup>rd</sup> highest, 3,576 US measles deaths)	-- 272
202.	1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--2,657

<sup>488</sup> In addition 7 people died in Madison County, IL. (Grazulis 1993, 496.) One more in Arkansas.

**Missouri (continued):**

203. 1931 -- summer, esp. June 18-July 2, **high heat**, esp. St. Louis metropolitan area, MO--201
204. 1933 -- July 30-Sep, **St Louis Encephalitis** epidemic, St. Louis City & County, MO-- 201
205. 1934 -- summer, **excessive heat**; subset of 3,250 US heat deaths; esp. St. Louis -- 845
206. 1936 -- July-Aug (esp.), **heat** (4,678-5,000 US heat deaths), especially St. Louis -- 644
207. 1937 -- Jan 22-31 (generally), **flooding**, OH and MS River Valley areas --47-51
208. 1937 -- Jan 30, WPA worker **barge** sinks, Birds Pt./New Madrid Spillway, MO<sup>489</sup> --26-30
209. 1938 -- Mar 15, **tornado**, Greene Co., AR; Dunklin, Pemiscot Counties, MO -- 10
210. 1939 -- **diphtheria**, esp. Jan-Mar, Sep-Dec; MO subset, 1,997 US diphtheria deaths -- 71
211. 1939 -- **influenza & pneumonia**; 99,097 U.S. flu & pneumonia deaths, MO --3,521
212. 1939 -- **malaria** (MO subset of 1,761 malaria deaths nationwide) -- 66
213. 1939 -- **tuberculosis** (MO subset of 61,609 tuberculosis deaths nationwide) --1,668
214. 1939 -- **whooping cough** (MO subset of 3,026 whooping cough deaths nationwide) -- 63
215. 1939 -- summer, **excessive heat** (subset of 527-1,073 heat deaths nationwide) -- 37
216. 1940 -- **influenza & pneumonia**; subset, 92,525 US flu & pneumonia deaths; MO --3,635
217. 1940 -- **malaria** (MO subset of 1,442 U.S. malaria deaths) -- 41
218. 1940 -- **polio** (MO subset of 1,026 polio deaths nationwide) -- 39
219. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); MO death rate 18.2-- 688
220. 1940 -- **tuberculosis** (MO subset of 55,576 tuberculosis deaths nationwide) --1,647
221. 1940 -- **whooping cough**; 2926 US WC deaths/death rate 2.2 per 100K, MO, 2.3 -- 88
222. 1941 -- **measles**, especially children; MO subset of 2,279 US measles deaths -- 114
223. 1943 -- Aug 01, US Army Air Force CG-4 Glider demo **flight crash**, St. Louis, MO-- 10
224. 1943 -- Sep 05, **plane crash**, USAAF C-53D Skytrooper, near Sedalia, MO -- 11
225. 1944 -- **cerebrospinal meningitis**; subset, 2,812 US cerebrospinal meningitis deaths-- 82
226. 1944 -- **influenza**; MO subset, 17,320 US influenza deaths, esp. Jan-Apr, Dec -- 662
227. 1944 -- **measles**, especially Jan-June (MO subset, 1,923 US measles deaths) -- 65
228. 1944 -- **tuberculosis** (MO subset of 54,731 tuberculosis deaths nationwide) --1,487
229. 1944 -- **whooping cough**; subset of 1,878 US whooping cough deaths, MO -- 56
230. 1945 -- Sep 15, **USAAF C-47B takeoff crash** (from Fairfax Field, Kansas City, KS), MO-- 23
231. 1946 -- **polio**, especially July-Nov (MO subset of 1,845 polio deaths nationwide) -- 97
232. 1946 -- Jan 27, **fire**, Winona Apartments and rooming house, Kansas City, MO --10-11
233. 1947 -- Apr 02, **explosion** and **fire** Lawrence Brown Fireworks Plant, Clinton, MO-- 12
234. 1947 -- Aug 2-13, **Heat**, especially St. Louis (65), [540 US heat deaths for year] MO-- 66
235. 1948 -- **polio**, July-Nov especially; subset of 1,895 US polio deaths) -- 31
236. 1948 -- Jan 1, **speeding Missouri Pacific train** rams 2<sup>nd</sup> train in snowstorm ~Otterville, MO-14
237. 1949 -- **polio**, especially July-Nov (MO subset of ~2,725 U.S. polio deaths) --129-133
238. 1949 -- May 21, **tornadoes**, Bowling Green area/1, Clarksville/1, Cape Girardeau/23-- 25
239. 1950 -- **measles**, especially children (MO subset of 468 measles deaths nationwide) -- 13
240. 1951 -- **diphtheria**; 302 US deaths; 13 States in double digits; subset for MO -- 10
241. 1951 -- **measles**, 688 US deaths; subset for MO (6<sup>th</sup> highest US state loss) -- 30
242. 1951 -- **polio**, especially July-Nov (MO subset of 1,551-1,555 US polio deaths) -- 50
243. 1951 -- **tuberculosis** (respiratory), 31,163 US deaths, subset for MO -- 848
244. 1952 -- **dysentery**, infections (all forms); 949 US deaths; MO (7<sup>th</sup> highest US loss) -- 31
245. 1952 -- **influenza**; 5,649 US deaths; subset for MO (7<sup>th</sup> highest US state loss of life)-- 226

<sup>489</sup> The death-toll noted here is also included in the Jan 5-Feb 15 Ohio River Valley flooding noted above.



**Missouri (continued):**

246.	1952 --	<b>polio</b> , subset of ~3,300 US polio deaths; especially Jackson County, MO	--	80
247.	1952 --	<b>scarlet fever and streptococcal sore throat</b> ; 352 US deaths; MO (US high)--		28
248.	1952 --	<b>whooping cough</b> (pertussis); 406 US deaths; MO (6 <sup>th</sup> highest US state loss)--		18
249.	1952 --	Mar 21, <b>tornadoes</b> , Pemiscot County, MO	--	17
250.	1952 --	Oct 31, <b>fire</b> , Cedar Grove Nursing Home, Hillsboro, MO	--	18-20
251.	1953 --	<b>heat</b> (excessive natural), 576 US heat deaths, esp. Aug 22-Sep 5, esp. St. Louis--		71
252.	1953 --	<b>influenza</b> ; 9,500 US deaths; MO subset (3 <sup>rd</sup> highest in the US)	--	484
253.	1953 --	<b>measles</b> , 483 US deaths, 23 states in double digits; MO 2 <sup>nd</sup> highest state loss--		27
254.	1953 --	<b>scarlet fever</b> & streptococcal sore throat; 296 US deaths; MO subset (2 <sup>nd</sup> in US)--		21
255.	1954 --	<b>heat</b> (especially July), state subset of 978-984 heat-related deaths	--	235
256.	1954 --	<b>dysentery</b> , infectious, all forms (codes 045-048), 655 US deaths; MO subset--		15
257.	1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180; MO (7 <sup>th</sup> highest US state)--		104
258.	1954 --	<b>polio</b> , acute; 1,400 US deaths; subset for MO	--	26
259.	1954 --	<b>scarlet fever</b> /streptococcal sore throat; 263 US deaths; MO 6 <sup>th</sup> highest US loss--		13
260.	1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; MO had 7 <sup>th</sup> highest state loss --		484
261.	1954 --	<b>whooping cough</b> /pertussis; 375 US deaths, 17 states double digits, MO subset--		14
262.	1955 --	<b>influenza</b> ; 2,755 US deaths; MO ties with IN for 10 <sup>th</sup> highest state loss of life--		91
263.	1955 --	Mar 20, <b>plane crash</b> on approach, American Airlines #711, Springfield, MO--		13
264.	1955 --	Aug 04, <b>American Air Flight 476 engine fire/crash</b> , Fort Leonard Wood, MO--		30
265.	1956 --	<b>influenza</b> , 2,323 US deaths; MO had 10 <sup>th</sup> highest US state death toll	--	86
266.	1956 --	<b>measles</b> , 530 US deaths/21 states in double digits; MO subset	--	12
267.	1956 --	<b>polio</b> /acute, 566 US deaths/15 states in double-digits; MO subset	--	18
268.	1956 --	July 30, <b>fire</b> , Reagan Nursing Home (one survivor), Puxico, MO	--	12
269.	1957 --	<b>influenza</b> ; 7,463 US deaths; MO subset (9 <sup>th</sup> highest US state loss of life)	--	257
270.	1957 --	<b>scarlet fever</b> /streptococcal sore throat; 213 US deaths/5 states double digits, MO-14		
271.	1957 --	Feb 17, <b>fire</b> , Katie Jane Nursing Home, Warrington, MO	--	72
272.	1957 --	Apr 05-June 14, heavy rainstorms and <b>flooding</b> , 7 in Beaufort area June 14	--	10
273.	1957 --	May 20, tornado, KS/6 & KC MO suburbs, esp. Hickman Mills-Ruskin Heights--		33-37
274.	1957 --	May 21, <b>tornadoes</b> , especially Desloge/7, Fremont/6, Van Buren/1, MO	--	14-15
275.	1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--	1,813
276.	1958 --	<b>influenza</b> ; 4,442 US deaths; MO subset (8 <sup>th</sup> highest in the US)	--	179
277.	1958 --	<b>measles</b> ; 552 US deaths; 23 States in double digits, including MO	--	10
278.	1958 --	<b>polio</b> (acute); 255 US deaths; 11 states in double digit deaths; MO	--	12
279.	1959 --	<b>measles</b> , especially children; 385 US deaths; MO subset	--	19
280.	1959 --	<b>polio</b> (acute, as opposed to late effects of); 454 US deaths; MO subset	--	34
281.	1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; MO subset	--	310
282.	1959 --	Feb 10, <b>tornado</b> , St. Louis City and County, MO	--	21
283.	1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; MO death rate 6.6	--	283
284.	1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; MO death rate 7.4	--	319
285.	1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; MO death rate 2.0	--	88
286.	1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; MO death rate 0.3	--	18
287.	1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; MO death rate 6.6	--	287
288.	1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; MO death rate 4.0	--	172
289.	1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; MO rate 6.3	--	272

**Missouri (continued):**

290.	1962 --	May 22, <b>Continental Flight 11 plane blown-up</b> over Unionville, MO	--	45
291.	1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; MO death rate 6.2	--	268
292.	1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; MO rate 6.1	--	266
293.	1963 --	Jan 19-27, <b>cold waves and snow</b> (subset of 315-352 US deaths); MO	--	10
294.	1963 --	Feb 23, home <b>fire</b> (defective coal stove), Saville family, Morehouse, MO	--	10
295.	1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; MO death rate 1.5	--	65
296.	1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; MO death rate 4.7	--	208
297.	1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; MO death rate 2.6	--	115
298.	1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; 4.9 death rate/MO	--	219
299.	1966 --	<b>excessive natural heat</b> , esp. late June-mid-July, esp. St. Louis metro. area, MO	--	286
300.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; MO	--	24
301.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for MO	--	185
302.	1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; MO 6.6	--	304
303.	1968 --	Feb 16, <b>arson fire</b> , Randolph Tavern, 107 W. Reed Street, Moberly, MO	--	12
304.	1968 --	Nov 3-Mar 8, A2 Hong Kong <b>influenza</b> -pneumonia epidemic, esp. St. Louis <sup>490</sup>	--	283
305.	1969 --	<b>excessive natural heat</b> , ICD-8 code E900; 271 US deaths; MO	--	14
306.	1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5971 US deaths/death rate 2.96 per 100K; MO 4.6	--	216
307.	1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; MO death rate 2.88	--	134
308.	1969 --	June 03, <b>fire</b> , apartment house, Kansas City, MO	--	12
309.	1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; MO 2.2	--	102
310.	1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; MO 3.6	--	157
311.	1971 --	<b>measles/rubeola</b> ; ICD-8 code 055; 90 US deaths; MO (highest State death toll)	--	10
312.	1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; MO rate 2.33	--	110
313.	1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; MO 3.0	--	144
314.	1973 --	<b>influenza</b> ; ICD-8 codes 470-74; 5,131 US deaths/death rate 2.43; MO 2.68	--	128
315.	1973 --	July 23, <b>plane crash</b> , Ozark Air Lines, Hit by Downburst, St. Louis, MO	--	38
316.	1974 --	<b>exposure to excessive natural cold</b> ; ICD-8 code E901.; 348 US deaths; MO	--	14
317.	1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; MO/1.5	--	70
318.	1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; MO rate 2.01	--	96
319.	1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; MO/3.4	--	163
320.	1977 --	<b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; MO	--	23
321.	1977 --	<b>heat</b> (esp. summer), ICD-8 E900 excessive natural/US death rate 0.14; MO, 0.68	--	33
322.	1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; MO, 0.72	--	35
323.	1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; MO, 1.36	--	66
324.	1977 --	Sep 12/13, flash <b>flood</b> , "The Plaza Flood," esp. Brush Creek, Kansas City, MO	--	25
325.	1978 --	exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; MO	--	16
326.	1978 --	<b>heat</b> (esp. summer), ICD-8 E900 excessive natural, US death rate 0.12, MO 0.25	--	12
327.	1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; MO rate 3.96	--	193
328.	1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; MO rate 1.56	--	76
329.	1978 --	Jan 28, <b>fire</b> , Coates House Hotel (many low-income elderly), Kansas City, MO	--	20
330.	1979 --	exposure to excessive natural <b>cold/hypothermia</b> ; 356 US deaths; MO	--	13
331.	1979 --	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; MO rate 0.43	--	21
332.	1979 --	Apr 02, <b>fire</b> , Wayside Inn Boarding Home/care facility, Farmington, MO	--	25

<sup>490</sup> CDC MMWR reports included only MO cities of KC and St. Louis. Influenza epidemic death toll was 33,800.

**Missouri (continued):**

333.	1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, MO rate 1.58	--	78
334.	1980 --	summer, <b>heat</b> , esp. greater St. Louis (~153) and Kansas City (~176), MO--295-311		
335.	1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, MO rate 2.09	--	103
336.	1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; MO rate 0.87	--	43
337.	1981 --	June-Aug (especially), <b>heat</b> (ICD-9 E900 code for excessive natural heat)	--	12
338.	1981 --	July 17, <b>walkway collapse</b> , Hyatt Regency Hotel, Kansas City, MO	--	114
339.	1982 --	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, MO, 0.55	--	27
340.	1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, MO, 0.93	--	46
341.	1983 --	summer, <b>excessive heat</b> , esp. July 15-31, especially St. Louis area, MO	--69-70	
342.	1983 --	Dec 15-23, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	--	13
343.	1983 --	exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; MO	--	18
344.	1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, MO, 0.58	--	29
345.	1985 --	exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; MO	--	18
346.	1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, MO, 0.90	--	45
347.	1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: MO, 0.86	--	43
348.	1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; MO, 0.78	--	39
349.	1986 --	summer esp., <b>excessive heat</b> ; subset of >400 US heat-related deaths, MO	--	14
350.	1987 --	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; MO, 0.40	--	20
351.	1987 --	summer <b>excessive heat</b> , MO subset of approximately 388 U.S. heat deaths	--25-28	
352.	1988 --	<b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K; MO, 0.85	--	43
353.	1988 --	Aug 01-16, <b>heat</b> , St. Louis (subset of 911-919 U.S. heat-related deaths)	--42-44	
354.	1989 --	exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; MO	--	21
355.	1989 --	summer, <b>excessive natural heat</b> (exposure to excessive natural heat), MO	--	~18
356.	1990 --	exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; MO	--	15
357.	1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; MO, 1.54	--	79
358.	1990 --	summer, <b>heat</b> (exposure to excessive natural heat/hyperthermia), MO	--	~12
359.	1991 --	exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; MO	--	19
360.	1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; MO, 0.73	--	38
361.	1991 --	summer, <b>heat</b> (hyperthermia/exposure to excessive natural heat), MO	--	13
362.	1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; MO, 0.71	--	37
363.	1993 --	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; MO	--	14
364.	1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; MO, 0.57	--	30
365.	1993 --	July 01-early Nov, mid-west <b>floods</b> , MO	--	49
366.	1994 --	exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; MO	--	15
367.	1994 --	<b>influenza</b> , 1,229 US deaths; death rate 0.47 per 100K; MO, 1.11.2019	--	59
368.	1994 --	<b>meningococcal meningitis</b> , ICD-9 code 36.0; death rate 0.10 per 100K; MO, 0.19--	10	
369.	1994 --	summer esp., <b>excessive heat</b> , esp. St. Louis; subset of 221 US heat deaths, MO--	14	
370.	1995 --	exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; MO	--	15
371.	1995 --	<b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, MO rate 0.428	--	23
372.	1995 --	July 11-17 (esp.), Aug 9-24, <b>heat</b> , especially St. Louis metro area, MO	--	58
373.	1996 --	exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; MO	--	20
374.	1996 --	<b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; MO, 0.405	--	22
375.	1997 --	exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; MO	--	14
376.	1997 --	<b>influenza</b> , code 487.0; 720 US deaths/death rate 0.26 per 100K; MO rate 0.40	--	22

**Missouri (continued):**

377. 1998 -- exposure to excessive natural **cold/hypothermia**; 420 US deaths; MO -- 12
378. 1998 -- **infectious colitis**, enteritis, gastroenteritis, ICD-9 code 009.0, MO death rate 0.18 per 100K-10
379. 1998 -- **influenza**, ICD-9 code 487.0; US death rate 0.62 per 100K; MO rate 1.41 -- 78
380. 1998 -- summer, **excessive natural heat**, especially St. Louis County -- 11
381. 1998 -- Oct 04, flash **flooding**, Kansas City area/11 and south St. Joseph, MO (1) -- 12
382. 1999 -- **influenza**, ICD-10 codes J09-11.8; US death rate 0.597 per 100K; MO, 1.115 -- 62
383. 1999 -- summer (esp. mid-late July), **heat**, esp. greater St. Louis & Jackson Co., MO-- 92
384. 2000 -- exposure to excessive natural **cold/hypothermia**; 742 US deaths; MO -- 24
385. 2000 -- exposure to **excessive natural heat**, 494 US deaths, subset for MO -- 22
386. 2000 -- **influenza**, ICD-10 codes J09-11.8; US death rate 0.627 per 100K; 1.412 for MO-- 79
387. 2000 -- Jan 23, icy-road, multi-**vehicle** collision/fire, I-29 near Platte City, MO -- 10
388. 2001 -- exposure to excessive natural **cold/hypothermia**; 599 US deaths; MO -- 10
389. 2001 -- exposure to **excessive natural heat**; 538 US deaths; subset for MO -- 41
390. 2001 -- **influenza**, ICD-10 codes J09-11.8; US death rate 0.09 per 100K; MO, 0.18 -- 10
391. 2002 -- exposure to excessive natural **cold/hypothermia**; 646 US deaths; MO -- 14
392. 2002 -- **influenza**, ICD-10 codes J09-11.8; US death rate 0.253 per 100K; MO, 0.546 -- 31
393. 2002 -- exposure to **excessive natural heat**, 626 US deaths, subset for MO -- 28
394. 2003 -- exposure to excessive natural **cold/hypothermia**; 620 US deaths; MO -- 18
395. 2003 -- exposure to **excessive natural heat**; 426 US deaths; subset for MO -- 19
396. 2003 -- **influenza**, ICD-10 codes J09-11.8; US death rate 0.618 per 100K; MO, 1.611 -- 92
397. 2003 -- **tuberculosis**, ICD-10 code A16-19, death rate 0.25 per 100K; MO, 0.28 -- 16
398. 2003 -- May 4, **tornadoes**, esp. Billings, Decaturville, Jerico Springs, Pierce City, MO-- 19
399. 2004 -- exposure to excessive natural **cold/hypothermia**; 676 US deaths; MO -- 13
400. 2004 -- **influenza**, ICD-10 codes J09-11.8; US death rate 0.376 per 100K; MO, 0.713 -- 41
401. 2004 -- Oct 19, **plane crash**, Corporate Airlines (N875JX), Kirksville, MO -- 13
402. 2005 -- exposure to excessive natural **cold/hypothermia**; 700 US deaths; MO -- 22
403. 2005 -- exposure to **excessive natural heat**; 939 US deaths, subset for MO -- 25
404. 2005 -- **influenza**, ICD-10 codes J09-11.8; US death rate 0.613 per 100K; MO, 0.846 -- 49
405. 2006 -- exposure to excessive natural **cold/hypothermia**; 519 US deaths; MO -- 18
406. 2006 -- July-Aug 7, **heat**, esp. St. Louis City/Co., also 5 other counties (subset of 912)-- 25
407. 2006 -- **influenza**, ICD-10 codes J09-11.8; US death rate 0.285 per 100K; MO, 0.479 -- 28
408. 2006 -- Nov 27, **fire**, Anderson Guest House (elderly/mentally-impaired), Anderson -- 11
409. 2006 -- Nov 29–Dec 01, **winter storm**, especially St. Louis, MO -- 11
410. 2007 -- exposure to excessive natural **cold/hypothermia**; 711 US deaths; MO -- 18
411. 2007 -- exposure to **excessive natural heat**; 582 US deaths, subset for MO -- 39
412. 2008 -- exposure to excessive natural **cold/hypothermia**; 641 US deaths; MO -- 16
413. 2008 -- exposure to **excessive natural heat**; 502 US deaths, subset MO -- 10
414. 2008 -- **influenza**, ICD-10 codes J09-11.8; US death rate 0.57 per 100K; MO, 1.00 -- 59
415. 2008 -- May 10, **tornadoes**, Carthage, Fairview, Purdy, esp. Racine vicinities, MO -- 15
416. 2009 -- **diarrhoea/gastroenteritis**, infectious origin; US death rate 0.9 per 100K; MO 1.0-- 60
417. 2009 -- exposure to excessive natural **cold/hypothermia**; 616 US deaths; MO -- 17
418. 2009 -- exposure to **excessive natural heat**; 555 US deaths, subset for MO -- 15
419. 2009 -- **H1N1 "Swine Flu,"** especially fall/winter, (MO subset, over 12,000 U.S.) -- 8-17
420. 2010 -- **diarrhoea/gastroenteritis**, infectious origin, US death rate 0.9 per 100K; MO, 1.0-- 58



**Missouri (continued):**

421.	2010	-- exposure to excessive natural <b>cold/hypothermia</b> ; 710 US deaths; MO	--	15
422.	2010	-- June-Aug especially, <b>heat</b> , esp. greater St. Louis (MO subset of 874 deaths)	--	26
423.	2010	-- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; MO, 2.5--	151	
424.	2011	-- exposure to excessive natural <b>cold/hypothermia</b> ; 0.22 death rate; MO, 0.299--	18	
425.	2011	-- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K, MO, 1.0--	61	
426.	2011	-- May 22, <b>tornado</b> , Joplin, MO	--159-163	
427.	2011	-- exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for MO	--	52
428.	2012	-- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, MO, 0.9--	53	
429.	2012	-- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; 0.7 for MO	--	45
430.	2012	-- June-Aug esp., <b>heat</b> , especially elderly, especially greater St. Louis, MO	--	54
431.	2013	-- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; MO 1.0--	59	
432.	2013	-- exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; MO	--	18
433.	2013	-- exposure to <b>excessive natural heat</b> ; 651 US deaths, subset for MO	--	15
434.	2013	-- <b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100K; MO, 1.3	--	81
435.	2014	-- exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; MO	--	18
436.	2014	-- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.4 per 100,000; MO, 2.0	--	124
437.	2014	-- exposure to <b>excessive natural heat</b> ; 360 US deaths; subset for MO	--	18
438.	2015	-- exposure to excessive natural <b>cold/hypothermia</b> ; 815 US deaths; MO	--	21
439.	2015	-- exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for MO	--	15
440.	2015	-- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100,000; MO, 1.9	--	113
441.	2015	-- exposure to <b>excessive natural heat</b> , (subset of 339 US deaths)	--	10
442.	2015	-- Dec 26-27, <b>flooding</b> , esp. Pulaski county (7), six other counties	--	15
443.	2016	-- exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; MO	--	15
444.	2016	-- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.9 per 100,000; MO, 1.0	--	59
445.	2016	-- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for MO	--	25
446.	2017	-- exposure to excessive natural <b>cold/hypothermia</b> ; 804 US deaths; MO	--	15
447.	2017	-- exposure to <b>excessive natural heat</b> ; 817 US deaths, subset for MO	--	17
448.	2017	-- <b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; MO rate 3.22	--	197
449.	2018	-- exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; MO	--	40
450.	2018	-- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for MO	--	28
451.	2018	-- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., MO rate 6.32--	387	
452.	2018	-- July 19, <b>Duck Boat sinks</b> in storm, Table Rock Lake, near Branson, MO	--	17
453.	2019	-- exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths, MO	--	28
454.	2019	-- exposure to <b>excessive natural heat</b> ; 915 US deaths, subset for MO	--	14
455.	2019	-- <b>influenza</b> ; 5,902 US deaths/1.08 death rate per 100K; MO rate 1.79	--	110
456.	2020	-- exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; MO 0.34--	21	
457.	2020	-- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; MO death rate 2.42	--	149
458.	2020	-- <b>COVID-19</b> ; 354,215 US Covid deaths/1,070 per 1M; MO 979 per 1M pop.	--6,010	
459.	2020	-- exposure to <b>excessive natural heat</b> ; 1,174 US deaths, subset for MO	--	11
460.	2021	-- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; MO, 2.6K	--10,064	
461.	2021	-- exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; MO 0.55--	34	
462.	2021	-- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for MO	--	16
463.	2022	-- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; MO death rate 9.99	--6,134	
464.	2022	-- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for MO	--	32

465. 2023 – exposure to **excessive natural heat**; 2,155 US deaths; subset for MO -- 36

**Some Select/Notable Other Missouri Large Loss-of-Life Events:<sup>491</sup>**

1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	-- 238
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	-- 91
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	-- 57
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	-- 648
1860 --	<b>smallpox</b> ; MO subset of 1,263-1,271 smallpox deaths in reporting States	-- 19
1861 --	Sep 23, Free-state Unionist Jayhawker guerrillas <b>sack and burn</b> Osceola, MO	-- 9
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (16,388 US deaths), subset for MO	-- 259
1885 --	<b>diphtheria and croup</b> , St. Louis, MO	-- 40
1890 --	Jan-Mar, <b>influenza</b> (La Grippe/Russian Flu), especially St. Louis (500), MO	-- 501
1900 --	<b>smallpox</b> (subset, 8,484 US smallpox deaths); MO	-- 66
1901 --	<b>smallpox</b> , Kansas City (6), St. Joseph (7), St. Louis (8), MO	-- 21
1902 --	<b>smallpox</b> , MO	-- 26
1903 --	<b>smallpox</b> , Kansas City/8, St. Joseph/1, St. Louis/4; subset of $\geq 1,457$ US deaths	-- 13
1907 --	<b>typhoid fever</b> ; Kansas City/74, St. Joseph/17, St. Louis/108; $\sim 13$ K census deaths	-- 199
1910 --	<b>polio</b> , especially children; 1,635 US polio deaths; subset for MO	-- 18
1910 --	<b>typhoid fever</b> ; 12,673 US deaths/21 states/death rate 23.5; subset for MO	-- 269
1912 --	Jan 08-12 especially, <b>cold waves and snowstorms</b> (subset of 228 US deaths)	-- 5
1915 --	Feb 18, New Home coal <b>mine</b> shaft number 2 explosion, Rich Hill, MO	-- 5
1915 --	July 07, <b>tornado</b> and <b>windstorm</b> , St. Charles County, MO	-- 4-7
1920 --	<b>whooping cough</b> (subset, 10,968 whooping cough deaths in 34 reg. states); MO	-- 308
1925 --	<b>anthrax</b> (MO subset of 22 US anthrax deaths)	-- 1
1925 --	<b>measles</b> (MO subset of 2,404 measles deaths in 40 “registration” states)	-- 13
1931 --	<b>polio</b> , esp. July-Oct, (MO subset of 2,139-2,144 U.S. polio deaths, esp. children)	-- 25
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; MO, 3.8	-- 140
1933 --	June 17, <b>shooting murders</b> of four law officers plus prisoner, Kansas City, MO	-- 5
1934 --	May 08, Missouri Pacific <b>grain elevator dust explosions</b> & fire, St. Louis, MO	-- 7
1945 --	Apr 12, <b>tornado</b> , McDonald County (1) and Polk County (4)	-- 5
1945 --	Aug 29, aluminum dust <b>explosion</b> , Metals Disintegrating Co., Shrewsbury, MO	-- 6
1948 --	Sep 18, <b>USAF B-25 Mitchell bomber loses engine and crashes</b> , Kansas City, MO--	7
1949 --	Mar 30, <b>USAF C-47 crash during storm</b> 5 miles SW of Edgar Springs, MO	-- 7
1949 --	Dec 11, <b>tornado</b> , Poplar Bluff vicinity, MO	-- 6
1950 --	<b>polio</b> , especially July-Nov; 1,904 US polio deaths’ subset for MO	-- 30
1951 --	<b>whooping cough</b> ; 960 US deaths; subset for MO	-- 19
1951 --	July 11-18, <b>flooding</b> , west MO	-- 6
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for MO	-- 665
1953 --	<b>polio</b> (subset of 1,450 US polio deaths), MO	-- 27
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for MO	-- 558
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; MO subset	-- 373
1955 --	<b>whooping cough</b> /pertussis, 476 US deaths/15 states in double digits; MO	-- 9
1955 --	Feb 23, <b>USAF KC-97 tanker engine fire</b> after takeoff, crashes near Windsor, MO--	9

<sup>491</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

**Missouri (continued):**

1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; MO subset --	378
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; MO subset	-- 373
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; MO subset	-- 356
1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	-- 5-7
1963 --	<b>excessive heat</b> ; 196 US deaths; MO	-- 9
1963 --	<b>whooping cough</b> (pertussis); 115 US deaths; MO	-- 6
1963 --	Jan 29, <b>Continental Airlines 290 plane crash</b> , Kansas City Municipal Airport, MO--	8
1964 --	<b>scarlet fever and streptococcal sore throat</b> ; 95 US deaths; MO	-- 6
1964 --	Jan 12-14, <b>snowstorm and coldwave</b> , esp. NE US (146-167), MO	-- 5
1964 --	Mar 20, <b>car</b> skids on icy US 69 curve into path of truck, near Cameron, MO	-- 6
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for MO	-- 55
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; MO death rate 3.09	-- 143
1968 --	Apr 04-11, Martin Luther King Jr. assassination <b>rioting</b> , Kansas City, MO	-- 7
1969 --	<b>chickenpox</b> ; ICD-8 code 052; 81 US deaths; subset for MO	-- 5
1969 --	<b>polio</b> ; ICD-8 codes 040-044; 110 US deaths; MO	-- 5
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; MO 0.6--	29
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; MO death rate 1.73	-- 82
1972 --	Dec 9, natural gas leak explosion, two buildings collapse, downtown Clinton, MO--	8
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; MO 1.80 per 100K	-- 86
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; MO death rate 1.46	-- 70
1975 --	<b>whooping cough</b> (pertussis; ICD-8 code 033.0); 8 US deaths/death rate 0.004; MO--	2
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; MO, 1.18	-- 57
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; MO 3.1-151	
1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; MO death rate 0.82	-- 40
1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; MO, 0.59	-- 29
1982 --	<b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, MO death rate 0.71	-- 35
1983 --	<b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K; MO, 0.55	-- 27
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; MO death rate 0.44	-- 22
1985 --	<b>measles</b> (subset of 5 US measles deaths)	-- 1
1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; MO, 0.52	-- 26
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; MO, 2.43	-- 123
1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K; MO, 0.63	-- 32
1987 --	Jan 20, <b>US Army Beechcraft &amp; business Piper collide</b> over Independence, MO	-- 6
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; MO, 3.60	-- 183
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K population; MO, 0.53	-- 27
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; MO, 5.02	-- 256
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K population; MO, 0.59	-- 30
1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K pop.; MO, 0.41	-- 21
1990 --	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K pop.; MO, 0.68	-- 35
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K pop., MO, 0.43	-- 22
1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K population, MO, 0.38	-- 20
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K pop.; MO, 0.51	-- 27
1993 --	summer, <b>heat</b> (exposure to excessive natural heat), MO	-- ~7
1993 --	Aug 11, <b>lightning</b> , Merrimac River, Crawford County, MO	-- 2

**Missouri (continued):**

1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K, MO rate 0.36	--	19
1994 --	Feb 20, <b>Beechcraft Bonanza stalls, 2<sup>nd</sup> landing attempt, crashes</b> ½M Grain Valley, MO	--	5
1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K population; MO, 0.33	--	18
1996 --	<b>tuberculosis</b> ; 1,202 US TB deaths/death rate 0.45 per 100K pop.; MO rate 0.31	--	17
1996 --	summer, <b>heat</b> (exposure to excessive natural heat), MO	--	8
1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K pop., MO rate 0.27	--	15
1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K pop.; MO rate 0.33	--	18
1999 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K pop.; MO, 0.342	--	19
2002 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.273 per 100K, MO, 0.229	--	13
2004 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K pop.; MO, 0.17	--	10
2005 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K pop.; MO, 0.21	--	12
2006 --	Dec 17, <b>carbon monoxide poisoning</b> , car in apartment garage, Kirksville, MO	--	7
2007 --	Jan 12-15, <b>ice and winter storm</b> , MO	--	9
2009 --	Jan 28, <b>ice and snow storm</b> , MO (91 deaths in 12 States), subset for MO	--	8
2010 --	<b>influenza</b> , 500 US flu deaths, US death rate 0.2 per 100K pop.; MO rate 0.2	--	14
2011 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000 pop.; MO, 0.4	--	22
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; MO rate 2.5	--	151
2012 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100,000; MO, 2.3	--	136
2013 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100,000; MO, 2.5	--	151
2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US and MO death rate 0.8 per 100K	--	46
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; MO, 2.3	--	139
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; MO, 0.7	--	40
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; MO, 2.0	--	123
2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US & MO death rate 0.7 per 100K	--	43
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; MO death rate 1.1	--	65
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; MO rate 1.4	--	83
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; MO death rate 1.16	--	71
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; MO death rate 1.16	--	71
2018 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; MO subset	--	11
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; MO rate 0.95	--	58
2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; MO death rate 1.01	--	62
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; MO death rate 1.02	--	63
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	570

**Breakout by Type of Missouri Large Loss-of-Life Events (10 or more fatalities):**

243 --	<b>Disease</b> , select communicable, especially epidemics. (Plus 85 in "Other.")
62 --	<b>Heat</b> . (Plus 3 years 7-9 deaths.)
54 --	<b>Maritime and Inland Waterways</b> .
40 --	<b>Winter Weather/Cold/Hypothermia</b> .
23 --	<b>Tornadoes</b> . (Plus we note two with 5 and 5 deaths each.)
18 --	<b>Fire</b> , Structural (Including fires following an explosion or transportation accident.)
12 --	<b>Rail</b>
10 --	<b>Flooding</b> (Plus 6 deaths in July 1951 flooding.)



**Missouri (continued):**

- 8 -- **Aviation** (Plus 6 events noted with 5-9 deaths.)
- 7 -- **Violence** (Plus 1 with 9 fatalities, one with 7 and one with 5.)
- 5 -- **Explosions** (Plus 3, 6-8 deaths: 7 in 1934, 6 in 1945, 8 in 1972.)
- 2 -- **Structural Failure**
- 1 -- **Earthquake.**
- 1 -- **Mining.** (Plus 1 event >ten deaths: 5 in 1915 coal mine explosion.)
- 1 -- **Poisoning (unintentional)**
- 1 -- **Vehicular – Road/Highway** (Plus 1 event with 6 deaths 3-20-1964, MO)
- 1 -- **Wind Storm, MO**
- 0 -- **Carbon Monoxide Poisoning** (One event, though, with 7 deaths in 2006 in MO other.)

## MT

## Montana

1. 1801-02--**smallpox** pandemic, Native Amer., Central, Midwest, esp. Upper, Northwest<sup>492</sup>-- 100
2. 1837-38--**smallpox**, Upper Mid-West native tribes, especially Dakotas/MT<sup>493</sup> --10K~17,000
3. 1869 -- **smallpox** epidemic, Gros Ventre Natives, Montana Territory --700~800
4. 1869 -- May 9, **skirmish**, settlers vs Natives near Musselshell River mouth, Montana Terr.--~35
5. 1870 -- Jan 23, **Baker Massacre**/2<sup>nd</sup> Cav. of Piegan camp, Marias River, MT Terr. --173-217
6. 1876 -- June 17, **Battle** of Rosebud Creek, USA/Crow/Shoshoni vs Lakota/Cheyenne, Big Horn Co., MT--29-77
7. 1876 -- June 25, **Battle** of the Little Bighorn ~Little Bighorn Riv., SE MT Territory--315~363
8. 1877 -- Sep 30-Oct 5, **Battle** of Bear Paw, US Army attack fleeing Nez Perce, NW MT-- 53
9. 1877 -- Aug 9-10, **Battle** of the Big Hole, US Army attacks Nez Perce, Beaverhead Co., MT--91-121
10. 1883 -- **smallpox**, Little Shell camp of Turtle Mountain Chippewa (by Feb 5) -- 10
11. 1883 -- June 23, **trains collide**, Northern Pacific Railroad, Heron Station, MT -- 24
12. 1884 -- June 08, **ferry boat** goes over Falls, drownings, Thompson's Falls, MT -- 11
13. 1888 -- Sep 11, **Wickes Tunnel**, premature explos., Montana Central RR ~Helena, MT-- 10
14. 1895 -- Jan 15, **fire & dynamite & powder explosions**, two warehouses, Butte, MT --57-60
15. 1899 -- Apr 08, **flash flooding**, Yellowstone River, esp. below Glendive, MT -- 12
16. 1900 -- **typhoid fever** (MT subset of 35,379 typhoid fever deaths nationwide) -- 42
17. 1901 -- Aug 30, Runaway **freight cars collide with train**, fire ~Nyack station, MT --36-41
18. 1905 -- Aug 20, **street car and freight train** crossing collision, Butte, MT -- 10
19. 1908 -- Sep 25, **trains collide** in **snowstorm**, Young's Point, near Park City, MT --20-21
20. 1910 -- **polio**, especially children, MT -- 17
21. 1910 -- **typhoid fever**; subset, 12,673 US deaths/21 states/death rate 23.5; MT, 39.9 -- 151
22. 1913 -- **measles**, 8,108 US "registration area" (65.1%) deaths; MT<sup>494</sup> -- 54
23. 1915 -- Oct 19, Granite Mt. Copper **Mine** dynamite explosion, Butte, MT -- 16
24. 1916 -- late summer-fall, **polio**, especially children, subset of ~7K US deaths; MT -- 26
25. 1916 -- Feb 14, **mine** fire, Pennsylvania Copper Mine, Butte, MT -- 21
26. 1917 -- June 08, Granite Mountain Speculator copper **mine** shaft fire, Butte, MT --161-168
27. 1918-1920 -- **influenza and pneumonia** epidemic, MT --6,079
  - 1918 -- Jan-Dec, **influenza and pneumonia** epidemic, MT --3,982
  - 1919 -- Jan-Dec, **influenza and pneumonia** epidemic, MT --1,217
  - 1920 -- Jan-Dec, **influenza and pneumonia**, MT -- 880
28. 1920 -- **typhoid fever** (subset, 6,805 typhoid fever deaths, 34 registration states), MT -- 27
29. 1931 -- **polio**, esp. July-Oct, (MT subset, 2,139-2,144 US polio deaths, esp. children) -- 15
30. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; MT, 8.6 -- 46
31. 1936 -- Feb 4-27, especially, **arctic cold waves, snowstorms** (273 US deaths), MT -- 16
32. 1938 -- Jan 10, **plane crash**, Northwest Airlines, Bridger Canyon, MT -- 10
33. 1938 -- Jun 19, **flash flood, bridge fails, train crash**, Custer Creek, near Saugus MT -- 47
34. 1942 -- Dec 30, U.S. Army Air Force B-17 **plane crash**, Musselshell, MT -- 12
35. 1943 -- Feb 27, gas explosion, Smith Coal **Mine** #3, Bearcreek-Washoe area, MT<sup>495</sup> --74-75

<sup>492</sup> The number applies to one source noting about 100 Atsina died. Other sources note other tribes, such as Crow, Flathead, Gros Ventre, Pend d'Oreille, Semte'use and Sioux who lived in or moved about Montana, were effected. We have no estimates for general Native deaths in MT. We estimate more than 9,090 Natives died in today's U.S.

<sup>493</sup> We do not know the MT breakout. We know many thousands of natives died in the upper mid-west, including 700-6000 Blackfeet, depending on source, many of whom lived or traveled in Montana.

<sup>494</sup> Went from 1.5 measles death rate per 100,000 in 1912 to 12.9 measles deaths per 100,000 pop. in 1913.

<sup>495</sup> Difference between 74 and 75 has to do with the death of a rescuer several weeks later from his gas exposure.

**Montana (continued):**

36. 1943 -- May 23, USAAF B-17F **plane crash**, Yellowstone National Park, MT -- 10
37. 1943 -- Aug 24, USAAF B-17 **plane crash**, Gibson Ranch, near Dovetail & Winnett, MT--11
38. 1943 -- Sep 01, USAAF B-17F **plane explosion and crash**, near Fort Benton, MT -- 10
39. 1945 -- Dec 08, **Northwest Air**, C-47 USAAF charter, AP approach crash, Billings, MT-- 19
40. 1946 -- **polio**, especially July-Nov (MT subset of 1,845 polio deaths nationwide) -- 29
41. 1949 -- Aug 5, Mann Gulch **forest fire** overruns smokejumpers, Gates of the Mountains, MT--13
42. 1950 -- Nov 07, **Northwest Air #115** deviates from course, hits mt. ridge ~Butte, MT--all 21
43. 1953 -- **polio** (subset of 1,450 US polio deaths); MT -- 14
44. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) -- 282
45. 1959 -- Aug 18, **earthquake, rockslides, landslides**, campers killed, Hebgen Lake, MT-- 28
46. 1960 -- **influenza**; 7,872 US deaths/death rate 4.4 per 100K; MT death rate 5.2 -- 35
47. 1960 -- Oct 28, **Northwest Orient Airlines crash**/fire, poor visibility, ~Missoula, MT--all 12
48. 1963 -- **influenza**, 7,083 US deaths/death rate 3.8; MT death rate 4.2 -- 30
49. 1964 -- **influenza**; 1,687 US deaths/death rate 0.9 per 100K; MT death rate 4.0 -- 28
50. 1964 -- June 8, rain/Swift & Two Medicine **dams fail/flooding**, esp. Blackfeet Res., NW MT--34-35
51. 1966 -- **influenza**; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for MT -- 49
52. 1968 -- **influenza**, ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; MT 4.4--30
53. 1969 -- exposure to **excessive natural cold**; ICD-8 code E901; 424 US deaths; MT -- 10
54. 1969 -- **influenza**, ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; MT 5.8--40
55. 1971 -- **influenza**, ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; MT 1.6-- 11
56. 1973 -- **influenza**; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; MT rate 5.78-- 42
57. 1974 -- **influenza**, ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; MT/1.6-- 12
58. 1974 -- **tuberculosis**; 3,513 US TB deaths/death rate 1.65 per 100K; MT, 2.17 -- 16
59. 1975 -- exposure to excessive natural **cold** (ICD-8 E901); 359 US deaths; MT -- 11
60. 1975 -- **influenza**, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; MT/2.3-- 17
61. 1975 -- **tuberculosis**; 3,333 US TB deaths/death rate 1.55 per 100K; MT, 2.00 -- 15
62. 1976 -- **influenza**; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; MT 12.4-- 94
63. 1978 -- exposure to excessive natural **cold/hypothermia**; 652 US deaths; MT -- 10
64. 1978 -- **influenza**, 4,052 US flu deaths/death rate 1.82 per 100K; MT, 2.42 -- 19
65. 1978 -- **tuberculosis**, 2,914 US TB deaths/death rate 1.31 per 100K; MT, 1.53 -- 12
66. 1980 -- **influenza**, 2,702 US flu deaths/death rate 1.19 per 100K, MT, 3.05 -- 24
67. 1982 -- exposure to excessive natural **cold/hypothermia**; 402 US deaths; MT<sup>496</sup> -- 14
68. 1983 -- exposure to excessive natural **cold/hypothermia**; 510 US deaths; MT -- 11
69. 1983 -- **influenza**, 1,431 US flu deaths, death rate 0.61 per 100K, MT, 3.19 -- 26
70. 1984 -- **influenza**, 1,096 US flu deaths, death rate 0.46 per 100K, MT, 2.31 -- 19
71. 1985 -- exposure to excessive natural **cold/hypothermia**; 519 US deaths; MT<sup>497</sup> -- 15
72. 1985 -- **influenza**, 2,054 US flu deaths, death rate 0.86 per 100K, MT, 2.80 -- 23
73. 1986 -- **influenza**; 1,838 US flu deaths; death rate 0.76 per 100K: MT, 2.83 -- 23
74. 1987 -- July 04, **private (band) Beechcraft crash**, near Flathead Lake, Lakeside, MT-- 10
75. 1988 -- **influenza**; 1,943 US flu deaths, death rate 0.79 per 100K; MT, 2.63 -- 21
76. 1989 -- **influenza**, 1,593 US flu deaths, death rate 0.64 per 100K; MT, 2.13 -- 17
77. 1990 -- **influenza**, 2,098 US flu deaths; death rate 0.84 per 100K; MT, 1.75 -- 14

<sup>496</sup> At 1.74 cold/hypothermia deaths per 100,000 population, MT had the highest death rate of any state (avg. 0.17)

<sup>497</sup> At 1.83 cold/hypothermia deaths per 100,000 population, MT had the highest death rate of any state (avg. 0.22).

**Montana (continued):**

78.	1992	--	<b>influenza</b> , 1,006 US flu deaths; death rate 0.39 per 100K, MT, 1.21	--	10
79.	1992	--	Nov 30, two <b>USAF C-141B transport planes collide</b> mid-air, near Harlem, MT	--	13
80.	1993	--	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K, MT, 1.54	--	13
81.	1994	--	exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; MT	--	11
82.	1994	--	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; MT, 1.74	--	15
83.	1996	--	exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; MT	--	12
84.	1996	--	<b>influenza</b> , 745 US flu deaths; US death rate 0.276 per 100K; MT, 1.241	--	11
85.	1998	--	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; MT death rate 6.72	--	60
86.	1999	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; MT, 3.900	--	35
87.	2000	--	exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; MT	--	12
88.	2000	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; MT, 1.108	--	10
89.	2001	--	exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; MT	--	13
90.	2002	--	exposure to excessive natural <b>cold/hypothermia</b> ; 646 US deaths; MT	--	12
91.	2003	--	exposure to excessive natural <b>cold/hypothermia</b> ; 620 US deaths; MT	--	12
92.	2003	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; MT, 1.849	--	17
93.	2005	--	exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; MT	--	10
94.	2005	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; MT, 2.766	--	26
95.	2007	--	exposure to excessive natural <b>cold/hypothermia</b> ; 711 US deaths; MT	--	11
96.	2008	--	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; MT	--	12
97.	2009	--	Mar 22, Pilatus PC-12/45 jet private <b>plane crash</b> , Butte, MT	--	14
98.	2009	--	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); MT, 1.3	--	13
99.	2009	--	especially fall/winter, <b>H1N1 "Swine Flu"</b> (MT subset, over 12,000 U.S.)	--	18-19
100.	2010	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K, MT, 1.2	--	12
101.	2010	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; MT, 2.5	--	25
102.	2011	--	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; MT, 2.9	--	29
103.	2012	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; MT, 1.2	--	12
104.	2012	--	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100K; MT, 3.0	--	30
105.	2013	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, MT, 1.3	--	13
106.	2013	--	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; MT, 3.5	--	35
107.	2014	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; MT, 1.1	--	11
108.	2014	--	exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; MT <sup>498</sup>	--	14
109.	2014	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.4 per 100,000; MT, 2.1	--	12
110.	2015	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100,000; MT, 3.1	--	32
111.	2015	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; MT, 2.8	--	29
112.	2016	--	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; MT <sup>499</sup>	--	13
113.	2016	--	<b>influenza</b> ; US death rate 0.9 per 100,000; MT, 2.5 (highest in US)	--	26
114.	2016	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; MT, 2.6	--	27
115.	2017	--	exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths; MT	--	10
116.	2017	--	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; MT rate 5.05	--	53
117.	2018	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; MT	--	13
118.	2018	--	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., MT rate 4.05	--	43
119.	2019	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths; MT	--	12

<sup>498</sup> MT had largest per capita loss of life to hypothermia of any state in 2014.

<sup>499</sup> At 1.25 hypothermia deaths per 100K population (US avg. 0.23), MT had 3<sup>rd</sup> highest state death rate in 2016.



120.	2019 --	<b>influenza</b> ;	subset of 5,902 US deaths, 1.08 death rate per 100K, MT, 2.81 rate--	30
121.	2020 --	exposure to excessive <b>natural cold</b> ;	919 US deaths/death rate 0.28; MT	-- 16
122.	2020 --	<b>influenza</b> ;	5,943 US deaths/death rate 1.8 per 100K; MT death rate 2.78	-- 30
123.	2020 --	<b>COVID-19</b> ;	354,215 US Covid deaths/1,070 per 1M; MT, 899 per 1M pop.	-- 961
124.	2021 --	<b>COVID-19</b> ;	437,984 US deaths/2.6K deaths per 1M pop.; MT, 2.7K per M	--1,945
125.	2022 --	<b>COVID-19</b> ;	217,370 US deaths/death rate 6.50; MT death rate 6.61	-- 706

#### Some Select/Notable Other **Montana** Large Loss-of-Life Events:<sup>500</sup>

1879 --	June-May, 1880,	<b>diphtheria</b> ,	esp. Sep-Jan, esp. children (38,143 U.S. deaths)	-- 25
1880 --	<b>scarlet fever</b> ,	especially children (MT subset of 16,388 Census Year SF deaths)		-- 24
1881 --	Feb 12,	copper <b>mine</b> blacksmith shop fire and powder explosion, Belmont, MT		-- 6
1888 --	Jan 12,	<b>blizzard and extreme cold</b> (MT subset of ~300-500 deaths)		-- ~5
1889 --	Nov 23,	<b>St. Lawrence copper mine fire, suffocation</b> Anaconda mine, Butte, MT--		6
1889-90,	June-May,	<b>croup</b> , MT		-- 15
1889-90 --	June-May,	<b>diphtheria</b> ;	subset of 27,815 U.S. diphtheria deaths; MT	-- 41
1889-90 --	June-May,	<b>typhoid fever</b> ;	27,058 US typhoid deaths, MT subset	-- 51
1891--	Nov 03/04,	men fall from haulage cage, Anaconda Copper <b>Mine</b> , near Butte, MT		-- 9
1892 --	May 14,	Anaconda Copper Mining Co., Anaconda <b>Mine</b> cave-in, Butte, MT		-- 9
1893 --	Apr 21,	<b>mine</b> fire and suffocations, Silver Bow No 2 Copper Mine, Butte, MT		-- 9
1900 --	<b>croup</b> (upper airway contagious viral infection; subset 12,484 US croup deaths), MT--			27
1900 --	<b>diphtheria</b> (MT subset of 16,475 US diphtheria deaths in 1900)			-- 24
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths), MT			-- 17
1900 --	<b>measles</b> (subset of 12,866 US measles deaths); MT			-- 17
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths); MT			-- 43
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths); MT			-- 26
1900 --	<b>tuberculosis</b> (2,188 MT deaths all causes) (109,750 US tuberculosis deaths)			-- 164
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths)			-- 19
1905 --	May 12,	detonation of explosive materials, Cora copper <b>mine</b> , Butte, MT		-- 7
1910 --	Aug 20-Sep 9,	<b>wildfires</b> , deaths at Copper Creek/Iron Mt./Saltese/Swamp Creek, MT--		7
1914 --	<b>measles</b> ;	4,461 US deaths/death rate 6.8 per 100K pop.; MT rate 6.2		-- 27
1916 --	<b>diphtheria</b> ,	especially children; MT subset >8,000-17,000 US diphtheria deaths		-- 33
1917 --	<b>influenza</b> ;	12,974 US influenza deaths/death rate 17.2 per 100K; MT death rate 9.1--		43
1917 --	<b>polio</b> ,	(MT subset of >1,182 polio deaths)		-- 8
1919 --	<b>diphtheria</b> (MT subset, 9,160 US diphtheria deaths, especially children)			-- 51
1919 --	<b>botulism from contaminated canned olives from California</b> , Java, MT			-- 5
1920 --	<b>diphtheria and croup</b> (MT subset, 13,395 such deaths in 34 registration states)			-- 32
1920 --	<b>measles</b> (MT subset of 7,712 measles deaths in 34 registration states)			-- 27
1920 --	<b>scarlet fever</b> (MT subset of 4,004 scarlet fever deaths in 34 registration states)			-- 22
1920 --	<b>whooping cough</b> (MT subset, 10,968 whooping cough deaths in 34 reg. states)			-- 51
1925 --	exposure to <b>excessive natural cold</b> ,	MT subset of 239 US excessive cold deaths		-- 8
1925 --	<b>diphtheria</b> (MT subset, 8,058 US diphtheria deaths)			-- 34
1925 --	<b>dysentery</b> (MT subset, 3,257 US dysentery deaths)			-- 13
1925 --	<b>influenza</b> (MT subset, 30,538 US influenza deaths)			-- 109

<sup>500</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

**Montana (continued):**

1925 --	<b>scarlet fever</b> (MT subset of 2,762 US scarlet fever deaths, 48 states)	--	21
1925 --	<b>tuberculosis</b> (MT subset, 89,268 US tuberculosis deaths)	--	396
1925 --	<b>typhoid/paratyphoid fever</b> (MT subset, 8,287 US Typhoid Fever deaths)	--	24
1925 --	<b>whooping cough</b> (MT subset, 6,948 US whooping cough deaths)	--	63
1931 --	<b>influenza</b> (MT subset of 31,701 influenza deaths nationwide)	--	152
1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--	329
1936 --	July-Aug (esp.), <b>excessive heat</b> (4,678-5,000 US heat deaths), MT subset	--	5
1939 --	<b>tuberculosis</b> (MT subset of 61,609 tuberculosis deaths nationwide)	--	238
1939 --	<b>whooping cough</b> ; subset of 3,026 US whooping cough deaths; MT	--	16
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); MT death rate 11.8	--	66
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, MT death rate 0.9--	--	5
1944 --	<b>measles</b> , especially Jan-June; 1,923 US measles deaths; subset for MT	--	13
1944 --	<b>whooping cough</b> (MT subset of 1,878 whooping cough deaths nationwide)	--	10
1946 --	Aug 9, <b>USAAF A-26 Invaders collide</b> , <b>ground casualties</b> , No. Montana State Fair, Great Falls--	--	7
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths, MT	--	13
1950 --	Feb 15, <b>USAF B-29 crash after takeoff</b> , US HWY-117 3M SW of Great Falls, MT--	--	8
1951 --	<b>measles</b> , 688 US deaths; subset for MT	--	9
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths	--	5
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for MT	--	71
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for MT	--	21
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths; subset for MT	--	10
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for MT	--	60
1952 --	Nov 17, <b>USAF C-119 "Flying Boxcar" engine loss/crash</b> , field near Billings, MT--	--	8
1953 --	<b>influenza</b> ; 9,500 US deaths; MT subset	--	52
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; MT subset	--	49
1953 --	Jan 25, Gallagher Nursing Home <b>fire</b> (careless smoking), Billings, MT	--	6
1954 --	<b>polio</b> , acute; 1,400 US deaths; MT subset	--	12
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; MT subset	--	52
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; MT subset	--	36
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; MT subset	--	38
1957 --	<b>influenza</b> ; 7,463 US deaths; MT subset	--	24
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; MT subset	--	59
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; MT subset	--	42
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; MT subset	--	33
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; MT death rate 4.7	--	32
1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; MT death rate 1.3	--	9
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; MT death rate 3.7	--	25
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; MT death rate 4.5	--	32
1962 --	Jan 25, <b>plane crash, Gov. Nutter, 2 aides</b> , 3 MT Air NG, Wolf Creek Canyon, MT--	--	6
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; MT death rate 3.8	--	27
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; MT death rate 4.0	--	28
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; MT death rate 3.1	--	22
1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for MT	--	21
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; MT rate 2.51	--	17

**Montana (continued):**

1969 --	tuberculosis	; 5,567 US deaths/death rate 2.76 per 100K; MT rate 2.19	--	15
1970 --	tuberculosis	; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; MT 2.2	--	15
1971 --	tuberculosis	; 4,501 US TB deaths/death rate 2.18 per 100K; MT death rate 1.12	--	8
1972 --	influenza	; ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; MT 1.95	--	14
1972 --	tuberculosis	; 4,376 US deaths, death rate 2.09 per 100K; MT death rate 1.39	--	10
1973 --	chickenpox	; 138 US deaths; subset for MT	--	5
1973 --	tuberculosis	; 3,875 US deaths/death rate 1.84 per 100K; MT 1.51 per 100K	--	11
1973 --	Sep 29, Southwestern Railway Co.	Cessna 402B pilot error crash, Utica, MT	--	all 8
1977 --	influenza	; 1,305 US flu deaths/death rate 0.59 per 100K; MT death rate 1.04	--	8
1980 --	exposure to excessive natural	cold/hypothermia; 302 US deaths; MT <sup>501</sup>	--	8
1980 --	Aug 21, Piper PA-32 plane crash	, Choteau, MT	--	5
1981 --	exposure to excessive natural	cold/hypothermia; 289 US deaths, MT <sup>502</sup>	--	6
1981 --	influenza	; 3,006 US flu deaths/death rate 1.31 per 100K, MT death rate 1.26	--	10
1982 --	July 2, shooting	, wife, children, mother-in-law (5), suicide, Thompson Falls, MT	--	6
1983 --	Dec 16-29, winter weather	, severe cold/exposure deaths, snow, icy roads, MT	--	8
1984 --	tuberculosis	; 1,729 US TB deaths, death rate 0.73 per 100K; MT death rate 0.97	--	8
1984 --	Jan 21, Whitefish HS wrestling team	bus hits jack-knifed fuel tanker/burns ~Essex, MT	--	9
1988 --	HIV AIDS	; 16,602 deaths/US death rate 6.8 per 100K population; MT rate 0.63	--	5
1989 --	HIV AIDS	; 22,082 US deaths, death rate 8.9 per 100K population; MT rate, 2.0	--	16
1989 --	Jan 31-Feb 5, arctic cold blast	out of Alaska, snow, high wind, cold, MT	--	4
1992 --	Dec 18, US Dept. of Energy Cessna crash	, upset by 757 wake, 1M E Billings-Logan AP, MT	--	8
1993 --	Dec 31, avalanche	kills snowmobilers, Swan Range, near Big Fork, MT	--	5
2002 --	Jan 26, avalanche	, snowmobilers, Sheep Mountain., Bonner, MT	--	4
2013 --	viral hepatitis	; ICD-10 code B15-B19; US death rate 2.6 per 100,000; MT, 2.5	--	25
2014 --	viral hepatitis	; ICD-10 code B15-B19, US death rate 2.5 per 100,000; MT, 2.2	--	22
2021 --	exposure to excessive	natural cold; 1,179 US deaths/death rate 0.36; MT subset	--	15
2022 --	July 15, dust storm	, 21-vehicle pileup, I-90 near Hardin, Big Horn County, MT	--	6
2023 --	COVID-19	, subset of 71,691 US deaths	--	91

**Breakout by Type of Montana Large-Loss-of-Life Events (10 or more fatalities):**

- 69 -- **Disease**, select communicable, especially epidemics. (Plus 79 in "Other.")
- 22 -- **Winter Weather/Cold/Hypothermia**. (Plus 7 other notable years.)
- 11 -- **Aviation**. (Plus 7 with 5-8 deaths: 6 deaths in 1962, one with 7 and four with 8.)
- 6 -- **Violence**. (Plus one with 6 fatalities in "Other.")
- 5 -- **Rail**.
- 5 -- **Mining / Tunneling**. (Plus 6, 6-9 deaths: 6 in 1881 & 1889, 7 in 1905, 9 in 1891, 1892, 1893.)
- 3 -- **Flooding**
- 2 -- **Structural Failures**. (A bridge and a dam failure.)
- 1 -- **Earthquake (cross-listed with Landslides)**.
- 1 -- **Explosion (non-mining)**.
- 1 -- **Fire, structural**. (Plus a Jan 1953 fire taking six lives.)

<sup>501</sup> At 1.02 cold/hypothermia/weather deaths per 100,000 pop., MT had highest death rate in the US (avg. 0.13).

<sup>502</sup> At 0.75 cold/hypothermia/weather deaths per 100,000 pop., MT had highest death rate in the US (avg. 0.13).

**Montana (continued):**

- 1 -- **Forest Fire.** (Plus 7 deaths in Aug-Sep 1910 wildfires.)
- 1 -- **Landslide** (cross-listed with Earthquake).
- 1 -- **Lightning**
- 1 -- **Maritime and Inland Waterways.**
- 1 -- **Tainted/contaminated Food, Drugs, Medicines (unintentional poisoning/sickness).**
- 0 -- **Avalanche.** (But one with 5 fatalities and one with 4 in "Other.")
- 0 -- **Dust Storm** (But one dust-storm caused I-90 pileup in 2022 with 6 deaths.)
- 0 -- **Heat.** (5 heat deaths in 1936 heat wave.)
- 0 -- **Road/Highway/Vehicular Events.** (Two events <10; 9 in 1984 and 6 in 2022.)



## NE

## Nebraska

1. 1801-02 -- **smallpox**, Oto, Pawnee, Ponca, Sioux, esp. Omaha natives, NE<sup>503</sup> --1,500
2. 1820 -- Jan-March (mostly), **scurvy**, Cantonment Missouri (Army), Council Bluff, NE-- 190
3. 1849 -- **cholera** epidemic, Omaha Nation, NE -- >500
4. 1852 -- **cholera**, especially Fort Kearney area, NE Territory -- ≥50
5. 1867 -- Sep, **cholera**, Omaha, NE Territory -- ≥10
6. 1871 -- Dec 03, **winter exposure, immigrants freeze**, Saline County, NE -- 17
7. 1873 -- Apr 13, "**Easter Blizzard**," NE -- <20
8. 1873 -- Aug 05, Dakota/Sioux war party **attack** Pawnee camp, Massacre Canyon, NE-- ~70
9. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 US croup deaths) -- 247
10. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) --1,036
11. 1879 -- June-May 1880, **typhoid fever** (NE subset of 23,339 U.S. Typhoid deaths) -- 140
12. 1888 -- Jan 12, "**Schoolchildren's Blizzard**," and **extreme cold**, NE 69-100
13. 1889-90, June 1-May 31, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; NE -- 615
14. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 111
15. 1890 -- June 03, **tornado**, Bradshaw, NE -- 12
16. 1899-1900, June 01-May 31 (census year), **typhoid fever**, esp. Omaha (41)m NE -- 260
17. 1899 -- June 13, **tornado**, Washington County, NE -- 11
18. 1901 -- June-July (especially), **heat waves** (subset of 4,012 US heat deaths) -- 13
19. 1901 -- June 21, **tornado**, Boyd County, NE -- 10
20. 1908 -- June 05, **tornado**, Thayer and Fillmore Counties, NE -- 12
21. 1909 -- **polio** (acute), NE subset of 569 US polio deaths; highest in US -- 135
22. 1909 -- Aug 15-17, **excessive natural heat**, especially Norfolk and Omaha, NE -- 25
23. 1911 -- May 29, **trains collide/fog**, Chicago, Burlington & Quincy RR, McCook, NE -- 18
24. 1913 -- Feb 28, Dewey Hotel **fire** and possible gas explosion, Omaha, NE -- 5-20
25. 1913 -- Mar 23, **tornadoes**, esp. Omaha & vic., also Ralston, Berlin, Yutan & vic., NE -- 136
26. 1913 -- May 14, **storm/tornadoes**, esp. Tamora, McCool Junction, Seward, NE -- 8-14
27. 1916 -- Oct 15, **trains collide**, Burlington Railroad, Elwood, near Smithfield, NE -- 11
28. 1918 -- Sep 10, **trains collide**, near Birdsell, NE -- 11
29. 1918 -- Sep-Apr 1919, **influenza and pneumonia** epidemic, NE --6,010
  - 1918 -- Sep-Dec, **influenza and pneumonia** Epidemic, NE --4,332
  - 1919 -- Jan-Apr, **influenza and pneumonia** epidemic, NE --1,678
30. 1920 -- Jan-Dec, **influenza and pneumonia**, NE --1,862
31. 1920 -- **measles** (NE subset of 7,712 measles deaths in 34 registration states) -- 121
32. 1925 -- **excessive heat** (NE subset, 1,587 US excessive heat deaths; US Census Bureau)-- 22
33. 1925 -- **polio** (NE subset, 1,518 US polio deaths) -- 40
34. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; NE, 4.7 -- 65
35. 1931 -- summer, **excessive natural heat**; subset, 2,768 U.S. heat deaths; NE -- 26
36. 1934 -- summer, **excessive natural heat** deaths; subset of 3,250 US heat deaths; NE -- 165
37. 1935 -- May 30-June 01, **flooding**, esp. Republican River basin, esp. south NE -- 113
38. 1936 -- July-Aug (especially), **excessive heat**; (4,678-5,418 US heat deaths), NE --60-72
39. 1939 -- summer, **excessive natural heat**; subset of 527-1,073 US heat deaths; NE -- 16
40. 1940 -- **polio**, especially children (NE subset of 1,026 polio deaths nationwide) -- 22
41. 1943 -- July 19, **plane crash**, USAAF C-53D, near Malcolm and Lincoln, NE -- 13

<sup>503</sup> The estimate refers to the Omaha. We have seen no estimates of the greater death toll within Nebraska.

## Nebraska (continued):

42.	1943 -- Aug 28, three USAAF <b>planes collide</b> , near Army Air Base, Harvard, NE	--	14
43.	1943 -- Oct 25, two USAAF B-24H <b>planes collide</b> , near Milligan, NE	--	17
44.	1943 -- Dec 14, <b>plane crash</b> , USAAF, B-24J, near Omaha, NE	--	16
45.	1944 -- Apr 29, <b>plane crash</b> , USAAF RB-24E Liberator Bomber, near Merna, NE	--	10
46.	1944 -- June 07, <b>plane crash</b> , USAAF B-24J, near Chappell, NE	--	10
47.	1944 -- Aug 03, <b>plane crash</b> , US Army AF Douglas D-47, thunderstorm, Napier, NE	--	28
48.	1944 -- Aug 05, <b>planes collide</b> , USAAF B-17G's, near Dixon, NE	--	17
49.	1944 -- Sep 15, <b>explosion</b> , Naval Ammunition Depot, near Hastings, NE	--	9-10
50.	1944 -- Dec 7, <b>USAAF AT-18 transport takeoff crash</b> /fire, Omaha Municipal AP, NE	--	17
51.	1946 -- <b>polio</b> , especially children, NE	--	55
52.	1947 -- June 23, flash <b>flooding</b> , Cambridge to Orleans, NE	--	13
53.	1948 -- <b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	--	26
54.	1949 -- <b>polio</b> , especially July-Nov, especially children (~2,725 U.S. polio deaths)	--	49
55.	1949 -- Jan 02-05, <b>blizzard and extreme cold</b> , north third of NE	--	20
56.	1950 -- <b>measles</b> , especially children (NE subset of 468 measles deaths nationwide)	--	12
57.	1950 -- May 08-09, downbursts and <b>flash floods</b> and <b>flooding</b> , Southeast Nebraska	--	23
58.	1952 -- <b>polio</b> , subset of ~3,300 US polio deaths	--	115
59.	1953 -- June 07, <b>tornado</b> , Madsen farm near Arcadia, Valley County, NE	--	10-11
60.	1954 -- excessive <b>heat</b> (especially July), subset of 978-984 US heat-related deaths, NE	--	12
61.	1954 -- <b>encephalitis</b> , acute infectious (viral); 407 US deaths, esp. NY/52 PA/31; NE	--	14
62.	1954 -- <b>polio</b> , acute; 1,400 US deaths; NE subset	--	23
63.	1956 -- Oct 10, USN MATS transport <b>plane lost</b> from UK to Lincoln AFB, NE <sup>504</sup>	--	59
64.	1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--	524
65.	1958 -- Jan 21-29, Charles Starkweather <b>killing spree</b> , 9 in Nebraska, 1 in Wyoming <sup>505</sup>	--	10
66.	1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; NE death rate 10.8	--	153
67.	1960 -- Jan 15-18, Midwest to Northeast <b>snowstorms</b> , 36-41 US deaths, NE	--	10
68.	1961 -- <b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; NE death rate 2.7	--	39
69.	1962 -- <b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; NE death rate 5.2	--	77
70.	1963 -- <b>influenza</b> , 7,083 US deaths/death rate 3.8; NE death rate 5.2	--	76
71.	1964 -- <b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; NE death rate 3.6	--	45
72.	1965 -- <b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; NE death rate 3.6	--	53
73.	1966 -- <b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for NE	--	43
74.	1966 -- <b>excessive natural heat</b> , subset of 613 US heat deaths, NE	--	10
75.	1966 -- Mar 22-24, <b>Midwest blizzard/snowstorm</b> , 41-46 US deaths, NE	--	21
76.	1966 -- Aug 06, Braniff Flight 250 <b>breaks apart in-flight</b> , Falls City, NE	--	42
77.	1968 -- <b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; NE	--	10
78.	1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; NE 9.1--133		
79.	1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; NE 4.7--70		
80.	1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; NE 2.8--	41	
81.	1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; NE 1.9--	29	
82.	1971 -- Jan 3-4, <b>snowstorm</b> /blizzards, Rockies to Great Lakes; 65-77 US deaths; NE <sup>506</sup>	--	10-11

<sup>504</sup> Listed herein in that while the plane was lost in the Eastern Atlantic, 50 of the 59 servicemen lost were USAF personnel going home from 3-month temporary assignment to their permanent duty-station at Lincoln AFB.

<sup>505</sup> Though only nine deaths were in Nebraska, the killer was a Nebraskan and was electrocuted in prison in 1959.

## Nebraska (continued):

83.	1972	--	<b>influenza</b>	, ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; NE 8.04 <sup>507</sup> -122	
84.	1973	--	<b>influenza</b>	; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; NE rate 4.26--	65
85.	1974	--	exposure to <b>excessive natural cold</b>	; ICD-8 code E901, 348 US deaths; NE	-- 10
86.	1974	--	<b>influenza</b>	, ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; NE/3.1--	47
87.	1975	--	<b>influenza</b>	, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; NE, 5.4--	84
88.	1975	--	Jan 10-12, <b>blizzard</b>	(90 US deaths), especially Omaha area ( $\geq 6$ ), NE	-- 14
89.	1976	--	<b>influenza</b>	; ICD8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; NE 12.9 <sup>508</sup>	200
90.	1976	--	Jan 10, Pathfinder (residential) Hotel <b>natural gas explosion/fire</b>	, Fremont, NE--	20
91.	1977	--	<b>influenza</b>	; 1,305 US flu deaths/death rate 0.59 per 100K; NE death rate 1.28	-- 20
92.	1978	--	<b>influenza</b>	, 4,052 US flu deaths/death rate 1.82 per 100K; NE, 3.39	-- 53
93.	1979	--	<b>influenza</b>	, 604 US flu deaths/death rate 0.27 per 100K; NE, 1.15	-- 18
94.	1980	--	<b>influenza</b>	, 2,702 US flu deaths/death rate 1.19 per 100K, NE, 2.67	-- 42
95.	1980	--	June-Aug (esp.), <b>excessive natural heat</b>	, especially Douglas County/6 deaths	-- 15
96.	1980	--	June 12, <b>Air Wisconsin flight 965 crash</b>	(storm, engine failure), Valley, NE	-- 13
97.	1981	--	<b>influenza</b>	, 3,006 US flu deaths/death rate 1.31 per 100K, NE, 2.72	-- 43
98.	1982	--	<b>influenza</b>	, 727 US flu deaths/death rate 0.31 per 100K, NE, 1.77	-- 28
99.	1983	--	<b>influenza</b>	, 1,431 US flu deaths, death rate 0.61 per 100K, NE, 2.65	-- 42
100.	1984	--	<b>influenza</b>	, 1,096 US flu deaths, death rate 0.46 per 100K, NE, 0.76	-- 12
101.	1985	--	<b>influenza</b>	, 2,054 US flu deaths, death rate 0.86 per 100K, NE, 4.10 (state high)--	65
102.	1986	--	<b>influenza</b>	; 1,838 US flu deaths; death rate 0.76 per 100K: NE, 1.72	-- 27
103.	1987	--	<b>influenza</b>	; 632 US flu deaths, death rate 0.26 per 100K; NE, 1.02	-- 16
104.	1988	--	<b>influenza</b>	; 1,943 US flu deaths, death rate 0.79 per 100K; NE, 1.78	-- 28
105.	1989	--	<b>influenza</b>	, 1,593 US flu deaths, death rate 0.64 per 100K; NE, 1.27	-- 20
106.	1990	--	<b>influenza</b>	, 2,098 US flu deaths; death rate 0.84 per 100K; NE rate 3.49	-- 55
107.	1991	--	<b>influenza</b>	, 1,137 US flu deaths, death rate, 0.45 per 100K; NE, 2.38/US high--	38
108.	1992	--	<b>influenza</b>	, 1,006 US flu deaths, death rate 0.39 per 100K, NE death rate 0.93--	15
109.	1993	--	<b>influenza</b>	, 1,044 US flu deaths, death rate 0.40 per 100K; NE, 0.74	-- 12
110.	1994	--	<b>influenza</b>	, 1,229 US flu deaths; death rate 0.47 per 100K; NE, 1.22	-- 20
111.	1995	--	<b>influenza</b>	, ICD-9 code 487.0, US death rate 0.227 per 100K, NE, 1.086	-- 18
112.	1996	--	<b>influenza</b>	, 745 US flu deaths; US death rate 0.276 per 100K; NE, 1.015	-- 17
113.	1998	--	<b>influenza</b>	, ICD-9 code 487.0; US death rate 0.62 per 100K; NE, 0.94	-- 16
114.	1999	--	<b>influenza</b>	, ICD-10 codes J09-11.8; US death rate 0.597 per 100K; NE, 1.936--	33
115.	2000	--	exposure to <b>excessive natural cold/hypothermia</b>	; 742 US deaths; NE	-- 10
116.	2000	--	<b>influenza</b>	, ICD-10 codes J09-11.8; US death rate 0.627 per 100K; NE, 2.045--	35
117.	2002	--	<b>influenza</b>	, ICD-10 codes J09-11.8; US death rate 0.253 per 100K; NE, 0.69	-- 12
118.	2003	--	<b>influenza</b>	, ICD-10 codes J09-11.8; US death rate 0.618 per 100K; NE, 1.783--	31
119.	2005	--	<b>influenza</b>	, ICD-10 codes J09-11.8; US death rate 0.613 per 100K; NE, 1.646--	29
120.	2006	--	<b>influenza</b>	, ICD-10 codes J09-11.8; US death rate 0.285 per 100K; NE, 0.790--	14
121.	2007	--	<b>influenza</b>	, ICD-10 codes J09-11.8; US death rate 0.14 per 100K; NE, 2.00	-- 36
122.	2008	--	<b>influenza</b>	, ICD-10 codes J09-11.8; US death rate 0.57 per 100K; NE, 2.00	-- 36
123.	2009	--	<b>diarrhoea/gastroenteritis</b>	, Infectious Origin; US death rate 0.9 per 100K; NE 1.3--	24

<sup>506</sup> Six snow removal related heart attacks, one exposure, two traffic deaths, one carbon monoxide poisoning deaths.

<sup>507</sup> Third highest state death rate in the US; SD had 8,86 and Maine had 8.70.

<sup>508</sup> Represented the highest death rate of any State for Influenza in 1976.

124.	2009 --	<b>influenza</b> (avian), ICD-10 code J09 (US death rate 0.5 per 100K); NE, 0.8	--	14
125.	2009 --	fall/winter especially, <b>H1N1 “Swine Flu”</b> (subset, over 12,000 US deaths)	--	14-15
126.	2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K, NE 1.0	--	19
127.	2011 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; NE, 1.0	--	18
128.	2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; NE, 1.1	--	21
129.	2012 --	exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for NE	--	11
130.	2012 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; NE, 0.8	--	14
131.	2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; NE, 1.3	--	24
132.	2013 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.2 per 100K; NE rate 2.2	--	41
133.	2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; NE, 1.4	--	26
134.	2014 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.4 per 100K; NE rate 2.1	--	39
135.	2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; IA 1.2	--	22
136.	2015 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100K; NE rate 3.9	--	74
137.	2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.7 per 100K; NE 1.0	--	20
138.	2016 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.9 per 100K; NE rate 1.0	--	19
139.	2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; NE death rate 3.49	--	67
140.	2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., NE rate 4.46	--	86
141.	2019 --	exposure to excessive natural <b>cold/hypothermia</b> ; subset of 1,115 US deaths	--	13
142.	2019 --	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, NE rate, 3.31 <sup>509</sup>	--	64
143.	2020 --	exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; NE	--	10
144.	2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.80 per 100K; NE death rate 1.86	--	36
145.	2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths/1,070 per 1M; NE, 853 per 1M pop.	--	1,651
146.	2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; NE, 1.7K per M	--	1,690
147.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; NE death rate 6.94	--	1,342

#### Some Select/Notable Other **Nebraska** Large Loss-of-Life Events:<sup>510</sup>

1860 --	<b>scarlet fever</b> (Neb. subset of 26,402 deaths in 38 Census States & DC)	--	10
1870 --	<b>diarrhoea</b> (26), <b>dysentery</b> (12), <b>enteritis</b> (25); data from U.S. Census	--	63
1870 --	<b>scarlet fever</b> , especially children; NE subset, 20,339 US scarlet fever deaths	--	90
1870 --	<b>tuberculosis</b> (Consumption) (Neb. subset of ~70,000 TB deaths nationwide)	--	87
1870 --	<b>typhoid fever</b> (Neb. subset of 22,187 typhoid fever deaths nationwide)	--	52
1874 --	<b>measles</b> epidemic, Omaha Nation, NE	--	76
1879 --	June-May 1880, <b>malarial fever</b> , (NE subset, 20,231 such deaths nationwide)	--	101
1879 --	June-May 1880, <b>measles</b> , esp. children (NE subset, 8,254 US measles deaths)	--	106
1879 --	June-May 1880, <b>meningitis</b> ; NE subset of 7,481 meningitis deaths nationwide	--	13
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (NE subset, 16,388 US S.F. deaths)	--	391
1879 --	June-May 1880, <b>tuberculosis</b> ; NE subset of 91,270 TB deaths nationwide	--	411
1881 --	<b>diphtheria</b> , Omaha (18)	--	18
1882 --	Jan 22-May 6, <b>smallpox</b> , Omaha, NE	--	16
1888 --	<b>measles</b> epidemic, Omaha Nation, NE	--	87
1889 --	<b>measles</b> epidemic, Omaha Nation, NE	--	50
1889-90,	June-May, <b>croup</b>	--	193

<sup>509</sup> 3<sup>rd</sup> highest state death rate, behind VT with 4.33 and OR at 3.67.

<sup>510</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.



**Nebraska (continued):**

1889-90, June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--	340
1894 -- <b>diphtheria</b> , Omaha, subset of ≥14,606 US diphtheria deaths	--	47
1897 -- <b>typhoid fever</b> , subset of >9,192 US typhoid deaths, Omaha, NE	--	25
1897 -- July 02-10, <b>excessive natural heat</b> (608-616 US Heat deaths), NE subset	--	6
1898 -- <b>typhoid</b> (subset of >4,627 deaths), Second & Third Neb, Vol. Inf., US camps <sup>511</sup>	--	65
1890 -- <b>typhoid fever</b> , Omaha (NE subset of ~30,000 typhoid deaths nationwide)	--	63
1900 -- <b>croup</b> , upper airway contagious viral infection; NE subset 12,484 US croup deaths--	--	66
1900 -- <b>diphtheria</b> (NE subset of 16,475 US diphtheria deaths in 1900)	--	162
1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	--	72
1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths), NE	--	96
1900 -- <b>measles</b> (subset of 12,866 US measles deaths), NE	--	50
1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths)	--	138
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	83
1900 -- <b>tuberculosis</b> (8,364 NE deaths all causes) (109,750 US tuberculosis deaths)	--	592
1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	--	105
1905 -- <b>tuberculosis</b> , Omaha; subset, 56,770 census area deaths (10 states/135 cities) <sup>512</sup>	--	101
1907 -- <b>typhoid fever</b> , Lincoln (17) and Omaha (30); ~13K US Census-area TF deaths	--	46
1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; NE	--	116
1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; two cities	--	26
1919 -- <b>diphtheria</b> (subset, 9,160 US diphtheria deaths); NE	--	63
1920 -- <b>diphtheria and croup</b> (subset of 13,395 US deaths, 34 registration states), NE	--	112
1920 -- <b>scarlet fever</b> (subset of 4,004 scarlet fever deaths in 34 registration states), NE	--	60
1920 -- <b>smallpox</b> (subset of 508 smallpox deaths in 34 registration states); NE	--	20
1920 -- <b>typhoid fever</b> (subset of 6,805 typhoid fever deaths, 34 registration states), NE	--	58
1920 -- <b>whooping cough</b> (subset, 10,968 whooping cough deaths in 34 reg. states), NE	--	246
1921 -- <b>polio</b> (Acute) esp. late summer-fall (subset, 1,597 U.S. polio deaths), NE	--	29
1925 -- <b>excessive natural cold</b> , subset of 239 US excessive cold deaths, NE	--	7
1925 -- <b>diphtheria</b> (subset, 8,058 US diphtheria deaths), NE	--	80
1925 -- <b>dysentery</b> (subset, 3,257 US dysentery deaths), NE	--	34
1925 -- <b>influenza</b> (subset, 30,538 US influenza deaths), NE	--	552
1925 -- <b>meningococcus meningitis</b> (subset, 1,095 US meningitis deaths), NE	--	13
1925 -- <b>scarlet fever</b> (subset of 2,762 US scarlet fever deaths, 48 states), NE	--	33
1925 -- <b>tuberculosis</b> (subset, 89,268 US tuberculosis deaths), NE	--	446
1925 -- <b>typhoid/paratyphoid fever</b> (subset, 8,287 US Typhoid Fever deaths), NE	--	38
1925 -- <b>whooping cough</b> (subset, 6,948 US whooping cough deaths), NE	--	80
1927 -- <b>polio</b> (acute) esp. late summer and fall (subset, 2,013 US polio deaths), NE	--	21
1931 -- <b>epidemic cerebrospinal meningitis</b> (Census term), 2,832 US deaths, NE subset	--	26
1931 -- <b>diphtheria</b> , especially children (subset, 5,738 U.S. diphtheria deaths), NE	--	48
1931 -- <b>influenza</b> (subset of 31,701 influenza deaths nationwide), NE	--	320
1931 -- <b>polio</b> , esp. July-Oct (subset of 2,139-2,144 U.S. polio deaths, esp. children), NE	--	12
1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths, NE	--	359
1933 -- Feb 08-09, Millard Hotel <b>fire</b> , firefighters killed by falling walls, Omaha, NE	--	7

<sup>511</sup> Sixteen military deaths were in Nebraska.

<sup>512</sup> Omaha had TB death rate of 83.8 deaths per 100,000 population. Census area average was 168.2.

**Nebraska (continued):**

1936 -- Feb 03-25, especially, arctic <b>cold waves, snowstorms</b> (273 US deaths), NE	--	6
1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (subset of 1,997 US diphtheria deaths), NE	--	15
1939 -- <b>influenza and pneumonia</b> (subset, 99,097 US influenza/pneumonia deaths), NE	--	912
1939 -- <b>tuberculosis</b> (subset of 61,609 tuberculosis deaths nationwide), NE	--	208
1939 -- <b>whooping cough</b> (subset of 3,026 whooping cough deaths nationwide), NE	--	15
1940 -- <b>influenza and pneumonia</b> (subset of 92,525 U.S. flu and pneumonia deaths), NE	--	781
1940 -- <b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); NE death rate 7.6	--	103
1940 -- <b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, NE rate 1.0	--	13
1944 -- Apr 06, <b>explosion</b> , Naval Ammunition Depot, near Hastings, NE	--	8
1944 -- <b>influenza</b> , esp. Jan-Apr, Dec (subset of 17,320 US influenza deaths), NE	--	233
1944 -- <b>whooping cough</b> (subset of 1,878 US whooping cough deaths), NE	--	19
1945 -- May 26, <b>explosion</b> , Pour Bldg., Cornhusker Ordnance Plant, Grand Island, NE	--	9
1948 -- Mar 23, <b>fire</b> , Ward's Rest & Convalescent Home for elderly, north Omaha, NE	--	8
1948 -- Nov 18-21, <b>winter storm</b> , near-blizzard and blizzard conditions	--	5-6
1949 -- Feb 12, <b>USAF B-17G Flying Fortress landing crash</b> , Offutt AFB, Omaha, NE	--	7
1950 -- <b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths, NE	--	19
1951 -- <b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths, NE	--	15
1951 -- <b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for NE	--	105
1952 -- <b>influenza</b> ; 5,649 US deaths; subset for NE	--	71
1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for NE	--	72
1952 -- Nov 25-26, <b>winter storm</b> (subset of approximately 38 US deaths), NE	--	9
1953 -- <b>heat</b> , excessive natural (code E931), 576 US heat deaths, esp. Aug 22-Sep 5; NE	--	5
1953 -- <b>influenza</b> ; 9,500 US deaths; NT subset	--	119
1953 -- <b>polio</b> , especially children (subset of 1,450 US polio deaths), subset for NE	--	10
1953 -- <b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for NE	--	64
1954 -- <b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; NE subset	--	42
1954 -- <b>tuberculosis</b> (respiratory); 15,146 US deaths; NE subset	--	48
1954 -- Jan 21, stove explodes, home <b>burns</b> , mother and 4 children die, Gordon, NE	--	5
1955 -- <b>tuberculosis</b> (respiratory); 13,676 US TB deaths; NE subset	--	50
1956 -- <b>measles</b> , 530 US deaths/21 states in double digits; NE subset	--	9
1956 -- <b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; NE subset	--	46
1957 -- <b>influenza</b> ; 7,463 US deaths; NE subset	--	95
1957 -- <b>tuberculosis</b> (respiratory); 12,384 US deaths; NE subset	--	63
1958 -- <b>influenza</b> ; 4,442 US deaths; NE subset	--	60
1958 -- <b>tuberculosis</b> ; 12,361 US TB deaths; NE subset	--	36
1959 -- <b>tuberculosis</b> ; 11,456 US TB deaths; NE subset	--	24
1960 -- <b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; NE death rate 2.1	--	29
1961 -- <b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; NE death rate 2.6	--	37
1962 -- <b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; NE death rate 1.8	--	26
1963 -- <b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; NE death rate 0.5	--	7
1963 -- <b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; NE death rate 1.0	--	15
1963 -- Jan 11-14, <b>cold wave, snow</b> ; road, shoveling snow, CO poisoning deaths, NE	--	6
1964 -- <b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; NE death rate 1.8	--	27
1965 -- <b>tuberculosis</b> , 7,934 US deaths/death rate 4.1 per 100K; NE death rate 1.8	--	27

**Nebraska (continued):**

1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for NE	--	24
1968 --	Mar 26, Jackson Hotel <b>fire</b> (mattress; inebriated woman with lit cigarette), Omaha	NE--	5
1968 --	Dec 29-Feb 1, A2 Hong Kong <b>influenza</b> -pneumonia epidemic, Lincoln, Omaha <sup>513</sup>	--	31
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; NE death rate 1.29	--	19
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; NE 0.67	--	10
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; NE death rate 0.79	--	12
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; NE 1.44 per 100K	--	22
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; NE death rate 0.65	--	10
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; NE rate 0.84	--	13
1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; NE rate 0.96	--	15
1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; NE rate 0.64	--	10
1981 --	June-Aug (especially), <b>heat</b> (ICD-9 E900 code for excessive natural heat), NE	--	6
1983 --	Dec 22 & 28 deaths, <b>winter weather</b> , severe cold/exposure deaths/snow/icy roads	--	7
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; NE rate 0.63	--	10
1986 --	Apr 14, <b>Hy Plains Dressed Beef Piper Navajo crash</b> after takeoff from Norfolk	AP--	5
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; NE death rate 0.96	--	15
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; NE rate 5.95	--	28
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; NE rate 1.84	--	29
1993 --	July 30, <b>Rockwell 690 on takeoff collides with Piper PA-28R on approach</b> , Norfolk, NE	--	5
1993 --	Oct 15, <b>First Nat. Bank of Valentine pleasure flight takeoff crash in fog</b> ~Stuart-Atkinson AP, NE	--	5
2010 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin; US and NE death rate 0.9 per 100K	--	16
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; NE rate 1.1	--	21
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; NE, 2.0	--	36
2012 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100,000; NE, 2.1	--	39
2013 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100,000; NE, 2.0	--	37
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; NE, 1.6	--	31
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; NE, 1.5	--	29
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; NE rate 0.9	--	17
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100,000; NE, 1.6	--	31
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; NE subset	--	10
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; NE subset	--	16
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; subset for NE	--	11
2020 --	<b>HIV/AIDS</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; NE subset	--	11
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; NE subset	--	13
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	379

**Breakout by Type of Nebraska Large Loss-of-Life Events (10 or more fatalities):**

- 93 -- **Disease**, select communicable, especially epidemics. (Plus 118 in "Other.")
- 13 -- **Winter Storms/cold**. (Plus 6 events noted with 5-9 deaths.)
- 12 -- **Aviation**. (Plus 4 events with 5-7 deaths each.)
- 11 -- **Heat**. (Plus 3 years 5-6 deaths: 6 in 1897, 5 in 1953 and 6 in 1981.)
- 7 -- **Tornadoes**.

<sup>513</sup> Birmingham, Mobile, and Montgomery. U.S. influenza epidemic death toll was 33,800.

**Nebraska (continued):**

- 3 -- **Flooding.**
- 3 -- **Rail.**
- 2 -- **Explosions.** (Plus two -- one with 9 fatalities and one with 8.)
- 2 -- **Fire/Structural.** (Plus 4 with 5-9 deaths: 7 in 1933, 8 in 1948, 5 in 1954, 5 in 1968.)
- 2 -- **Violence.**



## NV

## Nevada

1. 1869 -- Apr 07, Kentucky-Yellow Jacket Gold **Mine** fire, Gold Hill, NV -- 37
2. 1870 -- **scarlet fever**, especially children (NV subset of 20,339 deaths nationwide) -- 141
3. 1871 -- Sep 15, **fire**, Pioche, NV -- 13
4. 1874 -- July 24, rain, waterspout, **flooding**, Eureka, NV --20-30
5. 1867 -- Apr 18, **labor riot**, Silver Bend Mining Co., Belmont, NV -- 20
6. 1891 -- June 24, **mine** fire, Gould & Curry Gold/Silver Mine, Virginia City, NV -- 11
7. 1904 -- Feb 19, **trains collide, dynamite explodes**, Jackson Station, NV -- 24
8. 1911 -- Feb 23, Belmont Gold/Silver **mine** fire/asphyxiation, Tonopah, NV -- 17
9. 1911 -- Mar 11, **avalanche**, hydro-electric company plant employees, Jordan, NV -- 11
10. 1912 -- July 07, **dynamite explosion**, Eureka Pit Copper Mine, Ely, NV -- 10
11. 1918 -- **influenza and pneumonia** epidemic, NV --734-800
12. 1931 -- Summer, **excessive natural heat**, (NV subset, 2,768 U.S. deaths) -- 20
13. 1939 -- Aug 12, **sabotage**, *City of San Francisco* **derails**, Humboldt Riv. Gorge ~Harney, NV- 24
14. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); NV death rate 19.0 -- 21
15. 1942 -- Jan 16, **plane crash, TWA Flight 3**, Hits Potosi Peak, NV -- 22
16. 1943 -- Jan 02, **plane crash, U.S. Army Air Force B-17**, Elko, NV -- 10
17. 1943 -- May 31, **plane crash, USAAF C-67**, Smith Creek Valley, NV -- 11
18. 1944 -- Feb 25, **planes collide mid-air, USAAF**, Army Air Field, Las Vegas, NV -- 12
19. 1944 -- Oct 26, **planes collide, USAAF C-46A's**, Reno Army Air Base, NV -- 12
20. 1945 -- June 30, **USAAF TB-24J emergency landing crash**, Las Vegas Field, NV -- 11
21. 1946 -- Sep 5, **Trans-Luxury Airlines** charter hits ridge on AP approach in **fog/burns** ~Elko, NV--21
22. 1946 -- Oct 01, **USAAF B-29 Superfortress crash** in storm/burns, Buffalo Valley, NV--all 11
23. 1947 -- Dec 25, gas thrown on stove/**explos.**, Washoe tribe gambling house, Dresslerville, NV--14-15
24. 1955 -- Nov 17, **USAF plane crash**, Mount Charleston, NV -- 14
25. 1958 -- Apr 21, **United 736 & USAF F-100 fighter planes collide**, near Las Vegas, NV-- 49
26. 1959 -- **tuberculosis**; 11,456 US TB deaths; NV subset -- 21
27. 1961 -- **tuberculosis**, 9,938 US deaths/death rate 5.4 per 100k; NV death rate 5.7 -- 17
28. 1961 -- June 30, wrong-way, Cal. speeding **pickup** hits Cal. station wagon, Jean, NV<sup>514</sup>-- 11
29. 1962 -- **tuberculosis**; 9,508 US deaths/death rate 5.1 per 100K pop.; NV rate 6.0 -- 20
30. 1963 -- **tuberculosis**, 9311 US deaths/death rate 4.9 per 100K pop.; NV death rate 5.4-- 20
31. 1964 -- Mar 01, **Paradise Air Flight 901A plane crash** in snowstorm, Genoa Peak NV<sup>515</sup>--85
32. 1964 -- Nov 15, **Bonanza Air 114 plane crash** in snowstorm, near Las Vegas, NV -- 29
33. 1968 -- Jan 10, USN C54 **plane crash**, turbulent weather, Mt. Tobin, Copper Canyon, NV--all 19
34. 1970 -- Aug 03, **lightning, Navy P3A Orion turbulence breakup**, ~Searchlight, NV -- 10
35. 1973 -- **influenza**; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; NV 2.64 -- 15
36. 1976 -- **tuberculosis**; 3,130 US TB deaths/death rate 1.44 per 100K; NV rate 1.70 -- 11
37. 1978 -- Aug 30, **Las Vegas Airlines Flight 44 takeoff crash**, North Las Vegas, NV -- 10
38. 1980 -- Nov 21, **fire**, MGM Grand Hotel, Las Vegas, NV -- 85
39. 1985 -- Jan 21, **chartered Galaxy Air Flight 203 plane crash**, Reno NV -- 70
40. 1987 -- **HIV AIDS**, 13,468 deaths/US death rate 5.55 per 100K; NV death rate 5.66 -- 58
41. 1988 -- **tuberculosis**, 1,921 US TB deaths, death rate 0.78 per 100K; NV rate 0.93 -- 10
42. 1989 -- Feb 19, Las Vegas Flyers **Cessna 402 crash**, Santa Ana Mts. ~Corona, CA<sup>516</sup> -- 10

<sup>514</sup> Cross-listed in California in that all the fatalities were from California.

<sup>515</sup> Cross-listed in CA in that Paradise was a CA airline serving CA passenger trips to Lake Tahoe.

## Nevada (continued):

43. 1996 -- **tuberculosis**, subset 1,202 US TB deaths/death rate 0.45 per 100K; NV 0.72 -- 12
44. 1998 -- Sep 4, two USAF **Pave Hawk helicopters** (6&6) **collide at night**, Nellis Range NV-- 12
45. 1999 -- exposure to **excessive natural heat**, Clark County (Las Vegas area)/10, NV -- 12
46. 2001 -- **excessive natural heat**, especially Las Vegas Valley, NV (U.S. 538 subset) -- 19
47. 2002 -- exposure to **excessive natural heat**, esp. Clark County (Las Vegas area)/28, NV-- 30
48. 2003 -- exposure to **excessive natural heat**, Clark County (Las Vegas area), NV -- 21
49. 2004 -- June-Aug especially, **excessive natural heat**, Las Vegas Valley, NV -- 14
50. 2005 -- exposure to **excessive natural heat**, especially Las Vegas area, NV -- 45
51. 2006 -- exposure to **excessive natural heat**, Clark County (Las Vegas area), NV -- 31
52. 2006 -- Oct 31, **arson fire**, Mizpah Hotel, North Lake St., Reno, NV -- 12
53. 2007 -- exposure to **excessive natural heat** esp. June 26-Aug 16, Las Vegas Valley, NV-- 24
54. 2008 -- exposure to **excessive natural heat**; 502 US deaths, esp. Clark County/34, NV-- 35
55. 2009 -- exposure to **excessive natural heat**; 555 US deaths, esp. Clark County, NV -- 17
56. 2009 -- **influenza (avian)**, ICD-10 code J09 (US death rate 0.5 per 100K); NV, 0.9 -- 24
57. 2009 -- **H1N1 Swine Flu**, especially fall-winter, (subset of >12,000 U.S. deaths) --36-44
58. 2010 -- **excessive natural heat**, esp. June 04-Aug 06, especially Las Vegas Valley, NV-- 46
59. 2010 -- **viral hepatitis**, ICD-10 code B15-B19; US death rate 2.4 per 100K; NV, 3.4 -- 93
60. 2011 -- **diarrhoea and gastroenteritis** of infections origin (ICD-10 code A09)<sup>517</sup> -- 35
61. 2011 -- exposure to **excessive natural heat**, 1,060 US deaths, esp. Clark County, NV -- 22
62. 2011 -- **viral hepatitis**, ICD-10 code B15-19, US death rate 2.5 per 100K; NV, 3.6 -- 97
63. 2011 -- Sep 16, National Championship **Air Race plane crash**, Grandstand, Reno, NV-- 11
64. 2012 -- exposure to **excessive natural heat**, especially Clark County (17), NV -- 23
65. 2012 -- **viral hepatitis**, ICD-10 code B-15-B19, US death rate 2.6 per 100,000; NV 3.8 -- 105
66. 2013 -- **excessive natural heat**; 651 US deaths, NV subset, esp. Clark County (73), NV-- 80
67. 2013 -- **viral hepatitis**, ICD-10 code B-15-B19; US death rate 2.6 per 100,000; NV 4.0 -- 111
68. 2014 -- exposure to **excessive natural heat**, especially greater Las Vegas, NV -- 29
69. 2014 -- **viral hepatitis**, ICD-10 code B15-B19, US death rate 2.5 per 100K; NV, 3.7 -- 104
70. 2015 -- **diarrhoea and gastroenteritis** of infections origin (ICD-10 code A09)<sup>518</sup> -- 31
71. 2015 -- exposure to **excessive natural heat**; 567 US deaths; esp. Clark County/62, NV-- 69
72. 2015 -- **viral hepatitis**, ICD-10 code B15-B19; US death rate 2.3 per 100K; NV, 2.8 -- 81
73. 2016 -- **diarrhoea and gastroenteritis** of infections origin (ICD-10 code A09)<sup>519</sup> -- 26
74. 2016 -- **HIV AIDS**, 6,160 US deaths/death rate 1.9 per 100,000; NV rate 2,3 -- 68
75. 2016 -- **influenza**, ICD-10 codes J09-J11; US death rate 0.9 per 100K; NV rate 1.0 -- 28
76. 2016 -- **viral hepatitis**, ICD-10 code B15-B19; US death rate 2.0 per 100K; NV, 3.0 -- 89
77. 2016 -- exposure to **excessive natural heat**, especially Las Vegas Valley, NV -- 89
78. 2017 -- exposure to **excessive natural cold/hypothermia**, 804 US deaths subset, NV -- 12
79. 2017 -- exposure to **excessive natural heat**; 817 US deaths, esp. Clark Co. (135) -- 235
80. 2017 -- **HIV/AIDS**; 5,698 US deaths/death rate 1.75 per 100K; NV death rate 1.93 -- 58
81. 2017 -- Oct 1, **shooting**, hotel 32<sup>nd</sup> floor, Country Music Concert, Las Vegas, NV<sup>520</sup> --58-59

<sup>516</sup> Cross-listed in California where the crash took place. Listed here in that passengers and pilot lived in Las Vegas.

<sup>517</sup> National death rate was 0.9 per 100,000. NV had above average death rate of 1.3.

<sup>518</sup> National death rate was 0.8 per 100,000. NV had above average death rate of 1.1.

<sup>519</sup> National death rate was 0.7 per 100,000. NV had above average death rate of 0.9.

<sup>520</sup> Fifty-nine fatalities including shooter who committed suicide after killing fifty-eight people; wounded hundreds.

82. 2018 -- exposure to <b>excessive natural cold/hypothermia</b> ; subset of 1,028 US deaths	--	12
83. 2018 -- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; Clark Co., 163, NV	--	168
84. 2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; NV death rate 2.14	--	65
85. 2019 -- exposure to <b>excessive natural cold/hypothermia</b> ; subset of 1,115 US deaths	--	13
86. 2019 -- <b>excessive heat</b> from natural sources; 915 US deaths/death rate 0.27, NV 2.86	--	88
87. 2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; NV rate 1.72	--	53
88. 2019 -- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, NV 1.46 rate	--	45
89. 2020 -- exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; NV	--	14
90. 2020 -- exposure to <b>excessive natural heat</b> ; 1,174 US deaths, Clark County, NV alone	--	124
91. 2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; NV 2.04	--	64
92. 2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); NV, 1,015 per 1M pop.	--	3,125
93. 2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; NV, 2.7K per M	--	5,295
94. 2021 -- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for NV	--	166
95. 2021 -- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; NV death rate 1.84	--	58
96. 2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; NV death rate 10.81	--	3,331
97. 2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for NV	--	116
98. 2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths; subset for NV	--	208

#### Some Select/Notable Other **Nevada** Large Loss-of-Life Events:<sup>521</sup>

1870 -- <b>tuberculosis</b> (Consumption) (NV subset of ~70,000 TB deaths nationwide)	--	30
1873 -- Sep 20, fire, Yellow Jacket gold <b>mine</b> , Gold Hill, NV	--	6
1879 -- June-May, 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths), NV	--	17
1879 -- June-May 1880, <b>scarlet fever</b> , esp. children (NV subset, 16,388 US S.F. deaths)	--	18
1879 -- June-May 1880, <b>typhoid fever</b> (NV subset of 23,339 U.S. typhoid deaths)	--	17
1889-90 -- June 1, 89-May 31, 90, <b>diphtheria</b> ; NV subset of 27,815 U.S. diphtheria deaths	--	10
1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths)	--	10
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	29
1900 -- <b>tuberculosis</b> (438 NV deaths all causes) (109,750 US tuberculosis deaths); NV	--	56
1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths	--	101
1940 -- <b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, NV, 2.7	--	5
1945 -- Jan 6, <b>USAAF C-46 Commando engine fire</b> , wing loss and crash 20M W of Fallon	--	5
1951 -- <b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for NV	--	53
1952 -- <b>polio</b> , subset of ~3,300 US polio deaths	--	6
1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for NV	--	19
1953 -- <b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for NV	--	19
1954 -- <b>tuberculosis</b> (respiratory); 15,146 US deaths; subset for NV	--	22
1955 -- <b>tuberculosis</b> (respiratory); 13,676 US deaths; subset for NV	--	30
1956 -- <b>tuberculosis</b> (respiratory), 12,978 US deaths; subset for NV	--	19
1957 -- <b>tuberculosis</b> (respiratory); 12,384 US deaths; subset for NV	--	20
1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia pandemic</b> (US 116K)	--	64
1958 -- <b>tuberculosis</b> ; 12,361 US TB deaths; NV subset	--	18
1960 -- <b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; NV death rate 4.6	--	29

<sup>521</sup> We include in "Other" two categories: (1) events wherein fewer than 10 lives were lost, but which we take note, and (2) diseases that caused more than ten lives lost, but perhaps not at an epidemic level (subjective judgement) and generally below US or "Registration Area" average death rate when we have those statistics.

**Nevada (continued):**

1961 -- June 17, <b>automobiles</b> collide head-on near Lovelock, NV	--	6
1964 -- <b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; NV death rate 3.7	--	15
1965 -- <b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; NV death rate 3.9	--	17
1966 -- <b>tuberculosis</b> , 7,625 US TB deaths; subset for NV	--	10
1967 -- Jan 06, suicide and homicide <b>bomb explosion</b> , Orbit Inn Motel, Las Vegas, NV	--	6
1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; NV 1.15--	6	
1971 -- <b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; NV/1.54	--	8
1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; NV 3.4--	22	
1980 -- Jan 3, <b>Piper PA-32R plane crash</b> north of Las Vegas, NV	--	all 5
1984 -- Sep 10, <b>flash flood</b> , family truck swept away ~15 miles W of Las Vegas, NV	--	5
1985 -- summer <b>heat</b> (ICD-900 code for excessive heat/hyperthermia) subset of 227	--	9
1986 -- private <b>Cessna TU206G runs out of fuel and crashes</b> , Jean, NV	--	6
1988 -- <b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; NV, 5.95	--	64
1989 -- <b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; NV rate 7.55	--	86
1991 -- July 24, <b>US Dept. of Energy security helicopter crash</b> into power line ~Mercury NV--	5	
1992 -- Jan 11, <b>Cessna 425 crash</b> , inclement weather, pilot spatial disorientation, Las Vegas NV--	7	
2009 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.9 per 100K; NV, 0.9	--	25
2010 -- <b>diarrhoea and gastroenteritis</b> of infectious origin; 0.9 NV and US death rate	--	24
2011 -- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; NV, 0.5	--	13
2012 -- <b>diarrhoea and gastroenteritis</b> of infectious origin (ICD-10 code A09) NV	--	12
2013 -- <b>diarrhoea and gastroenteritis</b> of infectious origin (ICD-10 code A09) <sup>522</sup> NV	--	18
2013 -- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.2 per 100,000; NV rate 0.5	--	13
2013 -- Mar 18, <b>mortar explosion</b> , Marines, Hawthorne US Army munitions depot, NV	--	7
2014 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US and NV death rate 0.8 per 100K	--	23
2014 -- <b>influenza</b> , ICD-10 codes J09-11; US avg. death rate 1.4 per 100,000; NV rate 0.8	--	23
2015 -- <b>influenza</b> , ICD-10 codes J09-11; US avg. death rate 1.6 per 100,000, NV rate 0.9	--	27
2017 -- <b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; NV death rate 0.97	--	29
2018 -- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., NV death rate 1.94--	59	
2020 -- <b>influenza</b> ; <sup>523</sup> 5,943 US deaths/death rate 1.8 per 100K; NV death rate 1.34	--	42
2023 -- <b>COVID-19</b> , subset of 71,691 US deaths	--	543

**Breakout by Type of Nevada Large-Loss-of-Life Events (10 or more fatalities):**

- 31 -- **Disease**, especially communicable, especially epidemics. (Plus 44 in "Other.")
- 24 -- **Heat** (Plus 1 – 9 deaths in 1985.)
- 19 -- **Aviation**. (Plus 5 incidentally noted with 5-7 deaths.)
- 4 -- **Winter Weather/Cold/Hypothermia**.
- 4 -- **Violence** (One is cross-listed in Rail (sabotage; plus 6 deaths in 1967 dynamite explos.).
- 3 -- **Explosions**. (Plus one with 7 fatalities in "Other.")
- 3 -- **Fire, structural**
- 3 -- **Mining**. (Plus 1 event <10 deaths: 6 in 1873.)
- 2 -- **Rail** (One is cross-listed in Violence (sabotage).

<sup>522</sup> National death rate was 0.8 per 100,000. NV had below average death rate of 0.6.

<sup>523</sup> Distinct from 47,601 pneumonia deaths in 2020 (ICD codes J12-J18).



**Nevada (continued):**

- 1 -- **Avalanche**
- 1 -- **Flooding**. (Plus 1 year <10 deaths: 5 in 1984.)
- 1 -- **Fog as a contributing factor.**
- 1 -- **Vehicular/Road/Highway**. (Plus one with 6 fatalities.)

## NH

## New Hampshire

1. 1689 -- Jun 27, **massacre**, Penacook attack English colonists, Cochecho (Dover) NH -- 23
2. 1689 -- Aug 28, **massacre**, Natives attack settlers from Huckin's garrison, NH --21-22
3. 1690 -- Mar 18, **massacre**, French & Indians attack settlers, Salmon Falls, NH<sup>524</sup> -- 30
4. 1691 -- Sep 29, **massacre**, Indians attack English settlers, Sandy Beach (now Rye), NH-- 13
5. 1694 -- July 18, **massacre**, Abenaki attack settlers, Oyster Riv. Plantation, Durham -- 15
6. 1696 -- June 26, **massacre**, Natives attack English settlers, Portsmouth Plains, NH -- 14
7. 1735-38 -- **diphtheria**, esp. Durham/Exeter/Hampton Falls/Kingston/Portsmouth-1,040-1,500
8. 1742 -- Aug-Jan 1743 (esp.), "Throat Ail" (**diphtheria**), Greenland & esp. Stratham -- 97
9. 1745 -- "Throat Distemper" (**diphtheria**), Hampton and especially Kensington/16, NH-- 21
10. 1747 -- "Throat Distemper" (**diphtheria**), mostly children, Kensington, NH --48-52
11. 1753 -- "Throat Distemper" (**diphtheria**), Exeter, Stratham and Rye, NH -- ~72
12. 1754-55, Jan '54-July '55 -- "Throat Distemper" (**diphtheria**), esp. children, Hampton -- 51
13. 1797 -- Summer-Fall, **dysentery**, Hanover, NH -- 24
14. 1798 -- **yellow fever** outbreak, Portsmouth, NH -- 100
15. 1799 -- Sum-Fall, **dysentery**, especially children, Hanover and adjacent towns, NH --20-30
16. 1800 -- Sum., **dysentery** outbreak, esp. children, esp. Francestown & Hanover NH --103-113
17. 1811 -- Dec (especially), "**spotted fever**" (**meningitis?**) esp. Ridge (7), NH<sup>525</sup> --  $\geq 10$
18. 1812 -- Feb-Apr (esp.) "**spotted fever**" (**meningitis?**) esp. Acworth & Antrim NH --133-147
19. 1849 -- Summer-Fall, **cholera**, NH -- 47
20. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571-- 578
21. 1850 -- **scarlet fever**; subset 9,584 such deaths 36 States/Territories/DC (average 266)-- 205
22. 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) -- 924
23. 1851 -- Apr 10, fishing schooner **Harvest Home** of Newcastle, NH, lost at sea -- 10
24. 1851 -- Oct 3-4, storm, Portsmouth **fishing schooners** lost, Prince Edward Island CA -- 20
25. 1860 -- **scarlet fever** (NH subset, 26,402 deaths in 38 Census States & DC) -- 169
26. 1860 -- **smallpox** (State subset of 1,263-1,271 smallpox deaths in reporting States) -- 22
27. 1860 -- **tuberculosis**, NH subset (leading cause of NH deaths), 49,082 US deaths --1,163
28. 1860 -- **typhoid fever**; NH subset (3<sup>rd</sup> leading cause NH deaths), 19,236 US deaths -- 239
29. 1870 -- **typhoid fever** (NH subset of 22,187 typhoid fever deaths nationwide) -- 302
30. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 US deaths) -- 354
31. 1879 -- June-May 1880, **scarlet fever**, esp. children (subset, 16,388 US S.F. deaths) -- 138
32. 1881 -- Jan 07, **fire**, Strafford County Farm (for paupers), near Dover, NH --13-15
33. 1887 -- **diphtheria**, statewide NH -- 177
34. 1889-90, June-May, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; NH<sup>526</sup> -- 230
35. 1893 -- Feb 09, **fire**, Strafford County Workhouse, near Dover, NH -- 41
36. 1896 -- **measles**, Nashua (6), Manchester (3), Peterborough (1), NH --  $\geq 10$
37. 1897 -- **typhoid fever**, subset of >9,192 US typhoid deaths -- 137
38. 1897 -- July 07-10, **excessive heat** (608-616 US Heat deaths), NH subset -- 11
39. 1898 -- July 04, **tornado/squall**, Hampton Beach, NH -- 9-12
40. 1901 -- June-July (especially), **heatwaves** (subset of 4,012 US heat deaths) -- 21
41. 1905 -- **cerebrospinal meningitis**; 5,114 in US; highest NH CM death rate ever -- 139

<sup>524</sup> There were apparently several fatalities across the river in Berwick, Maine, but majority were in Salmon Falls.

<sup>525</sup> Noted in that this was first "spotted fever" outbreak to reach epidemic proportions in NH.

<sup>526</sup> U.S. average diphtheria death rate was 33.06 per 1,000 deaths; NH was 33.62; Dover was 137.55.

### New Hampshire (continued):

42.	1907 -- Sep 15, freight and passenger <b>trains collide</b> in dense fog ~West Canaan, NH	--	25
43.	1913 -- <b>measles</b> , 8,108 US "registration area" (65.1%) deaths; NH <sup>527</sup>	--	54
44.	1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; NH rate 8.4	--	37
45.	1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; NH, 32.6	--	145
46.	1918-1919 -- <b>influenza and pneumonia</b> epidemic, NH		--3,024
	1918 -- <b>influenza and pneumonia</b> epidemic, NH		--2,000
	1919 -- <b>Influenza and Pneumonia</b> epidemic, NH		--1,024
47.	1920 -- <b>influenza and pneumonia</b> epidemic, NH		-- 883
48.	1938 -- Sep 21, <b>New England Hurricane "Long Island Express,"</b> subset for NH		--12-14
49.	1939 -- May 23, submarine <b>Squalus</b> sinks in test dive 16 miles off Portsmouth, NH		-- 26
50.	1940 -- <b>influenza and pneumonia</b> ; NH subset, 92,525 US flu and pneumonia deaths		-- 355
51.	1941 -- June 19, USS <b>0-9 (SS-70)</b> lost, deep submergence test off Isle of Shoals, NH		-- 33
52.	1942 -- Jan 8, Army minelayer <b>General Richard Arnold</b> capsizes, storm off Isles of Shoals, NH		--10
53.	1942 -- Nov 28, <b>fire</b> /trampling/suffocation, Coconut Grove Nightclub, Boston MA <sup>528</sup>		--10-11
54.	1944 -- Apr 24, <b>plane crash</b> , USAAF B-24H, near Epsom, NH		-- 10
55.	1944 -- Nov 29, <b>plane crash</b> , USAAF B-24 Liberator, Middle Mt., Nottingham, NH		-- 9-10
56.	1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia pandemic</b> (US 116K)		-- 211
57.	1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; NH death rate 5.1		-- 31
58.	1963 -- <b>influenza</b> , 7,083 US deaths <sup>529</sup> /death rate 3.8; NH death rate 5.6		-- 35
59.	1965 -- <b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; NH death rate 2.2		-- 15
60.	1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; NH 4.2		--30
61.	1968 -- Oct 25, <b>plane approach crash/fog</b> , Northeast Air 946, Moose Mt., NH		-- 32
62.	1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; NH 3.3		--24
63.	1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; NH 3.4		-- 25
64.	1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; NH 3.33		-- 26
65.	1975 -- <b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; NH, 3.0		-- 25
66.	1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; NH 5.8		-- 49
67.	1978 -- <b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; NH death rate 2.35		-- 21
68.	1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K; NH rate 2.39		-- 22
69.	1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K; NH rate 2.03		-- 19
70.	1983 -- <b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K; NH rate 1.77		-- 17
71.	1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K; NH rate 1.40		-- 14
72.	1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K; NH rate 1.95		-- 20
73.	1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; NH rate 1.11		-- 12
74.	1990 -- <b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; NH rate 1.26		-- 14
75.	1994 -- <b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; NH rate 0.96		-- 11
76.	1998 -- <b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; NH rate 1.91		-- 23
77.	1999 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; NH, 1.391		-- 17
78.	2000 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; NH, 2.045		-- 15
79.	2005 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; NH, 0.847		-- 11
80.	2008 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; NH, 0.99		-- 13

<sup>527</sup> NH went from 1912 measles death rate of 4.4 per 100,000 population to 12.4 measles deaths per 100K in 1913.

<sup>528</sup> Cross-listed in New Hampshire in that 10-11 NH residents were among the 498 fatalities.

<sup>529</sup> Distinct from the 63,678 pneumonia deaths noted in the next column in Table 1-12.

81. 2009 -- fall/winter especially, <b>H1N1 Swine Flu</b> ;	NH subset of >12,000 U.S. deaths	--	10
82. 2010 -- <b>diarrhoea/gastroenteritis</b> ,	infectious origin; US death rate 0.9 per 100K, NH, 1.5--		20
83. 2012 -- <b>influenza</b> ,	ICD-10 codes J09-J11.8; US death rate 0.4 per 100K; NH rate 1.3	--	17
84. 2013 -- <b>diarrhoea/gastroenteritis</b> ,	<b>infectious origin</b> ;	US death rate 0.8 per 100k, NH, 1.0--	13
85. 2013 -- <b>influenza</b> ,	ICD-10 codes J09-J11.8; US death rate 1.2 per 100K; NH rate 2.2	--	29
86. 2014 -- <b>viral hepatitis</b> ,	ICD-10 code B15-B19, US death rate 2.5 per 100K; NH, 2.6	--	35
87. 2015 -- <b>influenza</b> ,	ICD-10 codes J09-J11.8; US death rate 1.6 per 100K; NH rate 3.4	--	45
88. 2016 -- <b>influenza</b> ,	ICD-10 codes J09-J11.8; US death rate 0.9 per 100K; NH rate 1.3	--	18
89. 2017 -- <b>influenza</b> ;	6,515 US deaths/death rate 2.0 per 100K pop.; NH death rate 3.13	--	42
90. 2018 -- <b>influenza</b> ,	ICD codes J09-11.8/death rate 3.41 per 100K pop., NH rate 4.50	--	61
91. 2019 -- exposure to <b>excessive natural cold, hypothermia</b> ;	subset of 1,115 US deaths	--	10
92. 2019 -- <b>influenza</b> ;	subset of 5,902 US deaths, 1.08 death rate per 100K, NH rate 2.57	--	35
93. 2020 -- <b>COVID-19</b> ;	354,215 US Covid deaths (1,070 per 1M); NH, 558 per 1M pop.	--	759
94. 2021 -- <b>COVID-19</b> ;	437,984 US deaths/2.6K deaths per 1M pop.; NH, 1.4K per M	--	1,202
95. 2022 -- <b>COVID-19</b> ;	217,370 US deaths/death rate 6.50; NH death rate 6.60	--	898

### Some Select/Notable Other **New Hampshire** Large Loss-of-Life Events:<sup>530</sup>

1789-90 -- Fall-Spring, <b>influenza epidemic</b> ;	CT, ME, MA, NH, NY, Philadelphia, RI <sup>531</sup>	--	Many
1803 -- <b>yellow fever</b>	outbreak, Portsmouth, NH	--	10
1826 -- Aug 18, <b>landslide</b> ,	Crawford Notch, White Mountains, NH	--	9
1850 -- <b>croup</b> ;	subset, 10,706 deaths/36 States/DC/Territories, and 4,281 NH deaths	--	75
1850 -- <b>measles</b> ;	subset 2,988 US measles deaths (average was 83 per State/Ter.), NH	--	27
1850 -- <b>smallpox</b> ;	subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	--	42
1850 -- <b>whooping cough</b> ,	subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	--	12
1860 -- <b>croup</b> (contagious upper airway viral infection),	subset, 15,188 US croup deaths	--	72
1860 -- <b>whooping cough</b>	(NH subset of 8,408 whooping cough deaths nationwide)	--	48
1870 -- <b>diarrhoea</b> (49), <b>dysentery</b> (71), <b>enteritis</b> (57);	data from U.S. Census	--	177
1870 -- <b>scarlet fever</b> ,	especially children (NH subset of 20,339 deaths nationwide)	--	96
1870 -- <b>tuberculosis</b> (consumption);	subset of ~70,000 US TB deaths, NH	--	953
1879 -- June-May 1880, <b>croup</b> ,	esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	72
1879 -- June-May 1880, <b>measles</b> ,	esp. children (NH subset, 8,254 U.S. measles deaths)	--	37
1879 -- June-May 1880, <b>meningitis</b>	(NH subset of 7,481 meningitis deaths nationwide)	--	44
1879 -- June-May 1880, <b>tuberculosis</b>	(NH subset of 91,270 TB deaths nationwide)	--	865
1879 -- June-May 1880, <b>typhoid fever</b>	(NH subset of 23,339 U.S. Typhoid deaths)	--	117
1889-90, June-May, <b>croup</b> ,	NH	--	96
1889-90, June-May, <b>measles</b> ,	subset of 9,256 US measles deaths, NH	--	16
1889-90, June-May, <b>typhoid fever</b> ,	subset of 27,058 US typhoid deaths, NH	--	140
1894 -- <b>diphtheria</b> ,	NH subset of ≥14,606 US diphtheria deaths	--	117
1898 -- <b>typhoid fever</b>	(NH subset of >4,627 deaths), First NH Volunteer Inf., US camps <sup>532</sup>	--	44

<sup>530</sup> We include in “Other” two categories: (1) events wherein fewer than 10 lives were lost, but of note, and (2) diseases not at an epidemic level and generally below US or “Registration Area” average death rate.

<sup>531</sup> Sources consulted do not provide an estimate. Kohn (“New England Influenza Epidemic of 1789,” *Encyclopedia of Plague and Pestilence*), writes it was widespread in states we note, affected thousands/Fall of 1789, lasted about 4-6 weeks in each place in the first (1789) wave, was “particularly harsh on the elderly and chronically ill,” and that there were especially “many” deaths from the derivative pneumonia. Notes the “case-mortality is believed to have been less than 50 percent during the epidemic.” If there were thousands of cases, there would be many deaths.



**New Hampshire (continued):**

1900 --	<b>croup</b> (upper airway contagious viral infection; NH subset, 12,484 croup deaths)	--	42
1900 --	<b>diphtheria</b> (NH subset of 16,475 US diphtheria deaths in 1900)	--	65
1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	--	29
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths)	--	185
1900 --	<b>measles</b> (subset of 12,866 US measles deaths)	--	45
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths)	--	180
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	10
1900 --	<b>tuberculosis</b> (7,400 NH deaths all causes) (109,750 US tuberculosis deaths)	--	627
1900 --	<b>typhoid fever</b> (NH subset of 35,379 typhoid fever deaths nationwide)	--	69
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths), NH	--	78
1900 --	July-Aug (especially), <b>excessive natural heat</b> ; subset of 1,266 US heat deaths, NH--		4
1904 --	<b>epidemic cerebrospinal meningitis</b> (US Census term); 3,284 such deaths in US	--	14
1905 --	<b>tuberculosis</b> , subset, 56,770 registration area deaths (10 states/135 cities) <sup>533</sup>	--	579
1906 --	<b>epidemic cerebro-spinal meningitis</b> ; 3,258 in US registration area; NH	--	84
1907 --	<b>influenza</b> (NH subset of over 10,066 deaths in "registration" areas) <sup>534</sup>	--	183
1907 --	<b>typhoid fever</b> , NH subset of ~13K US Census-area typhoid fever deaths	--	52
1910 --	<b>polio</b> , mostly children (NH subset; 1,635 US polio deaths in 1910)	--	19
1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; NH rate 10.7	--	46
1913 --	<b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, NH	--	21
1915 --	<b>polio</b> ; 691 registration area deaths (67.1% population); subset for NH	--	9
1920 --	<b>diphtheria and croup</b> (NH subset, 13,395 such deaths in 34 registration states)	--	52
1920 --	<b>measles</b> (NH subset of 7,712 measles deaths in 34 registration states)	--	40
1920 --	<b>scarlet fever</b> (NH subset of 4,004 scarlet fever deaths in 34 registration states)	--	9
1920 --	<b>typhoid fever</b> (NH subset of 6,805 typhoid fever deaths in 34 registration states)	--	30
1920 --	<b>whooping cough</b> (NH subset, 10,968 whooping cough deaths in 34 reg. states)	--	36
1925 --	<b>diphtheria</b> (NH subset, 8,058 US diphtheria deaths)	--	30
1925 --	<b>excessive heat</b> (NH subset of 1,587 US excessive heat deaths; US Census Bureau)--		6
1925 --	<b>influenza</b> (NH subset, 30,538 US influenza deaths)	--	227
1925 --	<b>scarlet fever</b> (NH subset of 2,762 US scarlet fever deaths, 48 states)	--	15
1925 --	<b>tuberculosis</b> (NH subset, 89,268 US tuberculosis deaths)	--	297
1925 --	<b>typhoid/paratyphoid fever</b> (NH subset, 8,287 US typhoid fever deaths)	--	15
1925 --	<b>whooping cough</b> (NH subset, 6,948 US whooping cough deaths)	--	28
1927 --	<b>polio</b> (acute) esp. late summer and fall (NH subset, 2,013 US polio deaths)	--	13
1931 --	<b>diphtheria</b> , especially children (NH subset, 5,738 U.S. diphtheria deaths)	--	14
1931 --	<b>influenza</b> (NH subset of 31,701 influenza deaths nationwide)	--	122
1931 --	<b>measles</b> , especially children (NH subset, 3,576 measles deaths nationwide)	--	20
1931 --	<b>polio</b> , esp. July-Oct, esp. children; 2,139-2,144 US polio deaths; subset for NH	--	10
1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--	246
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; NH, 2.4	--	11
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); NH death rate 11.4	--	58
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, NH, 2.0	--	10

<sup>532</sup> At least fourteen military deaths were in New Hampshire.

<sup>533</sup> NH had TB death rate of 134.9 per 100,000 population. Census area average was 168.2.

<sup>534</sup> With death rate of 42.0 per 100K in registration States, only CT (44.2) and VE (51.5), had a higher death rate.

**New Hampshire (continued):**

1944 --	<b>influenza</b> (NH subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	--	77
1946 --	<b>polio</b> , especially July-Nov, especially children (NH subset 1,845 US polio deaths)	--	15
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	--	9
1951 --	<b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for NH	--	58
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for NH	--	15
1952 --	<b>polio</b> , mostly children (NH subset, 3,000-3,300 US polio deaths in 1952)	--	10
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for NH	--	42
1953 --	<b>influenza</b> ; 9,500 US deaths; subset for NH	--	15
1953 --	<b>polio</b> , 1,450 US polio deaths; subset for NH	--	5
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; NH subset	--	34
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; NH subset	--	28
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US deaths; NH subset	--	24
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; NH subset	--	23
1957 --	<b>influenza</b> ; 7,463 US deaths; NH subset	--	22
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; NH subset	--	17
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; NH subset	--	26
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; NH subset	--	22
1959 --	July 22, USAF KC-97 <b>plane explosion and crash</b> , near East Andover, NH	--	7
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; NH death rate 2.8	--	17
1960 --	Dec 07, <b>truck</b> carrying bottled gas (4 killed) hit by <b>train</b> (2), near Nashua, NH	--	6
1960 --	Dec 12-13, Northeast <b>snowstorm/blizzard/cold</b> ; exposure, heart attacks, accidents	--	8-9
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; NH death rate 2.1	--	13
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; NH death rate 2.7	--	17
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; NH death rate 2.2	--	14
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; NH death rate 1.2	--	8
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; NH death rate 2.0	--	13
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for NH	--	13
1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for NH	--	10
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; NH 1.2	--	9
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; NH 1.49	--	11
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; NH death rate 1.28	--	10
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; NH	--	17
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; NH death rate 1.42	--	12
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; NH death rate 1.23	--	13
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; NH rate 2.21	--	24
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; NH rate 1.81	--	20
2002 --	Sep 02, <b>Private Beechcraft with landing gear and engine problems crash</b> , Swanzey NH	--	7
2009 --	<b>diarrhoea/gastroenteritis</b> of infections origin; US death rate 0.9 per 100K; NH, 0.9	--	12
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; NH rate 1.2	--	16
2011 --	<b>diarrhoea and gastroenteritis</b> of infections origin (ICD-10 code A09) <sup>535</sup>	--	10
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; NH rate 1.4	--	19
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; NH, 2.0	--	26
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; NH, 1.3	--	17

<sup>535</sup> National death rate was 0.9 per 100,000. NH had below average death rate of 0.8.

2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; NH, 2.2	--	29
2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US & NH death rate 0.7 per 100K	--	10
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; NH rate 1.0	--	14
2019 --	June 21, <b>pickup</b> truck crashes into ten motorcycles, U.S. 2, Randolph, NH	--	7
2020 --	<b>influenza</b> ; <sup>536</sup> 5,943 US deaths/death rate 1.8 per 100K; NH death rate 1.68	--	23
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	263

**Breakout by Type of **New Hampshire** Large-Loss-of-Life Events (10 or more fatalities):**

72 --	<b>Disease</b> , select communicable, especially epidemics. (Plus 105 in "Other.")
6 --	<b>Violence</b> .
5 --	<b>Maritime and Inland Waterways</b> .
3 --	<b>Aviation</b> . (Plus 2 with seven deaths each in 1959 and 2002.)
3 --	<b>Fire</b> , structural.
2 --	<b>Heat</b> . (Plus 2 years >10 deaths: 4 in 1900 and 6 in 1925.)
1 --	<b>Fog as a contributing condition</b> . (Plane crash in 1968.)
1 --	<b>Hurricane</b> .
1 --	<b>Rail</b> .
1 --	<b>Tornado</b> .
1 --	<b>Winter weather/Cold/Hypothermia</b> . (Plus 8-9 deaths in Dec 1960 snowstorm.)
0 --	<b>Landslide</b> (one with nine deaths in "Other.")
0 --	<b>Vehicular</b> -- Road/Highway. (But 6 deaths in Dec 1060 and 7 deaths on 6-21-2019.)

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<sup>536</sup> Distinct from 47,601 pneumonia deaths in 2020 (ICD codes J12-J18).

## NJ

## New Jersey

1. 1637 -- **massacre** of Lenni-Lenape at Pavonia (near present day Jersey City, NJ) -- 80
2. 1643 -- Feb 25, New Amsterdam Dutch **massacre** Natives, Pavonia [NJ]<sup>537</sup> --80-120
3. 1655 -- Sep 15-18, Natives **attack** Dutch in New Netherland (NY and NJ)<sup>538</sup> --16-100
4. 1705 -- Dec 19-21, Privateer **Castile Del Rey**, grounds/breaks-up, Sandy Hook, NJ -- 132
5. 1715 -- **smallpox**, NY and NJ colonies, esp. Burlington and Perth Amboy, NJ --  $\geq 10$
6. 1759 -- **measles** (“many...in a short space of time; not a house exempt...”), Fairfield NJ $\geq 10$ ?
7. 1775 -- Summer-Fall (especially), **dysentery**, especially Cumberland County, NJ --  $\geq 10$
8. 1776 -- **dysentery** epidemics, NY (especially northern NY), MA and NJ --  $\geq 66$
9. 1806 -- coastal ship **Rose in Bloom** upset in gale off Barnegat Inlet, NJ -- 21
10. 1832 -- July 14-Oct 10, **cholera** epidemic, statewide, esp. Bergen, Paterson, NJ --420-503
11. 1839 -- Aug 13, storm, Austrian brig **Terasto** (Perasto?) grounds, Long Beach Island, NJ-13-14
12. 1846 -- Feb 14/15, **winter snow storm**, **John Minturn and other boats wreck**, NJ --50-60
13. 1849 -- summer-fall, **cholera**; esp. Newark, Paterson, Camden, Bergen Neck, NJ -- 673
14. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 6,465 NJ deaths -- 191
15. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571-- 590
16. 1853 -- Aug 12-15, **excessive natural heat** and **sunstrokes**, Jersey City, NJ -- 12
17. 1854 -- Apr 16, storm, packet ship **Powhatan** grounds/breaks up off Long Beach Isl. NJ-250-311
18. 1854 -- July, **cholera**, esp. Cape May, Centerville, Jersey City, and Newark, NJ -- 24
19. 1854 -- Nov 13, storm, US immigrant ship **New Era** grounds on bar, Deal Beach, NJ-240-300
20. 1855 -- Aug 29, **RR crossing crash & derailment**, North PA RR, Burlington, NJ -- 25
21. 1856 -- Mar 15, ferry **New Jersey** burns, DE River, Philly to Camden, NJ --30-61
22. 1860 -- **croup** (contagious upper airway viral infection), subset, 15,188 US deaths -- 318
23. 1860 -- **measles**, especially children (NJ subset of 3,900 measles deaths nationwide) -- 76
24. 1860 -- **scarlet fever** (NJ subset of 26,402 deaths in 38 Census States & DC)<sup>539</sup> -- 604
25. 1860 -- **tuberculosis** (“consumption”) (NJ subset of 49,082 death nationwide)<sup>540</sup> --1,350
26. 1860 -- **typhoid fever** (subset, 19,236 US typhoid deaths, 38 registration States/DC; NJ-- 239
27. 1860 -- **whooping cough** (NJ subset of 8,408 whooping cough deaths nationwide) -- 172
28. 1864 -- June 01, steamer **Pocahontas** sinks, *City of Bath*, collision, off Cape May, NJ --40-41
29. 1864 -- July 03, steamer **Locust Point** sinks, collision with *Matanzas* off Absecon, NJ-- 17
30. 1865 -- Mar 07, **trains collide**, Wash. Express, Camden & Amboy RR, Bristol, NJ -- 10
31. 1865 -- Jun 08, fog, steamer **Admiral Dupont** hit/sunk by *Studacona* (UK), off Cape May, NJ-17
32. 1865 -- Oct 15, steamer **Atlanta**, N.O., LA to NYC sinks/storm, off Sandy Hook NJ<sup>541</sup>- 45-47
33. 1866 -- **cholera**, Burlington, Camden, Cumberland, Essex, Gloucester, Hudson counties-- $\geq 44$
34. 1868 -- July 14-16, **excessive natural heat**, Hoboken, Jersey City, Newark, Trenton, NJ-- 30
35. 1870 -- **diarrhoea** (141), **dysentery** (179), **enteritis** (232); data from U.S. Census -- 552
36. 1870 -- **diphtheria** (NJ subset of 6,303 US diphtheria deaths; data from U.S. Census) -- 177
37. 1870 -- **measles**, especially children (NJ subset of 9,237 measles deaths nationwide) -- 166
38. 1870 -- **scarlet fever**, especially children (NJ subset of 20,339 deaths nationwide) -- 781

<sup>537</sup> Giersbach writes the attack site was today’s Corlaer’s Hook, Jersey City. *Wikipedia* has it that Pavonia was “on the west bank of the North River (Hudson River)...in what would become today’s Hudson County, New Jersey.”

<sup>538</sup> Cross-listed in NY. We do not have a breakout of Dutch fatalities by state. The dates of Sep 15-18 are for the initial Native attacks and colonial deaths. There were additional deaths on both sides in retaliatory Dutch attacks.

<sup>539</sup> Second leading known cause of death in the State in 1860, behind consumption.

<sup>540</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>541</sup> Presumably NJ – accounts then note that the *Atlanta* was lost is a storm south of “Sandy Hook” on way to NY.



**New Jersey (continued):**

39.	1870 --	<b>tuberculosis</b> (consumption) (NJ subset of ~70,000 TB deaths nationwide)	--1,822
40.	1870 --	<b>typhoid fever</b> (NJ subset of 22,187 typhoid fever deaths nationwide)	-- 336
41.	1870 --	<b>whooping cough</b> (NJ subset of 9,008 whooping cough deaths nationwide)	-- 181
42.	1871 --	May 1-Dec, <b>smallpox</b> , Newark, Essex County, NJ	-- ~96
43.	1872 --	<b>smallpox</b> , especially Camden (157 smallpox deaths), Camden County, NJ	-- ≥201
44.	1872 --	June 30-July 5, <b>excessive heat</b> and sunstrokes, esp. Jersey city and Hoboken	-- 21
45.	1875 --	<b>diphtheria</b> , Hudson County, NJ	-- 533
46.	1875 --	<b>scarlet fever</b> , especially children, Hudson County, NJ	-- 114
47.	1876 --	<b>diphtheria</b> , Hudson County, NJ	-- 327
48.	1876 --	<b>scarlet fever</b> , especially children, Hudson County, NJ	-- 183
49.	1877 --	<b>Scarlet Fever</b> , especially children, Hudson County, NJ	-- 213
50.	1877 --	Jan 7, steamer <b>Montgomery</b> hit by <b>Seminole</b> , sinks, 38m NE of Cape May NJ	-- 13
51.	1878 --	<b>diphtheria</b> , Hudson County, NJ	-- 177
52.	1878 --	<b>scarlet fever</b> , especially children, Hudson County, NJ	-- 113
53.	1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children; 17,966 US croup deaths; NJ--	193
54.	1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	-- 251
55.	1879 --	June-May 1880, <b>malarial fever</b> ; subset, 20,231 US malaria deaths; NJ	-- 182
56.	1879 --	June-May 1880, <b>measles</b> , esp. children (NJ subset, 8,254 U.S. measles deaths)--	25
57.	1879 --	June-May 1880, <b>meningitis</b> (NJ subset of 7,481 meningitis deaths nationwide)--	178
58.	1879 --	June-May 1880, <b>scarlet fever</b> , esp. children; NJ subset, 16,388 US S.F. deaths--	311
59.	1879 --	June-May 1880, <b>tuberculosis</b> (NJ subset of 91,270 TB deaths nationwide)	--1,646
60.	1879 --	June-May 1880, <b>typhoid fever</b> (NJ subset of 23,339 U.S. Typhoid deaths)	-- 177
61.	1879 --	June-May 1880, <b>whooping cough</b> (NJ subset, 11,064 U.S. wh. cough deaths)	-- 71
62.	1880 --	Aug-Dec, <b>smallpox</b> , especially Camden, NJ (nationwide subset of 1,270 deaths)--	47
63.	1880 --	July 20, <b>tunnel construction failure</b> (blowout), Hudson River, Jersey City, NJ--	21
64.	1880 --	Aug 11, <b>trains collide</b> , West Jersey & Atlantic Railroad, Mays Landing, NJ	--23-26
65.	1881 --	<b>diphtheria</b> , NJ	-- 972
66.	1881 --	<b>smallpox</b> , especially Camden and Hudson County; also Newark, NJ	-- 254
67.	1882 --	<b>smallpox</b> , especially Hudson County (139 deaths), Newark, Camden, NJ	-- 367
68.	1883 --	<b>smallpox</b> , NJ	-- 54
69.	1884 --	June 04, <b>infant bodies found</b> , Nivison Home for Infants, Hammonton, NJ	-- 21
70.	1884 --	June 27, storm, schooner <b>Deborah H. Diverty</b> founders off Beck's Beach, NJ	-- 10
71.	1885 --	<b>diphtheria and croup</b> , especially children, NJ	--1,496
72.	1885 --	Oct 18, <b>trains collide</b> (three), near Jersey City, NJ	-- 12
73.	1886 --	July 02, <b>explosion</b> , Atlantic Powder Works, near Drakesville (Ledgewood), NJ--	10
74.	1887 --	<b>diphtheria</b> , NJ	--1,527
75.	1887 --	Apr 23, <b>boiler explosion</b> , Passaic Rolling Mills, Paterson, NJ	-- 20
76.	1887 --	July 21, <b>train runs into work-gang</b> , Erie Railroad, near Hohokus, NJ	-- 15
77.	1888 --	Mar 11-14, <b>blizzard</b> , NJ	-- 14
78.	1889-90, June-May,	<b>croup</b> , NJ	-- 449
79.	1889-90, June-May,	<b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; NJ <sup>542</sup>	--1,067
80.	1889-90, June-May,	<b>measles</b> , subset of 9,256 US measles deaths, NJ	-- 183
81.	1889-90, June-May,	<b>typhoid fever</b> , subset of 27,058 US typhoid deaths, NJ	-- 684

<sup>542</sup> U.S. average diphtheria death rate was 33.06 per 1,000 deaths; NJ was 35.38; Jersey City 55.03; Newark 48.39.

### New Jersey (continued):

82. 1890 -- Jan-Feb, **influenza** (La Grippe/Russian Flu), esp. Hudson Co. (390 in Jan)m NJ-- 466
83. 1891 -- **typhoid fever**, NJ -- 695
84. 1891 -- Sep 24, fireworks mortar **explodes**, Feast of St. Rocco celebration, Newark, NJ--  $\geq$ 13
85. 1894 -- Jan 15, **trains collide**, near Hoboken, NJ --11-13
86. 1894 -- Apr 10, schooners **Albert W. Smith** and **Kate Markee** wrecked, NJ Coast -- 16
87. 1894 -- June 24, overloaded (NY excursionists) tug **James D. Nicol**, sinks, Sandy Hook, NJ-- $\geq$ 35
88. 1896 -- **measles**, esp. Jersey City (28), also, Hoboken (8), Carlstadt (5), Rahway (3) -- 46
89. 1896 -- Aug 9-14, **heat**, esp. Jersey City ( $\leq$ 54), Newark (45), Hoboken (19), NJ -- 168
90. 1897 -- **typhoid fever**, subset of >9,192 US typhoid deaths -- 478
91. 1898 -- Sep 2-5, **heat**, Bayonne, Elizabethport, Jersey City, Newark, esp. Hoboken, NJ-- 40
92. 1898 -- Nov 18, PA **train** runs-down workmen, fog, Hackensack Meadows, NJ --11-12
93. 1899 -- Jan 09, **trains collide**, Lehigh Valley Railroad near West Dunellen, NJ -- 17
94. 1896 -- July 30, **two-train collision**, Atlantic City, NJ -- 50
95. 1900 -- **diphtheria** (subset, 16,475 US diphtheria deaths), esp. Newark (111), NJ -- 678
96. 1900 -- **influenza** (subset, 16,645 US influenza deaths); NJ -- 443
97. 1900 -- **meningitis** (subset, 19,423 US meningitis deaths; NJ 6<sup>th</sup> largest state loss) -- 909
98. 1900 -- **scarlet fever** (subset, 6,333 US scarlet fever deaths; 7<sup>th</sup> largest loss by a state)-- 232
99. 1900 -- **tuberculosis** (32,735 NJ deaths all causes) (109,750 US TB deaths)<sup>543</sup> --3,392
100. 1900 -- **typhoid fever** (subset of 35,379 US typhoid fever deaths); NJ -- 398
101. 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths); NJ --306-329
102. 1900 -- Mar 12, **arson fire** (charged), Italian Tenement Building, Newark, NJ -- 16
103. 1900 -- June 30, North German Lloyd Line **fire**, piers & **ships**, Hoboken, NJ --325-400
- 9 **Bremen** (crew). Hoboken Historical Museum.
- 0 **Kaiser Wilhelm der Grosse**. Hoboken Historical Museum.
- 44 **Main**. Hoboken Historical Museum. CD-ROM: The 1900 Hoboken Pier Fire.
- 99 **Saale**. Eastlake, Russell, Sharpe. *World Disasters*. "Saale, New York." 2001, p. 30.
- 173 "...on the piers." Hoboken Historical Museum.
104. 1900 -- July-Aug (especially), **excessive heat** (subset of 1,266 US heat deaths) -- 119
105. 1900 -- July 03, **arson fire** (alleged), Adams and First Sts. tenement, Hoboken, NJ --13-14
106. 1901 -- **smallpox**, especially Newark (71), NJ -- 139
107. 1901 -- Feb 21, "Nellie Bly" **train collision**/fire, Rusling's Siding, ~Bordentown NJ-- 17
108. 1901 -- June 21, **fireworks explosion/fire**, confectionery, Main Street, Paterson, NJ -- 17
109. 1901 -- June-July (especially), **heat waves** (subset of 4,012 US heat deaths) -- 467
110. 1902 -- **smallpox**, esp. Newark (188) and Camden (19); US death rate 6.6, NJ, 21.8 -- 432
111. 1902 -- June-Aug (especially July), **excessive natural heat**; subset of 290 heat deaths-- 10
112. 1903 -- Jan 27, **trains collide**/burn, NJ Central RR, ~Graceland and Plainfield, NJ --23-24
113. 1903 -- Feb 19, **trolley car** with HS students, **train collide** at crossing, Newark, NJ -- 9-10
114. 1903 -- June-Aug (especially first half July), **heat** (subset of 520 US heat deaths) -- 60
115. 1903 -- Oct 17, **fog, work trains collide**, Washington Crossing, near Trenton, NJ -- 17
116. 1904 -- **epidemic cerebrospinal meningitis**; 3,284 such deaths in US -- 245
117. 1904 -- June-Aug, **excessive natural heat**, subset of 235 US heat deaths, NJ -- 25
118. 1904 -- July 10, **trains collide**, Greenwood Lake Div., Erie R.R., Midvale, NJ -- 17
119. 1905 -- **cerebrospinal meningitis**; 5,114 US deaths; highest NJ CM death rate ever -- 475

<sup>543</sup> Averages about 9.3 tuberculosis deaths daily throughout the year in the State.

**New Jersey (continued):**

120.	1905 --	tuberculosis; 56,770 registration area deaths (10 states/135 cities) <sup>544</sup>	--3,659
121.	1906 --	July 29, capsizing of gas sloop <i>Nora</i> (9) & gas launch <i>Alva B.</i> (1), Anglesea, NJ--	10
122.	1906 --	Oct 28, <b>train derailment</b> into tidal channel, Atlantic City, NJ	--57-62
123.	1907 --	tuberculosis of the lungs; subset of 76,650 US TB deaths, NJ	--3,836
124.	1907 --	typhoid fever (NJ subset of ~13,000 typhoid fever deaths nationwide)	-- 424
125.	1910 --	polio, especially children, NJ	-- 50
126.	1910 --	Sep 11, <b>tunnel cave-in</b> , Bergen Tunnel, Erie Railroad, Jersey City, NJ	-- 11
127.	1910 --	Nov 26, <b>fire</b> , Asch Factory, Orange & High Streets, Newark, NJ	-- 25
128.	1911 --	polio; subset of 1,060 "registration area" deaths (63.1% pop.), NJ	-- 46
129.	1911 --	Jan 31, suffocation, <b>tunnel caisson</b> , Pontoon, Passaic River, Newark, NJ	-- 12
130.	1911 --	Feb 1, dynamite <b>explosion</b> , <b>Central Rail of NJ terminal</b> , Communipaw NJ--	24-35
131.	1911 --	Apr 29, <b>train derailment</b> , Penn. Railroad, Martin's Creek Station, NJ	-- 12
132.	1911 --	July 3-12, <b>excessive natural heat</b> , especially Newark, NJ	--17-18
133.	1911 --	Oct 19, <b>mine</b> flood, Wharton Iron Mine Shaft, Hibernia, NJ	-- 12
134.	1912 --	Jan 11-March, <b>tuberculosis</b> , NJ State	--1,304
135.	1913 --	heat; 1,226 "registration area" (65% of US) deaths; subset for NJ	-- 44
136.	1913 --	Dec 26, barges <b>A.G. Ropes &amp; Undaunted</b> founder, off Barnegat NJ	-- 10
137.	1914 --	measles; 4,461 US deaths/death rate 6.8 per 100K pop.; NJ rate 8.1	-- 229
138.	1914 --	Jan 04, steamer <b>Oklahoma</b> breaks-up/sinks/rough sea, off Sandy Hook, NJ	--26-32
139.	1916 --	diphtheria, especially children, NJ	-- 444
140.	1916 --	May 15, <b>TNT explosion</b> , DuPont Powder Repauno Works, Gibbstown, NJ	--11-14
141.	1916 --	July 3-Oct 25, <b>polio</b> epidemic, especially Newark, NJ <sup>545</sup>	--1,180
142.	1917 --	polio, esp. June-Sep, especially children (NJ subset, ≥1,182 US polio deaths)--	42
143.	1917 --	Dec 08, storm, ship <b>Eugene F. Moran</b> founders off Atlantic City, NJ	-- 13
144.	1918 --	June 02, storm, <b>lifeboat</b> from <b>Carolina</b> (sunk by U-151) capsizes, off NJ	-- 16
145.	1918 --	Aug 07-08 & 13, <b>heat wave</b> ; especially Camden/6 (294 US deaths)	-- 10
146.	1918 --	Jan-Apr, 1919, <b>influenza and pneumonia</b> epidemic, NJ	20,987-27,695
		1918 -- Jan-Dec, <b>influenza and pneumonia</b> epidemic, NJ	--23,545
		1918 -- Sep-Dec, <b>influenza and pneumonia</b> epidemic, NJ	--16,837
		1919 -- Jan-Apr, <b>influenza and pneumonia</b> epidemic, NJ	-- 5,344
147.	1918 --	typhoid Fever (NJ subset of 9,100 U.S. typhoid fever deaths)	-- 162
148.	1918 --	Sep 17, <b>fire</b> , American Button Company Plant, Newark, NJ	-- 11
149.	1918 --	Oct 04, <b>explosion</b> , T. S. Gillespie Co., Shell Plant, Sayreville, NJ	-- 100
150.	1919 --	diphtheria (NJ subset, 9,160 US diphtheria deaths)	-- 572
151.	1919 --	Aug 04, munitions <b>magazine explosion</b> , U.S. Arsenal, Raritan, NJ	-- 7-12
152.	1919 --	Nov 01, <b>train</b> hits "Auto-Truck" at Grade Crossing, Clarksboro, NJ <sup>546</sup>	--14-16
153.	1919 --	Dec 25-30, <b>wood alcohol poisoning</b> , Jersey City, Newark, Passaic, NJ	-- 18
154.	1920 --	diphtheria & croup (subset, 13,395 such deaths, 34 registration states), NJ	-- 566
155.	1920 --	influenza and pneumonia, NJ	--4,150
156.	1920 --	measles (NJ subset of 7,712 measles deaths in 34 registration states)	-- 306

<sup>544</sup> NJ had TB death rate of 170.7 per 100K pop., for the 3<sup>rd</sup> highest state death rate in 1905. Census avg. was 168.2.

<sup>545</sup> In Newark between July 31 and Aug 10 there were 7 days of double-digit fatalities (117 deaths this time-frame). NJ had the highest per capita number of cases in the country.

<sup>546</sup> Cross-listed in PA in that all the victims were from Kensington area of Philadelphia.

**New Jersey (continued):**

157.	1920 --	<b>whooping cough</b> (subset, 10,968 whooping cough deaths, 34 reg. states); NJ--	413
158.	1921 --	<b>polio</b> (acute) esp. late summer-fall (NJ subset of 1,597 U.S. polio deaths)	-- 50
159.	1921 --	Jan 30, <b>fire</b> (cigarette), Colonial Hotel, Newark Street, Hoboken, NJ	-- 13
160.	1921 --	Oct 30, two Hilton Fishing Co. <b>boats</b> capsize, off Anglesea, NJ	-- 11
161.	1922 --	Jan 07-11, <b>wood alcohol poisoning</b> , NJ, especially Hoboken, NJ	-- 11
162.	1922 --	Jan 20-Feb 17, <b>wood alcohol poisoning</b> , Hoboken and Ridgefield Park, NJ	-- 16
163.	1924 --	Mar 01, <b>explosion</b> and <b>fire</b> , Nixon Nitration Works, Nixon, NJ	-- 20
164.	1925 --	<b>excessive cold</b> , NJ subset of 239 US excessive cold deaths	-- 10
165.	1925 --	<b>diphtheria</b> (NJ subset, 6 <sup>th</sup> highest, 8,058 US diphtheria deaths)	-- 337
166.	1925 --	<b>excessive heat</b> (NJ subset, 3 <sup>rd</sup> highest, 1,587 US excessive heat deaths)	-- 112
167.	1925 --	<b>measles</b> (NJ subset, 5 <sup>th</sup> highest, 2,404 US measles deaths)	-- 124
168.	1925 --	<b>meningococcus</b> meningitis, NJ subset, 6 <sup>th</sup> highest, 1,095 US meningitis deaths--	48
169.	1925 --	<b>scarlet fever</b> (NJ subset of 2,762 US scarlet fever deaths, 48 states)	-- 67
170.	1925 --	<b>smallpox</b> (NJ subset, 4 <sup>th</sup> highest of 709 US smallpox deaths in 1925, 48 states)--	48
171.	1925 --	<b>tuberculosis</b> (NJ subset, 10 <sup>th</sup> highest, 89,268 US tuberculosis deaths)	--2,891
172.	1925 --	<b>whooping cough</b> (NJ subset, 6,948 US whooping cough deaths)	-- 264
173.	1925 --	June 16, <b>train derails</b> , near Hackettstown, NJ	-- 50
174.	1925 --	Nov 12, <b>trains collide</b> in <b>fog</b> near Monmouth Junction, NJ	-- 10
175.	1926 --	July 10, <b>lightning/fire/explosions</b> , USN Lake Denmark Arsenal, Dover NJ <sup>547</sup> -	21-22
176.	1926 --	July 21-25, <b>excessive heat</b> (subset of 160-180 US heat deaths), NJ	-- 18
177.	1927 --	<b>polio</b> (Acute) esp. late Summer and Fall (NJ subset of 2,013 US polio deaths)--	43
178.	1927 --	July 12-16, <b>excessive heat</b> (NJ subset of 127-161 heat deaths nationwide)	--11-16
179.	1929 --	Mar 17, <b>Colonial Western Airways</b> Tri-Motor sightseeing <b>crash</b> , Newark NJ--	14
180.	1931 --	<b>epidemic cerebrospinal meningitis</b> , NJ subset, 2,832 US meningitis deaths	-- 91
181.	1931 --	<b>diphtheria</b> , especially children (NJ subset of 5,738 U.S. diphtheria deaths)	-- 123
182.	1931 --	<b>influenza</b> ; subset of 31,701 influenza deaths nationwide; NJ	-- 544
183.	1931 --	<b>measles</b> , especially children, NJ subset, 3,576 US measles deaths	-- 101
184.	1931 --	<b>polio</b> , esp. July-Oct, NJ subset, 2,139-2,144 US polio deaths, esp. children	-- 142
185.	1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths; NJ	--2,649
186.	1931 --	summer especially, <b>excessive natural heat</b> (subset, 2,768 U.S. deaths), NJ	-- 38
187.	1932 --	Mar 09, <b>explosion</b> , NJ Public Service Co. Gas Plant, South Camden, NJ	-- 14
188.	1933 --	Apr 04, storm, USN dirigible <b>Akron crash</b> /73, 2 rescuers, off Barnegat City, NJ-	75
189.	1933 --	June 09, <b>fire</b> , Atlantic Pyroxylin Waste Co., North Arlington, NJ	-- 10
190.	1934 --	summer, <b>excessive natural heat</b> ; subset of 3,250 US heat deaths; NJ	-- 27
191.	1934 --	Sep 08, S.S. <b>Morro-Castle</b> ship fire, off Coast of Sea Girt, NJ	--134-135
192.	1935 --	Jan 24, collision, liner <b>Mohawk</b> (sinks) & freighter <b>Talisman</b> , off Sea Girt, NJ--	45
193.	1936 --	Jan 18-28, <b>winter snow storms and extreme cold</b> , NJ	-- 5-11
194.	1936 --	Feb 12, <b>fire</b> , Victoria Mansion Hotel, Lexington & Seventh, Lakewood, NJ	-- 16
195.	1936 --	July-Aug (especially), <b>excessive heat</b> ; subset 4,678-5,418 US heat deaths), NJ--	44
196.	1937 --	May 06, <b>German dirigible Hindenburg explodes</b> , Lakehurst, NJ	-- 36
197.	1938 --	Aug 05-07, <b>heat</b> , especially Newark, NJ	-- 12
198.	1939 --	<b>tuberculosis</b> (NJ subset of 61,609 tuberculosis deaths nationwide)	--1,727
199.	1939 --	summer, <b>heat</b> (subset of 527-1,073 heat deaths nationwide)	-- 12

<sup>547</sup> Lightning started a fire which led to explosions which led to loss of life.



**New Jersey (continued):**

200. 1940 -- **influenza & pneumonia** (NJ subset of 92,525 US flu & pneumonia deaths) --2,139
201. 1940 -- **tuberculosis** (NJ subset of 55,576 tuberculosis deaths nationwide) --1,714
202. 1940 -- July 30, **explosions/conflagration**, R. M. Hollingshead Plant, Camden, NJ -- 10
203. 1940 -- Sep 12, **explosion**, Hercules Powder/Munitions Co., Kenil, NJ -- 52
204. 1941 -- Oct 28, **home fire**, Montclair, NJ -- 12
205. 1942 -- Feb 04, US tanker **India Arrow** sunk by U-boat, ~20m SE of Cape May, NJ -- 26
206. 1942 -- Feb 27, US tanker **R.P. Resor** sunk by U-boat ~20m east of Manasquan Inlet NJ-- 48
207. 1942 -- Mar 10, US tanker **Gulftrade** sunk by U-boat 3m off Barnegat Light, NJ -- 18
208. 1942 -- Mar 14, US merchant vessel **Lemuel Burrows** torpedoed, off Atlantic City, NJ-- 20
209. 1942 -- June 08, USN **dirigibles collide**, *Defender/G-1*, Atlantic, off Lakehurst, NJ -- 12
210. 1942 -- June 24, US tug **John R. Williams** hits mine laid by U-Boat off Cape May, NJ-- 14
211. 1943 -- Aug 19, **explosion**, naphtha vapors, Congoleum-Nairn Inc. plant, Kearny, NJ-- 12
212. 1944 -- **cerebrospinal meningitis**; NJ subset, 2812 US cerebrospinal meningitis deaths-- 110
213. 1944 -- **polio**, especially July-Nov (NJ subset of 1,070 polio deaths nationwide) -- 56
214. 1944 -- **tuberculosis** (NJ subset of 54,731 tuberculosis deaths nationwide) --1,856
215. 1944 -- Jan 06, USS **St. Augustine & Camas Meadows** collide off Cape May, NJ -- 115
216. 1944 -- Feb 22, USAAF B-17F **plane crash**, Kittatinny Mt., Warren Ct., NJ -- 12
217. 1944 -- Mar 20, **bus** slides off Market St. Bridge into Passaic River, ~Passaic, NJ --19-20
218. 1944 -- May 16, **dirigible airship K-5 crash**, Naval Air Station, Lakehurst, NJ -- 10
219. 1945 -- Jan 02, Sun Oil tanker **Sunoco** fire and explosion, off Sandy Hook, NJ -- 10
220. 1947 -- Feb 20-22, **snow-storm**, especially north-northeastern NJ --11-13
221. 1947 -- Dec 26-27, **snow-storm**, NJ --23-31
222. 1948 -- **polio**, July-Nov especially; subset of 1,895 US polio deaths; NJ -- 42
223. 1948 -- May 17, Koppers Co., coal tar distillation plant **tank explosion**/fire, Kearny NJ--10
224. 1949 -- **polio**, especially July-Nov; subset of ~2,725 US polio deaths; NJ -- 180
225. 1949 -- July 30, **USN Hellcat hits Eastern Airlines #557**, both crash ~Chesterfield, NJ--all 16  
 -- 1 US Navy Hellcat fighter  
 --15 Eastern Airlines Flight 557
226. 1949 -- Sep 06, rampage **mass shooting**, Howard Barton Unruh, Camden, NJ -- 13
227. 1950 -- **measles**, especially children (NJ subset of 468 measles deaths nationwide) -- 26
228. 1950 -- **polio**, especially July-Nov (NJ subset of 1,904 polio deaths nationwide) -- 68
229. 1950 -- May 19, **munitions** being moved **explode**, Raritan Riv. Pier, South Amboy, NJ--31
230. 1950 -- Nov 24-27, East US **winter "Storm of the Century,"** subset for NJ -- 34
231. 1951 -- **polio**, especially July-Nov, (NJ subset of 1,551-1,555 US polio deaths) -- 39
232. 1951 -- **tuberculosis** (respiratory), 31,163 US deaths, subset for NJ (10<sup>th</sup> high State)-- 985
233. 1951 -- Feb 6, speeding **commuter train derails** at temporary trestle, Woodbridge, NJ-- 85
234. 1951 -- Aug 20, **USAF T-33A crash after takeoff**, hits Army truck/burns, Fort Dix, NJ-- 13  
 -- 2 in the T-33A  
 --11 Army soldiers on the ground
235. 1951 -- Dec 16, **Miami Airlines** engine fire on takeoff, crash, Elizabeth City, NJ --all 56
236. 1952 -- **tuberculosis** (respiratory): 22,700 US deaths; NH (9<sup>th</sup> highest US state loss)-- 772
237. 1952 -- Jan 22, **American Airlines** Flight 6780 airport approach crash, Elizabeth, NJ-- 30  
 --23 Occupants of American 6780 (everyone).  
 -- 7 Occupants of buildings on the ground.

**New Jersey (continued):**

238.	1952 -- Feb 11, <b>National Air 101 takeoff engine loss/return attempt/crash</b> , Elizabeth, NJ--33	
239.	1953 -- <b>heat</b> , excessive natural (code E931), 576 US heat deaths, esp. Aug 22-Sep 5 --	33
240.	1953 -- <b>polio</b> (NJ subset of 1,450 polio deaths nationwide)	-- 38
241.	1953 -- Mar 11, <b>fire</b> , fermentation bldg. under construct., Anheuser-Busch, Newark NJ--13	
242.	1953 -- Mar 20, family of 10 killed in <b>truck and car collision</b> , near Washington, NJ--	10
243.	1954 -- <b>encephalitis</b> , acute infectious (viral); 407 US deaths, esp. NY/52 PA/31; NJ--	10
244.	1954 -- <b>measles</b> ; 524 US deaths; 21 states double digits; NJ subset	-- 18
245.	1954 -- <b>polio</b> , acute; 1,400 US deaths; NJ subset	-- 28
246.	1954 -- <b>tuberculosis</b> (respiratory); 15,146 US deaths; NJ had 7 <sup>th</sup> highest US state loss--	489
247.	1955 -- <b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); NJ subset	-- 26
248.	1955 -- <b>tuberculosis</b> (respiratory); 13,676 US TB deaths; NJ subset (in top ten states)--	538
249.	1956 -- <b>tuberculosis</b> (respiratory), 12,978 US deaths; NJ (7 <sup>th</sup> highest US state loss) --	477
250.	1956 -- June 20, Linea Aeropostal Venezolana <b>emer. landing</b> approach fire/ <b>crash</b> off NJ--all	74
251.	1956 -- Mar 16 & 18, <b>snowstorms</b> ; US deaths in 14 states 95-138; NJ subset	--15-33
252.	1956 -- July 13, <b>plane crash</b> on takeoff, USAF, windshear, near Brown's Mills, NJ --	46
253.	1957 -- <b>tuberculosis</b> (respiratory); 12,384 US deaths; NJ subset (5 <sup>th</sup> US state high) --	480
254.	1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K) --	1,828
255.	1958 -- <b>polio</b> (acute); 255 US deaths; 11 states in double digit deaths; NJ	-- 10
256.	1958 -- <b>tuberculosis</b> ; 12,361 US TB deaths; NJ subset (7 <sup>th</sup> highest US State loss) --	450
257.	1958 -- Feb 08-17, <b>coldwave and snow storms</b> , NJ <sup>548</sup>	-- 4-12
258.	1958 -- May 22, US Army Nike-Ajax missile <b>explosion</b> , Battery B ~Middleton, NJ --	10
259.	1958 -- Sep 15, <b>train derails</b> into water through open span of Newark Bay Bridge, NJ--	48
260.	1959 -- <b>measles</b> , especially children; 385 US deaths; NJ subset	-- 16
261.	1959 -- <b>tuberculosis</b> ; 11,456 US TB deaths; NJ subset	-- 435
262.	1959 -- Oct 09, <b>semi-trailer</b> tanker rear-ends Trenton St. Col. bus, New Brunswick --	12
263.	1960 -- Mar 03-05, <b>snowstorm</b> ; subset of 186-193 US; NJ	-- 9-10
264.	1960 -- July 06, USN <b>Airship</b> (blimp) envelope tear and crash off Barnegat City, NJ--	18
265.	1960 -- Dec 10-12, Northeast <b>snowstorm/blizzard/coldwave</b> , NJ subset of 208-253--	52-53
266.	1961 -- <b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; NJ death rate 0.3	-- 17
267.	1961 -- <b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; NJ death rate 6.3	-- 391
268.	1962 -- <b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; NJ death rate 5.6--	347
269.	1962 -- Mar 05-09, Ash Wednesday <b>Nor'easter</b> , 52 mid-Atlantic state deaths, NJ	-- 29
270.	1963 -- <b>excessive heat</b> ; 196 US deaths; NJ	-- 10
271.	1963 -- <b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; NJ death rate 5.6--	363
272.	1963 -- Jan 30, US Navy ASW P-3A <b>plane crash</b> , off Atlantic City, NJ	-- 14
273.	1963 -- Nov 18, <b>fire (arson?)</b> , Surfside Hotel (elderly home), Atlantic City, NJ	-- 25
274.	1964 -- <b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; NJ death rate 4.6	-- 305
275.	1965 -- <b>tuberculosis</b> , 7,934 US deaths/death rate 4.1 per 100K; NJ death rate 4.4	-- 295
276.	1966 -- <b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; NJ--	24
277.	1966 -- <b>tuberculosis</b> , 7,625 US TB deaths; subset for NJ	-- 300
278.	1966 -- Jan 29-31, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; NJ	--10-12
279.	1967 -- Feb 17, starch <b>dust explosion</b> and fire, Int. Latex Corp., Hawthorne, NJ	-- 11

<sup>548</sup> Though we were only able to gather any detail on four fatalities, the *Associated Press* noted twelve. Given that NY had 61 deaths for the same event, PA/31 and MD 13, we do not doubt the *AP* report of twelve deaths.

**New Jersey (continued):**

280. 1967 -- July 12-17 (esp. 13<sup>th</sup>), **police violence** and **racial rioting**, Newark, NJ<sup>549</sup> --23-26
281. 1968 -- **tuberculosis**, 6,292 US deaths/death rate 3.15 per 100K; NJ death rate 3.45 -- 243
282. 1969 -- **tuberculosis**; 5,567 US deaths/death rate 2.76 per 100K; NJ death rate 2.94 -- 209
283. 1970 -- **tuberculosis**; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; NJ 3.2--228
284. 1971 -- **tuberculosis**; 4,501 US TB deaths/death rate 2.18 per 100K; NJ rate 2.61 -- 190
285. 1972 -- **excessive natural cold**, ICD-8 code E901, 490 US deaths; NJ -- 12
286. 1972 -- **tuberculosis**; 4,376 US deaths, death rate 2.09 per 100K; NJ rate 2.10 -- 154
287. 1973 -- **tuberculosis**; 3,875 US deaths/death rate 1.84 per 100K; NJ 2.34 per 100K -- 171
288. 1973 -- Jan 29, **arson fire**, Street's Sheltered Care Rest Home, Pleasantville, NJ -- 10
289. 1973 -- Sep 29, **arson fire**, tenement building, Eleventh & Willow, Hoboken, NJ -- 11
290. 1974 -- **tuberculosis**; 3,513 US TB deaths/death rate 1.65 per 100K; NJ rate 2.01 -- 147
291. 1975 -- **tuberculosis**; 3,333 US TB deaths/death rate 1.55 per 100K; NJ rate 1.58 -- 116
292. 1976 -- **tuberculosis**; 3,130 US TB deaths/death rate 1.44 per 100K; NJ rate 1.47 -- 108
293. 1976 -- Aug 28, two McGuire AFB NY **C-41s crash**, Peterborough, UK & Greenland<sup>550</sup> 10
294. 1977 -- **cold/hypothermia**, exposure to excessive natural; 634 US deaths; NJ -- 11
295. 1977 -- **excessive natural heat** (esp. summer), ICD-8 E900; US death rate 0.14, NJ, 0.14-- 10
296. 1977 -- **tuberculosis**; 2,968 US TB deaths/death rate 1.35 per 100K; NJ rate 1.40 -- 103
297. 1978 -- exposure to excessive natural **cold/hypothermia**; 652 US deaths; NJ -- 10
298. 1978 -- **tuberculosis**, 2,914 US TB deaths/death rate 1.31 per 100K; NJ rate 1.39 -- 102
299. 1978 -- Dec 07, tenement house **fire** (7 children, 5 adults), Central Ward, Newark, NJ-- 12
300. 1979 -- Jan 20, **arson fire**, tenement, Clinton Street, Hoboken, NJ -- 21
301. 1980 -- June-Aug (especially), **heat**, ICD-9 E900 code for excessive natural heat, NJ-- 19
302. 1980 -- July 26, **fire**, Brinley Inn Boarding Home, Bradley Beach, NJ -- 24
303. 1981 -- Jan 09, **fire**, Beachview Rest Home/Sheltered Care Facility Keansburg, NJ -- 31
304. 1981 -- Oct 24, **arson fire**, apartment bldg., 12<sup>th</sup> and Washington, Hoboken, NJ -- 11
305. 1982 -- exposure to excessive natural **cold/hypothermia**; 402 US deaths; NJ -- 11
306. 1982 -- Apr 30, **arson fire**, Pinter (residential) Hotel, 14<sup>th</sup> Street, Hoboken, NJ -- 13
307. 1983 -- exposure to excessive natural **cold/hypothermia**; 510 US deaths; NJ -- 10
308. 1983 -- Sep 1, **Korean Air 007** shot down by USSR off Sakhalin Island; NJ residents-- 16
309. 1984 -- **tuberculosis**, 1,729 US TB deaths, death rate 0.73 per 100K; NJ rate 0.96 -- 72
310. 1984 -- summer **heat**; ICD-9 E900 code, excessive heat/hyperthermia; subset of 228 -- 12
311. 1984 -- Oct 18, **arson fire**, Alexander Hamilton Hotel (residential), Paterson, NJ -- 15
312. 1985 -- exposure to excessive natural **cold/hypothermia**; 519 US deaths; NJ -- 12
313. 1985 -- **tuberculosis**, 1,752 US TB deaths, death rate 0.74 per 100K; NJ rate 0.82 -- 62
314. 1986 -- **tuberculosis**, 1,782 US TB deaths, death rate 0.74 per 100K; NJ rate 0.93 -- 71
315. 1987 -- **HIV AIDS**, 13,468 deaths/US death rate 5.55 per 100K; NJ death rate 13.75--1,056
316. 1987 -- **tuberculosis**; 1,755 US TB deaths, death rate 0.72 per 100K, NJ rate 0.83 -- 64
317. 1987 -- exposure to excessive natural **cold/hypothermia**; 326 US deaths; NJ -- 11
318. 1988 -- **HIV AIDS**, 16,602 deaths/US death rate 6.8 per 100K population; NJ, 14.9 --1,157
319. 1988 -- **tuberculosis**; 1,921 US TB deaths, death rate 0.78 per 100K; NJ rate 0.91 -- 70
320. 1988 -- Dec 21, **NJ residents** killed on **Pan Am 103 bombing**, Lockerbie Scotland<sup>551</sup>-- 33

<sup>549</sup> One death was a drug overdose. Have not been able to determine why this was attributed to the rioting. There were twenty-three shooting deaths, an allegedly riot-related heart attack, and a vehicular related death.

<sup>550</sup> The ten fatalities are the NJ residents.

**New Jersey (continued):**

321.	1989	--	<b>chickenpox</b>	; 89 US chickenpox deaths, death rate 0.04 per 100K; NJ rate 0.13--	10
322.	1989	--	exposure to excessive natural <b>cold/hypothermia</b>	; 524 US deaths; NJ	-- 12
323.	1989	--	<b>HIV AIDS</b>	; 22,082 US deaths, death rate 8.9 per 100K pop.; NJ rate 19.56	--1,514
324.	1989	--	<b>tuberculosis</b>	; 1,970 US TB deaths, death rate 0.80 per 100K; NJ rate 1.16	-- 90
325.	1990	--	<b>tuberculosis</b>	; 1,810 US TB deaths, death rate 0.73 per 100K; NJ rate 0.83	-- 64
326.	1991	--	exposure to excessive natural <b>cold/hypothermia</b>	; 588 US deaths; NJ	-- 15
327.	1991	--	<b>tuberculosis</b>	; 1,713 US TB deaths, death rate 0.68 per 100K, NJ rate 0.95	-- 74
328.	1992	--	exposure to excessive natural <b>cold/hypothermia</b>	; 558 US deaths; NJ	-- 13
329.	1993	--	exposure to excessive natural <b>cold/hypothermia</b>	; 641 US deaths; NJ	-- 19
330.	1993	--	<b>tuberculosis</b>	; 1,631 US TB deaths, death rate 0.63 per 100K; NJ rate 0.77	-- 61
331.	1993	--	summer esp., <b>excessive natural heat</b> (subset of 311 U.S. heat deaths);	NJ	-- 16
332.	1994	--	exposure to excessive natural <b>cold/hypothermia</b>	; 633 US deaths; NJ	-- 22
333.	1994	--	<b>tuberculosis</b>	; 1,478 US TB deaths; US death rate 0.56 per 100K, NJ, 0.75	-- 60
334.	1995	--	exposure to excessive natural <b>cold/hypothermia</b>	; 553 US deaths; NJ	-- 21
335.	1995	--	July, esp. 13-18, <b>excessive natural heat</b> , fatalities in at least six counties		-- 24
336.	1996	--	exposure to excessive natural <b>cold/hypothermia</b>	; 685 US deaths; NJ <sup>552</sup>	-- 19
337.	1996	--	Jan 07-08, <b>snow storm</b> (Blizzard of '96), esp. snow-shoveling heart attacks		-- 28
338.	1998	--	<b>infectious colitis, enteritis, gastroenteritis</b> , ICD-9 code 009.0, NJ death rate 0.145 per 100K-		12
339.	1999	--	exposure to excessive natural <b>cold/hypothermia</b>	; 598 US deaths; NJ	-- 32
340.	1999	--	July 04-06, <b>excessive heat</b> ; subset of 1,050 US heat-related deaths, NJ		-- 38
341.	2000	--	exposure to excessive natural <b>cold/hypothermia</b>	; 742 US deaths; NJ	-- 20
342.	2000	--	<b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; NJ, 0.333		-- 28
343.	2000	--	Aug 09, <b>USN charter Patuxent Air</b> <sup>553</sup> & <b>private plane collide</b> , Burlington, NJ--		11
344.	2001	--	exposure to excessive natural <b>cold/hypothermia</b>	; 599 US deaths; NJ	-- 15
345.	2001	--	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.268 per 100K; NJ, 0.294--		25
346.	2002	--	exposure to excessive natural <b>cold/hypothermia</b>	; 646 US deaths; NJ	-- 17
347.	2002	--	exposure to <b>excessive natural heat</b> , 626 US deaths, subset for NJ		-- 19
348.	2002	--	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.273 per 100K; NJ 0.316--		27
349.	2003	--	exposure to excessive natural <b>cold/hypothermia</b>	; 620 US deaths; NJ	-- 23
350.	2003	--	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.25 per 100K; NJ, 0.28		-- 24
351.	2004	--	exposure to excessive natural <b>cold/hypothermia</b>	; 676 US deaths; NJ	-- 15
352.	2004	--	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; NJ, 0.27		-- 23
353.	2005	--	exposure to excessive natural <b>cold/hypothermia</b>	; 700 US deaths; NJ	-- 17
354.	2006	--	exposure to <b>excessive natural heat</b> ; 1,104 US deaths, subset for NJ		-- 17
355.	2007	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.042; NJ, 0.115--		10
356.	2007	--	exposure to excessive natural <b>cold/hypothermia</b>	; 711 US deaths; NJ	-- 14
357.	2007	--	<b>tuberculosis</b> , death rate 0.184 per 100K; NJ death rate 0.196		-- 17
358.	2008	--	exposure to excessive natural <b>cold/hypothermia</b>	; 641 US deaths; NJ	-- 13
359.	2008	--	exposure to <b>excessive natural heat</b> ; 502 US deaths, subset for NJ		-- 12
360.	2008	--	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; NJ, 0.24		-- 21
361.	2009	--	exposure to excessive natural <b>cold/hypothermia</b>	; 616 US deaths; NJ	-- 11

<sup>551</sup> Of the 270 killed (including 11 Lockerbie residents), 189 were U.S. residents.

<sup>552</sup> There is some double-counting from Jan 7-8, 1996 snow storm. We know of at least 4 hypothermia deaths then.

<sup>553</sup> Patuxent Airways was operating at the time under Department of Defense contract, carrying Navy personnel.



**New Jersey (continued):**

362.	2009	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; NJ 1.1--	95
363.	2009	--	<b>H1N1 Swine Flu</b> , especially fall/winter; >12,000 US deaths; NJ	-- 42
364.	2010	--	exposure to excessive natural <b>cold/hypothermia</b> ; 710 US deaths; NJ	-- 15
365.	2010	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K, NJ 1.0--	90
366.	2011	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K, NJ, 1.5 --	129
367.	2011	--	exposure to excessive natural <b>cold/hypothermia</b> ; 0.216 death rate; NJ, 0.272--	24
368.	2011	--	exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for NJ	-- 20
369.	2011	--	Aug 27-28, <b>Hurricane Irene</b> (9 in-state and 3 out-of-state), NJ	-- 12
370.	2012	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; NJ, 1.1--	96
371.	2012	--	Oct 29-30, <b>Hurricane Sandy</b> , subset, 154-182 US deaths), esp. coastal NJ	--38-65
372.	2013	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, NJ 0.9--	76
373.	2013	--	exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; NJ	-- 16
374.	2013	--	exposure to <b>excessive natural heat</b> ; 651 US deaths, subset for NJ	-- 12
375.	2014	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, NJ 1.0--	89
376.	2014	--	exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; NJ	-- 15
377.	2015	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, NJ 1.1--	95
378.	2015	--	exposure to excessive natural <b>cold/hypothermia</b> ; 815 US deaths; NJ	-- 24
379.	2016	--	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths subset, NJ	-- 18
380.	2016	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.7 per 100K; NJ 0.9--	81
381.	2016	--	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; NJ death rate 2.6	-- 236
382.	2017	--	exposure to excessive natural <b>cold/hypothermia</b> ; 804 US deaths; NJ	-- 24
383.	2017	--	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; NJ death rate 2.18	-- 196
384.	2017	--	<b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; NJ rate 0.23--	21
385.	2018	--	Oct esp., <b>adenovirus 7</b> , children, Wanaque Nursing & Rehabilitation Center, Haskell, NJ-11	
386.	2018	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; NJ	-- 25
387.	2018	--	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; NJ death rate 2.07	-- 184
388.	2019	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths; NJ	-- 23
389.	2019	--	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; NJ rate 2.06--	183
390.	2019	--	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, NJ rate 1.45--	129
391.	2020	--	exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; NJ 0.26	-- 23
392.	2020	--	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; NJ death rate 1.60--	141
393.	2020	--	<b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; NJ 0.19--	22
394.	2020	--	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); NJ 2,161 per 1M pop.	--19,191
395.	2021	--	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; NJ, 3.3K per M	--9,846
396.	2021	--	exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for NJ	-- 11
397.	2021	--	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; NJ death rate 1.72	-- 159
398.	2021	--	Sep 1, <b>Hurricane Ida remnants</b> ; US toll 91; esp. Hunterdon/Somerset/Union Co.--	31
399.	2022	--	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; NJ death rate 5.06	--4,494

**Some Select/Notable Other New Jersey Large Loss-of-Life Events:<sup>554</sup>**

1735	--	“Throat Distemper” ( <b>diphtheria</b> ), Elizabeth Town vicinity, NJ colony	--	8
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<sup>554</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

**New Jersey (continued):**

1793 --	<b>scarlet fever</b> , Morristown (in one parish), especially children	--	7
1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), NJ	--	47
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC; average 266	--	121
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	--	44
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC; average 931	--	915
1850 --	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC; avg. 147	--	88
1870 --	<b>typhus</b> ; NJ subset of 1,770 typhus deaths nationwide	--	18
1879 --	<b>diphtheria</b> , Hudson County, NJ (38,143 US diphtheria deaths in 1879)	--	120
1879 --	<b>scarlet fever</b> epidemic, especially children, Hudson County, NJ (16,388 US)	--	232
1894 --	<b>smallpox</b> ; 1,752 US smallpox deaths; subset for NJ	--	11
1898 --	<b>typhoid fever</b> (over 4,627 U.S. deaths), First and Sec. NJ Vol. Inf., US camps	--	40
1900 --	<b>croup</b> ; upper airway contagious viral infection; NJ subset, 12,484 US croup deaths--	241	
1900 --	<b>dysentery</b> (NJ subset of 11,710 US dysentery deaths in 1900)	--	172
1900 --	<b>malarial fever</b> (NJ subset of 14,874 US malarial fever deaths)	--	110
1900 --	<b>measles</b> (NJ subset of 12,866 US measles deaths)	--	206
1901 --	Nov, <b>tetanus-tainted smallpox vaccination deaths</b> , Camden, NJ	--	9
1903 --	<b>smallpox</b> , Burling county rural/5, Camden/6, Newark/3; $\geq 1,457$ US deaths	--	17
1906 --	<b>epidemic cerebro-spinal meningitis</b> ; 3,258 in US registration area; NJ	--	182
1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; NJ, 14.5	--	371
1911 --	Nov 10-Dec 10, <b>tuberculosis</b> , NJ State	--	318
1913 --	<b>measles</b> , 8,108 US "registration area" (65.1%) deaths; NJ, 4 <sup>th</sup> lowest death rate	--	214
1913 --	<b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, NJ	--	30
1914 --	<b>polio</b> , July-Dec, especially children (subset of 720 US polio deaths)	--	19
1915 --	<b>polio</b> ; 691 registration area deaths (67.1% population); subset for NJ	--	24
1915 --	Dec, <b>influenza and pneumonia</b> subset of larger epidemic, Camden, NJ	--	77
1916 --	July 30, <b>sabotage explosion</b> , Black Tom Munitions Depot, NY Bay, Jersey City, NJ--	7	
1917 --	<b>anthrax</b> , Camden (2), Cedar Grave, Long Branch (2), Newark	--	6
1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; NJ, 13.8	--	417
1920 --	<b>scarlet fever</b> (NJ subset of 4,004 scarlet fever deaths in 34 registration states)	--	110
1920 --	<b>typhoid fever</b> (NJ subset of 6,805 typhoid fever deaths in 34 registration states)	--	105
1925 --	<b>anthrax</b> (NJ subset of 22 US anthrax deaths)	--	1
1925 --	<b>dysentery</b> (NJ subset, 3,257 US dysentery deaths)	--	29
1925 --	<b>influenza</b> ; NJ subset, 30,538 US influenza deaths; 636 state death toll average	--	482
1925 --	<b>polio</b> ; 1,518 US polio deaths; subset for NJ	--	33
1925 --	<b>typhoid/paratyphoid fever</b> (NJ subset, 8,287 US Typhoid Fever deaths)	--	114
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; NJ, 3.6	--	146
1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (NJ subset of 1,997 U.S. diphtheria deaths)	--	25
1939 --	<b>whooping cough</b> ; 3,026 US whooping cough deaths; subset for NJ	--	44
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); NJ death rate 12.3	--	510
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, NJ 0.6	--	24
1940 --	Feb 14, Valentine's Day <b>winter nor'easter, snow-storm</b> , NJ	--	8
1941 --	<b>measles</b> , especially children (NJ subset of 2,279 measles deaths nationwide)	--	25
1944 --	<b>influenza</b> (NJ subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	--	220
1944 --	<b>measles</b> , especially Jan-June (NJ subset of 1,923 measles deaths nationwide)	--	12

**New Jersey (continued):**

1944 --	<b>whooping cough</b> (NJ subset of 1,878 whooping cough deaths nationwide)	--	11
1944 --	Sep 15, <b>Great Atlantic Hurricane</b> , NJ	--	7-9
1946 --	<b>polio</b> , especially July-Nov (subset of 1,845 polio deaths nationwide), NJ	--	26
1948 --	Aug 24, <b>USAF C-47 collides with USAF B-25</b> (no losses), 5M N of Newton, NJ	--	all 9
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths, NJ	--	19
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for NJ	--	11
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for NJ	--	33
1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; subset for NJ	--	14
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths; NJ	--	49
1953 --	<b>influenza</b> ; 9,500 US deaths; subset for NJ	--	50
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; NJ subset	--	617
1954 --	Oct 15-16, <b>Hurricane Hazel</b> (subset of 103-108 US deaths), NJ	--	7
1957 --	<b>influenza</b> ; 7,463 US deaths; NJ subset	--	124
1957 --	Dec 04, <b>snowstorm</b> , NJ	--	6
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; NJ death rate 0.8	--	47
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; NJ death rate 6.1	--	370
1960 --	Sep 11-12, <b>Hurricane Donna</b> , NJ	--	9
1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; NJ death rate 0.4	--	28
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; NJ death rate 1.0	--	66
1963 --	Apr 20-22, forest fires, NJ	--	6-7
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; NJ death rate 0.2	--	11
1964 --	especially Oct, <b>St. Louis Encephalitis</b> , Camden and Burlington Counties, NJ	--	8
1964 --	Jan 12-14, <b>snowstorm and coldwave</b> , esp. NE US (146-167), NJ	--	9
1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; NJ death rate 0.4	--	30
1966 --	<b>excessive natural heat</b> , subset of 613 US heat deaths, NJ	--	9
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for NJ	--	29
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; NJ 2.09--	147	
1968 --	Dec 08-Mar 29, 1969; A2 "Hong Kong" <b>influenza-pneumonia</b> epidemic, 7 cities <sup>555</sup> --	262	
1969 --	<b>chickenpox</b> ; ICD-8 code 052; 81 US deaths; NJ	--	5
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; NJ 0.86--	61	
1969 --	Nov 29, multiple vehicles <b>collide</b> in <b>fog</b> , fires, NJ Turnpike, no. of Swedesboro, NJ--	6	
1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; NJ 0.67	--	48
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; NJ 0.34--	25	
1972 --	<b>chickenpox</b> ; 122 US deaths; NJ	--	8
1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; NJ rate 1.28--	94	
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; NJ 0.83	--	61
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; NJ/0.546	--	40
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; NJ, 0.63	--	46
1976 --	<b>chickenpox</b> ; 106 US deaths/death rate 0.05 per 100K; NJ death rate 0.10	--	7
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; NJ 1.6--	116	
1977 --	<b>chickenpox</b> , 89 US chickenpox deaths/death rate 0.04 per 100K, NJ rate 0.11	--	8
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; NJ, 0.41	--	30
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; NJ, 0.97	--	71

<sup>555</sup> Camden, Elizabeth, Jersey City, Newark, Paterson, Trenton. U.S. influenza epidemic death toll was 33,800.

**New Jersey (continued):**

1978 -- Feb 5-7, <b>nor'easter &amp; blizzard</b> , Northeast (NJ subset of total fatalities of 90-119)--	7
1979 -- <b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; NJ, 0.14	-- 10
1979 -- <b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; NJ, 0.83	-- 61
1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, NJ, 0.92	-- 68
1980 -- <b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; NJ, 0.76	-- 56
1981 -- <b>chickenpox</b> , NJ subset, 84 US deaths/death rate 0.04 per 100K; NJ rate 0.07	-- 5
1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, NJ, 0.73	-- 54
1981 -- <b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; NJ, 0.72	-- 53
1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, NJ death rate 0.22	-- 16
1982 -- <b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, NJ, 0.63	-- 47
1982 -- Jan 08-18, <b>winter weather, extreme cold</b> and snow storms	-- $\geq$ 5
1983 -- <b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, NJ, 0.15	-- 11
1983 -- <b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K; NJ, 0.70	-- 52
1983 -- Dec 18-26, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	-- 8
1983 -- summer <b>heat</b> , esp. July-Aug, deaths in 5 counties (subset of 597 U.S. deaths)	-- 7
1984 -- <b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, NJ death rate 0.20	-- 15
1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, NJ death rate 0.51	-- 39
1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: NJ death rate 0.47	-- 36
1986 -- July 20, stolen police <b>car</b> runs red light, rams car killing 6 inside, Moorestown, NJ--	6
1987 -- <b>chickenpox</b> ; 89 US deaths/death rate 0.04 per 100K; NJ, 0.08	-- 6
1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; NJ, 0.36	-- 28
1989 -- <b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; NJ, 0.13	-- 10
1989 -- Oct 10, <b>Paramount Aviation helicopter crash</b> , fatigued blade failure, Lacey Twp., NJ--	5
1990 -- <b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; NJ, 0.37	-- 29
1991 -- <b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; NJ, 0.19	-- 15
1992 -- <b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, NJ, 0.36	-- 28
1992 -- <b>tuberculosis</b> , 1,705 US TB deaths, death rate of 0.66 per 100K; NJ, 0.66	-- 52
1992 -- Feb 13, <b>fire</b> , space heaters or smoking, row house (5 children), Camden NJ	-- 8
1993 -- <b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; NJ, 0.23	-- 18
1993 -- Mar 13-14, <b>Superstorm of 1993</b> , NJ	-- 7
1993 -- Mar 28, <b>Piper Aztec takeoff crash</b> 3M from Teterboro AP, Elmwood Park, NJ	-- all 6
1995 -- <b>tuberculosis</b> ; 1,336 US TB deaths; death rate 0.5 per 100K; NJ, 0.47	-- 38
1995 -- Aug 14-19, <b>Hurricane Felix</b> , drownings in surf and rip-tides, NJ	-- 5
1996 -- <b>influenza</b> , 745 US flu deaths; death rate 0.276 per 100K; NJ, 0.159	-- 13
1996 -- <b>tuberculosis</b> , 1,202 US TB deaths/death rate 0.45 per 100K; NJ 0.40	-- 33
1997 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, NJ, 0.34	-- 28
1998 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; NJ, 0.37	-- 31
1999 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; NJ, 1.191	-- 16
1999 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; NJ rate 0.299	-- 25
1999 -- Sep 16, <b>Hurricane Floyd</b> , especially Bergen, Passaic, Salem, Somerset counties	-- 6
2000 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; NJ rate 0.368	-- 31
2003 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; NJ rate 0.174	-- 15
2004 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; NJ rate 0.266	-- 23
2005 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; NJ rate 0.243	-- 21



**New Jersey (continued):**

2005 --	tuberculosis, ICD-10 code A16-19, US death rate 0.22 per 100K; NJ rate 0.20	--	17
2006 --	tuberculosis, ICD-10 code A16-19, death rate 0.22 per 100K; NJ rate 0.17	--	15
2009 --	influenza (avian), ICD-10 code J09 (US death rate 0.5 per 100K); NJ rate 0.1	--	12
2009 --	tuberculosis, ICD-10 code A16-19; US death rate 0.2 per 100K; NJ rate 0.1	--	10
2009 --	Aug 09, private plane and helicopter collide, Hudson River, off Hoboken, NJ	--	9
2010 --	tuberculosis, ICD-10 code A16-19, US death rate 0.2 per 100K; NJ rate 0.2	--	18
2010 --	viral hepatitis, ICD-10 code B15-B19; US death rate 2.4 per 100K; NJ rate 2.0	--	179
2011 --	influenza, ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; NJ rate 0.3	--	23
2011 --	tuberculosis, ICD-10 Codes A16-A19; US death rate 0.2 per 100K; NJ rate 0.2	--	14
2011 --	Oct 29, nor'easter snowstorm, CO poisonings, fires, tree fall, vehicular, NJ	--	8
2012 --	viral hepatitis, ICD-10 code B-15-B19, US death rate 2.6 per 100K; NJ rate 2.2	--	191
2012 --	tuberculosis, ICD-10 code A16-A19; US death rate 0.2 per 100,000; NJ rate 0.1	--	10
2013 --	viral hepatitis, ICD-10 code B-15-B19; US death rate 2.6 per 100K; NJ rate 1.9	--	169
2013 --	influenza, ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; NJ rate 0.7	--	64
2014 --	viral hepatitis, ICD-10 code B15-B19, US death rate 2.5 per 100K; NJ rate 1.8	--	158
2014 --	influenza, ICD-10 codes J09-J11.8; US death rate 1.4 per 100,000; NJ rate 0.7	--	66
2015 --	influenza, ICD-10 codes J09-J11.8; US death rate 1.6 per 100,000; NJ rate 1.4	--	126
2015 --	tuberculosis, ICD-10 Codes A16-A19; US and NJ death rate 0.1 per 100,000	--	11
2015 --	viral hepatitis, ICD-10 code B15-B19; US death rate 2.3 per 100K; NJ rate 1.4	--	128
2016 --	influenza, ICD-10 codes J09-J11.8; US death rate 0.9 per 100,000; NJ rate 0.7	--	63
2016 --	tuberculosis, ICD-10 Codes A16-A19; US and NJ death rate 0.2 per 100,000	--	18
2016 --	viral hepatitis, ICD-10 code B15-B19; US death rate 2.0 per 100K; NJ rate 1.4	--	126
2016 --	Jan 20-23, ice and snow storm Jonas, CO poisoning, heart attacks, hypothermia	--	6
2017 --	influenza; 6,515 US deaths/death rate 2.0 per 100K pop.; NJ death rate 0.94	--	85
2018 --	influenza, ICD codes J09-11.8/death rate 3.41 per 100K pop., NJ death rate 2.30	--	205
2018 --	tuberculosis, ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; NJ subset	--	10
2019 --	excessive natural heat deaths, 915 US deaths, subset for NJ	--	9
2019 --	tuberculosis, ICD-10 codes A16-A19 (526 US TB deaths); subset for NJ	--	14
2020 --	influenza; 5,943 US deaths/death rate 1.8 per 100K; NJ death rate 1.29	--	115
2021 --	exposure to excessive natural cold; 1,179 US deaths/death rate 0.36; NJ subset	--	16
2023 --	COVID-19, subset of 71,691 US deaths	--	994

**Breakout by Type of New Jersey Large-Loss-of-Life Events (10 or more fatalities):**

190 --	Disease, especially communicable, especially epidemics. (Plus 133 in "Other.")
48 --	Winter Weather/Cold/Hypothermia. (Plus 10 other notable years.)
35 --	Heat. (Plus e years 7-9 deaths: 9 in 1966, 7 in 1983 and 9 in 2019.)
31 --	Maritime and Inland Waterways.
23 --	Fire, structural. Plus one fire in 1992 with 8 deaths.
22 --	Rail.
19 --	Aviation. (Plus 4 events also noted with 5-9 deaths each.)
18 --	Explosions. (Plus 1 with 7 deaths in "Other.")
15 --	Violence.
4 --	Mining and Tunneling

**New Jersey (continued):**

- 4 -- **Road/Highway/Vehicular**. (Plus two with 6 deaths -- one in 1969 and one in 1986.)
- 3 -- **Wood Alcohol Poisoning**.
- 3 -- **Hurricanes**. (Plus five – 7-9 in 1944, 7 in 1954, 9 in 1960, 5 in 1995, and 6 in 1999.)
- 1 -- **Lightning**. (Cross-listed with 1926 explosion and fire.)
- 1 -- **Structural Failure**
- 0 -- **Flooding**. But 6 deaths in Aug 18-19, 1955 Hurricane Diane flooding.
- 0 -- **Fog as Contributing Factor**. (But one in 1969 with 6 deaths.)
- 0 -- **Forest Fires**. (An outbreak of forest fires April 20-22, 1963 took six or seven lives.)
- 0 -- **Poisoning (unintentional)**. (9 deaths in Camden in 1901 tetanus-tainted vaccinations.)

## NM

## New Mexico

1. 1541-42 winter, Coronado's Expeditionaries **burn-at-the-stake** Tiwa Natives, NM<sup>556</sup>--40-50
2. 1598 -- Dec 4, Pueblo Natives **kill** Juan de Zaldivar & soldiers seeking corn flour, W NM -13
3. 1599 -- Jan 21, Spanish (Oñate) **Massacre** Acoma Natives, punitive expedition, NM -300-800
4. 1640 -- Spanish **hang** Natives for not renouncing their faith, present day NM -- 40
5. 1657 -- Navajo **attack** Jemez Pueblo, Jémez Province, NM -- 19
6. 1668 -- **famine** and **starvation**, Las Humanas and other Pueblos, current-day NM -->450
7. 1669 -- June, Apache **attack** Acoma Pueblo, NM -- 12
8. 1837 -- Spring, Santa Rita/John Johnson **massacre**, Apache Trading Party, SX NM -- 20
9. 1847 -- Jan 19-20 Mexican/Pueblo **revolt** against U.S. NM occupation, Taos vicinity-16-≥19
10. 1850 -- May, Jicarilla Apache/Utes **massacre** US Mail wagon train, Wagon Mound, NM--10
11. 1860 -- **typhoid fever**, leading cause of NM deaths, subset, 19,236 US deaths -- 192
12. 1879 -- June-May 1880, **malarial fever**, (NM subset, 20,231 U.S.) -- 145
13. 1879 -- June-May 1880, **measles**, esp. children (NM subset, 8,254 US measles deaths)-- 142
14. 1879 -- June-May 1880, **scarlet fever**, esp. children (NM subset, 16,388 US) -- 118
15. 1879 -- June-May 1880, **whooping cough** (NM subset, 11,064 U.S. W.C. deaths) -- 171
16. 1879 -- Oct 11-19, Apache **massacre** settlers, CO and NM --21-40
17. 1880 -- **smallpox** (NM subset of approximately 1,280 smallpox deaths nationwide) -- 39
18. 1889-90 -- June-May, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; NM -- 773
19. 1889-90 -- June-May, **smallpox**, subset of 398 US smallpox deaths, highest in US -- 231
20. 1890 -- **typhoid fever** (NM subset of ~30,000 typhoid deaths nationwide) -- 71
21. 1895 -- Feb 27, **mine** explosion, White Ash Coal Mine, Cerrillos, NM -- 24
22. 1900 -- **smallpox** (subset, 8,484 US smallpox deaths; 3<sup>rd</sup> highest loss of all states) -- 287
23. 1900 -- **typhoid fever** (subset of 35,379 US typhoid fever deaths); NM -- 102
24. 1906 -- Oct 05, **mine** explosion, Dutchman Coal Mine Blossburg, NM -- 10
25. 1907 -- Dec 31, **mine** explosion, Bernal Coal Mine, Carthage, NM -- 11
26. 1908 -- Aug 27-28, cloudburst, flash **flood**, Folsom, NM -- 17
27. 1913 -- Oct 22, Stag Canon No. 2 coal **mine** over-blast & dust explosion, Dawson NM-- 263
28. 1916 -- Mar 09, Pancho Villa **attacks** Columbus, NM -- 18
29. 1918 -- **influenza and pneumonia** epidemic, NM (may well include 1919 deaths) --5,000
30. 1922 -- Nov 25, **mine** explosion, Cerillos No. 4 Coal Mine, Cerrillos, NM -- 12
31. 1923 -- Feb 8, electrical arcs & dust explosion, Stag Canon 1 coal **mine**, Dawson NM -- 120
32. 1930 -- Apr 11, **train** hits Pickwick-Greyhound **bus**, near Isleta, NM -- 22
33. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; NM, 11.7 -- 50
34. 1931 -- Nov 23, **snowstorm**, Navajo and Zuni snowbound on mesas south of Gallup NM--11
35. 1932 -- Dec 07, **mine** explosion, Morgan-James Coal Mine, Madrid, NM -- 14
36. 1933 -- Aug 29, storm, bridge weakened, **train wreck**, Tucumcari, NM -- 11
37. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); NM death rate 14.7 -- 78
38. 1940 -- **whooping cough**; 2926 US WC deaths/death rate 2.2 per 100K, NM, 13.2 -- 70
39. 1941 -- **measles**, especially children (NM subset of 2,279 measles deaths nationwide) -- 73
40. 1942 -- Oct 17, **US Army Air Force B-17 plane crash**, Sierra Grande Mt., NM -- 11
41. 1943 -- Jan 12, **US Army Air Force B-24 plane crash**, Alamogordo, NM -- 10
42. 1943 -- Jan 17, **US Army Air Force B-24 plane crash**, Alamogordo, NM -- 11
43. 1943 -- Jan 24, **US Army AF B-24 plane crash**, White Sands Nat. Monument, NM -- 11

<sup>556</sup> Refers to those burned at the stake, not to the Natives killed in fighting, or killed after surrender by "lancing."

### New Mexico (continued):

44.	1943 -- Jan 24,	<b>US Army Air Force B-24 plane crash</b> ,	Ruidoso, NM	--	10
45.	1943 -- June 15,	<b>US Army Air Force B-24Es collide</b> ,	near Ruidoso, NM	--	19
46.	1943 -- June 29,	<b>USAAF B-24E plane crash</b> ,	Alamogordo Army Air Base, NM	--	10
47.	1943 -- Aug 18,	<b>USAAF B-24E plane crash</b> ,	Otero County, NM	--	12
48.	1943 -- Nov 18,	<b>US Army AF B-24J plane crash</b> ,	near Melrose, NM	--	12
49.	1944 -- Apr 11,	<b>USN War Eagles VP-16 Orion plane crash</b> ,	east of Columbus, NM	--	12
50.	1944 -- July 20,	<b>USAAF B-24s collide</b> ,	near Roswell, NM	--	10
51.	1944 -- Aug 21,	<b>USAAF YB-29 plane crash</b> ,	25 miles from Alamogordo, NM	--	10
52.	1944 -- Sep 27,	<b>USAAF RB-24E plane crash</b> ,	near San Jon and Tucumcari, NM	--	11
53.	1944 -- Oct 15,	<b>USAAF B-29 plane crash</b> ,	Alamogordo Army Air Base, NM	--	12
54.	1944 -- Nov 10,	<b>USAAF B-29 plane crash</b> ,	near Clovis Army Air Field, NM	--	15
55.	1945 -- Apr 01,	<b>USAAF B-29 engine fire and crash</b> ,	6 miles NE of Alamogordo, NM	--	12
56.	1945 -- July 14,	<b>USAAF B29 plane crash, dust-storm</b> ,	Kirtland Field, Albuquerque, NM	--	13
57.	1946 -- Mar 7,	Kirtland AAB <b>USAAF B-29</b> disintegrates,	Los Lunas bombing range, NM	--	10
58.	1946 -- Apr 04,	<b>USN R4D-6 transport plane crash</b> ,	sandhills 15M ~Albuquerque, NM	--	11
59.	1947 -- Jan 27,	<b>USAAF B-29 takeoff crash</b> (engine trouble),	Kirtland Field, NM	--all	12
60.	1948 -- Aug 12,	<b>USAF B-29 goes out of control on takeoff climb, crashes</b>	6M S Roswell NM	--	13
61.	1949 -- Sep 30,	<b>USAF B-17 crash</b> into mesa, storm/poor visibility,	4M N of Raton, NM	--	10
62.	1950 -- Mar 08,	<b>fire</b> , prisoner jail, Sandia Secret Weapons Base,	Albuquerque, NM	--	15
63.	1950 -- Apr 11,	<b>USAF B-29 crash</b> ,	Manzano Nuclear Wpn. Storage Area ~Kirtland AFB NM	--	13
64.	1951 --	<b>measles</b> , 688 US deaths; subset for NM		--	16
65.	1951 --	<b>whooping cough</b> ; 960 US deaths; subset for NM (11 <sup>th</sup> highest US state loss)		--	28
66.	1951 -- May 06,	<b>USAF B-36 landing crash</b> ,	high wind, Kirtland AFB ~Albuquerque, NM	--	23
67.	1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for NM		--	26
68.	1953 --	<b>measles</b> , 483 US deaths, 23 states in double digits; subset for NM		--	13
69.	1954 --	<b>dysentery</b> , infectious, all forms (codes 045-048), 655 US deaths; NM subset		--	23
70.	1954 --	<b>measles</b> ; 524 US deaths; 21 states double digits; NM subset		--	10
71.	1954 -- Oct 06-07,	"heaviest rains in years," Pecos Valley <b>flooding/flash flooding</b> ,	NM	--	13
72.	1955 --	<b>measles</b> , 345 US deaths (7 states double digits); NM (5 <sup>th</sup> high US State loss)		--	23
73.	1955 --	<b>whooping cough/pertussis</b> , 476 US deaths/15 states in double digits; NM		--	11
74.	1955 -- Feb 19,	off course <b>TWA # 260 flies into Sandia Mt.</b> ,	~Albuquerque, NM	--all	16
75.	1956 -- June 26,	<b>USAF KC-97 tanker fire/crash</b> after takeoff,	10M ~Walker AFB, NM	--all	11
76.	1956 -- Sep 05,	switching error, Santa Fe Express <b>trains collide</b> ,	near Robinson, NM	--	20
77.	1957 --	<b>measles</b> ; 389 US deaths; 15 states double digit deaths; NM subset		--	15
78.	1957 -- fall-spring 1958,	H2N2 Asian <b>influenza/pneumonia pandemic</b> (US 116K) <sup>557</sup>		--	354
79.	1958 --	<b>measles</b> ; 552 US deaths; 23 States in double digits, including NM		--	13
80.	1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; NM subset		--	81
81.	1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; NM death rate 6.4		--	61
82.	1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; NM death rate 8.1		--	77
83.	1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; NM death rate 1.6		--	16
84.	1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; NM death rate 6.9		--	68
85.	1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; NM death rate 2.2		--	22

<sup>557</sup> "...in early September...New Mexico, Utah, and Arizona suffered explosive school and community outbreaks." (Communicable Disease Center. *Asian Influenza 1957-1960*. 1960, p. 13.)



## New Mexico (continued):

86.	1962	--	tuberculosis	; 9,508 US deaths/death rate 5.1 per 100K pop.; NM rate 6.9	--	70
87.	1963	--	dysentery	; 294 US deaths/death rate 0.2 per 100K pop.; NM death rate 1.3	--	13
88.	1963	--	tuberculosis	, 9311 US deaths/death rate 4.9 per 100K pop.; NM death rate 6.9--		70
89.	1964	--	tuberculosis	; US deaths 8,303/death rate 4.3 per 100K; NM death rate 6.7	--	68
90.	1965	--	tuberculosis	, 7,934 US deaths/death rate 4.1 per 100K; NM death rate 6.6	--	68
91.	1966	--	dysentery	, 172 US deaths, esp. TX (31), GA (12), CA (11), MS (11), NM (10)--		10
92.	1966	--	tuberculosis	, 7,625 US TB deaths; subset for NM	--	51
93.	1968	--	excessive natural cold	; ICD-8 code E901; subset of 494 of US cold deaths; NM--		10
94.	1968	--	influenza	, ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; NM 4.2--		41
95.	1968	--	tuberculosis	, 6,292 US deaths/death rate 3.15 per 100K; NM death rate 3.27	--	32
96.	1969	--	excessive natural cold	; ICD-8 code E901; 424 US deaths; NM	--	16
97.	1969	--	tuberculosis	; 5,567 US deaths/death rate 2.76 per 100K; NM death rate 3.40	--	34
98.	1969	--	Dec 05, Lockheed Lodestar plane structural failure/crash	~Albuquerque, NM	--	all 11
99.	1970	--	excessive natural cold	; ICD-8 code E901; 466 US deaths; NM (highest state loss)--		21
100.	1970	--	influenza	; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; NM 2.35--		24
101.	1970	--	tuberculosis	; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; NM 2.8--		28
102.	1971	--	excessive natural cold	; ICD-8 code E901; 361 US deaths; NM (US state high)--		21
103.	1971	--	tuberculosis	; 4,501 US deaths/death rate 2.18 per 100K; NM death rate 2.65--		28
104.	1972	--	excessive natural cold	, ICD-8 code E901, 490 US deaths; NM	--	22
105.	1972	--	influenza	, ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; NM 3.71--		40
106.	1972	--	tuberculosis	; 4,376 US deaths, death rate 2.09 per 100K; NM death rate 3.89--		42
107.	1972	--	Dec 26, semi-trailer hits church bus, US 60-84 bridge near Fort Sumner, NM--			19
108.	1973	--	excessive natural cold	; ICD-8 code E901; 381 US deaths; NM subset	--	16
109.	1973	--	influenza	; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; NM 4.07--		45
110.	1973	--	tuberculosis	; 3,875 US deaths/death rate 1.84 per 100K; NM 2.62 per 100K--		29
111.	1974	--	exposure to excessive natural cold	; 348 US deaths; NM had US State high death rate--		19
112.	1974	--	tuberculosis	; 3,513 US TB deaths/death rate 1.65 per 100K; NM rate 2.03	--	23
113.	1975	--	exposure to excessive natural cold (ICD-8 E901)	; 359 US deaths; NM <sup>558</sup>	--	21
114.	1975	--	influenza	, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; NM/2.9--		34
115.	1975	--	tuberculosis	; 3,333 US TB deaths/death rate 1.55 per 100K; NM rate 2.41	--	28
116.	1976	--	influenza	; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; NM 7.8--		93
117.	1976	--	tuberculosis	; 3,130 US TB deaths/death rate 1.44 per 100K; NM rate 2.84	--	34
118.	1977	--	tuberculosis	; 2,968 US TB deaths/death rate 1.35 per 100K; NM rate 1.55	--	19
119.	1977	--	Sep 14, USAF EC-135K plane crash	, Mt. Manzano range, ~Albuquerque NM--		20
120.	1978	--	tuberculosis	, 2,914 US TB deaths/death rate 1.31 per 100K; NM rate 1.91	--	24
121.	1979	--	tuberculosis	, 2,007 US TB deaths/death rate 0.89 per 100K; NM, 1.40	--	18
122.	1980	--	tuberculosis	; 1,978 US TB deaths/death rate 0.87 per 100K; NM, 1.00	--	13
123.	1980	--	Feb 2-3, NM State Penitentiary uprising/inmate killings, ~Santa Fe, NM		--	≥33
124.	1981	--	tuberculosis	; 1,937 US TB deaths/death rate 0.84 per 100K; NM, 1.12	--	15
125.	1983	--	tuberculosis	, 1,779 US TB deaths/death rate 0.76 per 100K; NM, 0.93	--	13
126.	1984	--	exposure to excessive natural cold/hypothermia	; 359 US deaths; NM	--	10
127.	1985	--	exposure to excessive natural cold/hypothermia	; 519 US deaths; NM	--	12
128.	1985	--	tuberculosis	, 1,752 US TB deaths, death rate 0.74 per 100K; NM, 0.97	--	14

<sup>558</sup> Largest loss of life to exposure to excessive natural cold of any State in the US in 1975.

## New Mexico (continued):

129.	1986 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	301 US deaths; NM	--	10
130.	1986 -- Apr 02, <b>USAF Hercules C-130 plane crash</b> ,		Magdalena, NM	--	11
131.	1987 -- <b>tuberculosis</b> ;	1,755 US TB deaths, death rate 0.72 per 100K; NM, 0.74		--	11
132.	1988 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	431 US deaths; NM	--	13
133.	1988 -- <b>influenza</b> ;	1,943 US flu deaths, death rate 0.79 per 100K; NM, 0.80		--	12
134.	1989 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	524 US deaths; NM	--	25
135.	1989 -- <b>influenza</b> ,	1,593 US flu deaths, death rate 0.64 per 100K; NM, 1.00		--	15
136.	1990 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	596 US deaths; NM	--	18
137.	1990 -- <b>tuberculosis</b> ,	1,810 US TB deaths, death rate 0.73 per 100K; NM, 0.79		--	12
138.	1991 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	588 US deaths; NM	--	24
139.	1991 -- <b>tuberculosis</b> ,	1,713 US TB deaths, death rate of 0.68 per 100K, NM, 0.77		--	12
140.	1992 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	558 US deaths; NM	--	27
141.	1993 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	641 US deaths; NM	--	21
142.	1994 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	633 US deaths; NM	--	22
143.	1995 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	553 US deaths; NM	--	15
144.	1996 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	685 US deaths; NM	--	14
145.	1997 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	501 US deaths; NM	--	34
146.	1998 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	420 US deaths; NM	--	19
147.	1998 -- <b>influenza</b> , ICD-9 code 487.0;	US death rate 0.62 per 100K; NM rate 0.72		--	13
148.	1999 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	598 US deaths; NM	--	12
149.	1999 -- <b>influenza</b> , ICD-10 codes J09-11.8;	US death rate 0.597 per 100K; NM, 0.830--		15	
150.	1999 -- <b>tuberculosis</b> , ICD-10 code A16-19,	death rate 0.333 per 100K; NM, 0.608		--	11
151.	1999 -- Dec 04, illegal worker <b>van</b> collides with 18-wheeler, I-40 ~Albuquerque, NM--				13
152.	2000 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	742 US deaths; NM	--	24
153.	2000 -- Aug 19, El Paso Natural Gas <b>pipeline rupture</b> and <b>fire</b> ,		Carlsbad, NM	--	12
154.	2001 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	599 US deaths; NM	--	19
155.	2002 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	646 US deaths; NM	--	16
156.	2003 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	620 US deaths; NM	--	14
157.	2003 -- <b>influenza</b> , ICD-10 codes J09-11.8;	US death rate 0.618 per 100K; NM, 0.959--		18	
158.	2004 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	676 US deaths; NM	--	19
159.	2005 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	700 US deaths; NM	--	14
160.	2005 -- <b>influenza</b> , ICD-10 codes J09-11.8;	US death rate 0.613 per 100K; NM, 1.035--		20	
161.	2006 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	519 US deaths; NM	--	20
162.	2006 -- <b>influenza</b> , ICD-10 codes J09-11.8;	US death rate 0.285 per 100K; NM, 0.561--		11	
163.	2007 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	711 US deaths; NM	--	22
164.	2008 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	641 US deaths; NM	--	18
165.	2009 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	616 US deaths; NM	--	18
166.	2009 -- <b>diarrhoea/gastroenteritis</b> , infectious origin;	US death rate 0.9 per 100K; NM 1.2--		24	
167.	2009 -- <b>H1N1 swine flu</b> , especially fall/winter, (subset of >12,000 U.S. deaths)			--	58
168.	2010 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	710 US deaths; NM	--	19
169.	2010 -- <b>viral hepatitis</b> , ICD-10 code B15-B19;	US death rate 2.4 per 100K; NM, 4.5--		93	
170.	2011 -- exposure to excessive natural	<b>cold/hypothermia</b> ;	0.216 death rate; NM, 0.769--	16	
171.	2011 -- <b>diarrhoea and gastroenteritis</b> of infectious origin (ICD-10 code A09)			--	21
172.	2011 -- <b>influenza</b> , ICD-10 codes J09-J11.8;	US death rate 0.5 per 100,000; NM, 0.9--		19	

**New Mexico (continued):**

173.	2011	--	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; NM, 3.6	--	75
174.	2012	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, NM 1.2	--	24
175.	2012	--	exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; NM	--	19
176.	2012	--	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100K; NM, 4.8	--	99
177.	2013	--	exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; NM	--	19
178.	2013	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100K; NM, 4.3	--	89
179.	2014	--	exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; NM	--	28
180.	2014	--	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; NM, 3.3	--	69
181.	2014	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.4 per 100K; NM had 1.7	--	35
182.	2015	--	exposure to excessive natural <b>cold/hypothermia</b> ; 815 US deaths; NM	--	21
183.	2015	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; NM, 3.7	--	76
184.	2016	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.7 per 100K, NM 1.0	--	20
185.	2016	--	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; NM	--	24
186.	2016	--	exposure to <b>excessive natural heat</b> , 786 US deaths, subset for NM	--	10
187.	2016	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; NM, 3.8	--	80
188.	2017	--	exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths; NM	--	16
189.	2018	--	exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; NM	--	19
190.	2018	--	exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for NM	--	10
191.	2019	--	excessive natural <b>cold</b> ; 1,115 US deaths, death rate 0.34; NM 1.81 (US high)	--	38
192.	2019	--	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, NM rate 2.58	--	54
193.	2020	--	exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; NM 1.52	--	32
194.	2020	--	exposure to <b>excessive natural heat</b> ; 1,174 US deaths, subset for NM	--	12
195.	2020	--	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; NM death rate 2.66	--	56
196.	2020	--	<b>COVID-19</b> ; 354,215 US Covid deaths (1070 per 1M); NM 1,181 per 1M pop.	--	2,477
197.	2021	--	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; NM, 2.8K per M	--	3,378
198.	2021	--	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; NM 1.65	--	35
199.	2021	--	exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for NM	--	17
200.	2022	--	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; NM death rate 6.94	--	2,960
201.	2022	--	exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for NM	--	21
202.	2023	--	exposure to <b>excessive natural heat</b> ; 2,155 US deaths, subset for NM	--	22

**Some Select/Notable Other New Mexico Large Loss-of-Life Events:<sup>559</sup>**

1801-02	--	<b>smallpox</b> pandemic, Native Amer., Central, Midwest, esp. Upper, Northwest <sup>560</sup>	--	?
1850	--	<b>scurvy</b> , NM subset of 54 scurvy deaths in Census survey of 31 states/4 terr./DC	--	5
1850	--	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	--	18
1870	--	<b>diarrhoea</b> (21), <b>dysentery</b> (29), <b>enteritis</b> (30); data from U.S. Census	--	80
1870	--	<b>scarlet fever</b> , especially children (NM subset of 20,339 deaths nationwide)	--	36
1870	--	<b>typhus</b> (NM subset of 1,770 typhus deaths nationwide)	--	11
1879	--	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	13

<sup>559</sup> We include in "Other" two categories: (1) events wherein fewer than 10 lives were lost, but which we take note, and (2) diseases that caused more than ten lives lost, but had below State average death rate.

<sup>560</sup> We do not have a number. We do have sources which state the Pawnee were infected with smallpox and carried it back home after attacking Natives in NM who had smallpox. Estimate more than 9,090 Natives died; today's US.

**New Mexico (continued):**

1879 -- June-May 1880, <b>typhoid fever</b> ; subset of 23,339 US typhoid deaths; NM	--	48
1889-90 -- June-May, <b>croup</b> , NM	--	19
1889-90 -- June-May, <b>typhoid fever</b> , subset of 27,058 US typhoid deaths, NM	--	50
1895 -- Mar 09 or 10, Old Abe gold <b>mine</b> fire, White Oaks, NM	--	5-9
1900 -- <b>croup</b> (upper airway contagious viral infection; NM subset, 12,484 US croup deaths--	45	
1900 -- <b>diphtheria</b> (NM subset of 16,475 US diphtheria deaths in 1900)	--	56
1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths)	--	26
1900 -- <b>malarial fever</b> (subset of 14,874 US malarial fever deaths)	--	80
1900 -- <b>measles</b> (subset of 12,866 US measles deaths)	--	71
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	44
1900 -- <b>tuberculosis</b> (2,674 NM deaths all causes) (109,750 US TB deaths), subset for NM--	152	
1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	--	29
1922 -- Nov 05, anthracite coal <b>mine</b> explosion in number four shaft, Madrid, NM	--	7
1929 -- Sep 03, 1 <sup>st</sup> US <b>lightning-hit plane crash</b> , <b>Transcontinental Air</b> , ~Mt. Taylor, NM--	8	
1930 -- Dec 06, Lamb coal <b>mine</b> explosion, Madrid, NM	--	5
1931 -- <b>diphtheria</b> , especially children (NM subset, 5,738 U.S. diphtheria deaths)	--	46
1931 -- <b>influenza</b> (NM subset of 31,701 influenza deaths nationwide)	--	149
1931 -- <b>measles</b> , especially children (NM subset, 3,576 measles deaths nationwide)	--	41
1931 -- <b>tuberculosis</b> ; subset of 81,395 US TB deaths	--	644
1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (NM subset of 1,997 U.S. diphtheria deaths)	--	15
1939 -- <b>influenza and pneumonia</b> (NM subset, 99,097 U.S. influenza/pneumonia deaths)--	598	
1939 -- <b>tuberculosis</b> (NM subset of 61,609 tuberculosis deaths nationwide)	--	336
1939 -- <b>whooping cough</b> (NM subset of 3,026 whooping cough deaths nationwide)	--	39
1940 -- <b>influenza and pneumonia</b> ; 92,525 US flu and pneumonia deaths; subset for NM	--	400
1940 -- <b>tuberculosis</b> (NM subset of 55,576 tuberculosis deaths nationwide)	--	322
1944 -- <b>measles</b> , especially Jan-June; subset of 1,923 measles deaths nationwide; NM	--	33
1944 -- <b>tuberculosis</b> ; subset of 54,731 tuberculosis deaths nationwide; NM	--	345
1944 -- <b>whooping cough</b> ; 1,878 US whooping cough deaths; subset for NM	--	13
1944 -- July 28, Brilliant coal <b>mine</b> No. 2 shaft explosion, Brilliant, NM	--	6
1945 -- Jan 18, <b>USAAF B-29 engine fire on takeoff</b> , emer. landing crash, 20M SW Alamogordo NM--	6	
1945 -- Aug 01, <b>USAAF PB-5A crash</b> , Hunter Field, GA to Mather Field, CA, ~Grants, NM--	7	
1946 -- <b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths)	--	10
1949 -- May 16, <b>USAF C-47</b> crash after engine fire, 3.1M E of Roswell-Walker AFB, NM--	6	
1949 -- Dec 15, <b>USAF B-29 landing attempt crash</b> at Walker AFB near Roswell, NM	--	7
1950 -- <b>measles</b> ; subset of 468 US polio deaths	--	8
1950 -- <b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	--	8
1951 -- <b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths	--	11
1951 -- <b>tuberculosis</b> (respiratory), 31,163 US deaths, subset for NM	--	215
1951 -- Apr 05, <b>USAF C-45F Expeditor crash</b> , Organ Mountains, 15M e of Las Cruces, NM--	6	
1952 -- <b>influenza</b> ; 5,649 US deaths; subset for NM	--	34
1952 -- <b>measles</b> , 621 US deaths; 24 states double digits; subset for NM	--	11
1952 -- <b>polio</b> , subset of ~3,300 US polio deaths; especially Bernalillo County (10), NM	--	38
1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for NM	--	152
1952 -- Mar 26, <b>USAF B-47 Stratojet crash</b> , Kirtland Air Force Base, Albuquerque, NM--	4	



**New Mexico (continued):**

1953 --	<b>influenza</b> ; 9,500 US deaths; NM subset	--	71
1953 --	<b>polio</b> , subset of 1,450 US polio deaths	--	7
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; NM subset	--	101
1953 --	Oct 09, <b>car</b> and motorcycle collide, US 285, 37 miles north of Roswell, NM	--	5
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; NM subset	--	102
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; NM subset	--	102
1956 --	<b>measles</b> , 530 US deaths/21 states in double digits; NM subset	--	9
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; NM subset	--	91
1957 --	<b>influenza</b> ; 7,463 US deaths; NM subset	--	54
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; NM subset	--	88
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; NM subset	--	101
1962 --	<b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population; NM 0.9	--	9
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; NM death rate 3.5	--	36
1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; NM death rate 0.7	--	7
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for NM	--	29
1968 --	Dec 15-Feb 1, A2 "Hong Kong" <b>influenza</b> -pneumonia epidemic, Albuquerque <sup>561</sup>	--	53
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; NM 2.5	--	24
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; NM death rate 1.36	--	17
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, NM death rate 1.12	--	15
1982 --	<b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, NM, 0.73	--	10
1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, NM death rate 0.63	--	9
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; NM rate 0.71	--	10
1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: NM rate 0.75	--	11
1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; NM rate 0.68	--	10
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; NM rate 2.03	--	30
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; NM rate 2.08	--	31
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; NM rate 4.38	--	66
1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; NM rate 0.66	--	10
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; NM rate 0.73	--	11
1992 --	June 24, <b>private plane flies into mt.</b> at 6,100ft, dark night near Alamogordo, NM	--	6
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; NM rate 0.61	--	10
1993 --	Apr-Dec, <b>hantavirus</b> Pulmonary Syndrome, esp. Native Americans, NM/AZ	--	32
1993 --	Sep 5, <b>Cambridge Aviation Learjet crash</b> , rising terrain, pilot drug/alcohol impaired 7M ~Pecos NM-7		
1996 --	Dec 21, <b>Beechcraft crash in mountainous terrain in turbulent wind</b> , Chacon, NM	--	all 6
2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K, NM 0.6	--	13
2011 --	Aug-Oct, <b>listeriosis food poisoning</b> from cantaloupes; packing facility ~Holly, CO	--	5
2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US & NM death rate 0.8 per 100K	--	17
2013 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.2 per 100,000; NM rate 0.8	--	16
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; NM 0.6	--	13
2015 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate was 1.6 per 100,000; NM rate 1.4	--	29
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; NM rate 0.9	--	18
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; subset for NM	--	13
2017 --	June 19, <b>dust-storm</b> , <b>vehicular</b> pileup, westbound I-10, near Lordsburg, NM	--	6

<sup>561</sup> U.S. influenza epidemic death toll was 33,800.

2018 --	<b>HIV/AIDS</b> ;	5,425 US deaths/death rate 1.66 per 100K; NM death rate 1.48	--	31
2018 --	Aug 30, <b>semitrailer</b>	hits Greyhound bus after blowout, I-40, near Thoreau, NM	--	9
2019 --	<b>HIV/AIDS</b> ;	5,054 US deaths/death rate of 1.54 per 100,000 pop.; subset for NM	--	19
2020 --	<b>HIV</b> ;	ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; NM 1.09	--	23
2021 --	<b>HIV/AIDS</b> ;	4,977 deaths/death rate 1.50 per 100K; NM death rate 0.95	--	20
2023 --	<b>COVID-19</b> ;	subset of 71,691 US deaths	--	421

**Breakout by Type of New Mexico Large-Loss-of-Life Events (10 or more fatalities):**

- 91 -- **Disease**, especially communicable, especially epidemics. (Plus 81 in "Other.")
- 46 -- **Winter Weather (Blizzard), Cold/Hypothermia.**
- 29 -- **Aviation** (Plus 10 events noted with 4-8 deaths.)
- 12 -- **Violence**
- 7 -- **Mining.** (Plus 4: 5-9 fatalities in 1895; 7 in 1922; 5 in 1930; and 6 in 1944.)
- 6 -- **Heat**
- 5 -- **Fire, structural**
- 3 -- **Rail**
- 2 -- **Flooding/Flash Flooding**
- 2 -- **Vehicular/Road/Highway.** (3 events >10 deaths: 5 in Oct, 1953; 6 in June, 2017 9/2018.)
- 1 -- **Dust Storm.** (Cross-listed in aviation -- crash of USAAF B29 in 1945 dust storm; 1<10.)
- 1 -- **Explosion**
- 1 -- **Starvation**
- 1 -- **Structural Failure** (Pipeline rupture cross-listed in Explosion and Fire-Structural.)
- 0 -- **Lightning.** (But 8 deaths cross-listed in aviation -- 1929 lightning hit plane and crash.)
- 0 -- **Poisoning (unintentional).** (But 5 deaths, listeria food poisoned cantaloupes in 2011.)

## NY

## New York

1. 1592-96--**measles** epidemic, Seneca natives, central and western NY --100s, possibly 1000s
2. 1634-35--**smallpox** epidemic, Five Nations, especially Mohawks, Upper NY<sup>562</sup> --≥2,000
3. 1643 -- Aug, **massacre**, Anne Hutchinson's settlement by Siwanoy on Pelham Bay, NY-- 16
4. 1644 -- Early (Jan?), **massacre**, Dutch & English attack Mespeatches (Long Isl., NY)-- 120
5. 1644 --Feb, **massacre**, Dutch attack Siwanoy, Petuquapaen, Westchester Co., NY<sup>563</sup> --500-700
6. 1655 -- Sep 15-18, Natives **attack** Dutch in New Netherland (NY and NJ)<sup>564</sup> --16-100
7. 1659 -- Sep 25-mid Oct, murder retaliation, Natives **attack** Wiltwyck (Kingston, NY)-- ~10
8. 1662-63--**smallpox**, NY Iroquois Confederacy, Fort Orange, NY, Dutch settlers -->1,000
9. 1663 -- June 7, **massacre**, Natives attack Dutch at Wiltwyck (Kingston, NY) and vic.--22-24
10. 1668 -- late summer to early fall, **yellow fever** epidemic, New York City, NY<sup>565</sup> --many
11. 1689-90--**smallpox**, New England and NY,<sup>566</sup> settlers and natives (≥820-1,500) -->400
12. 1690 -- Feb 8, **massacre** at Schenectady, French and Indians, NY, NY -- 60
13. 1690 -- spring-fall, **smallpox**, Iroquois Native Americans, esp. upper New York --~300-500
14. 1702 -- summer to late fall, **yellow fever** epidemic, New York City, NY --500-570
15. 1712 -- Apr 06, Fear of Insurrection of Blacks leads to mass **executions**, NYC NY -- 21
16. 1731 -- **smallpox** epidemic, New York City --548-700
17. 1732 -- **smallpox**, Albany (68), Kingston (22), NYC (≥1) and up-state Iroquois (?) -- ≥91
18. 1732 -- May-Oct, **yellow fever**, New York City, NY -- ~70
19. 1741 -- Mar, alleged slave uprising, Blacks **burned** and **hanged**, NYC, NY --33-52
20. 1742 -- **smallpox** outbreak in NY -- 250
21. 1743 -- July 25-Oct, **yellow fever** epidemic, New York City, NY -- 217
22. 1745 -- Nov 16, Schuylerville **massacre**, French Raiders, near Saratoga, NY -- 30
23. 1746 -- Aug-frost (probably Oct), **yellow fever or typhoid** epidemic, Albany, NY<sup>567</sup> -- 45
24. 1757 -- Aug, Natives **massacre** garrison after surrender, Fort William Henry, NY -- ~184
25. 1767 -- Late summer, **epidemic (dysentery?)**, New York City, NY<sup>568</sup> -- ≥30
26. 1769 -- **throat distemper (diphtheria)**, especially children, New York City, NY -- >10
27. 1776 -- Summer-Fall (esp.) **dysentery**, Upstate, Lake George, NYC, Long Island<sup>569</sup> -- ≥10
28. 1777 -- Summer-Fall (esp.) **dysentery**, esp. Albany, upstate, Lake Champlain, NYC -- ≥100
29. 1778 -- May 30, Violence, Loyalists and Indians **attack** Cobus Kill settlement, NY -- ~52
30. 1778 -- Nov 11, **massacre**, women/children, Loyalist/Seneca Force, Cherry Valley NY-- 48
31. 1780 -- American sailing ship **Watt** wrecks on Long Island, NY -- 26
32. 1791 -- **yellow fever** epidemic, New York City, NY -- 200
33. 1799 -- July-Nov, **yellow fever**, New York City, NY -- 76

<sup>562</sup> We assume that if, as reported, thousands died, then at least 2,000 must have died.

<sup>563</sup> In dispute – some place this at Cos Cob, CT. (Dinan. “Historians Sift Clues...” *Greenwich Time*, 3-5-2006.)

<sup>564</sup> Cross-listed in New Jersey. We do not have a breakout of Dutch fatalities depending on which side of the river they were. The dates of Sep 15-18 are for the initial Native attacks and colonial deaths. There were additional deaths on both sides in retaliatory Dutch attacks.

<sup>565</sup> Have not seen death-toll estimate. In proclaiming Day of Humiliation, NY Governor Lovelace wrote that “many” were “daily swept away & many more lying on their languishing beds, expecting each hour their dissolution.”

<sup>566</sup> We do not know the mortality amongst the settlers. One account notes 400 fatalities amongst the Iroquois.

<sup>567</sup> Sources consulted then and since (five), disagree as to yellow fever or typhoid.

<sup>568</sup> Our number. Source notes “fifteen deaths were reported daily” during an epidemic (dysentery section of a paper).

<sup>569</sup> Ten or more is our stand in number given our failure to locate specific numbers as opposed to descriptions of dismal conditions and mortality in several parts of the State -- particularly in Continental Army.

**New York (continued):**

34.	1795 -- July 19–Oct 12, <b>yellow fever</b> epidemic, New York City, NY	--700-800
35.	1796 -- Summer, <b>yellow fever</b> , dock area where wharf was being built, NYC, NY	-- 70
36.	1797 -- <b>yellow fever</b> outbreak, New York City, NY	--1,000-1,100
37.	1798 -- <b>yellow fever</b> outbreak, New York City, NY	--2,086
38.	1801 -- <b>yellow fever</b> epidemic, Queensborough, NYC, NY	-- 156
39.	1803 -- July-Oct, <b>yellow fever</b> epidemic, New York City, NY	608-700
40.	1804 -- <b>scarlet fever</b> , New York City, NY	-- 14
41.	1804 -- <b>smallpox</b> epidemic, New York City, NY	164-199
42.	1804 -- <b>tuberculosis</b> , "Phthisis Pulmonalis," New York City (2125 deaths all causes)	-- 499
43.	1804 -- <b>yellow fever</b> , Brooklyn, NY	-- 40
44.	1805 -- <b>smallpox</b> , New York City, NY	-- 62
45.	1805 -- <b>tuberculosis</b> (Phthisis Pulmonalis), New York City (2,344 deaths all causes)	-- 462
46.	1805 -- <b>yellow fever</b> , New York City, NY	270-340
47.	1806 -- <b>smallpox</b> , New York City, NY (out of 2,225 deaths from all causes in NYC)	-- 48
48.	1806 -- <b>tuberculosis</b> (Phthisis Pulmonalis), New York City (2,225 deaths all causes)	-- 354
49.	1807 -- <b>smallpox</b> , New York City, NY (out of 2,312 deaths all causes)	-- 29
50.	1807 -- July, <b>South Ferry scow</b> sinks, Hudson River, Albany, NY	-- 33
51.	1808 -- <b>smallpox</b> , NYC, NY	-- 62
52.	1809 -- <b>yellow fever</b> outbreak, Brooklyn and NYC, NY	-- 42
53.	1811 -- <b>smallpox</b> , New York City, NY	-- 117
54.	1811 -- Dec 23-24, <b>winter storm/blizzard</b> , <b>maritime losses</b> , northern Long Island, NY--~20	
55.	1813 -- Aug 8, schooners USS <b>Hamilton &amp; Scourge</b> capsize, Lake Ontario squall ~Niagara Riv., NY->80	
56.	1815 -- <b>smallpox</b> , New York City, NY	-- 94
57.	1816 -- <b>smallpox</b> , New York City, NY	-- 179
58.	1819 -- <b>yellow fever</b> , New York City, NY	--23-50
59.	1820 -- <b>yellow fever</b> outbreak, NYC, NY	-- 251
60.	1821 -- Sep 03, <b>hurricane</b> , <b>unnamed ship</b> grounds, coast of NY	-- 17
61.	1821 -- Oct 25, storm, <b>Sea Fox</b> capsizes same day as sailing from NYC, NY	-- 12
62.	1822 -- ~July 15 through Oct, esp. Sep-Oct, <b>yellow fever</b> epidemic, NYC, NY <sup>570</sup>	--230-250
63.	1822 -- Oct 27, ship <b>Savannah</b> grounds and breaks-up ~ Fire Island, Long Island, NY--	11
64.	1824 -- <b>smallpox</b> epidemic, NYC, NY	-- 394
65.	1834 -- <b>smallpox</b> epidemic, NYC, NY	-- 233
66.	1824 -- May 15 steamboat <b>Aetna</b> boiler explosion, New York Harbor, NY	--10-13
67.	1829 -- June 04, steam frigate <b>Fulton</b> , magazine explosion, Navy Yard, Brooklyn	--24-40
68.	1830 -- Apr 22, steamship <b>Chief Justice Marshall</b> boiler explosion, Hudson River, NY--	15
69.	1830 -- Sep 16 or 17, sidewheel <b>William Peacock</b> steam pipe breaks, Lake Erie ~Buffalo NY-	15
70.	1831 -- Jun 09, steamer <b>General Jackson</b> explosion, Hudson Riv. Grassy Point, NY	-- 12
71.	1832 -- May 04, <b>building collapse</b> , Phelps & Peck, Cliff & Fulton Streets, NYC, NY	-- 10
72.	1832 -- Jun 13-Nov 18, <b>cholera</b> , esp. Albany, Buffalo, NYC, Rochester, Utica	---5,862
73.	1834 -- <b>cholera</b> epidemic, Albany, Buffalo, Poughkeepsie, Rochester, esp. NYC	--1,143
74.	1835 -- <b>smallpox</b> , New York City, NY	-- 351
75.	1836 -- <b>scarlet fever</b> , NYC, NY	-- 202
76.	1836-37 -- <b>measles</b> , NYC, NY	-- 443

<sup>570</sup> Referred to in governmental documents as an epidemic. NYC is a subset of 778-822 smallpox deaths in the U.S.



**New York (continued):**

77. 1836 -- Nov 21/22, U.S. ship **Bristol** wrecks, storm, Far Rockaway Beach, Long Isl., NY--64-89
78. 1837 -- **scarlet fever**, NYC, NY -- 579
79. 1837 -- Jan 2, barque **Mexico** grounds, Hempstead Beach, So. Shore Long Island, NY-- 116
80. 1838 -- Barque **Edward Quesnel** wrecks on Napeague Beach, Long Island, NY --10-12
81. 1838 -- June 16, stmr. **George Washington** (2d) burns, Lake Erie, ~Silver Creek, NY --30-50
82. 1840 -- Jan 13, steamer **Lexington** fire/sinks, Long Island Sound, NY --118-156
83. 1840 -- Aug 22, **bridge failure**, State Street Canal Basin Drawbridge, Albany, NY -- 21
84. 1841 -- Mar 11, steamer **President** sails from New York, not heard from again/lost -- 136
85. 1841 -- Aug 09, steamer **Erie** explosion/fire, sinks, Lake Erie off Silver Creek NY --100-200
86. 1841 -- Aug 20, **fire**, hidden **gunpowder explosion**, carpenter's shop, Syracuse NY -- 26
87. 1842 -- Nov 15-18, Lake Erie storm, schooners **Brandywine, Jefferson, Merchant** deaths-19  
 --8 **Brandywine** grounds at Dunkirk  
 --9 **Jefferson** grounds above Buffalo Light House  
 --2 **Merchant** damaged by high seas, Fairport Harbor
88. 1843 -- Feb 16, **landslide**, clay hill being **mined** at base, Troy, NY --17-18
89. 1845 -- Apr 07, steamboat **Swallow** grounds, Hudson River, near Athens, NY --15-40
90. 1845 -- July 19, **fire** and **explosion**, New, Broad, Beaver, Broadway Streets, NYC, NY-- 30
91. 1846 -- Nov 19, sidewheel **Indian Queen** grounds/breaks, Lake Erie storm, near Dunkirk NY--20
92. 1846 -- Nov 27, **Atlantic** steam explosion, grounds, reef, gale ~Fisher's Island, NY -- 42
93. 1847 -- **typhoid and typhus**, New York City --1,396
94. 1848 -- **smallpox**, New York City, NY -- 585
95. 1848 -- **typhus and typhoid**, New York City, NY -- 953
96. 1848 -- Dec, **cholera**, NYC, especially Staten Island, NY -- ~50
97. 1849 -- May 10-Oct 1, **cholera**, esp. NYC; also Albany, Buffalo, Westchester<sup>571</sup>-6,313-7,521
98. 1849 -- May 10, **riot & Government response**, Astor Place Opera House, NYC --16-30
99. 1849 -- May 18, collision, **Empire** and schooner **Noah Brawn**, Newburgh Bay, NY -- 24
100. 1849 -- Summer-Fall, **heat and sunstroke**; subset of 248 such deaths 31 States -- 56
101. 1850 -- Spring, **cholera**, NY -- 94
102. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories; 45,600 NY deaths --1,048
103. 1850 -- **dysentery**; subset 20,556 deaths 36 States/Territories/DC; avg. 571 --3,691
104. 1850 -- **measles**; subset 2,988 US measles deaths; average 83 per State/Ter., NY -- 505
105. 1850 -- **scarlet fever**; subset 9,584 such deaths 36 States/Territories/DC (avg. 266) --1,028
106. 1850 -- **smallpox**; subset 2,353 smallpox deaths 31 states/4 territories/DC; avg. 65 -- 276
107. 1850 -- **tuberculosis**; subset, 33,516 TB deaths 31 states/4 territories/DC (avg. 931) --6,691
108. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 649
109. 1850 -- Feb 04, **boiler explosion**, Taylor & Co., Hague St., Manhattan, NY --60-75
110. 1850 -- Mar 23, steamer **Troy** boiler explosion, ~Lake Erie, Niagara Riv. ~Buffalo NY- 18-22
111. 1850 -- July 31, steamer **America** boiler explosion, Lake Erie, near Barcelona, NY -- 11
112. 1851 -- **smallpox**, NYC, NY 562-586
113. 1851 -- **typhus and typhoid**, New York City, NY --1,103
114. 1851 -- Oct 24, steamer **Henry Clay** sinks, Lake Erie storm, off Long Point, Ontario--16-19
115. 1851 -- Nov 27, **panic**, school students **stampede**, **stairwell collapse**, NYC, NY -- 43
116. 1852 -- **smallpox**, New York City, NY --407-516

<sup>571</sup> Reference to Westchester County Poor-House and Lunatic Asylum where there were 25 deaths by ~July 20.

**New York (continued):**

117.	1852 -- Aug-Dec esp. <b>cholera</b> , especially Buffalo/851, Rochester/420, NYC/51	--1,322
118.	1852 -- July 28, steamer <b>Henry Clay</b> burns / sinks, Hudson River, Yonkers, NY	--70-90
119.	1852 -- Aug 22, overcrowded <b>ferryboat</b> capsizes, Hudson River, Albany, NY	--10-20
120.	1852 -- Sep 04, steamboat <b>Reindeer</b> boiler explosion, Hudson River ~ Bristol, NY	--28-37
121.	1852 -- Nov 11-12, Cleveland steamer <b>Oneida</b> sinks, Lake Erie storm, E off Barcelona NY-17-19	
122.	1853 -- <b>yellow fever</b> outbreak, New York City and NY Marine Hospital, NY	-- 142
123.	1853 -- Jan 16-Mar 26, <b>smallpox</b> , New York City, NY	-- ≥36
124.	1853 -- June 20, steamboat <b>New World</b> boiler explosion, New York, NY	-- 11
125.	1853 -- Aug 9-15, <b>heatwave/sunstrokes</b> , esp. NYC/276, Brooklyn/38, Troy/16, NY	-- 323
126.	1854 -- <b>smallpox</b> , New York City, NY	-- 624
127.	1854 -- <b>yellow fever</b> , New York Marine Hospital	-- 20
128.	1854 -- Apr 25, <b>arson fire</b> , Jennings Building (all firemen), Broadway, NY, NY	-- 11
129.	1854 -- July-Sep, <b>cholera</b> , Albany, Buffalo, Niagara Falls and especially NY, NY	--2,819
130.	1854 -- July, <b>heatwave and sunstrokes</b> , NYC, NY	-- 62
131.	1855 -- Sep 05, <b>cholera</b> aboard steamship <b>Sierra Nevada</b> , leaving NY	-- 95
132.	1856 -- July 17, steamer <b>Northern Indiana</b> burns, Lake Erie, off Pt. Pelee, Ontario <sup>572</sup> --	>17
133.	1856 -- Aug-Sep, <b>yellow fever</b> , Brooklyn and Governors Island, NY	-- 16
134.	1857 -- Nov 19? schr. <b>Radiant/Radiant</b> sinks, Lake Erie, gale?, bound for Oswego NY--	10
135.	1858 -- Feb 20, ship <b>John Milton</b> grounds in snowstorm, Montauk, SE Long Isl., NY--	26
136.	1858 -- <b>diphtheria</b> , April-fall, especially children, Albany, NY	-- 167
137.	1860 -- <b>croup</b> (contagious upper airway viral infection), (15,188 US croup deaths)	--1,797
138.	1860 -- <b>measles</b> (subset of 3,900 measles deaths nationwide), NY	-- 746
139.	1860 -- <b>scarlet fever</b> ; subset of 26,402 deaths in 38 Census States & DC, NY <sup>573</sup>	--4,680
140.	1860 -- <b>smallpox</b> (subset of 1,263-1,271 smallpox deaths in reporting States); NY	-- 303
141.	1860 -- <b>tuberculosis</b> ("consumption") (subset of 49,082 US TB deaths); NY <sup>574</sup>	--8,199
142.	1860 -- <b>typhoid fever</b> ; subset of 19,236 deaths, 38 registration States and DC; NY	--1,021
143.	1860 -- <b>whooping cough</b> ; subset of 8,408 US whooping cough deaths; NY	-- 708
144.	1860 -- Feb 02, <b>fire</b> , Tenement Building, 142 Elm Street, East Manhattan, NY, NY	--10-20
145.	1860 -- Mar 28, <b>fire</b> , 40 <sup>th</sup> Street Tenement House, NYC, NY	-- 10
146.	1860 -- Nov 24, freighter <b>Dacotah</b> , grounds/breaks, Lake Erie Storm, ~Angola, NY	-- 24
147.	1861 -- Jan-June, <b>cholera</b> , New York City, NY <sup>575</sup>	-- 176
148.	1861 -- Nov 9-10~, Buffalo NY steamer <b>Keystone State</b> sinks, storm, Lake Huron <sup>576</sup> --	33
149.	1862 -- Jan-June, <b>cholera</b> , New York City, NY	-- 199
150.	1862 -- Nov 02-3, steamer <b>Bay State</b> founders, Lake Ontario gale ~Fair Haven, NY	--20-23
151.	1863 -- Jan-June, <b>cholera</b> , New York City, NY	-- 272
152.	1863 -- July 13-17, <b>anti-draft and racial riots</b> , New York City, NY	--105~120
153.	1864 -- <b>typhus/typhoid</b> , New York City, NY	--1,425
154.	1864 -- Jan-June, <b>cholera</b> , New York City, NY	-- 348

<sup>572</sup> Listed here in that at least 17 of the estimated 40-58 lives lost were New Yorkers, on this Buffalo to Toledo trip.

<sup>573</sup> Second leading known cause of death in the State in 1860, behind consumption (tuberculosis).

<sup>574</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>575</sup> We are not implying that cholera existed in NYC just in Jan-June months. The NYC Board of Health report drawn upon in 1867 *New York Times* article, only covers the same Jan-June six months for six years, 1861-1866.

<sup>576</sup> Listed here in that nine of the ten named fatalities were from Buffalo. Quite possible others were as well.

**New York (continued):**

155. 1864 -- Apr 15, steamer **Chenango** boiler explosion NY Harbor ~Ft. Richmond NY- 30-33
156. 1864 -- June 08, steamboat **Berkshire** fire, Hudson River, Esopus Island, NY -- 35
157. 1864 -- July-June 1865, **diarrhea and dysentery**, Confederate POWs. Elmira, NY --1,394
158. 1864 -- July-June 1865 (12 mo.), **pneumonia/pleurisy**, Confederate POWs, Elmira NY-773
159. 1865 -- Jan-June, **cholera**, New York City, NY -- 350
160. 1865 -- **smallpox** outbreak, New York City, NY --664-674
161. 1865 -- **typhus/typhoid fever**, New York City, NY --1,075
162. 1865 -- Mar 31, US Govt. transport **General Lyon** burns (~521-571), Cape Hatteras, NC<sup>577</sup>--50
163. 1865 -- Oct 29, steamer **St. John** boiler explosion, Hudson River, ~5 miles above NYC--15
164. 1866 -- Apr 18, boats collide, **City of Norwich** burns/sinks, L.I. Sound off Huntington NY--11-13
165. 1866 -- June 17-18, NY steamer **Jennie P. King** wrecks, Lake Erie storm, Long Pt., Ont.- 14
166. 1866 -- May 10-Oct 13, **cholera** epidemic, NYC, Brooklyn & nearby islands--2,100-3,524
167. 1866 -- Sep 12, **boiler explosion**, S & G Rork Sawing Mill, Albany, NY -- 10
168. 1867 -- May 21, steamer **Wisconsin** burns, Lake Ontario, ~Grenadier Isl./Cape Vincent, NY-23
169. 1867 -- Dec 18, **train derailment**/fire, Lake Shore & Mich. Southern Angola, NY --39-50
170. 1868 -- May 01, steamer **Governor Cushman** boiler explodes, Lake Erie, Buffalo, NY-- 11
171. 1868 -- July 11-17, **heat wave**, NYC, Buffalo, Rochester, Schenectady, Williamsburg--313
172. 1868 -- Oct 06, propeller **Perseverance** burns, Lake Ontario off Pultneyville, NY -- 14
173. 1869 -- July 14, **trains collide**, Erie Express, Mast Hope, NY -- 10
174. 1870 -- **diarrhoea** (2,243), **dysentery** (1,68), **enteritis** (1,330); data from Census --4,641
175. 1870 -- **diphtheria**; subset of 6,303 US diphtheria deaths; NY -- 864
176. 1870 -- **measles**; NY subset of 9,237 US measles deaths (10%) --1,073
177. 1870 -- **scarlet fever**, especially children; subset of 20,339 US deaths; NY --3,403
178. 1870 -- **smallpox** (State subset of 4,597 smallpox deaths nationwide) -- 582
179. 1870 -- **tuberculosis** (Consumption) (NY subset of ~70,000 US TB deaths --11,578
180. 1870 -- **typhoid fever** (NY subset of 22,187 typhoid fever deaths nationwide) --2,029
181. 1870 -- **typhus** (NY subset of 1,770 typhus deaths nationwide) -- 369
182. 1870 -- **whooping cough** (NY subset of 9,008 U.S. whooping cough deaths) -- 802
183. 1870 -- **yellow fever**, Governor's Island Quarantine Station, NYC, NY -- 103
184. 1870 -- Jan 31, last sighting, steamer **City of Boston**, NYC for Liverpool, off Halifax?--191
185. 1871 -- **scarlet fever**, New York City, NY -- 791
186. 1871 -- Feb 06, **train collision**, Wappingers Creek, New Hamburg, NY -- 22
187. 1871 -- July 12, **"Orange Riot,"** NYC, NY -- < 60
188. 1871 -- July 30, Staten Island ferry **Westfield II** boiler explosion, NY Harbor NY--106-125
189. 1871 -- Sep-Dec, **smallpox**, NYC and Brooklyn -- 805
190. 1872 -- Jan 1-June 30, **cerebro-spinal meningitis** epidemic, NYC, NY -- 782
191. 1872 -- **smallpox**, New York City, NY --1,666
192. 1872 -- July 01-07, **heatwave** and sunstroke, NYC and Brooklyn --≥ 248
193. 1872 -- Dec 10, **fire**, Fifth Avenue Hotel, New York, NY -- 22
194. 1872 -- Dec 24, **train derailment** & fire, near Prospect Station, Goose Creek, NY --19-25
195. 1873 -- **smallpox**, New York City, NY -- 117
196. 1873 -- Apr 08-10, **flood**, Drowning/**bldg. collapse**, Genesee River, Rochester, NY -- 30
197. 1874 -- **scarlet fever**, Brooklyn (479) and New York City (879) --1,358

<sup>577</sup> Noted here in that about 50 members of NY State military units, mostly paroled POWs, died in this loss.

**New York (continued):**

198. 1874 -- June 07, storm, **boats capsize**, drownings, Lakes Oneida & Onondaga NY -- 1-27
199. 1874 -- June 23, **floor failure** during festival, Central Baptist Church, Syracuse, NY-- 14
200. 1875 -- **smallpox**, NYC, NY --1,899
201. 1875 -- **tuberculosis**, NYC, NY --4,172
202. 1875 -- July 05, **trains collide**, Long Island So. RR ~Far Rockaway Depot, L. Isl., NY-- 11
203. 1875 -- Dec 01, steamer **Sunnyside** hits ice and sinks, Hudson, off West Park, NY -- 11
204. 1876 -- **smallpox**, New York City, NY -- 315
205. 1876 -- Mar 07, **fire**, Home for the Aged, East Brooklyn, NY -- 18
206. 1876 -- Dec 05, **fire, trampling, suffocation**, Conway Theater, Brooklyn, NY --284-300
207. 1876 -- Dec 30, freighter **Circassian** breaks-up in storm, Mecox, Long Island NY -- 28
208. 1877 -- Dec 20, **fire**, Greenfield Candy Works, Barclay St., NYC -- 10
209. 1878 -- Apr 7, **fire**, Steuben County House (poor house/insane asylum), Bath, NY --15-16
210. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 US croup deaths)-- 569
211. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 US deaths) --2,318
212. 1879 -- June-May 1880, **malarial fever**, (NY subset, 20,231 such U.S. deaths) -- 435
213. 1879 -- June-May 1880, **measles**, esp. children (NY subset, 8,254 US measles deaths)--239
214. 1879 -- June-May 1880, **meningitis** (NY subset of 7,481 U.S. meningitis deaths) -- 314
215. 1879 -- June-May 1880, **scarlet fever**, esp. children (NY subset, 16,388 SF deaths) --1,019
216. 1879 -- June-May 1880, **tuberculosis** (NY subset of 91,270 TB deaths nationwide) --5,849
217. 1879 -- June-May 1880, **typhoid fever** (NY subset of 23,339 US Typhoid deaths) -- 835
218. 1879 -- June-May 1880, **whooping cough** (NY subset, 11,064 U.S. W.C. deaths) -- 306
219. 1880 -- June 28, stmr. **Seawanhaka** explodes/burns, East River, Randall's Isl., NY --24-50
220. 1880 -- **diphtheria**, NY, esp. children, esp. NYC & Brooklyn; elsewhere NY --1,805-2,303
221. 1880 -- Dec 17, **fire**, M.H. Birge & Co.'s "Manufactory," Buffalo, NY -- 13
222. 1881 -- **cerebrospinal meningitis** epidemic, New York City, NY -- 461
223. 1881 -- **diphtheria**, esp. NYC/2,249, Brooklyn/1,143, Buffalo/182, Rochester/100 --3,742
224. 1881 -- Jan-Dec, **smallpox**, esp. Brooklyn (44) and New York City (503), NY -- 567
225. 1881 -- **typhoid fever**, NYC -- 346
226. 1881 -- Mar 04, bark **Ajace**, NYC bound, grounds, storm, Rockaway Reef, off Queens NY-13
227. 1882 -- Jan-June esp., **smallpox**, NYC (259 for year), also Brooklyn, Buffalo, elsewhere-313
228. 1882 -- Jan 1-26, **scarlet fever** outbreak, NY -- 224
229. 1882 -- Jan 13, **trains collide**, Hudson River Railroad, Spuyten Duyvil, Bronx, NY -- 10
230. 1882 -- Jan 31, **fire**, World Building, Park Row and Beekman St., NYC, NY -- 12
231. 1883 -- Feb 20, fire evacuation/railing breaks, **falls & suffocation**, School, NYC --15-16
232. 1883 -- May 30, **Crushing/Trampling Brooklyn/East River Bridge**, NY -- 12
233. 1883 -- July 27, passenger **Train** "Thousand Islands" **hits Railcar**, Carlton, NY --17-23
234. 1884 -- Dec 18, **fire**, St. John's Home Catholic Orphan Asylum, Brooklyn, NY --23-25
235. 1885 -- **diphtheria and croup**, especially children, esp. NYC/1,987, Brooklyn/473--4,508
236. 1885 -- May 05, **factory building collapse**, State and Hicks Streets, Brooklyn, NY -- 15
237. 1886 -- Sep 14, **trains collide**, Nickel-Plate Railroad, Silver Creek, NY -- 20
238. 1887 -- **diphtheria**, esp. NYC (4,509), NY --6,490
239. 1887 -- Mar 18, **fire**, Richmond Hotel (Young Men's Assn.), Buffalo, NY -- 15
240. 1887 -- July 10, overloaded sloop yacht **Mystery** capsizes, Canarsie Bay, L.I., NY --24-33
241. 1888 -- Mar 11-14 East Coast **nor'easter "Blizzard of 1888,"** esp. NYC, NY --61-64



## New York (continued):

242. 1888 -- Aug 03, **fire**, tenement house, 197 Bowery, NY, NY --17-20
243. 1888 -- Nov 09, **fire**, Steam-Gauge and Lantern Works, Rochester, NY --34-38
244. 1889 -- July 09, storm, **flooding**, **Stone Bridge failure**, Johnstown, NY -- 6-15
245. 1889-90 -- June-May, **croup**, NY --1,568
246. 1889-90 -- June-May, **diphtheria**; subset, 27,815 U.S. diphtheria deaths; NY<sup>578</sup> --4,085
247. 1889-90 -- June-May, **measles**, subset of 9,256 US measles deaths; NY -- 757
248. 1889-90 -- June-May, **typhoid fever**, subset of 27,058 US typhoid deaths, NY --1,715
249. 1890 -- Jan-Mar, **influenza** (La Grippe/Russian Flu), esp. NYC vic., Rochester-5255-6,767
250. 1890 -- May 07, **fire**, Chenango County Poorhouse & Insane Asylum, Preston, NY -- 13
251. 1890 -- Nov 24, NY steam-yacht **F.L. Norton**, leaves New London for France, lost -- 10
252. 1891 -- **typhoid fever**, NY --1,926
253. 1891 -- March-May, **influenza and pneumonia** epidemic, esp. NYC, NY --5,572
254. 1891 -- May 19, **dynamite explosion**, **construction train**, near Tarrytown, NY -- 13
255. 1891 -- July 03, freight and passenger **trains collide**, burn, at depot, Ravenna, OH<sup>579</sup>-- 19
256. 1891 -- Aug 06, **trains collide in fog**, West Shore Railroad, "Dutcher's Cut," NY -- 11
257. 1891 -- Aug 12, storm, barge **Republic** deck fails, Cold Spring Harbor, L.I., NY --13-16
258. 1891 -- Aug 22, **building collapse/fire**, Taylor Building, Park Place, New York, NY-60-61
259. 1891 -- Dec 24, **train wreck**, NY Central and Hudson River RR, near Hastings, NY-- 13
260. 1892 -- **typhus** Fever, New York City, NY -- 200
261. 1892 -- Feb 07, **fire**, Hotel Royal, Fortieth Street & Sixth Avenue, NYC, NY --28-30
262. 1892 -- June-July, **excessive natural heat**, New York City, NY -- 138
263. 1893 -- **cerebrospinal meningitis** epidemic, New York City, NY --469-489
264. 1893 -- Aug 24, storm, schooner **Empire State** sinks off Barnegat, NY -- 10
265. 1893 -- Aug 24, storm, tugboat **Panther** sinks, SE Coast Long Island, NY -- 17
266. 1893 -- Aug 26, **trains collide**, Harlem Road, Berlin, NY -- 16
267. 1893 -- Oct 13, **NY excursion train** rear-ended by **2nd train**, depot, Jackson, MI<sup>580</sup>--12-14
268. 1893 -- Oct 13-14, Great Lakes storm, esp. **maritime losses**/30-40, mainland/4 --34-44
- 15-23 propeller **Dean Richmond** sinks off Dunkirk, NY
- 12-24 freighter **Wocoken** lost off Dunkirk, NY
- 3 would-be **rescuers drown**, small boat looking for **Dean Richmond** crew
- 1 Niagara River; drowning when person blown into river.
- 3 Buffalo; boys killed when wind causes collapse of train depot.
269. 1893 -- Dec 01-Jan 30, 1894 -- epidemic **influenza**, NY --2,200
270. 1894 -- **diphtheria**, esp. NYC (2,785); NY subset, ≥14,606 US diphtheria deaths --6,592
271. 1894 -- Jan 20-June 16, **scarlet fever** outbreak, Brooklyn & New York City, NY -- 147
272. 1894 -- Feb 17-Dec 8, **smallpox**, esp. Brooklyn, NYC, Albany, Rochester, NY -- 145
273. 1894 -- Feb 04-10, **whooping cough** outbreak, New York City, NY -- 101
274. 1894 -- June 24, overloaded (NY excursionists) tug **James D. Nicol**, sinks, Sandy Hook, NJ<sup>581</sup>≥35
275. 1895 -- June 16-22, **diphtheria**, Brooklyn, NYC, Yonkers -- 58
276. 1895 -- June 16-22, **scarlet fever**, Binghamton, NYC, Oneonta, Yonkers -- 17

<sup>578</sup> Avg. U.S. diphtheria death rate was 33.06 per 1000 deaths; NY was 33.40; Elmira 96.36; Brooklyn 49.58.

<sup>579</sup> Cross-listed in NY in that all or virtually all of the fatalities were NY residents, mostly Corning glassworkers.

<sup>580</sup> Though the crash was in MI, the train was occupied by people from NY on their way to Chicago World's Fair.

<sup>581</sup> Cross-listed in NY in that the great majority of the fatalities were from the NYC area.

**New York (continued):**

277. 1895 -- Aug 13, **building collapse**, Ireland Building (under construction), NYC, NY-- 17  
 278. 1895 -- Dec 31, **fire**, Delavan House, Albany, NY -- 16  
 279. 1896 -- **measles**, esp. NYC (714). Brooklyn (333), Buffalo (32), Schenectady (25) --1,365  
 280. 1896 -- Aug 06-14 esp., **heat**, esp. NYC/765, Brooklyn (71), Staten Isl./31, NY -- 891  
 281. 1896 -- Oct 14, NY fishing smack **W.W. Story** last seen off Absecon, NJ -- 11  
 282. 1897 -- **typhoid fever**, NY State subset of ~9,200 US typhoid deaths --1,351-1,585  
 283. 1897 -- July 02-11, **heat** (608-616 US Heat deaths), NY subset, especially NYC (39)-- 88  
 284. 1897 -- Oct 24, **train wreck**, New York Central & Hudson River RR, Garrison, NY-- 21  
 285. 1897 -- Nov 05, NY freighter **Idaho** sinks, Lake Erie Storm, off Long Point, Ontario-- 19  
 286. 1898 -- **typhoid fever**, (>4,627 US deaths), esp. Buffalo and NY Military units<sup>582</sup> -- 539  
 287. 1898 -- Mar 13, **fire**, Bowery Mission and Young Men's Home, NYC, NY -- 11  
 288. 1898 -- Sep 01-07, **excessive natural heat**, New York City, NY --196-304  
 289. 1898 -- Sep 05, Troy City **rail car** and **train collide**, Cohoes Crossing, Albany, NY -- 18  
 290. 1898 -- Nov 26-27, **Portland Gale**, especially Port Jefferson area, Long Island, NY -- 10  
 291. 1899 -- Feb 9-16 especially, **Arctic cold, snow, blizzard conditions**; exposure deaths-- 19  
 292. 1899 -- Mar 17, **fire**, Windsor Hotel, Fifth Avenue, New York, NY -- 45  
 293. 1900 -- June 15, **fire**, tenement building, 34 Jackson Street, NYC, NY -- 11  
 294. 1900 -- **croup** (upper airway contagious viral infection; subset, 12,484 US croup deaths -- 619  
 295. 1900 -- **diphtheria** (16,475 US diphtheria deaths), esp. NYC (2,275) --2,673-3,306  
 296. 1900 -- **dysentery** (subset, 11,710 US dysentery deaths; 4<sup>th</sup> largest loss by a state) -- 676  
 297. 1900 -- **influenza** (subset, 16,645 US influenza deaths) -- 535  
 298. 1900 -- **malarial fever** (subset of 14,874 US malarial fever deaths) -- 308  
 299. 1900 -- **measles** (subset of 12,866 US measles deaths; 3<sup>rd</sup> largest state measles loss)--1,174  
 300. 1900 -- **meningitis** (subset, 19,423 US meningitis deaths; led nation in loss of life) --2,602  
 301. 1900 -- **scarlet fever** (subset, 6,333 US scarlet fever deaths; 2<sup>nd</sup> largest loss by state)-- 812  
 302. 1900 -- **tuberculosis** (130,268 NY deaths all causes) (109,750 US TB deaths) --14,110  
 303. 1900 -- **typhoid fever**, NY State (35,379 typhoid fever deaths nationwide) --1,776  
 304. 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths; led US) --988-1,020  
 305. 1900 -- July-Aug (especially), **heat** (subset of 1,266 US heat deaths) , esp. NYC -- 361  
 306. 1900 -- Aug 12, thunder storm, lightning strikes, **small crafts capsized**, NYC vic. -- 8-14  
 307. 1900 -- Oct 29, **fire** and **explosions**, Tarrant & Co. Drug Warehouse, NYC, NY -->7->10  
 308. 1901 -- **smallpox**, especially NYC (395-410), especially the Bronx (312) -- 436  
 309. 1901 -- Jan 08, **fire/boiler explosion**, Orphan Asylum, Rochester, NY -- 31  
 310. 1901 -- June-July (esp.), **heat waves** (subset of 4,012 US heat deaths) esp. NYC --1,565  
 311. 1901 -- June 30, **Drownings**, NYC area (East, Harlem, Hudson, No. rivs.) -- 10  
 312. 1901 -- Aug 19, **fire, dynamite explosion, M. & M. Roundhouse**, ~Herkimer, NY -- 6-13  
 313. 1901 -- Aug 29, **train derails**, Sodus Bay Division, near Newark, NY --14-15  
 314. 1902 -- **smallpox**, esp. the Bronx (202) and Brooklyn (88), Rochester (77) -- 443  
 315. 1902 -- Jan 08, **trains collide**, "New Rochelle Car," Park Avenue Tunnel, NYC -- 17  
 316. 1902 -- Feb 02, **Belle of Oregon, Antelope, Mystic Bell** lost, near Fire Island, NY -- 13  
 317. 1902 -- Feb 22, **fire**, Park Avenue Hotel, New York City, NY -- 20  
 318. 1902 -- June-Aug (especially July), **excessive heat** (subset of 290 heat deaths), NY -- 46  
 319. 1902 -- July 04, **trolleys collide**, Mt. Lake RR, Bleecker Mt. ~Gloversville, NY --13-14

<sup>582</sup> 99 civilian deaths, 98 at Buffalo. 256 NY military deaths. 178 military deaths in NY, especially at Fort Wikoff.

**New York (continued):**

320.	1902 -- Nov 04, <b>explosion of fireworks</b> , Madison Square, NY, NY	-- 15
321.	1903 -- <b>smallpox</b> , Rochester, NY; subset of $\geq 1,457$ US smallpox deaths	-- 24
322.	1903 -- Mar 07, <b>ferryboat</b> capsizes, Hudson River, Spier Falls ~Glens Falls, NY	--17-19
323.	1903 -- Mar 09, <b>train wreck/fire</b> , delayed oil/gasoline tanker <b>explosion</b> , Olean, NY	-- 17
324.	1903 -- Summer (especially July 1-12), <b>heat waves</b> , New York City, NY	-- 144
325.	1903 -- Nov 01, <b>fire</b> , tenement "House of All Nations" Eleventh Ave., NYC, NY	-- 25
326.	1904 -- <b>epidemic cerebrospinal meningitis</b> ; 3,284 such deaths in US, esp. NYC	--1,630
327.	1904 -- Jan 02-06, <b>snow storms and arctic cold</b> , NY subset of 76-78 US	--16-17
328.	1904 -- June 15, <b>fire</b> , <b>General Slocum</b> excursion steamer, East River, NYC	--957-1,031
329.	1904 -- June -Aug, <b>excessive natural heat</b> , subset of 235 US heat deaths, NY	-- 48
330.	1904 -- Sep 04, <b>fire</b> , five-story tenement, Attorney St., New York City, NY	-- 15
331.	1904 -- Nov 20, <b>fire</b> , tenement house, Troutman Street, Brooklyn, NY	-- 12
332.	1905 -- <b>cerebrospinal meningitis</b> ; 5,114 US deaths; esp. NYC (1,511-2,025)	--2,531
333.	1905 -- <b>tuberculosis</b> ; 56,770 registration area deaths (10 states/135 cities) <sup>583</sup>	--14,015
334.	1905 -- <b>wood alcohol poisoning</b> , NYC, NY	-- >25
335.	1905 -- Feb 01, <b>sleigh</b> and <b>train collide</b> , Shawmut Crossing, near Arkport, NY	-- 10
336.	1905 -- Feb 27, <b>floor collapse/fire scare/trampling</b> , Church Service, Brooklyn NY	-- 11
337.	1905 -- Mar 14, <b>fire</b> , tenement, Allen St., New York City, NY	-- 20
338.	1905 -- Aug 08, <b>bldg. collapse</b> , John G. Myers Dry Goods Store, Pearl St., Albany, NY	--13
339.	1905 -- Sep 11, 9 <sup>th</sup> Avenue elevated <b>train derails</b> on 53 <sup>rd</sup> Street Curve, NY, NY	-- 12
340.	1906 -- <b>epidemic cerebro-spinal meningitis</b> ; 3,258 in US registration area; NY	--1,117
341.	1906 -- Jan 09, <b>landslide</b> , Haverstraw, NY	-- 22
342.	1907 -- Feb 16, <b>electric train derailment</b> , Harlem Div., NY Central Rail, Bronx	--23-24
343.	1907 -- Apr 10, bark <b>Adolph Obrig</b> lost after sailing from NYC, NY	-- 18
344.	1907 -- <b>diphtheria and croup</b> , esp. NYC (1,700) (subset of 10,154 U.S. deaths)	10,154
345.	1907 -- <b>influenza</b> , NY State (over 10,066 deaths in "registration" areas)	--2,204
346.	1907 -- Sum-Fall (Sep peak), 1 <sup>st</sup> major US <b>polio</b> epidemic, NY, esp. greater NYC	--100-125
347.	1907 -- <b>scarlet fever</b> , especially NYC (832) (subset of 4,309 deaths nationwide)	--1,084
348.	1907 -- <b>tuberculosis</b> , especially NYC (8,909) (subset of 76,650 US TB deaths)	--14,390
349.	1907 -- <b>typhoid fever</b> (NY subset of approximately 13,000 U.S. typhoid deaths)	--1,702
350.	1907 -- July 28, <b>fire</b> , tenement house, 222 Chrystie Street, East Side, NYC, NY	--19-20
351.	1909 -- Mar 03, <b>fire</b> , tenement building, 374 Seventh Avenue, NYC, NY	-- 10
352.	1909 -- May 12, <b>dynamite explosion</b> , <b>Calanan Quarry</b> , South Bethlehem, NY	-- 23
353.	1909 -- July 18, sloop <b>Roxana</b> capsizes, and other drownings, N. Y. Bay	--19-22
354.	1909 -- Aug 09, <b>excessive natural heat</b> , NYC, NY	-- 45
355.	1909 -- Nov 08, <b>explosion</b> , deadly <b>fire</b> , Robert Morrison comb factory, Brooklyn	--10-12
356.	1909 -- Dec 25-26, <b>winter storm</b> , No. Atlantic States (20-26), especially NYC	-- 18
357.	1910 -- <b>polio</b> outbreak (present every month), NY (2 <sup>nd</sup> highest state loss to polio)	-- 170
358.	1910 -- June 21-24, <b>excessive natural heat</b> , New York City, NY	-- 16
359.	1910 -- Oct 01, Battleship <b>New Hampshire</b> launch capsizes, Hudson River, NY	--23-31
360.	1910 -- Dec 19, <b>train crash/gas explosion</b> , Grand Central Station yard, NYC, NY	-- 10
361.	1911 -- <b>diphtheria and croup</b> , NYC, NY	--1,281
362.	1911 -- <b>measles</b> , New York City, NY	-- 659

<sup>583</sup> NY, with TB death rate of 173.7 per 100K pop., had 2<sup>nd</sup> highest State rate. Census average was 168.2.

**New York (continued):**

363.	1911 --	<b>polio</b> ; subset of 1,060 “registration area” deaths (63.1% pop.), NY	-- 101
364.	1911 --	<b>scarlet fever</b> , New York City, NY	-- 741
365.	1911 --	Mar 25, <b>fire</b> , Triangle Shirtwaist Company, NYC, NY	--146-147
366.	1911 --	June 30, <b>collapse of pumping station roof</b> , Buffalo, NY	-- 9-10
367.	1911 --	July 02-13, <b>excessive natural heat</b> , especially NYC, NY	--169-312
368.	1911 --	Aug 25, <b>train derailment</b> , Lehigh Valley Rail Road, Manchester, NY	-- 29
369.	1911 --	Sep 16, <b>race car</b> crashes through Fence, Syracuse State Fair, NY	-- 10
370.	1911 --	Nov-Dec, <b>tuberculosis</b> , NYC, NY	--1,709
371.	1911 --	Nov 12, storm, <b>steam barge lost</b> off NY Harbor, NY	-- 14
372.	1912 --	<b>diphtheria and croup</b> , NYC, NY	--1,125
373.	1912 --	<b>measles</b> , New York City, NY	-- 671
374.	1912 --	<b>scarlet fever</b> , New York City, NY	-- 615
375.	1912 --	Jan 05-22 especially, <b>cold-waves and snowstorms</b> ; subset, 228 US deaths	-- 31
376.	1912 --	Mar 24-June 8, <b>pneumonia</b> , New York City, NY	--1,314
377.	1912 --	Jan 01-June 8, <b>tuberculosis</b> , New York City & NY State	--6,661
378.	1912 --	June 23, <b>pier/dock collapse</b> , Eagle Park, Niagara River, near Buffalo, NY	-- 39
379.	1912 --	July 04, <b>trains collide</b> , East Corning, NY	-- 41
380.	1913 --	<b>diphtheria and croup</b> , New York City, NY	--1,333
381.	1913 --	<b>heat</b> ; 1,226 “registration area” (65% of US) deaths; subset for NY	-- 80
382.	1913 --	<b>measles</b> , 8,108 US “registration area” (65.1%) deaths; NY (2 <sup>nd</sup> highest state)--	1,120
383.	1913 --	<b>polio</b> , acute, esp. summer-fall, 864 “registration area” (65% pop.) deaths, NY--	136
		1913 -- June-Sep (esp. Sep), <b>polio</b> epidemic, Buffalo, NY	-- 57
384.	1913 --	June 24, <b>dust explosion</b> , Husted Milling Feed Grinding Plant, Buffalo NY	-- 33
385.	1913 --	July 22, <b>fire</b> , Binghamton Clothing Company, New York City, NY	-- 35
386.	1914 --	<b>influenza and pneumonia</b> , New York City, NY	--10,500
387.	1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; NY 8.6	-- 852
388.	1914 --	<b>polio</b> , July-Dec, especially children, especially NYC (34); 720 US deaths, NY--	88
389.	1914 --	<b>scarlet fever</b> , New York City, NY	-- 451
390.	1915 --	<b>anthrax</b> , NYC/L.I. vic., Bainbridge, Endicott, Johnson City, Madison, Nunda <sup>584</sup> -	14
391.	1915 --	<b>measles</b> , New York City, NY	-- 630
392.	1915 --	<b>scarlet fever</b> , New York City, NY	-- 291
393.	1915 --	Sep-Nov, <b>polio</b> , especially children, (NYC/50), subset for NY	-- 70
394.	1915 --	Dec-Jan 1916, <b>influenza and pneumonia</b> , especially NYC, NY	--18,614
395.	1915 --	Dec 23, NY steamer <b>Orleanian</b> leaves NYC for Malta, not heard from again--	36
396.	1915 --	Nov 06, <b>fire</b> , Essex Waist Company Diamond Factory, Brooklyn, NY	-- 12
397.	1916 --	<b>diphtheria</b> , especially children, NY	--1,518
398.	1916 --	Jan 04, <b>Aztec Norge</b> gas fumes explosion, Oil Tank steamer, Erie Basin, NY--	13
399.	1916 --	Apr 07, schooner <b>Bertha L. Barker</b> founders, New York, NY	-- 13
400.	1916 --	esp. July-Sep, <b>Polio</b> epidemic, especially children, especially NYC, NY	--3,331
401.	1916 --	July 12-Aug 9 and 23 <sup>rd</sup> , <b>heat wave</b> , NYC, NY	--33-34
402.	1916 --	July 17, steamer <b>C.W. Morse</b> leaves NY, NY, not heard from again/lost	-- 25
403.	1916 --	Dec (late), steamer <b>Maryland</b> lost, Atlantic, 300 miles off NY	-- 26
404.	1917 --	<b>anthrax</b> , Brookhaven, Brooklyn (2), Lackawanna, NYC (7), Portville, NY	-- 12

<sup>584</sup> NY led the nation in anthrax deaths as recorded on death certificates accessed by Bureau of Census.



**New York (continued):**

405. 1917 -- **polio**, esp. June-Sep, esp. children, esp. NYC (subset  $\geq 1,182$  US polio deaths)--115  
 406. 1917 -- **scurvy**, New York City (15) and elsewhere state of NY (4) -- 19  
 407. 1917 -- summer to fall (esp.), **excessive heat**, New York City (530), State of NY -- 665  
 408. 1917 -- June 13, **dust explosion** and **fire**, Amer. Sugar Refining Plant, Brooklyn, NY-- 12  
 409. 1917 -- July 01, **slide**, RR embankment, **train** goes in Niagara Riv. Niagara Co., NY-- 12  
 410. 1918 -- **polio**, especially children, Staten Island, NY -- ~100  
 411. 1918 -- **typhoid fever** (NY subset of 9,100 U.S. typhoid fever deaths) -- 576  
 412. 1918 -- July 02, **explosion/fire**, Semet-Solvay Co. TNT plant, Split Rock, NY -- 50  
 413. 1918 -- Aug 02-09, **heat wave**; especially New York City/14 (294 US heat deaths) -- 17  
 414. 1918 -- Aug 27, **USS SC-209** sub chaser sunk by USCG, So. of Long Island, NY --17-18  
 415. 1918 -- Sep-Apr 1919, **influenza and pneumonia** epidemic, NY 65,622  
     1918 -- Sep-Dec, **influenza and pneumonia** epidemic, NY 46,993  
     1919 -- Jan-Apr, **influenza and pneumonia** epidemic, NY 18,729  
 416. 1918 -- Nov 1, speeding Brooklyn Rapid Transit **train derails**, tunnel mouth, Brooklyn, NY-93-<100  
 417. 1919 -- **diphtheria** (NY subset, 9,160 US diphtheria deaths)<sup>585</sup> --2,053  
 418. 1919 -- Jan 12, **trains collide** (rear-end), NY Central Railroad, South Byron, NY --20-22  
 419. 1919 -- Apr 28 U.S. **Navy launch** hits log and **capsizes**, Hudson River, NY, NY -- 13  
 420. 1919 -- July 01, **trains collide**, Dunkirk, NY -- 12  
 421. 1919 -- Nov 22-Dec 5, **wood alcohol poisoning**, New York City, NY --11-12  
 422. 1920 -- **diphtheria & croup** (NY subset, 13,395 deaths, 34 registration states) --1,931  
 423. 1920 -- **influenza and pneumonia**, esp. Buffalo, NYC, Syracuse, NY --21,734  
 424. 1920 -- **measles** (NY subset of 7,712 measles deaths in 34 registration states) --1,177  
 425. 1920 -- **scarlet fever** (NY subset, 4,004 scarlet fever deaths, 34 registration states)<sup>586</sup>-- 474  
 426. 1920 -- **tuberculosis**, especially New York City, Buffalo, Rochester, Yonkers --11,809  
 427. 1920 -- **typhoid fever** (NY subset, 6,805 typhoid fever deaths, 34 reg. states) -- 379  
 428. 1920 -- **whooping cough** (NY set, 10,968 whoop. cough deaths, 34 reg. states)<sup>587</sup> --1,063  
 429. 1920 -- Apr 18, steamer **William O'Brien** lost in Atlantic Storm, out of NYC -- 40  
 430. 1920 -- June 09, **trains collide**, near Schenectady, NY -- 15  
 431. 1920 -- Sep 16, anarchist **bombing**, Wall Street Bombing Terrorist Attack, NY --30-38  
 432. 1920 -- Oct 31, **explosion/fire**, Niagara Falls Power Co., N. Tonawanda, NY -- 13  
 433. 1921 -- **polio**, esp. late Sum.-Fall, NY subset, highest in US, of 1,597 US polio deaths--272  
 434. 1921 -- Nov 14, **fire**, tenement house, 108 West 17<sup>th</sup> St., NYC, NY --10-12  
 435. 1921 -- Dec 24-Jan 3, **wood alcohol poisoning**, NYC -- 10  
 436. 1922 -- June 11, **severe storm**, NY and New England, particularly NYC, NY -- 60  
 437. 1922 -- Sep 05-11, **wood alcohol poisoning**, NYC, NY -- 11  
 438. 1922 -- Oct 22, **fire**, apartment house, Lexington Avenue, New York, NY -- 15  
 439. 1923 -- Feb 18, **fire**, Manhattan State Hospital for Insane, Ward's Island, NY -- 27  
 440. 1923 -- Apr 27, **fire**, tenement building, East 109<sup>th</sup> Street, New York, NY -- 12  
 441. 1924 -- Feb 19, **fire**, tenement house, Madison Street, New York, NY -- 14  
 442. 1924-25 -- Nov-Feb, **Typhoid Fever from NY contaminated raw oysters**, NY City<sup>588</sup>~90

<sup>585</sup> Largest loss of life in a state and tied for third highest loss as a percentage of deaths per 1,000 population (.19).

<sup>586</sup> 2<sup>nd</sup> behind PA with 497 deaths. Rochester and Syracuse had 8<sup>th</sup> and 9<sup>th</sup> highest city death rates (pop >100,000).

<sup>587</sup> New York was second, behind PA, in total deaths to whooping cough in 1920.

<sup>588</sup> See our document. There were approximately 150 such deaths primarily in Chicago, NYC, and Washington, DC.

## New York (continued):

443. 1924 -- Dec 27-29, **carbon monoxide poisoning** deaths, New York City, NY --15-20
444. 1925 -- exposure to excessive natural **cold**; 239 US excessive cold deaths; NY subset-- 18
445. 1925 -- **diphtheria** (NY subset, highest of 8,058 US diphtheria deaths) --1,006
446. 1925 -- **excessive heat** (NY subset, highest in US of 1,587 US excessive heat deaths)-- 439
447. 1925 -- **influenza** (NY subset, 6<sup>th</sup> highest, 30,538 US influenza deaths) --1,461
448. 1925 -- **measles** (NY subset, 3<sup>rd</sup> highest, 2,404 US measles deaths) -- 323
449. 1925 -- **meningococcus meningitis**, NY subset, highest of 1,095 US meningitis deaths--148
450. 1925 -- **polio** (NY subset, highest polio loss in a state; 1,518 US polio deaths) -- 208
451. 1925 -- **scarlet fever** (NY subset, 5<sup>th</sup> highest, 2,762 US scarlet fever deaths, 48 states)--191
452. 1925 -- **tuberculosis** (NY subset, highest in US, 89,268 US tuberculosis deaths) --10,282
453. 1925 -- **typhoid/paratyphoid fever** (NY subset, 8,287 US Typhoid Fever deaths) -- 398
454. 1925 -- **whooping Cough** (NY subset, 2<sup>nd</sup> highest, 6,948 US whooping cough deaths)--523
455. 1925 -- June, **excessive natural heat**, New York state and New York City, NY -- 439
456. 1926 -- Feb 22, hotel **fire**, Schindler's Prairie House, Hurleyville, NY --11-12
457. 1926 -- July 14, hotel **fire**, Twilight Inn, Haines Falls, NY -- 14
458. 1926 -- July 22-Aug 2, **wood alcohol poisonings**, Buffalo, NY and vicinity -- 45
459. 1926 -- July 21-23, **heatwave**, especially New York City, NY --16-20
460. 1926 -- July 22, **bus** with Brooklyn excursionists overturns, near Nyack, NY -- 10
461. 1926 -- Aug 08, undertow **drownings**/large Lake Erie waves, Brant Beach/Farnham NY--11
462. 1926 -- Dec 20, motor launch **Linseed King** hits ice, sinks, Hudson River, NYC --35-58
463. 1927 -- July 12-17, **heatwave**, especially New York City and Upper NY State --38-45
464. 1928 -- May 07, US Army dredge **Navesink** hits *Swinburne*, sinks ~Stapleton, NY --17-18
465. 1929 -- July 09, **train derails; hit by 2<sup>nd</sup> train**, Erie Railroad, near Corning, NY -- 12
466. 1929 -- Dec 10, **fire** (lamp), Pathe Film Studio, Manhattan, NYC, NY -- 10
467. 1930 -- July 29, OH sandsucker **George J. Whelan** capsizes/sinks/squall/cargo shift ~Dunkirk, NY-15
468. 1931 -- **epidemic cerebrospinal meningitis**, NY subset,<sup>589</sup> 2,832 US "ECM" deaths-- 278
469. 1931 -- **diphtheria**, especially children (NY subset, 5,738 U.S. diphtheria deaths) -- 283
470. 1931 -- **influenza** (NY subset of 31,701 influenza deaths nationwide) --1,552
471. 1931 -- **measles**, esp. children (NY subset, 4<sup>th</sup> highest, 3,576 US measles deaths) -- 250
472. 1931 -- **tuberculosis**; subset of 81,395 US TB deaths --8,618
473. 1931 -- summer, esp. June 22-July 29, **heat waves**, especially New York City, NY -- 88
474. 1931 -- July-Oct (Aug peak), **polio** (highest subset of ~2,140 US polio deaths)<sup>590</sup> -- 671
475. 1932 -- Sep 09, steam screw **Observation** explosion,, East River off Manhattan NY -- 72
476. 1933 -- Sep 05, passenger and milk **trains collide**, Erie Railroad, Binghamton NY --14-23
477. 1934 -- summer, **excessive natural heat**; subset of 3,250 US heat deaths; NY -- 28
478. 1934 -- July 22, **bus** with defective brakes runs off road, burns, Ossining, NY --19-20
479. 1935 -- Jan 25, liner **Mohawk** sinks after collision with freighter **Talisman**, off NJ/NY-- 46
480. 1935 -- July 07-11, **flooding**, Mohawk & Upper Susquehanna Rivers, NY -- 30
481. 1936 -- Jan 18-28, **winter snow storms and extreme cold**, especially NYC area --16-19
482. 1936 -- Feb 16-21 especially, **arctic cold-waves, snowstorms** (273 US deaths), NY -- 10
483. 1936 -- July-Aug (especially), **heat** (4,678-5,418 US heat deaths), esp. NYC --82-117
484. 1937 -- Aug 11, heavy rain, 3 **tenement bldgs. collapse**, New Brighton, S.I., NY --19-23

<sup>589</sup> NY State led the nation in "epidemic" cerebrospinal meningitis" (Census Bureau term) deaths in 1931.

<sup>590</sup> NYC had >500 polio deaths, epicenter in Brooklyn. Some days  $\geq 7$  died, and dozens of new cases reported.

### New York (continued):

485. 1938 -- Aug 03-04, **heat wave**, especially Upstate or Northern NY -- 19
486. 1938 -- Sep 21, **New England Hurricane** "Long Island Express," Long Island, NY --69-77
487. 1939 -- **influenza & pneumonia** (NY subset, 99,097 U.S. flu & pneumonia deaths) --7,939
488. 1939 -- **tuberculosis** (NY subset of 61,609 tuberculosis deaths nationwide)<sup>591</sup> --5,889
489. 1939 -- **whooping cough** (NY subset of 3,026 U.S. whooping cough deaths) -- 136
490. 1939 -- summer, **excessive natural heat**; subset of 527-1,073 US heat deaths -- 18
491. 1940 -- **influenza & pneumonia** (NY subset, 92,525 US flu and pneumonia deaths)--6,597
492. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); NY death rate 15.7--2,110
493. 1940 -- **tuberculosis** (NY subset of 55,576 tuberculosis deaths nationwide) --5,851
494. 1940 -- **whooping cough** (NY subset of 2,926 US whooping cough deaths) -- 141
495. 1940 -- Feb 14, Valentine's Day winter **nor'easter, snow-storm**, NY<sup>592</sup> --13-26
496. 1940 -- Apr 19, speeding *Lake Shore Ltd.* **train derails**, Gulf Curve, Little Falls, NY-- 31
497. 1940 -- June 17, two USAAF **bombers collide/crash**, Bellerose Manor, Queens, NY-- 12
498. 1941 -- Aug 18, **fire**, NY & Cuba Mail Steamship Co. Piers, *Panuco*, Brooklyn, NY--34-35
499. 1942 -- Apr 3, US freighter **Otho** sunk by U-boat ~200M east of Cape Henry, VA<sup>593</sup>--31-32
500. 1942 -- Sep 11, P-40 Warhawk **plane crash**, Curtiss-Wright Plant, near Buffalo, NY-- 14
501. 1942 -- Nov 06, **gunpowder explosion**, Rochester Fireworks Co., East Rochester, NY-- 11
502. 1942 -- Nov 28, **fire**/trampling/suffocation, Coconut Grove Nightclub, Boston, MA<sup>594</sup>--12
503. 1942 -- Dec 31, freighter **Maiden Creek** sinks in storm, ~47M off SE. Long Island, NY--20
504. 1943 -- Apr 19, cabin cruiser **Legionnaire** sinks, South Bay, off Long Island, NY -- 10
505. 1943 -- Aug 18, **USN Patrol Plane VP-210 crash** off Montauk Pt. Long Island, NY-- 12
506. 1943 -- Aug 30, **train collision**, Lackawanna Limited, near Wayland, NY --28-29
507. 1943 -- Dec 11, collier **Suffolk** sinks in heavy gale off Montauk Point, NY --all 42-43
508. 1943 -- Dec 14, war workers bus/**tractor trailer** collide, bus burns, ~Campbell, NY -- 11
509. 1943 -- Dec 24, **fire**, Standard Hotel, West 42<sup>nd</sup> Street between 9<sup>th</sup> and 10<sup>th</sup>, NYC, NY-- 19
510. 1944 -- **cerebrospinal meningitis**; NY set, 2,812 US cerebrospinal meningitis deaths --326
511. 1944 -- **influenza** (NY subset of 17,320 U.S. influenza deaths), esp. Jan-Apr, Dec -- 515
512. 1944 -- **polio**, the year, especially July-Nov (NY subset 1,070 U.S. polio deaths) -- 342
513. 1944 -- **tuberculosis** (NY subset of 54,731 tuberculosis deaths nationwide)<sup>595</sup> --6,045
514. 1944 -- **whooping cough** (NY subset of 1,878 whooping cough deaths nationwide) -- 61
515. 1944 -- Jan 03, US destroyer **Turner**, **ammunition explosions/fire**, sinks, NY Harbor-138-139
516. 1944 -- Sep 15, **Great Atlantic Hurricane**, mostly electrocutions in NYC and L.I. --12-17
517. 1944 -- Dec 27, USAAF B-24J **plane crash**, near Mattituck, Long Island, NY -- 11
518. 1945 -- Feb 05, tanker **Spring Hill** hit/explosion & fire, off Stapleton, Staten Isl., NY-19-20
519. 1945 -- Mar 10, USAAF B-24 **plane crash**, Atlantic ~Montauk Point, Long Island, NY--12
520. 1945 -- July 28, **B-25D Bomber flies into Empire State Building** in **Fog**, NY -- 14
521. 1945 -- Nov 29-30, **nor'easter**, NY subset, 11 overexertion snow-related, 6 vehicle-related-- 17
522. 1946 -- **polio**, especially July-Nov (NY subset of 1,845 polio deaths nationwide) -- 64
523. 1946 -- Dec 12, **fire**, vacant Knickerbocker Ice Plant **wall falls** onto **Tenement**, NYC-- 37

<sup>591</sup> About ten percent (9.5) of all U.S. tuberculosis deaths in 1939 were in New York State (with ~10% US pop.).

<sup>592</sup> Thirteen is number we have verified by identification of victims and locality -- out of 26 reported deaths.

<sup>593</sup> Cross-listed in NY in that the *Otho* was owned/homeported in NYC, and at least 15 killed were New Yorkers.

<sup>594</sup> Cross-listed in New York in that 12 of the 498 fatalities were of New York residents.

<sup>595</sup> Over ten percent (11.04) of all U.S. tuberculosis deaths in 1944 were in New York State (with ~10% US pop.).

**New York (continued):**

524. 1947 -- Feb 21-23, **snowstorm**, esp. New York City greater metropolitan area<sup>596</sup> -- ~20
525. 1947 -- May 29, United Air 521 **plane crash** and fire, on take-off, La Guardia, NY -- 43
526. 1947 -- Dec 26, **snow storm**, NY -- 17
527. 1948 -- Feb 13, **fire**, apartment building, Hoage family, Cedar Street, Utica, NY -- 11
528. 1948 -- June 17, **United Air Lines** Flight 624 **crash**, Mt. Carmel, ~Shamokin, PA<sup>597</sup>-- 43
529. 1949 -- **polio**, especially July-Nov (NY subset of ~2,725 polio deaths nationwide) -- 320
530. 1950 -- **measles**, especially children (NY subset of 468 measles deaths nationwide) -- 20
531. 1950 -- **polio**, especially July-Nov (NY subset of 1,904 polio deaths nationwide) -- 186
532. 1950 -- Feb 17, **trains collide** head-on, Rockville Centre Station, Rockville Centre, NY-- 32
533. 1950 -- May 7, squalls; **boatmen in rivers/lakes/coast of NY**; Upper NY/10, NYC/7-- 17
534. 1950 -- May 19, munitions being moved explode, Raritan Riv. Pier, So. Amboy, NJ<sup>598</sup>-- 31
535. 1950 -- Sep 04, **Robinson Air #32** takeoff engine failure/crash, Oneida Co. AP, Utica, NY--16
536. 1950 -- Nov 22, Long Island **commuter trains collide**, Richmond Hill, Queens, NY-- 79
537. 1950 -- Nov 24-27, East US **winter "Storm of the Century,"** Subset for NY -- 36
538. 1950 -- Dec 18, tug **Sachem** sinks (all aboard lost), Lake Erie, off Dunkirk, NY -- 12
539. 1951 -- **measles**, 688 US deaths; subset for NY (9<sup>th</sup> highest US state loss) -- 23
540. 1951 -- **polio**, esp. July-Nov (NY subset, 6<sup>th</sup> highest, 1,551-1,555 US polio deaths) -- 61
541. 1951 -- **tuberculosis**, 31,163 US deaths, subset for NY (highest in US) --3,531
542. 1951 -- Sep 01, overloaded deep-sea fishing boat **Pelican** capsizes off Montauk Pt., L.I., NY--45
543. 1951 -- Oct 29, **two boats and barge collide**, gasoline explosion, Buffalo River, NY-- 11
544. 1951 -- Dec 29, Continental Charters **Flight 44-2** flies into terrain near Salamanca, NY--26
545. 1952 -- **measles**, 621 US deaths; 24 states double digits; NY (2<sup>nd</sup> highest US state) -- 48
546. 1952 -- **polio**, subset of ~3,300 US polio deaths; New York City (35) -- 123
547. 1952 -- **scarlet fever and streptococcal sore throat**; 352 US deaths; NY (2<sup>nd</sup> highest)-- 22
548. 1952 -- **tuberculosis** (respiratory): 22,700 US deaths; NY (highest US state loss) --2,462
549. 1953 -- **heat, excessive natural** (code E931), 576 US heat deaths, esp. Aug 22-Sep 5-- 43
550. 1953 -- **polio**, esp. children (NY subset, 2<sup>nd</sup> highest, of 1,450 US polio deaths) -- 119
551. 1953 -- **scarlet fever** & streptococcal sore throat; 296 US deaths; NY subset/3<sup>rd</sup> US high--20
552. 1953 -- **tuberculosis** (respiratory); 17,954 US deaths; NY (highest state loss in US) --1,983
553. 1953 -- Sep 16, **American Air 723, AP approach**, hits towers in fog, Albany NY --all 28
554. 1953 -- Sep 23, **explosions** (4), Lucidol organic peroxides plant, Tonawanda, NY -- 11
555. 1953 -- Nov 12-23, **smog**, New York City --150-260
556. 1954 -- **encephalitis**, acute infectious (viral); 407 US deaths, esp. NY/52 PA/31 MI/27-- 52
557. 1954 -- **measles**; 524 US deaths; 21 states double digits; NY tied with TX largest loss-- 36
558. 1954 -- **polio**, acute; 1,400 US deaths; NY (3<sup>rd</sup> highest US state loss) -- 97
559. 1954 -- **scarlet fever**/streptococcal sore throat; 263 US deaths; NY 2<sup>nd</sup> highest US loss-- 18
560. 1954 -- **tuberculosis** (respiratory); 15,146 US deaths; NY had highest US state loss --1,667
561. 1954 -- **whooping cough**/pertussis; 375 US deaths, 17 states double digits, NY subset-- 13
562. 1954 -- Mar 31, **fire**, Cleveland Hill Elementary School, Cheektowaga, NY -- 15

<sup>596</sup> This reflects press reporting at the time, not showing details, and not noting northern NJ deaths, which were approximately 11-13. It is quite possible the metro NYC death toll includes nearby NJ fatalities.

<sup>597</sup> Cross-listed in NY in that 17 of the 43 fatalities were from New York.

<sup>598</sup> Cross-listed in NY in that 14 of the 31 fatalities lived in NY – Staten Island, NY, is opposite the Raritan River from South Amboy. Fatalities were from Staten Island, Brooklyn, Bronx, NYC. and Long Island.



**New York (continued):**

563. 1954 -- Oct 15-16, **Hurricane Hazel**, NY, electrocution/falling objects/falls, accidents-- 21
564. 1954 -- Nov 07, **CO fumes**, faulty gas water heater, kill family and guests, NYC, NY-- 10
565. 1954 -- Dec 18, **Italian Airlines 451 airport approach (4<sup>th</sup>) crash**, Idlewild IAP, NY-- 26
566. 1955 -- **measles**, 345 US deaths (7 states double digits); NY (3<sup>rd</sup> highest US State loss)-- 28
567. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); NY subset -- 77
568. 1955 -- **tuberculosis** (respiratory); 13,676 US TB deaths; US subset (highest in US)--1,642
569. 1955 -- Feb 01, oil stove **fire** (11 children), tenement, Schuyler St., Amsterdam, NY-- 12
570. 1955 -- Aug 12, **Hurricane Connie**, flooding/vehicular accidents/electrocution, esp. NYC-- 12
571. 1956 -- **measles**, 530 US deaths/21 states in double digits; NY 7<sup>th</sup> highest US state loss--24
572. 1956 -- **polio/acute**, 566 US deaths/15 states in double-digits; NY 4<sup>th</sup> highest US state-- 29
573. 1956 -- **scarlet fever/streptococcal sore throat**; 240 US deaths; NY, 2<sup>nd</sup> highest state-- 14
574. 1956 -- **tuberculosis** (respiratory), 12,978 US deaths; NY (highest US state loss) --1,557
575. 1956 -- Mar 16 & 18, **snowstorms**; US deaths in 14 states 95-138; subset for NY -- 30
576. 1956 -- Dec 03, Luckenbach Steamship Co. pier **fire**, **detonators explode**, Brooklyn<sup>599</sup>--10
577. 1957 -- **influenza**; 7,463 US deaths; NY subset (2<sup>nd</sup> highest loss after PA) -- 471
578. 1957 -- **measles**; 389 US deaths; 15 states double digit deaths; NY subset -- 12
579. 1957 -- **scarlet fever**/streptococcal sore throat; 213 US deaths/5 states double digits, NY-15
580. 1957 -- **tuberculosis** (respiratory); 12,384 US deaths; NY subset (US state high) --1,493
581. 1957 -- Feb 01, Northeast Airlines **Flight 823** crashes on takeoff onto Rikers Island NY--20
582. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) --6,186
583. 1957 -- Nov 16, **fire**, tenement (ex-Moonglow Hotel), Allen Ave., Niagara Falls, NY-- 18
584. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including NY (6<sup>th</sup> highest)-- 28
585. 1958 -- **polio** (acute); 255 US deaths; 11 states in double digit deaths; NY -- 11
586. 1958 -- **tuberculosis**; 12,361 US TB deaths; NY subset (highest in US) --1,380
587. 1958 -- Feb 06-19, **coldwave/snowstorms**; 256-284 US deaths, NY led with -- 61
588. 1958 -- Feb 22-Mar 04, **bootleg wood alcohol poisoning**, Puerto Ricans, NYC -- 27
589. 1958 -- Mar 19, **fire** and floor collapse, Monarch Underwear Co., NYC, NY -- 24
590. 1959 -- **influenza**; 2,845 US deaths; NY subset (4<sup>th</sup> highest State death toll) -- 126
591. 1959 -- **measles**, especially children; 385 US deaths; NY subset -- 16
592. 1959 -- **polio** (acute, as opposed to late effects of); 454 US deaths; NY subset (US high)--49
593. 1959 -- **tuberculosis**; 11,456 US TB deaths; NY subset --1,316
594. 1959 -- Jan 03-07, **winter weather** (strong winds, bitter cold), East-Central NY -- 13
595. 1959 -- Jan 16-18, **winter weather** (snowstorm, gale winds), NY, esp. NW NY --11-12
596. 1959 -- Feb 03, **plane crash**, American Flight 320, into East River, NYC, NY -- 65
597. 1959 -- Mar 11-13, **snowstorm/blizzard**; 46 NY and New England deaths; NY -- 22
598. 1960 -- **measles**, especially children; 380 US deaths; NY -- 31
599. 1960 -- **polio** (acute, as opposed to late effects of); 230 US deaths, NY (the high) -- 26
600. 1960 -- **tuberculosis**; 10,866 deaths/death rate 6.1 per 100K; NY death rate 7.6 --1,272
601. 1960 -- Feb 12-15 **snowstorms**, Gulf to East Coast & Northeast; 91-94 US deaths, NY-- 17
602. 1960 -- Feb 18-20, **snowstorms**, esp. East Coast and Northeast; 39 US deaths; esp. NY--15
603. 1960 -- Mar 02-05, **snowstorm**, NY subset (highest State loss) of 186-193 deaths; NY-- 31
604. 1960 -- Dec 10-12, northeast **snowstorm/blizzard/coldwave**, NY subset of 208-253--41-54
605. 1960 -- Dec 16, United and TWA **planes collide**, Staten Island/Brooklyn, NY -- 134

<sup>599</sup> Cross-listed in Explosions. Fire was the precipitating event. All deaths, though, were due to the explosion.

## New York (continued):

606.	1960 -- Dec 19, <b>U.S.S. Constellation</b> fire, New York Naval Shipyard, NY	-- 50
607.	1961 -- <b>polio</b> , acute (as opposed to late effects), 90 deaths/33 States, esp. mid-Atlantic, esp. NY--	14
608.	1961 -- <b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; NY death rate 6.8	--1,165
609.	1961 -- Feb 03-05, snow storms, overexertion (20) and traffic (2) deaths, NY	-- 22
610.	1962 -- <b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; NY rate 6.3	--1,094
611.	1962 -- Mar 01, American Air Flight 1, <b>plane crash</b> , Jamaica Bay, Queens, NY	-- 95
612.	1962 -- July 25, brakes fail, propane LPG tanker <b>truck crash/explos./fire</b> , Berlin, NY <sup>600</sup> -	10
613.	1962 -- Oct 03, boiler <b>explosion</b> , NY Telephone Company building, Manhattan, NY--	23
614.	1962 -- Nov 30, Eastern Air Flight 512 <b>plane crash</b> on approach in fog, Jamaica, NY--	25
615.	1963 -- <b>excessive heat</b> ; 196 US deaths; NY	-- 11
616.	1963 -- <b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; NY rate 5.9	--1,049
617.	1963 -- Jan 13-14, <b>winter weather, coldwave, snow, slick roads</b> , NY	-- 14
618.	1963 -- Jan 23-28, <b>winter weather, cold-waves, snow</b> (subset, 315-352 US deaths)	-- 21
619.	1963 -- Nov 03, <b>car</b> goes through inoperable dead-end warning in Harlem Riv., NYC--	11
620.	1964 -- <b>measles</b> ; 421 US deaths/death rate 0.2; NY death rate 0.2	-- 30
621.	1964 -- <b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; NY death rate 5.0	-- 895
622.	1964 -- Jan 12-14, <b>snowstorm and cold wave</b> , esp. NE US (146-167), NY	--18-25
623.	1965 -- <b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; NY death rate 5.1	-- 916
624.	1965 -- Feb 08, <b>plane crash</b> , Eastern 663, Ocean off Jones Beach State Park, NY	-- 84
625.	1965 -- Dec 20, <b>fire (arson?)</b> , Jewish Community Center (9 children) Yonkers, NY	-- 12
626.	1966 -- <b>excessive natural heat</b> , esp. late June-mid-July, subset, 613 US heat deaths, NY--	34
627.	1966 -- <b>measles</b> , 276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; NY--	12
628.	1966 -- <b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; NY--	40
629.	1966 -- <b>scarlet fever</b> and streptococcal sore throat, 65 US deaths, esp. TX/12, NY/10--	12
630.	1966 -- <b>tuberculosis</b> , 7,625 US TB deaths; subset for NY	-- 844
631.	1966 -- Jan 29-Feb 01, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; NY	--25-28
632.	1966 -- June 16 (& 28), collision/explosions/fire, <b>Texaco Mass./Alva Cape</b> , off NY, NY <sup>601</sup> --	37
633.	1966 -- Oct 17, <b>fire</b> , floor collapse, firefighters killed, Mercantile Building, NYC	-- 12
634.	1966 -- Nov 23-25, <b>environmental (smog)</b> , New York City, NY	-- 168
635.	1967 -- June 23, <b>plane fire and crash</b> , Mohawk Air Flight 40, near Blossburg, PA <sup>602</sup> --	34
636.	1967 -- Oct 09, SS <b>Panoceanic Faith</b> (homeport NY) founders, North Pacific	--36-37
637.	1968 -- <b>excessive natural cold</b> ; 494 of US deaths; NY subset highest in US	-- 34
638.	1968 -- <b>chickenpox</b> ; ICD-8 code 052; 99 US polio deaths; NY (highest State loss)	-- 10
639.	1968 -- <b>excessive natural heat</b> ; 231 US deaths; NY subset highest in US	-- 22
640.	1968 -- <b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; NY 3.96 <sup>603</sup>	-- 718
641.	1968 -- Jan 09, <b>fire</b> , paper box factory and tenement/apartment house, Brooklyn, NY--	13
642.	1968 -- July 18, <b>fire</b> , dwelling (9 children, 2 adults), St. Albans sec., Queens, NY	-- 11
643.	1968 -- Oct 13-Mar 29, A2 Hong Kong <b>influenza-pneumonia</b> epidemic, esp. NYC <sup>604</sup> --	2,867

<sup>600</sup> The driver died in a hospital, nine people died of burns from the LPG explosion.

<sup>601</sup> Thirty-three deaths on June 16 (*Alva Cape*, 19; tug *Esso Vermont*, 8; *Texaco Massachusetts*, 3; and tug *Latin American*, 3) and four more on June 28 while the *Alva Cape* was being unloaded at Gravesend Bay.

<sup>602</sup> Cross-listed here in that the NY-based plane originated in Syracuse and included amongst its fatalities at least 10 New York residents – nine passengers and the Captain. Three other crew members were killed – probably from NY.

<sup>603</sup> Most lives lost to TB than any State in 1968.

## New York (continued):

644.	1968 -- Dec 12, <b>Pan Am 217</b> , from NYC, crashes into sea off Caracas, Venezuela <sup>605</sup> --51/US 21	
645.	1969 -- <b>excessive natural cold</b> ; ICD-8 code E901; 424 US deaths; NY	-- 21
646.	1969 -- <b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; NY rate 3.39 <sup>606</sup>	-- 617
647.	1969 -- Feb 25, <b>fire</b> , Rosen Architectural Office, Fifth Ave., Manhattan, NYC, NY	-- 11
648.	1969 -- Nov 19, <b>plane crash</b> , Mohawk Air 411 on approach, near Glenn Falls, NY	-- 14
649.	1969 -- Dec 18, <b>fire</b> , tenement, Brooklyn, NY	-- 10
650.	1970 -- excessive <b>natural cold</b> ; ICD-8 code E901; 466 US deaths; NY	-- 17
651.	1970 -- <b>polio</b> ; ICD-8 codes 040-044; 128 US deaths/death rate 0.06 per 11K; NY 0.08--	14
652.	1970 -- <b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; NY 3.4--	623
653.	1970 -- Aug 9, <b>LANSA 502 takeoff crash</b> (49 US HS students) <sup>607</sup> ~Cuzco AP, Peru--101/US54-55	
654.	1970 -- Sep 08, <b>plane crash</b> on takeoff, Trans International Air 893, JFK AP, NY	-- 11
655.	1971 -- excessive <b>natural cold</b> ; ICD-8 code E901; 361 US deaths; NY	-- 17
656.	1971 -- <b>polio</b> ; ICD-8 codes 040-044; 108 US deaths; NY	-- 11
657.	1971 -- <b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; NY/2.84	-- 522
658.	1971 -- Sep 09-13, <b>Attica Prison riot</b> and Government re-taking of prison, Attica, NY--	39
659.	1972 -- <b>chickenpox</b> ; 122 US deaths; NY tied with CA and OH for US high	-- 12
660.	1972 -- <b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; NY <sup>608</sup>	-- 36
661.	1972 -- <b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; NY 2.66	-- 488
662.	1972 -- July 11-25, <b>heat wave</b> , New York City, NY <sup>609</sup>	-- 891
663.	1972 -- Mar 03, <b>plane crash</b> , Mohawk Airlines N7818M, Albany, NY	-- 17
664.	1972 -- June 20-25, <b>flooding</b> and helicopter crash, <b>Hurricane Agnes</b> , NY	-- 26
665.	1973 -- <b>excessive natural cold</b> ; ICD-8 code E901; 381 US deaths; NY subset	-- 19
666.	1973 -- <b>excessive natural heat</b> ; ICD-8 code E900; 181 US deaths; NY (US high)	-- 31
667.	1973 -- <b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; NY 2.33 per 100K--	424
668.	1973 -- Feb 10, <b>fire/gas explosion/LNG tank</b> , concrete roof falls, Staten Island, NY--	40
669.	1973 -- June 02, <b>Sea Witch</b> /3 collides with <b>Esso Brussels</b> /13, fire, NY Harbor, NY	-- 16
670.	1974 -- exposure to excessive <b>natural cold</b> ; ICD-8 code E901; 348 US deaths; NY	-- 12
671.	1974 -- <b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; NY, 1.98	-- 357
672.	1974 -- Jan 24, Vogel Apartment House <b>fire</b> (7 children, 3 adults), Liberty, NY	-- 10
673.	1974 -- June 30, <b>fire</b> of incendiary origin, Gulliver's Discotheque, Port Chester, NY--	24
674.	1975 -- exposure to <b>excessive natural heat</b> /code E900; 190 US deaths; NY (US high)--	27
675.	1975 -- <b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; NY, 2.11	-- 380
676.	1975 -- June 24, <b>plane crash</b> , Eastern Airlines 66, microburst, JFK Airport, NY	-- 113
677.	1975 -- Dec 29, LaGuardia Airport <b>bomb</b> explosion, TWA baggage area, Brooklyn, NY--	11
678.	1976 -- exposure to excessive natural <b>cold/hypothermia</b> ; 424 US deaths; NY <sup>610</sup>	-- 29

<sup>604</sup> CDC MMWR reports contained data only on NYC, Buffalo, Rochester, Schenectady, Syracuse, Utica and Yonkers. U.S. epidemic influenza-pneumonia death toll was estimated at 133,800.

<sup>605</sup> Including the captain and other crew members, there were ten New York residents killed in this plane crash.

<sup>606</sup> NY had the largest loss of life to tuberculosis of any State in 1969; CA had 2<sup>nd</sup> highest at 395.

<sup>607</sup> Though in Peru, listed here in that twenty of the 49 high school exchange students were from NY schools.

<sup>608</sup> Second highest state death toll behind Illinois with 46.

<sup>609</sup> CDC Wonder on-line database, ICD-8 code E900/excessive natural heat, shows 24 direct heat deaths in NY State. The CDC relies on death certificate data its system has access to which code for direct deaths to excessive heat (such as heat stroke). We cite in our document accessible from the Spreadsheet, three sources noting 891 heat-related deaths in NYC for the heatwave timeframe of July 11-25, and one other source noting approximately 900.

**New York (continued):**

679.	1976 --	tuberculosis	; 3,130 US TB deaths/death rate 1.44 per 100K; NY rate 1.69	--	304
680.	1976 --	Feb 04, tenement house fire	(7 children, 3 adults), Manhattan, NYC, NY	--	10
681.	1976 --	Oct 24, arson fire	, Puerto Rican Social Club, Bronx, NY	--	25
682.	1976 --	Dec 22, Fields department store fire	(5 stories), Fulton Street, Brooklyn, NY--		12
683.	1977 --	cold/hypothermia	, exposure to excessive natural; 634 US deaths; NY	--	27
684.	1977 --	excessive natural heat	(esp. summer), ICD-8 E900/US death rate 0.14, NY, 0.10--		17
685.	1977 --	tuberculosis	; 2,968 US TB deaths/death rate 1.35 per 100K; NY, 1.51	--	270
686.	1977 --	Jan 26-Feb 1, snow/blizzards/coldwave	(116 US deaths), esp. Buffalo/W. NY--		31
687.	1978 --	exposure to excessive natural cold/hypothermia	; 652 US deaths; NY	--	34
688.	1978 --	tuberculosis	, 2,914 US TB deaths/death rate 1.31 per 100K; NY, 1.60	--	283
689.	1978 --	Nov 26, fire	(probable arson), Holiday Inn Northwest, Ridge Rd., Greece, NY--		10
690.	1979 --	exposure to excessive natural cold/hypothermia	; 356 US deaths; NY	--	21
691.	1979 --	chickenpox	, 103 US chickenpox deaths/death rate 0.05 per 100K, NY, 0.06--		10
692.	1979 --	tuberculosis	, 2,007 US TB deaths/death rate 0.89 per 100K; NY, 0.99	--	175
693.	1980 --	exposure to excessive natural cold/hypothermia	; 302 US deaths; NY	--	12
694.	1980 --	tuberculosis	; 1,978 US TB deaths/death rate 0.87 per 100K; NY, 1.08	--	189
695.	1980 --	June-Aug (especially) heat	, ICD-9 E900 excessive natural heat, esp. NYC	--	24
696.	1980 --	July 24, explosion/fire	, Vogue Metal Crafts Co./Metal Mfg., Queens, NY	--	11
697.	1980 --	Oct 24, SS Poet	leaves Philadelphia for Egypt, lost, probably Oct 25-26 <sup>611</sup>	--	34
698.	1980 --	Dec 04, fire	, Conference Ctr. at Stouffer's Inn (possibly arson), <sup>612</sup> Harrison, NY--26		
699.	1981 --	exposure to excessive natural cold/hypothermia	; 289 US deaths; NY	--	15
700.	1981 --	tuberculosis	; 1,937 US TB deaths/death rate 0.84 per 100K; NY, 1.21	--	213
701.	1981 --	June-Aug (especially) heat	(esp. ICD-9 E900 code, excessive natural heat)	--	16
702.	1982 --	exposure to excessive natural cold/hypothermia	; 402 US deaths; NY <sup>613</sup>	--	14
703.	1982 --	tuberculosis	, 1,807 US TB deaths/death rate 0.78 per 100K, NY, 1.08	--	191
704.	1982 --	Jan 10-18, winter weather (extreme cold and snow storms)	, NY <sup>614</sup>	--	14-16
705.	1983 --	exposure to excessive natural cold/hypothermia	; 510 US deaths; NY	--	13
706.	1983 --	HIV AIDS	, U.S. ~1,500. New York City	--	425
707.	1983 --	tuberculosis	, 1,779 US TB deaths, death rate 0.76 per 100K; NY, 1.17	--	207
708.	1983 --	Feb 11-12, winter storm/blizzard	especially NYC snow-removal heart attacks--		15
709.	1983 --	Sep 01, Korean Air 007	shot down by USSR off Sakhalin Island; NY residents--		34
710.	1983 --	Dec 17-29, winter weather	, severe cold/exposure deaths, snow, icy roads	--	28
711.	1984 --	exposure to excessive natural cold/hypothermia	; 359 US deaths; NY	--	12
712.	1984 --	HIV AIDS	, U. S. 3,578; New York City	--	952
713.	1984 --	tuberculosis	, 1,729 US TB deaths, death rate 0.73 per 100K; NY, 1.21	--	215
714.	1984 --	Feb 27-29, snowstorms	; heart attacks/snow removal/9, CO poisoning/2; road/1--		12
715.	1984 --	Mar 28-30, nor'easter	, wind and snow storm, coastal, central, western NY	--	~16
716.	1984 --	Apr 15, Christopher Thomas	"Palm Sunday Massacre," New York, NY	--	10

<sup>610</sup> Largest loss of life to hypothermia of any State in 1976.

<sup>611</sup> Cross-listed here in that the homeport was in NY.

<sup>612</sup> A waiter was charged with arson and 26 counts of murder and found guilty by jury; however, the presiding judge overturned the verdict citing insufficient evidence. This act was appealed but upheld by State Supreme Court.

<sup>613</sup> We presume that at least eight of these stem from the Jan 10-18 winter weather event noted below.

<sup>614</sup> Includes 3 heart attack deaths shoveling snow, 4 indoor hypothermia, one outdoor hypothermia, two vehicular hypothermia deaths, one hypothermia death no locale noted, 3 vehicular deaths, and a snowmobile crash.



**New York (continued):**

717.	1984	--	summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 228--	14
718.	1985	--	<b>chickenpox</b> ; 68 US deaths, death rate 0.03 per 100K; NY death rate 0.06	-- 10
719.	1985	--	exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; NY	-- 20
720.	1985	--	<b>HIV AIDS</b> , U.S. 6,903, New York City	--1,663
721.	1985	--	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; NY, 1.12	-- 199
722.	1986	--	exposure to excessive natural <b>cold/hypothermia</b> ; 301 US deaths; NY	-- 16
723.	1986	--	<b>HIV AIDS</b> ; U.S. 12,053, New York City	--2,650
724.	1986	--	<b>meningococcal meningitis</b> , 88 US deaths/death rate 0.04 per 100K, NY .06--	10
725.	1986	--	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; NY rate 1.34	-- 239
726.	1987	--	<b>chickenpox</b> ; 89 US deaths/death rate 0.04 per 100K; NY, 0.08	-- 14
727.	1987	--	exposure to excessive natural <b>cold/hypothermia</b> ; 326 US deaths; NY	-- 15
728.	1987	--	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; NY, 19.14, esp. NYC	--3,425
729.	1987	--	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, NY, 1.50	-- 269
730.	1987	--	Apr 05, <b>flooding/Schoharie Cr. bridge fails/vehicles fall</b> , 190 ~Fort Hunter <sup>615</sup> NY-10	
731.	1988	--	exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; NY	-- 27
732.	1988	--	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; NY, 22.0--	3,990
733.	1988	--	<b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K; NY, 1.61	-- 290
734.	1988	--	summer <b>excessive natural heat</b> (exposure to excessive natural heat), NY	-- 18
735.	1988	--	Dec 21, NY residents killed on <b>Pan Am 103 bombing</b> , Lockerbie Scotland <sup>616</sup> --	54
736.	1989	--	exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; NY	-- 20
737.	1989	--	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K pop.; NY, 25.66	--4,624
738.	1989	--	<b>meningococcal meningitis</b> , ICD-9 code 036.0, 88 US deaths, NY subset	-- 88
739.	1989	--	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; NY, 1.63	-- 293
740.	1989	--	Nov 16, <b>tornado</b> , East Coldenham Elementary School, Newburgh, NY <sup>617</sup>	-- 9-10
741.	1989	--	Dec 15-19, <b>cold wave</b> , NY	-- 14
742.	1990	--	<b>chickenpox</b> , 120 US deaths, death rate 0.05 per 100K; NY, 0.08	-- 14
743.	1990	--	exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; NY	-- 30
744.	1990	--	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; NY, 1.63	-- 29
745.	1990	--	Jan 25, <b>Avianca #52 runs out of fuel/crashes</b> , Cove Neck, Long Island, NY--	73
746.	1990	--	Mar 25, <b>arson fire</b> , Happy Land Social Club, Bronx, NY	-- 87
747.	1991	--	exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; NY	-- 25
748.	1991	--	<b>measles</b> , New York City, especially faith group non-immunized children	-- 15
749.	1991	--	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, NY, 1.62	-- 293
750.	1992	--	exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; NY	-- 32
751.	1992	--	<b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; NY, 1.38	-- 251
752.	1992	--	Mar 22, USAir 405 <b>crashes on takeoff</b> , ice on wings, LaGuardia, NYC	-- 27
753.	1993	--	<b>chickenpox</b> , 100 US chickenpox deaths, death rate 0.04 per 100K, NY, 0.09--	16
754.	1993	--	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; NY	-- 28
755.	1993	--	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; NY, 1.16	-- 213
756.	1993	--	Mar 12-13 Eastern Seaboard <b>"Superstorm of 1993,"</b> subset for NY	-- 23
757.	1993	--	summer esp., <b>excessive natural heat</b> (NY subset of 311 U.S. heat deaths)	-- 14

<sup>615</sup> Cross-listed in Structural Failures.<sup>616</sup> Of the 270 killed (including 11 Lockerbie residents), 189 were U.S. residents.<sup>617</sup> Seven children died immediately, two in hospitals later; one car accident "gawker" 3 days later.

**New York (continued):**

758.	1994 --	<b>chickenpox</b> (subset of 124 US chickenpox deaths)	--	10
759.	1994 --	exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; NY <sup>618</sup>	--	38
760.	1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K, NY, 0.83	--	153
761.	1995 --	exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; NY	--	29
762.	1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K; NY rate 0.63	--	117
763.	1995 --	summer <b>heat</b> , esp. NYC (NY subset of 1,563-1,601 US heat-related deaths)	--	17
764.	1996 --	exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; NY	--	35
765.	1996 --	<b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K; NY 0.52	--	97
766.	1996 --	Jan 08-09, <b>snow storm</b> (Blizzard of '96), NY	--	11
767.	1996 --	Jan 19-20, snow-melt, rain and <b>flooding</b> , esp. Delaware County, NY	--	10
768.	1996 --	July 17, <b>TWA Flight 800</b> , from JFK, fuel tank explodes, NY	--	230
769.	1997 --	exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; NY	--	26
770.	1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, NY, 0.48	--	89
771.	1998 --	exposure to excessive natural <b>cold/hypothermia</b> ; 420 US deaths; NY	--	13
772.	1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; NY, 0.68	--	128
773.	1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; NY, 0.43	--	81
774.	1998 --	Jan 07-09, <b>ice storm</b> , northern NY <sup>619</sup>	--	10
775.	1998 --	Sep 02, <b>Swissair 111 crashes</b> attempting emer. landing in Nova Scotia <sup>620</sup>	--	27
776.	1999 --	exposure to excessive natural <b>cold/hypothermia</b> ; 598 US deaths; NY	--	36
777.	1999 --	July 04-06 esp., <b>heat</b> , NYC, especially Brooklyn (18) and Manhattan (13), NY--	56	
778.	2000 --	exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; NY	--	33
779.	2000 --	<b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; NY, 0.290	--	55
780.	2001 --	exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; NY	--	26
781.	2001 --	summer esp., <b>heat</b> , esp. NYC (NY subset of 538 U.S. heat-related deaths)	--	16
782.	2001 --	Sep 11, <b>terrorism</b> , Amer. 11, United 175 hit World Trade Center, NYC	--	2,830
783.	2001 --	Nov 12, American Airlines flight 587 <b>plane crash</b> , Bell Harbor, Queens, NY--	265	
784.	2002 --	exposure to excessive natural <b>cold/hypothermia</b> ; 646 US deaths; NY	--	28
785.	2002 --	exposure to <b>excessive natural heat</b> , 626 US deaths, subset for NY	--	13
786.	2002 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; NY, 0.29--	56	
787.	2002 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.27 per 100K, NY 0.28	--	54
788.	2003 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.034; NY, 0.052--	10	
789.	2003 --	exposure to excessive natural <b>cold/hypothermia</b> ; 620 US deaths; NY	--	40
790.	2003 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; NY, 0.29	--	55
791.	2003 --	Mar 11, US Army Blackhawk <b>helicopter crash</b> , Fort Drum, NY	--	11
792.	2003 --	Oct 15, ferry <b>Andrew J. Barberi</b> hits pier, St. George terminal, Staten Isl. NY--	11	
793.	2004 --	exposure to excessive natural <b>cold/hypothermia</b> ; 676 US deaths; NY	--	39
794.	2004 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; NY, 0.24	--	46
795.	2004 --	summer, <b>excessive heat</b> , especially New York City, NY (200-2011 average)--	13	
796.	2005 --	exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; NY	--	35
797.	2005 --	summer, <b>excessive natural heat</b> , especially New York City, NY	--	~140
798.	2005 --	Oct 02, <b>Ethan Allen</b> tour boat capsizes, Lake George, near Cramer Point, NY <sup>621</sup> --	20	

<sup>618</sup> Highest number of deaths to exposure of any State in the U.S. in 1994.

<sup>619</sup> Four CO poisoning, 2 falls, woodstove fire, heart attack, hypothermia, worker thrown from truck bucket.

<sup>620</sup> All aboard NY to Geneva flight died (229), of which 117 were U.S. citizens and 27 were from New York.

**New York (continued):**

799.	2006 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 519 US deaths; NY	--	30
800.	2006 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; NY rate 0.25	--	47
801.	2006 -- July 16-18, July 17-Aug 5,	<b>heat</b> , esp. New York City, also Long Island	--	~148
802.	2007 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 711 US deaths; NY	--	53
803.	2007 -- Mar 07,	<b>fire</b> , row house, Bronx, NY	--	10
804.	2008 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 641 US deaths; NY	--	32
805.	2008 --	<b>diarrhoea &amp; gastroenteritis</b> of infectious origin, US 134 deaths	--	17
806.	2008 -- exposure to	<b>excessive natural heat</b> ; 502 US deaths, subset for NY	--	19
807.	2009 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 616 US deaths; NY	--	32
808.	2009 --	<b>diarrhoea/gastroenteritis</b> , infections origin; US death rate 0.9 per 100K; NY 1.0--	195	
809.	2009 -- Feb 12,	<b>plane crash</b> , Colgan Air/Continental Flight 3407, Clarence Center, NY--	50	
810.	2009 -- Apr 03,	<b>mass killings</b> , Immigration Services Center, Binghamton, NY <sup>622</sup>	--	13-14
811.	2009 --	<b>H1N1 Swine Flu</b> , especially fall/winter, (subset of >12,000 U.S. deaths)	--	206
812.	2010 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 710 US deaths; NY	--	28
813.	2010 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; NY 1.2--	224	
814.	2010 --	<b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.4 per 100K; NY, 2.6	--	508
815.	2010 -- July 04-07 and 24-25 esp.,	<b>excessive natural heat</b> , especially NYC ( $\geq 10$ )	--	28
816.	2011 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 0.216 death rate; NY 0.154--	30	
817.	2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; NY 1.3--	252	
818.	2011 -- exposure to	<b>excessive natural heat</b> , 1,060 US deaths, subset for NY	--	45
819.	2011 --	<b>tuberculosis</b> , ICD-10 codes A16-19; US death rate 0.2 per 100K; NY, 0.3	--	50
820.	2011 --	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; NY, 2.7	--	520
821.	2011 -- Mar 12, World Wide Travel Casino tour	<b>bus</b> crash, I-95, Bronx, NY	--	15
822.	2011 -- Aug 27-28,	<b>Hurricane Irene</b> drownings, electrocution, car crash	--	13
823.	2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; NY 1.1--	224	
824.	2012 -- excessive natural	<b>cold/hypothermia</b> ; 501 US deaths; NY 2 <sup>nd</sup> high state toll	--	31
825.	2012 -- exposure to	<b>excessive natural heat</b> ; 879 US deaths; subset for NY	--	16
826.	2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100K; NY 2.8	--	555
827.	2012 -- Oct 29-30,	<b>Hurricane Sandy</b> /154-155 US deaths; NYC and Long Isl., NY	--	65-66
828.	2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, NY 1.1--	226	
829.	2013 -- excessive natural	<b>cold/hypothermia</b> ; 725 US deaths; NY 2 <sup>nd</sup> high state toll	--	41
830.	2013 -- exposure to	<b>excessive natural heat</b> ; 651 US deaths, subset for NY	--	42
831.	2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100K; NY 2.9	--	562
832.	2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, NY 1.0	--	203
833.	2014 -- exposure to excessive natural	<b>cold/hypothermia</b> ; 930 US deaths; NY	--	43
834.	2014 -- Nov 18-21, lake-effect	<b>snowstorm</b> , Greater Buffalo area, NY	--	12-13
835.	2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; NY 0.9--	182	
836.	2015 -- exposure to excessive natural	<b>cold/hypothermia</b> , 815 US deaths; NY	--	52
837.	2015 -- exposure to	<b>excessive natural heat</b> ; 567 US deaths; subset for NY	--	10
838.	2015 -- July-mid Aug,	<b>legionella</b> pneumophila/Legionnaires', South Bronx, NYC, NY--	16	
839.	2015 --	<b>tuberculosis</b> , ICD-10 Codes A16-19; US death rate 0.1 per 100K; NY, 0.2	--	35
840.	2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.7 per 100K, NY 0.9--	186	

<sup>621</sup> Cross-listed in Michigan in that 19 of 20 fatalities were tourists from Michigan.

<sup>622</sup> Shooter shoots and kills thirteen people and then shoots himself fatally.

**New York (continued):**

841.	2016 -- exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; NY	--	27
842.	2016 -- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for NY	--	14
843.	2016 -- <b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; NY death rate 2.8	--	560
844.	2016 -- Jan 22-23, <b>snow storm Jonas</b> , New York City and Long Island, NY	--	10
845.	2017 -- exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths; NY	--	28
846.	2017 -- exposure to <b>excessive natural heat</b> ; 817 US deaths, subset for NY	--	16
847.	2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; NY rate 2.32	--	461
848.	2017 -- Dec 28, <b>fire</b> , boy, 3, playing with stove, apartment bldg., Belmont/Bronx, NY--		12
849.	2018 -- excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; NY (US high)	--	52
850.	2018 -- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for NY	--	18
851.	2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; NY death rate 2.23	--	436
852.	2018 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; NY 0.20--39		
853.	2018 -- Oct 06, Birthday party <b>limo</b> hits vehicle/bystanders, Apple Barrel, Schoharie--		20
854.	2019 -- exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths; NY	--	65
855.	2019 -- exposure to <b>excessive natural heat</b> ; 915 US deaths/death rate 0.27; NY 0.14--		28
856.	2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; NY rate 2.18-425		
857.	2019 -- <b>influenza</b> ; 5,902 US deaths, 1.08 death rate per 100K, NY 1.73	--	336
858.	2019 -- <b>tuberculosis</b> ; 526 US TB deaths/death rate 0.16 per 100K pop.); NY rate 0.19--		37
859.	2020 -- exposure to excessive <b>natural cold</b> ; 919 US deaths/death rate 0.28; NY 0.25--		48
860.	2020 -- <b>excessive heat</b> , natural sources; 1,174 US deaths, subset for NY	--	15
861.	2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; NY rate 2.16	--	418
862.	2020 -- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; NY death rate 1.85	--	358
863.	2020 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; NY 0.19--36		
864.	2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths; 1,070 per 1M; NY 1,954 per 1M pop. --38,007		
865.	2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; NY, 3.1K per M--22,004		
866.	2021 -- exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; NY set--		50
867.	2021 -- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for NY	--	16
868.	2021 -- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; NY death rate 2.00	--	397
869.	2021 -- Sep 1, <b>Hurricane Ida</b> remnants; US toll 91; NYC, esp. Queens, Westchester Co.-18		
870.	2022 -- Jan 09, space-heater related <b>fire</b> (9 adults/8 children), Apt. bldg., Bronx, NY	--	17
871.	2022 -- May 14, <b>racial hate crime shooting</b> , Top Supermarket, Buffalo, NY	--	10
872.	2022 -- Dec 22-25, winter snow-storm and cold, northwest NY, esp. Erie Co./Buffalo--		42
873.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; NY death rate 7.92	--	15,504
874.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for NY	--	17
875.	2023 -- <b>COVID-19</b> , subset of 71,691 US deaths	--	6,949
876.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths, subset for NY	--	16

**Some Select/Notable Other New York Large Loss-of-Life Events:<sup>623</sup>**

1736 --	“Throat Distemper” ( <b>diphtheria</b> ), Easthampton and Huntington, NY	--	6
1738 --	“Throat Distemper” ( <b>diphtheria</b> ), Easthampton, NY	--	5
1789-90 --	fall-spring, <b>influenza</b> epidemic; CT, ME, MA, NH, NY, Philadelphia, RI <sup>624</sup>	--	many

<sup>623</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.



**New York (continued):**

1800 -- summer-fall, <b>yellow fever</b> outbreak, New York City, NY	--	21
1821 -- <b>yellow fever</b> outbreak, New York Marine Hospital, NYC, NY	--	16
1853 -- Mar 21-26, <b>smallpox</b> , NYC, NY	--	10
1868 -- July 05, <b>lightning</b> , Orange County, NY	--	9
1873 -- <b>yellow fever</b> , New York City, NY	--	18
1877 -- July 23-24, <b>Great Railroad Strike rioting</b> , Buffalo, NY	--	1-8
1877 -- <b>smallpox</b> , New York City, NY	--	14
1879 -- <b>yellow fever</b> , New York City, NY	--	30
1879 -- <b>smallpox</b> outbreak begins; intermittent for two years in NY, NY	--	15
1880 -- Jan-Dec, <b>smallpox</b> , especially New York City and Brooklyn; also Troy NY	--	42
1883 -- Feb 04-May 25, <b>smallpox</b> , Brooklyn (3), Buffalo (2), New York City (13)	--	18
1889-90--June 1889-May 1890, <b>smallpox</b> , subset of 398 US smallpox deaths	--	13
1893 -- Aug 03, steamer <b>Rachel</b> sinks, Lake George, near Fourteen Mile Island Hotel, NY--		9
1900 -- <b>smallpox</b> (subset, 8,484 US smallpox deaths)	--	16
1909 -- Aug 30, <b>fire</b> , St. Malachy's Home for Children, Far Rockaway Beach, NY	--	7
1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; NY, 15.3	--	1,397
1910 -- <b>auto racing accident</b> , Long Island Motor Parkway, NY	--	4
1911 -- July 04, <b>swimming drownings</b> , NYC, NY	--	9
1913 -- Nov 10, Great Lakes storm, <b>Light Vessel 82</b> foundered in Lake Erie off Buffalo, NY--		6
1914 -- Feb 25~, <b>wood alcohol poisoning</b> , Italian Wedding Party, NYC, NY	--	3
1916 -- Oct 17, <b>fire</b> /poisonous fumes, Oakes Manufacturing Co., Long Island City, NY	--	9
1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; NY, 14.4	--	1,694
1919 -- Dec 25-30, <b>wood alcohol poisoning</b> , Brooklyn, Buffalo, especially NYC	--	9
1922 -- Sep 23, <b>US bomber plane crash</b> , "Flying Circus", Mitchel Field, Mineola, NY	--	6
1925 -- <b>anthrax</b> (NY subset of 22 US anthrax deaths)	--	2
1925 -- <b>dysentery</b> (NY subset, 3,257 US dysentery deaths)	--	64
1925 -- <b>scurvy</b> (vitamin C deficiency), NY subset, 2 <sup>nd</sup> highest, 58 scurvy deaths, 24 States--		6
1927 -- <b>polio</b> (acute) esp. late summer and fall; subset, 2,013 US polio deaths, NY	--	29
1929 -- Dec 11, prison riot, eight convicts and head keeper killed, Auburn Prison, NY <sup>625</sup>	--	9
1931 -- <b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; NY, 3.0	--	381
1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (NY subset of 1,997 U.S. diphtheria deaths)	--	36
1939 -- <b>malaria</b> (NY subset of 1,761 malaria deaths nationwide)	--	20
1940 -- <b>malaria</b> (NY subset of 1,442 U.S. malaria deaths)	--	26
1940 -- <b>polio</b> (NY subset of 1,026 polio deaths nationwide)	--	15
1941 -- <b>measles</b> , especially children; 2,279 US measles deaths; subset for NY	--	47
1944 -- <b>measles</b> , especially Jan-June (NY subset of 1,923 measles deaths nationwide)	--	38
1945 -- Jan 24, <b>USN Consolidated PBY-5A Catalina</b> water looped on landing, Jamaica Bay, L.I.--		5
1945 -- Nov 11, <b>USN JRB-4 crash</b> , wooded area west side of Mt. Beacon near Fishkill, NY--		6

<sup>624</sup> Sources consulted do not provide an estimate. Kohn ("New England Influenza Epidemic of 1789," *Encyclopedia of Plague and Pestilence*), writes it was widespread in states we note, affected thousands/Fall of 1789, lasted about 4-6 weeks in each place in the first (1789) wave, was "particularly harsh on the elderly and chronically ill," and that there were especially "many" deaths from the derivative pneumonia. Notes the "case-mortality is believed to have been less than 50 percent during the epidemic." If there were thousands of cases, there would be many deaths.

<sup>625</sup> Three other convicts were later executed at Sing Sing Prison, NY for their role in the violence.

**New York (continued):**

1946 -- Feb 10, nursing home <b>fire</b> , Tallman NY	--	6
1948 -- <b>polio</b> , July-Nov especially; 1,895 US polio deaths; subset for NY	--	53
1951 -- <b>whooping cough</b> ; 960 US deaths; subset for NY	--	10
1952 -- <b>dysentery</b> , infections (all forms); 949 US deaths; subset for NY	--	11
1952 -- <b>influenza</b> ; 5,649 US deaths; subset for NY	--	163
1953 -- <b>influenza</b> ; 9,500 US deaths; NY subset	--	242
1953 -- <b>whooping cough</b> ; 271 US deaths, 11 States double digits; NY subset	--	11
1954 -- <b>excessive heat</b> (especially July), state subset of 978-984 heat-related deaths	--	8
1954 -- <b>dysentery</b> , infectious, all forms (codes 045-048), 655 US deaths; NY subset	--	12
1954 -- <b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; NY subset	--	83
1954 -- Sep 11, <b>Hurricane Edna</b> , heavy rain and flooding, traffic accidents	--	6
1955 -- <b>influenza</b> ; 2,755 US deaths; NY subset	--	92
1956 -- <b>influenza</b> , 2,323 US deaths; NY subset	--	63
1956 -- Dec 14-15, <b>snow</b> and sleet storm, Northeast, especially NY vehicular accidents	--	9
1958 -- <b>influenza</b> ; 4,442 US deaths; NY subset	--	131
1959 -- Dec 25, <b>car</b> collides with concrete abutment, Hwy 9-W near Haverstraw, NY	--	8
1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; NY death rate 1.1	--	177
1961 -- <b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; NY death rate 0.5	--	91
1961 -- <b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; NY death rate 0.2	--	31
1962 -- <b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; NY death rate 0.7	--	128
1962 -- <b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population; NY rate 0.2	--	35
1962 -- Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	--	7-9
1963 -- <b>influenza</b> , 7,083 US deaths/death rate 3.8; NY death rate 1.3	--	230
1963 -- <b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; NY death rate 0.1	--	14
1964 -- <b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; NY death rate 0.3	--	47
1964 -- <b>scarlet fever and streptococcal sore throat</b> ; 95 US deaths; NY	--	5
1965 -- <b>influenza</b> ; 2,295 US deaths/death rate 1.2 per 100K; NY death rate 0.4	--	76
1966 -- <b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for NY	--	72
1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; NY 2.9	--	534
1968 -- <b>polio</b> ; ICD-8 codes 040-044; 130 US polio deaths; NY	--	8
1969 -- <b>chickenpox</b> ; ICD-8 code 052; 81 US deaths; NY	--	5
1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; NY 1.47	--	267
1970 -- <b>chickenpox</b> ; ICD-8 code 052; 93 US deaths, NY	--	6
1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; NY rate 0.73	--	133
1970 -- July 15, Hillel Day School, L.I., NY, <b>charter bus</b> wreck, ~New Smithville, PA	--	7
1971 -- <b>chickenpox</b> ; ICD-8 code 052; 98 US deaths; NY	--	6
1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; NY 0.3	--	56
1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; NY rate 1.16	--	212
1972 -- Mar 24, high school <b>bus</b> fails to stop at crossing, hit by train, Congers, NY	--	5
1973 -- <b>chickenpox</b> ; 138 US deaths; NY	--	8
1973 -- <b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; NY rate 0.85	--	154
1973 -- <b>polio</b> ; ICD-8 codes 040-044; 93 US polio deaths; NY	--	7
1974 -- <b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; NY/0.687	--	124
1974 -- <b>polio</b> ; acute poliomyelitis/ICD-8 codes 040-044; 89 US deaths; NY	--	9

**New York (continued):**

1975 --	<b>chickenpox</b> ; 83 US deaths/death rate 0.039 per 100K; NY, 0.044; most State deaths--	8
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; NY, 0.76	-- 136
1975 --	<b>poliomyelitis</b> , acute; 78 US polio deaths/death rate 0.036 per 100K, NY 0.033	-- 6
1975 --	Jan 24, <b>terrorism</b> , Fraunces Tavern F.A.L.N. bomb, NYC, NY	-- 4
1976 --	<b>chickenpox</b> ; 106 US chickenpox deaths/death rate 0.05 per 100K; NY rate 0.05	-- 9
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; NY 3.1--	560
1977 --	<b>chickenpox</b> , 89 US chickenpox deaths/death rate 0.04 per 100K, NY, 0.04	-- 8
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; NY, 0.24	-- 43
1977 --	<b>polio</b> (acute poliomyelitis); 100 polio deaths/death rate 0.05 per 100K; NY, 0.04	-- 7
1977 --	Aug 03, terrorism, F.A.L.N. <b>bombings</b> , two buildings, Manhattan, NY	-- 1
1977 --	Dec 05-08, <b>snowstorms and cold wave</b> (≥114 US deaths) NY	-- 7
1978 --	Feb 05-07, <b>snowstorm/blizzard</b> , NY	-- 5
1978 --	<b>heat</b> (esp. summer), ICD-8 E900 excessive natural heat, US death rate 0.12, NY, 0.06--	11
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; NY, 1.05	-- 187
1978 --	<b>polio</b> (Acute poliomyelitis, ICD-8 codes 040-045), death rate 0.04 per 100K, NY, 0.03	-- 6
1979 --	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; NY death rate 0.11	-- 19
1980 --	<b>chickenpox</b> , 78 US chickenpox deaths/death rate 0.03 per 100K; NY, 0.05	-- 9
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, NY, 0.85	-- 149
1981 --	<b>chickenpox</b> , NY subset, 84 US deaths/death rate 0.04 per 100K; NY, 0.04	-- 7
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, NY rate 0.73	-- 129
1981 --	Feb 11, <b>Texasgulf Aviation</b> JetStar elec. sys. failure on approach, Westchester Co. AP, NY--	8
1982 --	<b>chickenpox</b> ; 61 US deaths/death rate 0.03 per 100K, NY, 0.03	-- 6
1982 --	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, NY death rate 0.16	-- 29
1982 --	Apr 06-07, <b>heavy snow, high wind, deep cold</b> , NY	-- 4-6
1982 --	summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 196	-- 7
1983 --	<b>chickenpox</b> , 57 US chickenpox deaths, death rate 0.02 per 100K, NY, 0.05	-- 8
1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, NY, 0.31	-- 54
1983 --	summer <b>heat</b> , esp. July-Aug, 9 counties (subset of 597 U.S. heat deaths), NY	-- 9
1984 --	<b>chickenpox</b> , 53 US chickenpox deaths, death rate 0.02 per 100K, NY, 0.03	-- 5
1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, NY, 0.30	-- 53
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, NY, 0.31	-- 55
1985 --	Sep 27-28, <b>Hurricane Gloria</b> , especially Long Island, NY	-- 5-6
1986 --	<b>chickenpox</b> ; 47 US deaths, death rate 0.02 per 100K; NY death rate 0.05	-- 9
1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: NY death rate 0.54	-- 97
1987 --	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; NY death rate 0.10	-- 18
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; NY, 0.41	-- 73
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; NY death rate 0.27	-- 48
1989 --	Dec 15, <b>Aero-Venture Inc. Piper Chieftain crash</b> , heavy snow NE of Stoppel Pt. Mt., NY--	6
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; NY death rate 0.34	-- 62
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; NY, 0.22	-- 40
1991 --	Dec 28, <b>trampling/crushing</b> , Nat Holman Gym basketball game, City College, NY--	9
1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, NY death rate 0.21	-- 39
1992 --	Dec 11-12, East Coast <b>nor'easter</b> and <b>flooding</b> (particularly NY)	-- 9
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; NY, 0.24	-- 45

**New York (continued):**

1993 --	<b>meningococcal meningitis</b> ; US deaths 260, death rate 0.10 per 100K; NY, 0.09	--	16
1993 --	Feb 26, World Trade Center <b>terrorism bombing</b> , NY	--	6
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; NY, 0.17	--	31
1994 --	<b>meningococcal meningitis</b> , ICD-9 code 36.0; death rate 0.10 per 100K; NY, 0.08	--	14
1994 --	July 08, <b>lightning</b> , Parma, Monroe County, NY	--	2
1995 --	<b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, NY, 0.113	--	21
1995 --	July 15, <b>thunderstorms (derecho)</b> , Eastern NY	--	5
1996 --	<b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; NY, 0.194	--	36
1997 --	<b>influenza</b> , code 487.0; US death rate 0.264 per 100K (720 US deaths); NY, 0.214	--	40
1997 --	Feb 23, Middle East <b>terrorism, shooting</b> , Empire State Building, NYC, NY	--	1
1998 --	<b>infectious colitis, enteritis, gastroenteritis</b> , ICD-9 code 009.0, NY death rate 0.085 per 100K-16		
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; NY, 0.556	--	105
1999 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; NY, 0.323	--	61
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; NY, 0.443	--	84
2001 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.268 per 100K; NY, 0.246	--	47
2003 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; NY, 0.261	--	50
2004 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; NY rate 0.193	--	37
2005 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; NY rate 0.596	--	114
2005 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; NY rate 0.16	--	31
2006 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; NY rate 0.215	--	41
2007 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.14 per 100K; NY rate 0.08	--	16
2007 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.184 per 100K; NY, 0.172	--	33
2008 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; NY rate 0.39	--	75
2008 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; NY rate 0.16	--	31
2009 --	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); NY rate 0.4	--	86
2009 --	<b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.2 per 100K; NY rate 0.2	--	35
2010 --	<b>influenza</b> , ICD-10 codes J09-J11.8; <sup>626</sup> US death rate 0.2 per 100K; NY rate 0.1	--	24
2010 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; NY rate 0.2	--	40
2011 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; NY rate 0.4	--	69
2012 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; NY rate 0.3	--	59
2012 --	<b>tuberculosis</b> , ICD-10 code A16-A19; US death rate 0.2 per 100,000; NY rate 0.1	--	29
2013 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; NY rate 0.9	--	184
2013 --	<b>tuberculosis</b> , ICD-10 Code A16-A19, US death rate 0.2 per 100,000; NY, 0.1	--	29
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; NY rate 2.5	--	501
2014 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.4 per 100,000; NY rate 1.0	--	195
2014 --	<b>tuberculosis</b> , ICD-10 Code A16-A19; US death rate 0.2 per 100k; NY rate 0.1	--	43
2015 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100,000 as was NY	--	315
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; NY rate 2.3	--	447
2015 --	Feb 03, Metro-North Railroad <b>train</b> (5 deaths) hits <b>SUV</b> at crossing, Valhalla, NY--		6
2016 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate was 0.9 per 100K; NY rate 0.8	--	167
2016 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.2 per 100K; NY rate 0.2	--	32
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; NY rate 1.8	--	359
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; NY death rate 1.29	--	257

<sup>626</sup> 500 US Flu deaths. ICD-10 code for 2010 influenza/pneumonia (J09-J18) has 50,097 deaths (death rate of 16.2).



2017 -- **tuberculosis**, IDC-10 code A16-19; 515 US deaths/death rate 0.16; NY rate 0.16 -- 31  
 2017 -- Oct 31, Islamic **terrorist** drives down bikers/pedestrians, Manhattan NYC, NY -- 8  
 2017 -- Dec 31, **plane crash**, NW Costa Rica, 2 CR pilots, 10 US citizens, 5 from Scarsdale-- 5  
 2018 -- **influenza**, ICD codes J09-11.8/death rate 3.41 per 100K pop., NY death rate 2.68-- 523  
 2019 -- Jan 28-Feb 02, **polar cold/snow/ice**, esp. upper Mid-West (30-31 US deaths) -- 5  
 2021 -- **tuberculosis**, ICD-10 codes A16-A19; 602 US deaths/death rate 0.18; NY 0.18 -- 36

#### Breakout by Type of **New York** Large Loss-of-Life Events (10 or more fatalities):

385 -- **Disease**, especially communicable, especially epidemics. (Plus 133 in “Other.”)  
 102 -- **Maritime and Inland Waterways**. (Plus 1 <10 deaths: 6 in Nov 1913 storm.)  
 94 -- **Winter Weather/Cold/Hypothermia**. (Plus 7 events 5-9 deaths each.)  
 81 -- **Fire, structural** (Plus we note 3 others -- one with 6 one with 7 and one with 9 fatalities.)  
 64 -- **Heat**. (Plus 4 years 7-11 deaths: 8 in 1954, 11 in 1978, 7 in 1982 and 9 in 1983.)  
 38 -- **Rail**. (Includes Oct 13, 1893 collision of a NY excursion train {NY citizens} in MI.)  
 35 -- **Aviation** (Plus 6 noted at 5-8 deaths each. Includes NY residents, Pan Am 103, Lockerbie.)<sup>627</sup>  
 34 -- **Violence** (Includes NY deaths, Pan Am 103, Lockerbie, Scotland, 1988; plus 2 ≤10.)  
 21 -- **Explosions**. One (1950) was South Amboy NJ explosion killing 14 men from NYC area.  
 15 -- **Structural Failure**  
 10 -- **Vehicular/Road/Highway**<sup>628</sup> Plus 5 – one with 8, one with 7, two with 6 and one with 5.  
 9 -- **Hurricanes**. (Plus 7 deaths in 1954 hurricane Edna and 5-6 in hurricane Gloria.)  
 6 -- **Flooding**.  
 6 -- **Wood Alcohol Poisonings** (plus two -- 3 deaths in 1914 and 9 in 1919.)  
 3 -- **Landslides/Mudslides/Debris Flows**  
 2 -- **Carbon Monoxide Poisoning**  
 2 -- **Drownings (non-maritime)**. Plus one with nine deaths.  
 2 -- **Environmental (Smog)**  
 1 -- **Mining**. (Cross-listed in Landslides.)  
 1 -- **Severe Summer Thunder/Wind Storm**. (Plus one storm in 1995 with 5 deaths.)  
 1 -- **Tornado**.  
 1 -- **Tainted/Contaminated Food Poisoning (raw oysters)**.  
 0 -- **Auto Racing (but one in “Other” with four deaths)**.  
 0 -- **Lightning** (but two in “Other” – one with two and one with nine deaths)

<sup>627</sup> Also includes 9-2-1998 Swiss Air flight crash off Nova Scotia, Canada killing twenty-seven New Yorkers; and 8-9-1970 LANSA 502 crash in Peru killing 20 NY State high school exchange students.

<sup>628</sup> This includes a train hitting a sleigh at a road crossing and a race car hitting spectators.

## NC

## North Carolina

1. 1585, June-June 1586 -- **disease**, Natives visited by English from Roanoke Colony, NC<sub>≥</sub>360
2. 1711 -- Sep 22, Tuscarora **massacre** of White settlers, Bath County, NC -->130-140
3. 1712 -- Jan 28, NC/SC Militia, Indian allies **retaliate** against Tuscarora, Craven Co. NC-- 300
4. 1738-39 -- **smallpox** epidemic, Catawba (700) and Cherokee Indian Nations<sup>629</sup>-7,700-11,700
5. 1752 -- Sep 15, **hurricane**, maritime and on-land, especially Johnston, NC<sup>630</sup> -- ≥10
6. 1771 -- May 16, "Regulators" uprising, **Battle of Alamance**, near Burlington, NC --26~100
7. 1772 -- Sep 01, **tropical storm** grounds **14 vessels**, Ocracoke Bar, NC -- 50
8. 1796 -- Aug-Nov, **yellow fever**, Wilmington, NC -- 150
9. 1800 -- Summer to Fall, **yellow fever** outbreak, Wilmington, NC -- 86
10. 1806 -- Aug 21-23, **coastal Hurricane**, Wilmington, Cape Fear, and other **maritime**<sup>631</sup>-- ≥10
11. 1821 -- Mid-July-Sep, **yellow fever** epidemic, Wilmington, NC -- ≥10
12. 1831 -- Aug 23-31~, Whites **kill** Blacks after Nat Turner Slave revolt in bordering VA-- ~10
13. 1832 -- Aug 09-Oct 31, **cholera** outbreak, esp. Edenton and Elizabeth City, NC -- 41
14. 1834 -- Oct, **cholera**, Washington, NC -- 10
15. 1837 -- Oct 9, **Racer's hurricane**, sidewheeler **Home** grounds, Ocracoke Island, NC--90-100
16. 1838 -- June 14, sidewheel **Pulaski** boiler explodes/sinks SE of New River Inlet, NC--95-141
17. 1840 -- Mar 25, brig **Escambia** founders betw. Frying Pan Shoals/Cape Lookout, NC --12-15
18. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 10,165 NC deaths -- 324
19. 1850 -- **measles**; subset 2,988 US measles deaths (average was 83 per State/Ter.), NC -- 112
20. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 227
21. 1854 -- Mar 08, schooner **Robert Walsh** lost off Cape Hatteras, NC -- 10
22. 1858 -- Feb 17, steamer **Magnolia** boiler explosion, Cape Fear River, White Hall, NC --11-20
23. 1860 -- **croup** (contagious upper airway viral infection), subset, 15,188 croup deaths<sup>632</sup>-- 427
24. 1860 -- **measles** (NC subset of 3,900 US measles deaths, 38 registration states) -- 126
25. 1860 -- **scarlet fever** (NC subset of 26,402 deaths in 38 Census States & DC) -- 363
26. 1860 -- **typhoid fever** (subset of 19,236 deaths in 38 "registration" States and DC --1,009
27. 1860 -- **whooping cough** (NC subset of 8,408 whooping cough deaths nationwide)<sup>633</sup> -- 400
28. 1862 -- fall, **yellow fever**, Wilmington, NC --653-1,200
29. 1862 -- Dec 31, Iron Clad USS **Monitor** sinks in storm off Cape Hatteras, NC --16-20
30. 1863 -- ~Jan 18, **Shelton Laurel Massacre**, Rebels murder Unionists, Madison Co., NC-- 13
31. 1863 -- Aug 21, USS **Bainbridge** capsizes, **Hurricane**, off Cape Hatteras, NC --80-90
32. 1863 -- Dec 13, steamer **Quincy** founders, Cape Hatteras, NC -- 16
33. 1864 -- Apr 20-22, **Rebels kill black soldiers**, runaway slaves, others, Plymouth, NC-300-400

<sup>629</sup> From descriptions of this outbreak it is clear that the Native American fatalities were in North and South Carolina, but a breakout between the two States is not known. Both the Catawbans and the Cherokees resided in and moved back and forth between the two colonies.

<sup>630</sup> We are making an assumption of at least ten lives lost based on Rappaport and Partagas (National Weather Service notation of 103 deaths in North and South Carolina, and in reporting that the then capital of Onslow County, NC (Johnston) was virtually destroyed when "Virtually every building in town was reportedly wrecked...")

<sup>631</sup> NWS notes 42 deaths for this hurricane, 21 from the capsizing of the *Rose In Bloom* 20 miles off Barnegat Inlet, NJ. We have seen references to six specific NC deaths (five onshore and one body washed up on Core Banks [of Outer Banks]). Reported at the time that "many vessels were discovered wrecked upon the sandy shores of North Carolina" after storm moved north. We make assumption that at least four lives were lost this way. Thus our ≥10.

<sup>632</sup> From US Census -- NC was one of 38 "registration" (reporting) states.

<sup>633</sup> In terms of large loss of life by State, NC was 5<sup>th</sup> behind VA at 921, NY at 708, PA with 477, and OH with 408.

### North Carolina (continued):

34. 1864 -- May 26, torpedo mine **explosion**, Bachelor's Creek Station ~New Bern, NC --40-93
35. 1864 -- Sep-Oct,<sup>634</sup> **yellow fever** epidemic, New Bern, also Beaufort, NC --1,359
36. 1865 -- Jan 8, storm, SC steamer **Melville**, NY to Port Royale SC, sinks off Hatteras NC- ~76
37. 1865 -- Mar 31, US Govt. Transport **General Lyon** burns off Cape Hatteras, NC ---521-571
38. 1865 -- Oct 24~, steamer **D. H. Mount** lost, gale, Atlantic, south of Cape Hatteras, NC-- 24
39. 1865 -- Dec 27, steamer **Constitution** grounds/breaks-up, Cape Lookout shoals, NC -- 40
40. 1867 -- Feb 10, steamer **City of Bath** fire off Cape Hatteras, NC -- 22
41. 1867 -- Mar 03, propeller steamer **Andalusia** fire and drownings, off Hatteras, NC -- 12
42. 1868 -- June 15~, Brit. bark **Istria** wrecks, Diamond Shoals off Cape Hatteras, NC -- 23
43. 1869 -- Jan 11, steamer **Gulf City** grounds and breaks-up, Cape Lookout, NC --22-23
44. 1870 -- **croup**; upper airway contagious viral infect.; subset, 10,692 US croup deaths -- 285
45. 1870 -- **diarrhoea** (418), **dysentery** (135), **enteritis** (175); data from U.S. Census -- 728
46. 1870 -- **diphtheria**, especially children (NC subset of 6,303 U.S. diphtheria deaths) -- 145
47. 1870 -- **typhoid fever** (NC subset of 22,187 typhoid fever deaths nationwide) -- 862
48. 1870 -- **whooping cough** (NC subset of 9,008 whooping cough deaths nationwide) -- 296
49. 1872 -- Nov-Dec, **smallpox**, Summerville, Harnett County, NC --10-11
50. 1876 -- Mar 01, **Nuova Ottavia** grounds, **Life-Saving crew lost**, Kittyhawk, NC -- 18
51. 1876 -- Sep 17, steamer **Rebecca Clyde** strands/wrecks, 20m south of Hatteras, NC --12-13
52. 1877 -- Nov 24, Navy war sloop **USS Huron** wrecks in storm, at Nags Head, NC --83-103
53. 1878 -- Jan 31, steamer **Metropolis** wrecks in gale, south of Jones Hill Station, NC --85-104
54. 1878 -- Dec 10, steamer **Emily B. Souder** founders in storm, off Cape Hatteras, NC --36-38
55. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 US croup deaths) -- 611
56. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) -- 994
57. 1879 -- June-May 1880, **malarial fever**, (NC subset, 20,231 such deaths U.S.) -- 962
58. 1879 -- June-May 1880, **measles**, esp. children (NC subset, 8,254 US measles deaths)-- 350
59. 1879 -- June-May 1880, **tuberculosis** (NC subset of 91,270 TB deaths nationwide) --2,146
60. 1879 -- June-May 1880, **typhoid fever** (NC subset of 23,339 U.S. Typhoid deaths) -- 963
61. 1879 -- June-May 1880, **whooping cough** (NC subset, 11,064 U.S. W.C. deaths)<sup>635</sup> -- 612
62. 1879 -- Aug~, whaling schooner **Arizona**, reportedly lost off Cape Hatteras, NC -- 15
63. 1879 -- Aug 18, **Great Beaufort** [NC] **Hurricane** (subset of Atlantic coast storm) -- >40
64. 1882 -- Jan 22, shipwreck, bark **F.L. Carney**, South Hatteras Inlet, NC -- 8-10
65. 1883 -- Jan 02, Cowe Tunnel **convict boat** capsizes, Tuckasegee River, Western NC -- 19
66. 1883 -- Sep 11, **Hurricane Three** of 1883, SC, NC (53) VA (12<sup>th</sup>), especially NC -- 53
67. 1884 -- Feb 19, **tornadoes**, multiple counties (~15), NC --31-100
68. 1884 -- Mar 25, **tornadoes**, Caldwell, Catawba, Iredell, Stanley/Montgomery counties-- 6-11
69. 1887 -- Nov 03, schooner **Ocean Bird** capsizes in storm, Pasquotank River, NC -- 9-20
70. 1889 -- Feb 22, storm, Nova S. bark **Josie Troop** hits rocks off Chicamacomico, NC -- 11
71. 1889 -- Apr 06-7, **nor'easter**, **maritime losses**, esp. Albemarle Sound, Cape Hatteras -- ~17
72. 1889-90, June-May, **croup**, subset of 13,862 U.S. croup deaths -- 348
73. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 158
74. 1889-90, June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths -- 920
75. 1891 -- Mar 24, steamer **Strathairly** wrecks, Chicamacomico, NC -- 19

<sup>634</sup> There were a few deaths in early November, but the epidemic period was Sep-Oct before November frosts.

<sup>635</sup> In terms of loss of life to whooping cough by State, NC was 3<sup>rd</sup> largest, following IN with 687 and GA at 650.

**North Carolina (continued):**

76.	1891 -- Aug 27, <b>train derails</b> off Boston's Bridge, near Statesville, NC	-- 20
77.	1895 -- Dec 19, <b>mine</b> explosion, Cumnock Coal Mine, Cumnock, NC	-- 39
78.	1898 -- Nov 10, <b>racial</b> and <b>political violence</b> (local coup d'état), Wilmington, NC	--22-26
79.	1899 -- Aug 17-18, <b>hurricane</b> , especially <b>coastal maritime losses</b> , NC	-- 74
80.	1899 -- Nov 15-Dec, <b>typhoid fever</b> , State Normal & Industrial College, Greensboro NC	-- 15
81.	1899 -- Dec 24, British freighter <b>Ariosto</b> strands, lifeboat drownings, Ocracoke, NC	-- 21
82.	1900 -- <b>croup</b> (upper airway contagious viral infection; NC subset, 12,484 US croup deaths)	-- 503
83.	1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 514
84.	1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths; 4 <sup>th</sup> largest loss to flu in a state)	-- 799
85.	1900 -- <b>malarial fever</b> (subset of 14,874 US malarial fever deaths)	-- 527
86.	1900 -- <b>tuberculosis</b> , leading cause of NC deaths; 109,750 US TB deaths	--2,350
87.	1900 -- <b>typhoid fever</b> (NC subset of 35,379 typhoid fever deaths nationwide)	--1,250
88.	1900 -- <b>whooping cough</b> (NC subset of 9,958 US whooping cough deaths)	-- 270
89.	1900 -- May 23, Cumnock coal <b>mine</b> gas explosion, Cumnock, Chatham County, NC	-- 23
90.	1900 -- <b>heat</b> (excessive natural heat exposure, coded "sunstroke" in some Census docs.)	-- 11
91.	1902 -- Dec 05, schooner <b>Wesley M. Oler</b> founders off Hatteras Inlet, NC	-- 10
92.	1903 -- Feb 17, steamer <b>Olive</b> sinks, <b>tornado</b> , Chowan River, Woodley's Pier, NC <sup>636</sup>	--14-18
93.	1904 -- Nov 13, <b>hurricane</b> , FL to Northeast and Great Lakes, especially coastal NC	-- ~10
94.	1905 -- <b>tuberculosis</b> , Raleigh subset, 56,770 Census area deaths (10 states/135 cities) <sup>637</sup>	-- 46
95.	1906 -- Jan 13, schooner <b>Robert H. Stevenson</b> grounds, Diamond Shoals, NC	-- 12
96.	1906 -- July 22, passenger and freight <b>trains collide</b> near Hamlet, NC	--20-22
97.	1907 -- May 11, <b>tunnel</b> dynamite explosion, South & Western RR, Alta Pass, NC	-- 9-14
98.	1908 -- Jan 23~, steamer <b>Bluefields</b> founders in storm off Cape Hatteras, NC	-- 18
99.	1909 -- Dec 13, Providence RI sch. <b>Governor Ames</b> wrecks, gale off Cape Hatteras NC	--11-13
100.	1909 -- Dec 15, <b>train derailment</b> , Reedy Fork trestle, near Greensboro, NC	--12-16
101.	1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; NC, 57.7	-- 209
102.	1913 -- <b>measles</b> , 8,108 US "registration area" (65.1%) deaths; 2 <sup>nd</sup> high US death rate	-- 107
103.	1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; NC rate 10.8	-- 51
104.	1914 -- <b>polio</b> , esp. late summer-fall; esp. children (subset of 720 US polio deaths), NC	-- 51
105.	1915 -- Jan 24/25, schooner yacht <b>Idler</b> grounds, Diamond Shoals ~Cape Hatteras, NC	--12-15
106.	1915 -- Apr 03, steamer <b>Prinz Maurits</b> wrecks off Cape Hatteras, NC	-- 49
107.	1915 -- Apr 5, gale, schooner <b>John B. Manning</b> found bottom-up 20m N, Hatteras NC	--10
108.	1916 -- July 15-16, <b>tropical storm</b> , esp. Asheville/Biltmore, Alexander Co./Marshall	-- 28
109.	1917 -- <b>polio</b> , esp. June-Sep, especially children; NC subset, ≥1,182 U.S. polio deaths	-- 34
110.	1918-1919, <b>influenza and pneumonia</b> epidemic, NC	--18,555-19,555
	1918 -- Jan-Dec, <b>influenza and pneumonia</b> epidemic, NC	--12,600-13,600
	1919 -- Jan-Dec, <b>influenza and pneumonia</b> epidemic, NC	--5,955
111.	1919 -- Dec 17, schooner <b>Sunbeam</b> wrecks off Currituck, NC	-- 18
112.	1920 -- Jan-Dec, <b>influenza and pneumonia</b> , NC	--5,621
113.	1920 -- <b>malaria</b> (NC subset, 5 <sup>th</sup> highest, 3,136 malaria deaths, 34 registration states)	-- 210
114.	1920 -- <b>smallpox</b> (NC subset, 4 <sup>th</sup> highest, 508 smallpox deaths, 34 registration states)	-- 28
115.	1920 -- <b>typhoid fever</b> (NC subset, 6,805 typhoid fever deaths, 34 registration states)	-- 311

<sup>636</sup> Cross-listed in Tornadoes.

<sup>637</sup> Raleigh had TB death rate of 325.6 per 100,000 population. Census area average was 168.2.



### North Carolina (continued):

116.	1920 --	<b>whooping cough</b> ; NC subset, 10,968 whooping cough deaths/34 reg. states--	357
117.	1921 --	Jan 31, schooner <b>Carroll A. Deering</b> wrecks, Diamond Shoals, NC	-- 11
118.	1924 --	Mar 11, Ward Line steamer <b>Santiago</b> wrecks off Hatteras, NC	--25-35
119.	1925 --	<b>diphtheria</b> (NC subset, 8 <sup>th</sup> highest, 8,058 US diphtheria deaths)	-- 303
120.	1925 --	<b>dysentery</b> (NC subset, 7 <sup>th</sup> highest of 3,257 US dysentery deaths)	-- 187
121.	1925 --	<b>excessive heat</b> (NC subset, 1,587 US excessive heat deaths; US Census Bur.)--	13
122.	1925 --	<b>influenza</b> (NC subset, 9 <sup>th</sup> highest, 30,538 US influenza deaths)	--1,089
123.	1925 --	<b>malaria</b> (NC subset of 2,132 malaria deaths in 1925)	-- 141
124.	1925 --	<b>tuberculosis</b> (NC subset, 89,268 US tuberculosis deaths)	--2,794
125.	1925 --	<b>typhoid/paratyphoid fever</b> (NC subset, 8,287 US Typhoid Fever deaths)	-- 279
126.	1925 --	<b>whooping cough</b> (NC subset, 6,948 US whooping cough deaths)	-- 153
127.	1925 --	May 27, Carolina Coal <b>Mine</b> explosion, Farmville (now Coal Glen), NC	-- 53
128.	1931 --	<b>diphtheria</b> , especially children (NC subset, 5,738 U.S. diphtheria deaths)	-- 244
129.	1931 --	<b>influenza</b> (NC subset of 31,701 influenza deaths nationwide)	--1,150
130.	1931 --	<b>measles</b> , especially children (NC subset, 3,576 measles deaths nationwide)	-- 113
131.	1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--2,349
132.	1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; NC, 6.2	-- 199
133.	1931 --	Mar 17, <b>fire</b> , stockade, County Jail, Kenansville, Duplin County, NC	-- 11
134.	1931 --	summer, <b>excessive natural heat</b> , subset, 2,768 U.S. deaths, NC	-- 17
135.	1933 --	Sep 15-16 <b>hurricane</b> , coastal NC (21) (additionally VA/2-4 & PA/1) <sup>638</sup>	-- 21
136.	1934 --	summer, <b>excessive natural heat</b> ; subset of 3,250 US heat deaths; NC	-- 10
137.	1936 --	Apr 02, <b>tornado</b> , F4, Guilford County, NC	-- 14
138.	1936 --	July-Aug (especially), <b>heat</b> (4,678-5,418 US heat deaths), NC subset	-- 14
139.	1939 --	<b>diphtheria</b> (NC subset, 2 <sup>nd</sup> highest, 1,997 US diphtheria deaths)	-- 164
140.	1939 --	<b>influenza and pneumonia</b> ; 99,097 US influenza/pneumonia deaths NC	--2,811
141.	1939 --	<b>malaria</b> (NC subset of 1,761 malaria deaths nationwide)	-- 53
142.	1939 --	<b>tuberculosis</b> (NC subset of 61,609 tuberculosis deaths nationwide)	--1,453
143.	1939 --	<b>whooping cough</b> (subset, 2 <sup>nd</sup> highest, 3,026 US whooping cough deaths)	-- 229
144.	1940 --	<b>influenza and pneumonia</b> (NC subset of 92,525 US flu/pneumonia deaths)	--2,684
145.	1940 --	<b>malaria</b> (NC subset of 1,442 U.S. malaria deaths)	-- 60
146.	1940 --	<b>tuberculosis</b> (subset of 55,576 US tuberculosis deaths); NC	--1,452
147.	1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, NC, 2.5	-- 90
148.	1940 --	Aug 13-14, remnant rain/ <b>flash floods/slides/debris flows</b> , mts of NC/34 TN/4 VA/5--	34
149.	1941 --	<b>measles</b> , especially children; NC subset of 2,279 U.S. measles deaths	-- 103
150.	1942 --	Jan 18, tanker <b>Allan Jackson</b> sunk by U-boat ~60m east-ne, Diamond Shoals, NC--	22
151.	1942 --	Jan 19, US freighter <b>City of Atlanta</b> sunk, U-boat ~10m off NC, SE of Manteo <sup>639</sup> -	43
152.	1942 --	Jan 19, US freighter <b>Norvana</b> sunk by U-boat ~50m north of Cape Hatteras NC--	29
153.	1942 --	Jan 24, US collier <b>Venore</b> sunk by U-boat ~20m southeast of Cape Hatteras, NC--	17
154.	1942 --	Jan 26, U.S. freighter <b>West Ivis</b> sunk by U-boat, off Cape Hatteras, NC	-- 45
155.	1942 --	Feb 6, US freighter <b>Major Wheeler</b> sunk by U-boat, ~130m off Cape Hatteras NC-	35
156.	1942 --	Feb 24, US freighter <b>Norlavore</b> founders in storm off Cape Hatteras, NC	--all 28

<sup>638</sup> There were 21 NC deaths, 2 in VA. There was one PA death, if one includes the drowning of a miner, caught in a flooded mine due to hurricane (tropical storm)-generated heavy rain.

<sup>639</sup> Cross-listed in Georgia. The City of Atlanta was owned by a Savannah, GA company and homeported there.

**North Carolina (continued):**

157. 1942 -- Mar 11, freighter **Caribsea** (NYC homeport) sunk by U-boat off Cape Lookout NC--21  
 158. 1942 -- Mar 12, U.S. tanker **John D. Gill** torpedoed by U-boat, off Cape Fear, NC --19-23  
 159. 1942 -- Mar 17, US tanker **Acme** torpedoed by U-boat ~1m west Diamond Shoals Light, NC- 11  
 160. 1942 -- Mar 19, U.S. tanker **W.E. Hutton** sunk by torpedo, Atlantic, off Beaufort, NC-- 13  
 161. 1942 -- Mar 23, US tanker **Naeco** torpedoed btw. Cape Lookout and Wilmington, NC-- 24  
 162. 1942 -- Mar 26, tanker **Dixie Arrow** torpedoed, U-boat off Diamond Shoals Buoy, NC-- 11  
 163. 1942 -- Mar 29, passenger ship **City of New York** sunk, U-boat, ~40m off Cape Hatteras NC-24-26  
 164. 1942 -- Apr 05, US tanker **Byron D. Benson** sunk by U-boat 7.5M off Currituck Inlet, NC-- 10  
 165. 1942 -- Apr 11, tanker **Harry F. Sinclair Jr.** torpedoed by U-boat ~7M so. Cape Lookout NC-- 10  
 166. 1942 -- Apr 14, US freighter **Margaret** sunk by U-boat ~45 miles off Cape Hatteras NC- 29  
 167. 1942 -- Oct 03, gasoline **tanker/wagon/bus collision**, near Lumberton, NC --11-12  
 168. 1943 -- May 15, **plane crash**, US Army AF C-47, Ginger Cake Mountain, NC -- 18  
 169. 1943 -- Jun 07, **plane crash**, USAAF Transport, ~ Laurinburg-Maxton Field, NC -- 20  
 170. 1943 -- Sep 20, **plane crash**, transport plane, Laurinburg-Maxton Army Air Base, NC-- 25  
 171. 1943 -- Oct 29, **plane crash**, US Army AF C-47, Hoffman-Mackall AAF, NC -- 14  
 172. 1943 -- Dec 13, **plane lost**, USN PBM-3S, VP-213, #48126, patrol 34M off NC Coast-- 18  
 173. 1943 -- Dec 16, *Tamiami Champion* **train derails**, 2<sup>nd</sup> *Champion* **collides** ~Rennert, NC-72-74  
 174. 1944 -- **cerebrospinal meningitis** (subset, 2,812 US cerebrospinal meningitis deaths)-- 61  
 175. 1944 -- **influenza** (NC subset, 17,320 US influenza deaths), esp. Jan-Apr, Dec -- 515  
 176. 1944 -- **measles**, especially Jan-June; subset of 1,923 US measles deaths; NC -- 59  
 177. 1944 -- **polio**, especially July-Nov (NC subset of 1,070 polio deaths nationwide) -- 40  
 178. 1944 -- **tuberculosis** (NC subset of 54,731 tuberculosis deaths nationwide) --1,239  
 179. 1944 -- **whooping cough**; subset (highest state) of 1,878 US WC deaths -- 145  
 180. 1944 -- Feb 23, USN North Amer. PBJ-1D Mitchell **bombers collide** ~Bern, NC -- 10  
 181. 1944 -- May 19, **plane crash**, USN PB4Y-1 Liberator ~MCAS Cherry Point, NC -- 13  
 182. 1944 -- June 13, USAAF B-24E **bomber crash**, Green Knob Mt., near Asheville, NC-- 10  
 183. 1944 -- July 21, **3 USAAF C-47s lost**, Atlantic Ocean, 25M off Cape Fear, NC -- 15  
 184. 1944 -- Sep 14, **hurricane**, USCG Cutter **Bedloe** sinks off Cape Hatteras, NC<sup>640</sup> -- 26  
 185. 1944 -- Sep 14, **hurricane**, USCG Cutter **Jackson** sinks off Cape Hatteras NC -- 22  
 186. 1944 -- Sep 24, **plane crash**, US Army AF Douglas C-47, Camp Mackall, NC -- 12  
 187. 1948 -- **polio**, especially children (NC subset, 4<sup>th</sup> highest, 1,895 U.S. polio deaths) -- 143  
 188. 1950 -- **measles**, especially children; 468 US measles deaths; subset for NC -- 16  
 189. 1951 -- **diphtheria**; 302 US deaths; 13 States in double digits; subset for NC -- 19  
 190. 1951 -- **tuberculosis**, 31,163 US deaths, subset for NC -- 683  
 191. 1951 -- **whooping cough**; 960 US deaths; subset for NC (4<sup>th</sup> highest US state loss) -- 52  
 192. 1951 -- Oct 5, **Hurricane How**, freighter **Southern Isles** breaks-up/sinks off Cape Hatteras, NC--17  
 193. 1952 -- **dysentery**, infections (all forms); 949 US deaths; NC (8<sup>th</sup> highest US loss) -- 30  
 194. 1952 -- **influenza**; 5,649 US deaths; subset for NC (5<sup>th</sup> highest US state loss) -- 248  
 195. 1952 -- **measles**, 621 US deaths; 24 states double digits; CN (10<sup>th</sup> highest US loss) -- 21  
 196. 1952 -- **scarlet fever and streptococcal sore throat**; 352 US deaths; NC (9<sup>th</sup> highest)-- 13  
 197. 1953 -- **influenza**; 9,500 US deaths; NC subset (8<sup>th</sup> highest in the US) -- 351  
 198. 1953 -- **measles**, 483 US deaths, 23 states in double digits; NC 8<sup>th</sup> highest state loss -- 19  
 199. 1953 -- **polio**, especially children (NC subset of 1,450 polio deaths nationwide) -- 34

<sup>640</sup> These fatalities are part of the 391 attributed to the “Great Atlantic Hurricane.”

**North Carolina (continued):**

200.	1953 -- Sep 02, drownings, <b>Army pontoon raft capsizes</b> , Smith Lake, Fort Bragg, NC--	20
201.	1953 -- Nov 17, <b>USAF C-119F</b> loses engine, hits paratroopers, crashes, Fort Bragg NC--	15
202.	1954 -- <b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180; NC 8 <sup>th</sup> highest US state)--	101
203.	1954 -- <b>measles</b> ; 524 US deaths; 21 states double digits; NC, 3 <sup>rd</sup> highest US state loss--	35
204.	1954 -- <b>whooping cough</b> /pertussis; 375 US deaths, 17 states double digits, NC subset--	10
205.	1954 -- Oct 15, <b>Hurricane Hazel</b> , coastal storm-surge, Wind and flooding, NC	-- 19
206.	1955 -- <b>influenza</b> ; 2,755 US deaths; NC had 8 <sup>th</sup> highest US state loss of life	-- 104
207.	1955 -- <b>whooping cough</b> /pertussis, 476 US deaths/15 states in double digits; NC	-- 31
208.	1955 -- Aug 12-13, <b>Hurricane Connie</b> , NC	-- 25
209.	1956 -- <b>measles</b> , 530 US deaths/21 states in double digits; NC 4 <sup>th</sup> highest US state loss--	29
210.	1956 -- <b>whooping cough</b> /pertussis, 266 US deaths; 8 states double digit deaths, NC subset--	15
211.	1957 -- <b>influenza</b> ; 7,463 US deaths; NC subset (9 <sup>th</sup> highest US state loss of life)	-- 318
212.	1957 -- <b>whooping cough</b> /pertussis; 183 US deaths; 6 states double digits; NC	-- 12
213.	1957 -- June 6, <b>tractor-trailer</b> & migrant labor truck collide/burn ~Fayetteville, NC--	21
214.	1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--1,600
215.	1958 -- <b>measles</b> ; 552 US deaths; 23 States in double digits, including NC (6 <sup>th</sup> highest)--	28
216.	1959 -- <b>measles</b> , 385 US deaths, especially children; NC subset	-- 15
217.	1959 -- <b>polio</b> (acute, as opposed to late effects of); 454 US deaths; subset for NC	-- 20
218.	1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; NC death rate 8.5	-- 385
219.	1960 -- <b>measles</b> , especially children; 380 US deaths; NC	-- 12
220.	1960 -- Jan 06, National Airlines <b>Flight 2511 blown-up</b> by dynamite, Bolivia, NC	--all 34
221.	1961 -- <b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; NC death rate 1.3	-- 59
222.	1961 -- <b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; NC death rate 0.4	-- 20
223.	1962 -- <b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; NC death rate 3.0	-- 144
224.	1963 -- <b>influenza</b> , 7,083 US deaths/death rate 3.8; NC death rate 7.9	-- 378
225.	1963 -- Jan 24-29, <b>cold wave and sleet</b> (subset of 315-352 US deaths Jan 18-29)	-- 16
226.	1964 -- <b>dysentery</b> ; 283 US deaths; NC subset	-- 11
227.	1964 -- <b>measles</b> ; 421 US deaths/death rate 0.2; NC death rate 0.3	-- 15
228.	1965 -- <b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; NC death rate 1.3	-- 63
229.	1966 -- <b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; NC--	48
230.	1966 -- <b>tuberculosis</b> , 7,625 US TB deaths; subset for NC	-- 178
231.	1966 -- Jan 29-31, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; NC	-- 11
232.	1967 -- Jun 23, USMC <b>helicopters collide</b> , New River Marine Corps Air Facility, NC--	22
233.	1967 -- July 19, <b>planes collide</b> , Piedmont 22 & Cessna 310, Hendersonville, NC	-- 82
234.	1968 -- <b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; NC--	15
235.	1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; NC 3.6--	178
236.	1969 -- <b>excessive natural cold</b> ; ICD-8 code E901; 424 US deaths; NC	-- 13
237.	1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; NC 5.5--	278
238.	1970 -- <b>excessive natural cold</b> ; ICD-8 code E901; 466 US deaths; NC	-- 19
239.	1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3707 US deaths/death rate 1.8 per 100K; NC 4.1 <sup>641</sup> -	208
240.	1971 -- excessive <b>natural cold</b> ; ICD-8 code E901; 361 US deaths; NC	-- 19
241.	1971 -- Mar 27, storm, tanker <b>Texaco Oklahoma</b> breaks-up/sinks off Cape Hatteras, NC-31	
242.	1972 -- excessive <b>natural cold</b> , ICD-8 code E901, 490 US deaths; NC	-- 28

<sup>641</sup> NC had 2<sup>nd</sup> highest state loss of life to influenza in 1970, behind only TC with 230.

**North Carolina (continued):**

243. 1972 -- excessive natural **heat**; ICD-8 code E900; 234 US deaths; NC -- 12
244. 1972 -- **influenza**, ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; NC 4.0-- 212
245. 1973 -- excessive **natural cold**; ICD-8 code E901; 381 US deaths; NC (US State high)-- 33
246. 1973 -- **influenza**; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; NC 2.77 -- 149
247. 1973 -- **tuberculosis**; 3,875 US deaths/death rate 1.84 per 100K; NC 2.03 per 100K -- 109
248. 1973 -- Mar 08, US Army Golden Knights parachute team **plane crash**, Silk Hope, NC--14
249. 1973 -- May 27-28, severe thunderstorms; **flash flooding**, Western NC --11-12
250. 1974 -- **tuberculosis**; 3,513 US TB deaths/death rate 1.65 per 100K; NC rate 1.98 -- 108
251. 1974 -- Sep 11, **plane crash**, Eastern Air Flight 212, in fog, Charlotte, NC -- 72
252. 1975 -- exposure to excessive natural **cold** (ICD-8 E901); 359 US deaths; NC -- 14
253. 1975 -- **influenza**, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; NC/2.6-- 143
254. 1975 -- **tuberculosis**; 3,333 US TB deaths/death rate 1.55 per 100K; NC, 1.56 -- 86
255. 1976 -- exposure to excessive natural **cold/hypothermia**; 424 US deaths; NC -- 17
256. 1976 -- **tuberculosis**; 3,130 US TB deaths/death rate 1.44 per 100K; NC, 1.77 -- 99
257. 1977 -- **cold/hypothermia**, exposure to excessive natural; 634 US deaths; NC -- 31
258. 1977 -- **excessive natural heat** (esp. summer), ICD-8 E900 /US death rate 0.14, NC 0.42-- 24
259. 1977 -- **influenza**; 1,305 US flu deaths/death rate 0.59 per 100K; NC, 1.36 -- 77
260. 1977 -- **tuberculosis**; 2,968 US TB deaths/death rate 1.35 per 100K; NC, 1.59 -- 90
261. 1977 -- Nov 06-07, heavy rain, **flooding**, flash floods, esp. western NC -- 11
262. 1978 -- exposure to excessive natural **cold/hypothermia**; 652 US deaths; NC -- 23
263. 1978 -- **influenza**, 4,052 US flu deaths/death rate 1.82 per 100K; NC, 2.07 -- 119
264. 1978 -- **tuberculosis**, 2,914 US TB deaths/death rate 1.31 per 100K; NC, 1.62 -- 93
265. 1979 -- **tuberculosis**, 2,007 US TB deaths/death rate 0.89 per 100K; NC, 1.19 -- 69
266. 1980 -- **tuberculosis**; 1,978 US TB deaths/death rate 0.87 per 100K; NC, 1.33 -- 78
267. 1980 -- June-Aug, especially, **heat** (ICD-9 E900 code for excessive natural heat), NC-- 15
268. 1981 -- **influenza**, 3,006 US flu deaths/death rate 1.31 per 100K, NC rate 1.56 -- 93
269. 1981 -- **tuberculosis**; 1,937 US TB deaths/death rate 0.84 per 100K; NC rate 1.09 -- 65
270. 1981 -- June-Aug (especially), **heat** (ICD-9 E900 code for excessive natural heat) -- 13
271. 1982 -- **tuberculosis**, 1,807 US TB deaths/death rate 0.78 per 100K, NC, 1.03 -- 62
272. 1982 -- Jan 09-17, **winter weather** (especially extreme cold ), NC --14-20
273. 1983 -- exposure to excessive natural **cold/hypothermia**; 510 US deaths; NC -- 23
274. 1983 -- **tuberculosis**, 1,779 US TB deaths/death rate 0.76 per 100K; NC rate 1.02 -- 62
275. 1983 -- summer **heat**, esp. mid-July-early Aug, deaths in 21 counties; US toll/597 -- 25
276. 1983 -- Dec 24-28, **winter weather**, severe cold/exposure deaths, snow, icy roads --25-27
277. 1984 -- **tuberculosis**, 1,729 US TB deaths, death rate 0.73 per 100K; NC rate 1.01 -- 62
278. 1984 -- Mar 28, **tornadoes**, many counties, esp. Sampson, Greene, Pitt, Bertie --41-43
279. 1985 -- exposure to excessive natural **cold/hypothermia**; 519 US deaths; NC -- 23
280. 1985 -- **tuberculosis**, 1,752 US TB deaths, death rate 0.74 per 100K; NC, 1.10 -- 69
281. 1985 -- Jan 20-23 (especially), **winter weather, exposure/hypothermia**, NC --21-23
282. 1985 -- Mar 13, **US Army Black Hawk crash** (technical failure?), Fort Bragg, NC --all 12
283. 1985 -- Oct 15, **USMC Sea Knight helicopter** off USS *Guadalcanal* **crash**, Onslow Bay, NC--15
284. 1986 -- exposure to excessive natural **cold/hypothermia**; 301 US deaths, NC -- 14
285. 1986 -- **influenza**; 1,838 US flu deaths; death rate 0.76 per 100K: NC, 0.87 -- 55
286. 1986 -- **tuberculosis**, 1,782 US deaths, death rate 0.74 per 100K; NC, 0.95 -- 60



**North Carolina (continued):**

287.	1986 --	summer, esp., <b>excessive heat</b> ;	subset of >400 U.S. heat-related fatalities; NC--	20
288.	1987 --	<b>tuberculosis</b> ;	1,755 US TB deaths, death rate 0.72 per 100K; NC, 0.97	-- 62
289.	1988 --	<b>influenza</b> ;	1,943 US flu deaths, death rate 0.79 per 100K; NC, 1.63	-- 103
290.	1988 --	<b>tuberculosis</b> ;	1,921 US TB deaths, death rate 0.78 per 100K; NC, 1.12	-- 73
291.	1988 --	Feb 19, AVAir Inc. Fairchild Metro III (Air Virginia) <b>takeoff crash</b> ,	Cary, NC--	12
292.	1988 --	summer especially, <b>excessive natural heat</b> ,	NC	-- 15
293.	1989 --	exposure to excessive natural <b>cold/hypothermia</b> ;	524 US deaths; NC	-- 17
294.	1989 --	<b>tuberculosis</b> ;	1,970 US TB deaths, death rate 0.80 per 100K; NC, 0.90	-- 59
295.	1990 --	exposure to excessive natural <b>cold/hypothermia</b> ;	596 US deaths; NC	-- 27
296.	1990 --	<b>tuberculosis</b> ;	1,810 US TB deaths, death rate 0.73 per 100K; NC, 0.92	-- 61
297.	1991 --	exposure to excessive natural <b>cold/hypothermia</b> ;	588 US deaths; NC	-- 27
298.	1991 --	Sep 03, <b>fire</b> ,	chicken processing plant, Hamlet, NC	-- 25
299.	1992 --	exposure to excessive natural <b>cold/hypothermia</b> ;	558 US deaths; NC	-- 21
300.	1992 --	<b>tuberculosis</b> ;	1,705 US TB deaths, death rate 0.66 per 100K; NC, 0.70	-- 48
301.	1993 --	exposure to excessive natural <b>cold/hypothermia</b> ;	641 US deaths; NC	-- 18
302.	1993 --	<b>influenza</b> ,	1,044 US deaths, death rate 0.40 per 100K; NC, 0.60 per 100K	-- 42
303.	1993 --	<b>tuberculosis</b> ;	1,631 US TB deaths, death rate 0.63 per 100K; NC 0.72	-- 51
304.	1993 --	Mar 12-13 Eastern Seaboard <b>"Superstorm of 1993,"</b>	subset for NC	--19-20
305.	1993 --	summer, especially, <b>excessive natural heat</b> ,	NC	-- 11
306.	1994 --	exposure to excessive natural <b>cold/hypothermia</b> ;	633 US deaths; NC	-- 29
307.	1994 --	<b>tuberculosis</b> ;	1,478 US TB deaths; US death rate 0.56 per 100K, NC, 0.64	-- 46
308.	1994 --	Jan 15-22, <b>severe winter cold</b> ,	NC	-- 10
309.	1994 --	Mar 23, <b>USAF C-130 &amp; F-16 collide</b> ,	F-16 hits troops on ramp, Pope AFB, NC-24	
310.	1994 --	July 02, <b>plane crash</b> ,	US Air Douglas DC-9, Charlotte, NC	-- 37
311.	1994 --	Dec 13, <b>American Eagle Flight 3379</b> (Flagship Air) approach crash ~Raleigh	NC--	15
312.	1995 --	exposure to excessive natural <b>cold/hypothermia</b> ;	553 US deaths; NC	-- 19
313.	1996 --	exposure to excessive natural <b>cold/hypothermia</b> ;	685 US deaths' NC	-- 27
314.	1996 --	<b>tuberculosis</b> ,	subset 1,202 US TB deaths/death rate 0.45 per 100K, NC, 0.5	-- 38
315.	1996 --	May 10, two U.S. Marine <b>helicopters collide</b> .	Camp LeJeune, NC	-- 14
316.	1996 --	Sep 05, <b>Hurricane Fran</b> ,	NC	-- 25
317.	1997 --	exposure to excessive natural <b>cold/hypothermia</b> ;	501 US deaths; NC	-- 12
318.	1997 --	July 30, high schoolers' <b>SUV</b> in no-passing zone, hit by truck, ~Plymouth	NC--	10
319.	1998 --	exposure to excessive natural <b>cold/hypothermia</b> ;	420 US deaths; NC	-- 12
320.	1998 --	<b>infectious colitis</b> ,	enteritis, gastroenteritis, ICD-9 code 009.0, NC death rate 0.15 per 100K--	12
321.	1998 --	<b>tuberculosis</b> ,	ICD-9 code 010-018, death rate 0.40 per 100K; NC rate 0.58	-- 45
322.	1999 --	exposure to excessive natural <b>cold/hypothermia</b> ;	598 US deaths; NC	-- 12
323.	1999 --	Summer <b>heat</b> (especially July 20-31); (NC subset of 1,050 US heat deaths)		-- 13
324.	1999 --	Sep 16, <b>Hurricane Floyd</b> ,	Mid Atlantic, Particularly Coastal NC	--52-53
325.	2000 --	exposure to excessive natural <b>cold/hypothermia</b> ;	742 US deaths; NC	-- 30
326.	2000 --	<b>tuberculosis</b> ,	ICD-10 code A16-19; death rate 0.276 per 100K; NC, 0.398	-- 32
327.	2001 --	exposure to excessive natural <b>cold/hypothermia</b> ;	599 US deaths; NC	-- 17
328.	2001 --	<b>tuberculosis</b> ,	ICD-10 code A16-19, death rate 0.268 per 100K; NC, 0.292	-- 24
329.	2002 --	exposure to excessive natural <b>cold/hypothermia</b> ;	646 US deaths; NC	-- 34
330.	2002 --	exposure to <b>excessive natural heat</b> ,	626 US deaths, subset for NC	-- 12

**North Carolina (continued):**

331.	2002 --	tuberculosis	, ICD-10 code A16-19, death rate 0.273 per 100K, NC, 0.276	--	23
332.	2003 --	exposure to excessive natural	cold/hypothermia; 620 US deaths; NC	--	17
333.	2003 --	influenza	, ICD-10 codes J09-11; US death rate 0.618 per 100K; NC, 0.867	--	73
334.	2003 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.25 per 100K; NC, 0.30	--	25
335.	2003 --	Jan 08, Air Midwest Flight 5481	takeoff crash (no survivors), Charlotte, NC	--	21
336.	2004 --	exposure to excessive natural	cold/hypothermia; 676 US deaths; NC	--	12
337.	2004 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.22 per 100K; NC, 0.27	--	23
338.	2004 --	Sep 16-24, Hurricane Ivan	aftereffects, debris slides, esp. Macon Co., NC	--	11
339.	2005 --	exposure to excessive natural	heat; 939 US deaths, subset for NC	--	18
340.	2006 --	exposure to excessive natural	heat; 1,104 US deaths, subset for NC	--	12
341.	2007 --	exposure to excessive natural	cold/hypothermia; 711 US deaths; NC	--	22
342.	2007 --	influenza	, ICD-10 codes J09-11; US death rate 0.14 per 100K; NC, 0.15	--	14
343.	2007 --	tuberculosis	, ICD-10 code A16-19; US death rate 0.184 per 100K; NC, 0.208	--	19
344.	2007 --	exposure to excessive natural	heat; 582 US deaths, subset for NC	--	15
345.	2008 --	exposure to excessive natural	cold/hypothermia; 641 US deaths; NC	--	16
346.	2008 --	exposure to excessive natural	heat; 502 US deaths, subset for NC	--	25
347.	2008 --	influenza	, ICD-10 codes J09-11; US death rate 0.57 per 100K; NC, 0.63	--	59
348.	2009 --	H1N1 Swine Flu	, especially fall/winter, (subset of >12,000 U.S. deaths)	--	107
349.	2009 --	exposure to excessive natural	cold/hypothermia; 616 US deaths; NC	--	19
350.	2009 --	exposure to excessive natural	heat; 555 US deaths, subset for NC	--	10
351.	2010 --	diarrhoea/gastroenteritis	, infectious origin; US death rate .9 per 100K, NC 1.0-98		
352.	2010 --	exposure to excessive natural	cold/hypothermia; 710 US deaths; NC	--	22
353.	2010 --	exposure to excessive natural	heat; 874 US deaths, subset for NC	--	14
354.	2010 --	influenza	, ICD-10 codes J09-J11; <sup>642</sup> US death rate 0.2 per 100K; NC, 0.3	--	24
355.	2011 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.9 per 100K; NC 1.0--	96	
356.	2011 --	exposure to excessive natural	cold/hypothermia; 0.216 death rate; NC 0.124	--	12
357.	2011 --	exposure to excessive natural	heat, 1,060 US deaths, subset for NC	--	14
358.	2011 --	Apr 16, severe wind/tornadoes	, esp. Bertie Co. (deaths in 7 other counties)	--	24
359.	2012 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K, NC, 1.0--	94	
360.	2012 --	exposure to excessive natural	cold/hypothermia; 501 US deaths; NC	--	15
361.	2012 --	exposure to excessive natural	heat; 879 US deaths; subset for NC	--	17
362.	2012 --	influenza	, ICD-10 codes J09-11; US death rate 0.4 per 100K; NC rate 0.7	--	71
363.	2013 --	exposure to excessive natural	cold/hypothermia; 725 US deaths; NC	--	10
364.	2014 --	exposure to excessive natural	cold/hypothermia; 930 US deaths; NC	--	24
365.	2014 --	influenza	, ICD-10 codes J09-11; US death rate 1.4 per 100,000; NC rate 1.5	--	152
366.	2015 --	exposure to excessive natural	cold/hypothermia; 815 US deaths; NC	--	14
367.	2015 --	exposure to excessive natural	heat; 567 US deaths; subset for NC	--	13
368.	2015 --	influenza	, ICD-10 codes J09-11; US death rate 1.6 per 100,000; NC, 2.4	--	245
369.	2015 --	tuberculosis	, ICD-10 codes A16-A19; US death rate 0.1 per 100K; NC 0.2	--	19
370.	2016 --	diarrhoea/gastroenteritis	, infectious origin; death rate 0.7 per 100K, NC 0.8	--	80
371.	2016 --	exposure to excessive natural	cold/hypothermia; 731 US deaths; NC	--	22
372.	2016 --	exposure to excessive natural	heat, 786 US deaths, subset for NC	--	16
373.	2016 --	HIV AIDS	, 6,160 US deaths/death rate 1.9 per 100,000; NC rate 2.1	--	209

<sup>642</sup> 500 US Flu deaths. ICD-10 code for 2010 influenza/pneumonia (J09-J18) has 50,097 deaths (death rate of 16.2).

374.	2016 --	<b>influenza</b> , ICD-10 codes J09-J11; US and NC death rate 0.9 per 100,000	--	88
375.	2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; NC, 2.2--		221
376.	2016 --	Oct 07-09, <b>Hurricane Matthew &amp; flooding aftermath</b> , especially eastern NC--		30
377.	2017 --	exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths; NC	--	13
378.	2017 --	exposure to <b>excessive natural heat</b> ; 817 US deaths, subset for NC	--	21
379.	2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; NC death rate 2.04	--	210
380.	2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; NC rate 2.60	--	267
381.	2018 --	exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; NC	--	25
382.	2018 --	exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for NC	--	11
383.	2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; NC death rate 1.81	--	188
384.	2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., NC rate 4.14	--	430
385.	2018 --	Sep 14, <b>Hurricane Florence</b> (Wrightsville Beach landfall); esp. flooding	--	42-24
386.	2019 --	exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths; NC	--	24
387.	2019 --	exposure to <b>excessive natural heat</b> ; 915 US deaths; subset for NC	--	13
388.	2019 --	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, NC rate 2.19--		230
389.	2020 --	exposure to <b>excessive natural heat</b> ; 1,174 US deaths, subset for NC	--	17
390.	2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; NC rate 1.73	--	183
391.	2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; NC death rate 2.07	--	219
392.	2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); NC, 643 per 1M pop.-6,784		
393.	2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; NC, 1.9K per M--12,462		
394.	2021 --	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; NC set--		29
395.	2021 --	exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for NC	--	15
396.	2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; NC death rate 2.00	--	183
397.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; NC death rate 7.99	--	8,383
398.	2022 --	exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for NC	--	24
399.	2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	1,430
400.	2023 --	exposure to <b>excessive natural heat</b> ; 2,155 US deaths, subset for NC	--	10

#### Some Select/Notable Other **North Carolina** Large Loss-of-Life Events:<sup>643</sup>

1849 --	summer-fall, <b>cholera</b> , NC	--	29
1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	--	108
1850 --	<b>scarlet fever</b> ; subset of 9,584 such deaths 36 States/Territories/DC (average 266)	--	21
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	--	32
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	--	562
1870 --	<b>tuberculosis</b> (Consumption) (NC subset of ~70,000 TB deaths nationwide)	--	1,236
1870 --	<b>typhus</b> (NC subset of 1,770 typhus deaths nationwide)	--	19
1879 --	June-May 1880, <b>meningitis</b> (NC subset of 7,481 U.S. meningitis deaths)	--	111
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (NC subset, 16,388 S.F. deaths)	--	113
1883 --	Sep-Oct, <b>diphtheria</b> , Orange County, NC	--	22
1889-90--	June 1-May 31, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; NC	--	309
1890 --	Jan, <b>influenza</b> (La Grippe/Russian Flu)	--	48
1897 --	<b>typhoid fever</b> , subset of >9,192 US typhoid deaths	--	52

<sup>643</sup> We include in "Other" two categories: (1) events wherein fewer than 10 lives were lost, but which we take note, and (2) diseases that caused more than ten lives lost, but perhaps not at an epidemic level (subjective judgement) and generally below US or "Registration Area" average death rate when we have those statistics.

**North Carolina (continued):**

1898 --	<b>typhoid fever</b> ; subset of >4,627 deaths; First NC Volunteer Infantry, US camps	-- 16
1900 --	<b>diphtheria</b> (NC subset of 16,475 US diphtheria deaths in 1900)	-- 120
1900 --	<b>measles</b> (NC subset of 12,866 US measles deaths)	-- 228
1900 --	<b>meningitis</b> ; subset of 19,423 US meningitis deaths, NC	-- 320
1900 --	<b>scarlet fever</b> (NC subset, 6,333 US scarlet fever deaths)	-- 24
1900 --	<b>smallpox</b> (NC subset, 8,484 US smallpox deaths)	-- 51
1907 --	<b>typhoid fever</b> , Raleigh (19), Wilmington (11); ~13K US Census-area deaths	-- 30
1911 --	<b>polio</b> ; subset of 1,060 "registration area" deaths (63.1% pop.), NC	-- 15
1912 --	Nov 19, passenger <b>trains collide</b> near Granite, NC	-- 7
1913 --	<b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, NC	-- 10
1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; NC, 16.6	-- 403
1920 --	<b>diphtheria and croup</b> (NC subset of 13,395 such deaths in 34 registration states)--	299
1920 --	<b>measles</b> (NC subset of 7,712 measles deaths in 34 registration states)	-- 62
1920 --	<b>scarlet fever</b> (NC subset of 4,004 scarlet fever deaths in 34 registration states)	-- 30
1921 --	<b>polio</b> (acute) esp. late summer-fall (NC subset, 1,597 U.S. polio deaths)	-- 26
1925 --	<b>measles</b> (NC subset of 2,404 measles deaths in 40 "registration" states)	-- 16
1925 --	<b>meningococcus meningitis</b> (NC subset, 1,095 US meningitis deaths)	-- 24
1925 --	<b>polio</b> (NC subset, 1,518 US polio deaths)	-- 25
1925 --	<b>scarlet fever</b> (NC subset of 2,762 US scarlet fever deaths, 48 states)	-- 30
1927 --	<b>polio</b> (acute) esp. late summer-fall (NC subset, 2,013 polio deaths nationwide)	-- 18
1929 --	Dec 25, C.D. Lawson <b>kills</b> wife, six children, suicide, Walnut Cove, NC	-- 8
1931 --	<b>epidemic cerebrospinal meningitis</b> (Census); NC subset, 2,832 US meningitis deaths--	44
1931 --	<b>malaria</b> ; 2,536 US malaria deaths; subset for NC	-- 46
1931 --	<b>polio</b> , esp. July-Oct, esp. children (subset of 2,139-2,144 US polio deaths), NC	-- 37
1938 --	Aug 31, dynamite explosion, Asheville granite <b>quarry</b> , Asheville, NC	-- 5
1939 --	summer, <b>excessive natural heat</b> ; 527-1,073 US heat deaths; subset for NC	-- 8
1940 --	<b>polio</b> , especially children (NC subset of 1,026 polio deaths nationwide)	-- 16
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); NC death rate 12.3	-- 438
1942 --	Mar 07, <b>car</b> and ammo truck collide, fire, delayed explosion, ~Selma, NC <sup>644</sup>	-- 7
1944 --	Feb 07, <b>USAAF Douglas C-47A breaks up, crashes</b> , Parkton, NC	-- 4
1945 --	July 03, <b>Forca Aerea Brasileira crash</b> , Burgaw, near Wilmington, NC	-- 7
1945 --	Oct 12, <b>USAAF C-45</b> crashes near Mt. Sequoyah, Smoky Mt. National Park, NC	-- all 6
1946 --	<b>polio</b> , especially July-Nov (NC subset of 1,845 polio deaths nationwide)	-- 16
1946 --	Sep 13, <b>USAAF B-25 crash</b> , Cold Mountain, NC	-- 5
1948 --	Mar 10/11, <b>fire</b> , Highland Hospital for Nervous Disorders, Asheville, NC	-- 9
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	-- 12
1949 --	Oct 05, <b>USAF C-47</b> (DC to AL) <b>flies into Mount Mitchell</b> , NC	-- all 9
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	-- 19
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths	-- 10
1952 --	<b>diphtheria</b> (225 US deaths; 7 states in double digits), subset for NC	-- 9
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths	-- 24
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for NC	-- 536
1953 --	<b>excessive natural heat</b> , (code E931), 576 US heat deaths, esp. Aug 22-Sep 5; NC--	6

<sup>644</sup> The intersection of State Highways 70 and 301, where collision occurred is just between Selma and Smithfield.



**North Carolina (continued):**

1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for NC	-- 403
1954 --	<b>excessive natural heat</b> (especially July), subset of 978-984 heat-related deaths; NC--	8
1954 --	<b>dysentery</b> , infectious, all forms (codes 045-048), 655 US deaths; NC subset	-- 11
1954 --	<b>polio</b> , acute; 1,400 US deaths; NC subset	-- 18
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; NC subset	-- 309
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; NC subset	-- 256
1956 --	<b>influenza</b> , 2,323 US deaths; NC subset	-- 73
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; NC subset	-- 242
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; NC subset	-- 222
1958 --	<b>influenza</b> ; 4,442 US deaths; NC subset	-- 105
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; NC subset	-- 247
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; NC subset	-- 231
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; NC death rate 4.4	-- 199
1960 --	Sep 10, <b>Hurricane Donna</b> , NC	-- 8
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; NC death rate 3.8	-- 177
1961 --	July 12, <b>lightning</b> strikes tobacco barn, near Clinton, Sampson County, NC	-- 8
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; NC death rate 3.7	-- 173
1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	-- 4-5
1963 --	<b>dysentery</b> ; 294 US deaths/death rate 0.2 per 100K pop.; NC death rate 0.2	-- 10
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; NC death rate 3.9	-- 185
1963 --	<b>whooping cough</b> (pertussis); 115 US deaths; NC	-- 7
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; NC death rate 0.8	-- 39
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; NC death rate 3.4	-- 165
1964 --	<b>whooping cough</b> (pertussis); 93 US deaths; NC deaths	-- 5
1964 --	Jan 12-14, <b>snowstorm and coldwave</b> , esp. NE US (146-167), NC	-- 6
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; NC death rate 3.3	-- 160
1965 --	Sep 10, speeding <b>car</b> crosses median (blowout?) hits another near Lincolnton, NC--	9
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for NC	-- 75
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; NC death rate 2.91	-- 144
1968 --	Dec 29-Feb 8, A2 Hong Kong <b>influenza-pneumonia</b> epidemic, Charlotte, NC <sup>645</sup>	-- 42
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; NC death rate 2.59	-- 130
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; NC 2.49--	127
1970 --	June 8, TNT <b>explosion</b> , demolition trng., Green Berets killed, Fort Bragg, NC	-- 7
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths, NC 0.5--	25
1971 --	<b>polio</b> ; ICD-8 codes 040-044; 108 US deaths; NC	-- 5
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; NC death rate 2.00	-- 104
1972 --	<b>tuberculosis</b> ; 4,376 US TB deaths/death rate 2.09 per 100K; NC death rate 1.96	-- 103
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; NC/1.008--	55
1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; NC 2.2-	123
1976 --	<b>polio</b> (acute poliomyelitis, ICD-8 codes 040-045); 90 US polio deaths; NC	-- 5
1976 --	June 30, youth prisoners start fire, McDowell County Prison, Marion, NC	-- 9
1979 --	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; NC, 0.17	-- 10
1979 --	Feb 17-19, Presidents Day <b>winter storm</b> (snow and cold)	-- 8

<sup>645</sup> CDC Morbidity/Mortality Weekly Reports noted only Charlotte. U.S. influenza epidemic death toll was 33,800.

**North Carolina (continued):**

1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, NC, 0.44	-- 26
1981 --	Feb 07, overloaded <b>Cessna 340 approach crash</b> , Chapel Hill, NC	-- all 7
1982 --	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, NC, 0.27	-- 16
1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, NC, 0.33	-- 20
1983 --	Jan 09, <b>USAF F-4C Phantom collides with Beechcraft</b> Baron, 30M S of Cherry Pt. NC--	7
1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, NC, 0.44	-- 27
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, NC, 0.75	-- 47
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K population; NC, 2.23	-- 143
1987 --	July 01, <b>USAF C130 pulled up too late from low-altitude drop</b> , Fort Bragg, NC--	5
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; NC, 3.39	-- 220
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; NC, 5.32	-- 350
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K population; NC, 0.32	-- 21
1989 --	Sep 22, <b>Hurricane Hugo</b> , NC	-- 7
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; NC, 0.83	-- 55
1990 --	summer, <b>heat (exposure to excessive natural heat)</b> , NC	-- 7
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; NC, 0.43	-- 29
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, NC rate 0.59	-- 40
1991 --	summer, <b>excessive natural heat</b> , NC	-- 6
1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, NC rate 0.36	-- 25
1992 --	Apr 28, <b>USAF C-130 crashes</b> into Blewett Falls Lake, NC	-- 9
1992 --	May 15, <b>private Piper crash</b> on takeoff in zero visibility fog conditions, Greenville NC--	6
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; NC death rate 0.36	-- 26
1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths; death rate 0.5 per 100K; NC death rate 0.44	-- 32
1995 --	summer, exposure to <b>excessive natural heat</b> , NC	-- 8
1995 --	Aug 13-17, <b>Hurricane Felix</b> , drownings on coast, NC	-- 5
1996 --	<b>influenza</b> , 745 US flu deaths; US death rate 0.276 per 100K; NC rate 0.253	-- 19
1996 --	Jan 06-07, <b>snow storm</b> (Blizzard of '96)	-- 6-9
1997 --	<b>influenza</b> , code 487.0; US death rate 0.264 per 100K (720 US deaths); NC, 0.144	-- 11
1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, NC, 0.34	-- 26
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; NC, 0.35	-- 27
1998 --	June-Aug, <b>excessive heat</b> , 373 US heat-related deaths; subset for NC	-- 9
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; NC rate 0.478	-- 38
1999 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; NC, 0.289	-- 23
1999 --	May 01, Spectators killed by debris; VisionAire 500 Race <b>crash</b> , Concord, NC	-- 3
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; NC, 0.584	-- 47
2001 --	June 15-17, <b>Tropical Storm Allison</b> remnant, vehicular traffic accidents, NC	-- 9
2002 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; NC rate 0.180	-- 15
2003 --	Jan 29, <b>dust explosion</b> , West Pharmaceutical Services Plant, Kinston, NC	-- 6
2004 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; NC, 0.257	-- 22
2005 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; NC, 0.402	-- 35
2005 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; NC, 0.18	-- 16
2007 --	Oct 28, <b>fire</b> , beach house (young college students), Ocean Isle Beach, NC	-- 7
2008 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; NC rate 0.17	-- 16
2009 --	<b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.9 per 100K; NC, 0.7	-- 68

2009 --	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); NC, 0.3	--	30
2009 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100K; NC, 0.1	--	11
2010 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.2 per 100K; NC, 0.2	--	15
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; NC, 2.1	--	203
2011 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; NC, 0.5	--	49
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; NC, 2.1	--	207
2011 --	Aug 27, <b>Hurricane Irene</b> , NC	--	7
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; NC, 2.3	--	228
2012 --	<b>tuberculosis</b> , ICD-10 code A16-A19; US death rate 0.2 per 100,000; NC had 0.1	--	14
2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, NC, 0.7	--	73
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; NC, 2.4	--	240
2013 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; NC, 1.0	--	94
2013 --	<b>tuberculosis</b> , ICD-10 Code A16-A19, US death rate 0.2 per 100,000; NC, 0.1	--	13
2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, NC, 0.7	--	69
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; NC, 2.1	--	207
2014 --	<b>tuberculosis</b> , ICD-10 Code A16-A19; US and NC death rate 0.2 per 100,000	--	15
2014 --	Feb 13, <b>winter storm Pax</b> , ice/snow storm, vehicular accidents, falling branch	--	5
2014 --	Aug 29, mobile home <b>fire</b> (cause undetermined), just outside Garland, NC	--	6
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; NC 0.7	--	74
2016 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.2 per 100,000; NC, 0.1	--	11
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; NC, 2.0	--	205
2016 --	Jan 20-22, <b>winter storm Pax</b> , <b>ice/snow</b> , vehicular accidents, NC	--	6
2017 --	<b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; NC subset	--	10
2018 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; NC subset	--	16
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; NC rate 1.54	--	162
2019 --	<b>tuberculosis</b> , ICD-10 codes A16-A19 (526 US TB deaths); NC subset	--	19
2020 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; NC	--	17
2023 --	Feb 13, <b>Pilatus PC-12 crash</b> , Atlantic 3M off Michael J Smith Field AP, Beaufort NC--	--	8

#### Breakout by Type of **North Carolina** Large-Loss-of-Life Events (10 or more fatalities):

- 186 -- **Disease**, especially communicable, especially epidemics. (Plus 129 in "Other")
- 64 -- **Maritime and Inland Waterways**.
- 50 -- **Winter Weather, Cold/Hypothermia** (7 events with 5-9 deaths each).
- 32 -- **Heat**. Plus 7 years 6-9 deaths.
- 24 -- **Aviation**. (Plus 11 events noted with 4-9 deaths each.)
- 18 -- **Hurricane/Tropical Storm**. (Plus 5: one with 9, one at 8, two with 7, one with 5 deaths.)
- 8 -- **Violence** (Plus one with 8 deaths in "Other.")
- 6 -- **Tornadoes**. (One is cross-listed in Maritime for sinking a boat.)
- 5 -- **Flooding**. (Includes cross-listing of Hurricane Matthew in 2016.)
- 4 -- **Mining**. (Plus granite quarry dynamite explosion in 1938 killing 5.)
- 4 -- **Rail**. (Plus one with 7 deaths in "Other.")
- 3 -- **Explosions**. (Plus two events with 6 and 7 deaths.)
- 3 -- **Vehicular/Road/Highway**. (We also note 1 with 7 fatalities, and one with 9.)
- 2 -- **Fire, Structural**. Plus 4 with 6-9 deaths – 9 in 1948 and 1976, 7 in 2007, 6 in 2014.
- 1 -- **Landslide/Debris Flow**

**North Carolina (continued):**

**1 -- Wind Storms/Severe Thunderstorms**

**0 -- Lightning.** (But 8 deaths when lightning hit a barn July 12, 1961, near Clinton.)



## ND

## North Dakota

1. 1837-38--**smallpox**, Upper Mid-West native tribes, especially Dakotas/MT<sup>646</sup> --10K~17,000
2. 1867 -- Oct 07, **prairie fire**, Gov. stock yard and Indian Camp, Fort Ransom, ND -- 10
3. 1863 -- Sep 3, **massacre**, Army attacks Dakota/Lakota Sioux, Whitestone Hill, ND--150-300
4. 1864 -- July 28-29, US **Army attacks Dakota Sioux**, Killdeer Mountain, ND Territory--~100
5. 1881 -- **smallpox**, Wahpeton area -- 25
6. 1883 -- Mar 10, **fire**, boarding house, Brownsville, ND -- 11
7. 1888 -- Jan 12, "**Schoolchildren's Blizzard**" and **extreme cold**, ND (Territory)<sup>647</sup> --  $\geq$ 10
8. 1889-90 -- June-May, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; ND -- 133
9. 1889-90 -- June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths -- 81
10. 1900 -- **typhoid fever** (subset of 35,379 US typhoid fever deaths); ND -- 65
11. 1906 -- Dec 23, passenger & freight **trains collide in fog**, Enderlin, ND --10-11
12. 1909 -- **polio** (acute), especially children (subset of 569 US polio deaths); ND -- 19
13. 1918 -- **typhoid fever** (subset of 9,100 U.S. typhoid fever deaths); ND -- 26
14. 1918 -- Sep-Apr 1919, **influenza and pneumonia** epidemic, ND --3,464
  - 1918 -- Sep-Dec, **influenza and pneumonia** epidemic, ND --2,367
  - 1919 -- Jan-Apr, **influenza and pneumonia** epidemic, ND --1,097
15. 1925 -- **polio** (ND subset, 1,518 US polio deaths) -- 42
16. 1925 -- **scarlet fever** (ND subset of 2,762 US scarlet fever deaths, 48 states) -- 48
17. 1927 -- **polio** (Acute) esp. late Summer and Fall (ND subset, 2,013 U.S. polio deaths) -- 12
18. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; ND, 5.1 -- 35
19. 1936 -- July-Aug (especially), **excessive heat** (4,678-5,418 US heat deaths), ND subset-- 48
20. 1940 -- **whooping cough**; 2926 US WC deaths/death rate 2.2 per 100K, ND, 2.5 -- 16
21. 1944 -- **measles**, especially Jan-June (subset of 1,923 US measles deaths), ND -- 34
22. 1945 -- Aug 09, **train collision**, Great Northern's *Empire Builder*, Michigan, ND -- 34
23. 1946 -- **polio** (acute), especially July-Nov (subset, 1,845 U.S. polio deaths), ND -- 26
24. 1949 -- **polio** (acute), especially July-Nov (subset, ~2,725 U.S. polio deaths); ND --19-23
25. 1957 -- June 20, supercell thunderstorm, **tornadoes**, Fargo, ND F5 -- 12
26. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K)<sup>648</sup> -- 266
27. 1960 -- **influenza**; 7,872 US deaths/death rate 4.4 per 100K; ND death rate 4.6 -- 29
28. 1961 -- **influenza**, 2,137 US deaths/death rate 1.2 per 100K; ND death rate 1.9 -- 12
29. 1962 -- **influenza**; 3,431 US deaths/death rate 1.8 per 100K; ND death rate 1.9 -- 12
30. 1964 -- **influenza**; 1,687 US deaths/death rate 0.9 per 100K; ND death rate 3.1 -- 20
31. 1968 -- **excessive natural cold**; ICD-8 code E901; subset of 494 of US cold deaths; ND-- 15
32. 1968 -- **influenza**, ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; ND 5.8--35
33. 1968 -- Jan 17, USAF Stratotanker takeoff **plane crash** in snowstorm, Minot AFB, ND-- all 13
34. 1969 -- **excessive natural cold**; ICD-8 code E901; 424 US deaths; ND -- 12
35. 1969 -- **influenza**, ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; ND 4.2--26
36. 1970 -- **excessive natural cold**; ICD-8 code E901; 466 US deaths; ND -- 10
37. 1970 -- **influenza**; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; ND 3.6-- 22
38. 1971 -- **excessive natural cold**; ICD-8 code E901; 361 US deaths; ND -- 10

<sup>646</sup> We do not know the ND breakout. We know many thousands of natives died in the upper mid-west, including tribes residing in ND such as the Arikara and the Mandan.

<sup>647</sup> The great majority of Dakota Territory deaths were in present day South Dakota – estimated 149-155.

<sup>648</sup> Communicable Disease Center in Atlanta (CDC predecessor), noted the Dakotas were “extensively involved.”

**North Dakota (continued):**

39. 1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; ND 1.6--	10
40. 1972 --	<b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; ND	-- 12
41. 1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; ND 7.61--	48
42. 1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; ND 4.91	-- 31
43. 1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; ND/1.6--	10
44. 1975 --	<b>excessive natural cold</b> (ICD-8 E901); 359 US deaths; ND <sup>649</sup>	-- 17
45. 1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; ND, 4.5--	29
46. 1975 --	Jan 10-12, winter storm/ <b>blizzard</b> (90 US deaths), ND	-- 12
47. 1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; ND 11.6--	75
48. 1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; ND, 2.61	-- 17
49. 1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, ND, 4.28	-- 28
50. 1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, ND, 2.27	-- 15
51. 1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, ND, 2.36	-- 16
52. 1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: ND, 2.84	-- 19
53. 1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; ND, 2.17	-- 14
54. 1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K; ND, 1.73	-- 11
55. 1993 --	<b>exposure to excessive natural cold/hypothermia</b> ; 641 US deaths; ND	-- 10
56. 2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; ND, 2.336	-- 15
57. 2003 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; ND, 2.661	-- 17
58. 2005 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; ND, 3.096	-- 20
59. 2012 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.4 per 100,000; ND rate 1.4	-- 10
60. 2013 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.2 per 100,000; ND rate 1.4	-- 10
61. 2014 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.4 per 100,000; ND rate 2.8	-- 21
62. 2015 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.6 per 100,000; ND rate 4.4	-- 33
63. 2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; ND rate 2.91	-- 22
64. 2019 --	<b>exposure to excessive natural cold, hypothermia</b> ; subset of 1,115 US deaths--	14
65. 2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; ND death rate 3.01	-- 23
66. 2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); ND 1,695 per 1M pop.-	1,292
67. 2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.60K deaths per 1M pop.; ND, 2.64K per M	-- 720

**Some Select/Notable Other North Dakota Large Loss-of-Life Events:<sup>650</sup>**

1801-02 --	<b>smallpox</b> , Arikara, Dakota, Hidatsa, Mandan, Sioux Native Americans <sup>651</sup>	-- ?
1889-90, June-May 1890,	<b>croup</b> , subset of 13,862 U.S. croup deaths	-- 13
1889-90, June-May,	<b>measles</b> , subset of 9,256 US measles deaths	-- 19
1900 --	<b>croup</b> ; upper airway contagious viral infection; ND subset; 12,484 US croup deaths--	29
1900 --	<b>diphtheria</b> (ND subset of 16,475 US diphtheria deaths in 1900)	-- 120
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths)	-- 25
1900 --	<b>measles</b> (subset of 12,866 US measles deaths)	-- 16

<sup>649</sup> At 2.660 deaths per 100,000 population, ND had highest state death rate in the US in 1975; average was 0.167.

<sup>650</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>651</sup> Have not seen estimate of death toll, only that smallpox spread from east westward. Smallpox death rate among Native populations could reach 30-50 percent. Can only guess that deaths could have been in hundreds or more.

**North Dakota (continued):**

1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths)	--	36
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	17
1900 --	<b>tuberculosis</b> , leading cause of death in ND in 1900; 109,750 US TB deaths	--	246
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	--	25
1912 --	Jan 10-13 especially, <b>coldwave and snowstorm</b> (subset of 228 US deaths)	--	5
1919 --	<b>diphtheria</b> (ND subset, 9,160 US diphtheria deaths)	--	32
1919 --	Aug 3-9, <b>wood alcohol poisoning</b> , Hannah, ND	--	5
1925 --	<b>diphtheria</b> (ND subset, 8,058 US diphtheria deaths)	--	37
1925 --	<b>dysentery</b> (ND subset, 3,257 US dysentery deaths)	--	13
1925 --	<b>influenza</b> (ND subset, 30,538 US influenza deaths)	--	100
1925 --	<b>meningococcus meningitis</b> (ND subset, 1,095 US meningitis deaths)	--	14
1925 --	<b>tuberculosis</b> (ND subset, 89,268 US tuberculosis deaths)	--	318
1925 --	<b>typhoid/paratyphoid fever</b> (ND subset, 8,287 US Typhoid Fever deaths)	--	24
1925 --	<b>whooping cough</b> (ND subset, 6,948 US whooping cough deaths)	--	73
1931 --	<b>epidemic cerebrospinal meningitis</b> , ND subset, 2,832 US meningitis deaths	--	16
1931 --	<b>diphtheria</b> , especially children (ND subset, 5,738 U.S. diphtheria deaths)	--	19
1931 --	<b>influenza</b> (ND subset of 31,701 influenza deaths nationwide)	--	117
1931 --	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--	190
1939 --	<b>whooping cough</b> (ND subset of 3,026 whooping cough deaths nationwide)	--	13
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); ND death rate 4.2	--	27
1944 --	<b>whooping cough</b> (ND subset of 1,878 whooping cough deaths nationwide)	--	11
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths	--	7
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for ND	--	58
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths, ND	--	15
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for ND	--	35
1953 --	<b>influenza</b> ; 9,500 US deaths; ND subset	--	50
1953 --	<b>polio</b> , subset of 1,450 US polio deaths, ND	--	8
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for ND	--	23
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; subset for ND	--	21
1954 --	Apr 03, <b>fire</b> , mother and six children die, farm house near Tuttle, ND	--	7
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; subset for ND	--	19
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; ND subset	--	15
1957 --	<b>influenza</b> ; 7,463 US deaths; subset for ND	--	44
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; subset for ND	--	17
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; subset for ND	--	15
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; ND death rate 2.5	--	16
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; ND 1.6	--	10
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; ND death rate 2.4	--	15
1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; ND death rate 0.8	--	5
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; ND death rate 1.9	--	12
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; ND death rate 1.7	--	11
1966 --	Mar 22-24, <b>Midwest blizzard/snowstorm</b> , 41-46 US deaths; ND	--	5
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for ND	--	21
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; ND death rate 1.64	--	10

1968	– Oct 04, <b>USAF B52 Stratofortress runway approach crash</b> near Minot AFB, ND--	4
1969	-- Jan 21, <b>USAF B52 takeoff crash</b> , incorrect trim, 1M from Minot AFB, ND	-- all 6
1971	-- <b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; ND death rate 1.12	-- 7
1979	-- exposure to excessive natural <b>cold/hypothermia</b> ; 356 US deaths; ND <sup>652</sup>	-- 9
1981	-- May 01, <b>Blain Helo Bell UH-1B crash</b> north of Williston, ND	-- all 8
1982	-- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, ND, 1.34	-- 9
1983	-- Dec 15-26, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	-- 5
1984	-- Feb 04-05, <b>blizzard</b> , CO poisoning (4), exposure (1), vehicular (2)	-- 7-9
1985	-- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, ND death rate 1.03	-- 7
1993	-- Dec 24-30, <b>coldwave, snow</b> and vehicular accidents	-- 5
1994	-- Feb 08, Fargo ND <b>van hits snowplow in whiteout</b> , I-94 near Alexandria, MN <sup>653</sup>	-- 7
2002	-- Jan 18, <b>train derailment, HazMat release</b> , Minot, ND	-- 1
2007	-- Oct 23, UND Piper 44 bird strike <b>plane crash</b> , Minneapolis to Grand Forks, ND	-- 2
2018	-- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., ND death rate 3.16--	24
2022	-- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; ND death rate 5.27	-- 402
2023	-- <b>COVID-19</b> , subset of 71,691 US deaths	-- 99

#### Breakout by Type of **North Dakota** Large Loss-of-Life Events (10 or more fatalities):

- 48 -- **Disease**, select communicable, especially epidemics. (Plus 59 in “Other.”)
- 10 -- **Winter Weather/Cold/Hypothermia**. (Plus 6 events 5-9 deaths each.)
- 2 -- **Rail** (Plus 1 with Hazardous Materials Release with 1 death.)
- 2 -- **Violence**.
- 1 -- **Aviation** (Plus 4: 4 deaths in 1968, 6 in 1969, 8 in 1981 and 2 in 2007 bird strike.)
- 1 -- **Fire, Prairie**
- 1 -- **Heat**
- 1 -- **Fire, Structural**. (Plus 1 with seven fatalities in “Other.”)
- 1 -- **Thunderstorms/Tornadoes**
- 0 -- **Wood Alcohol Poisoning** (1 with five deaths in “Other.”)

<sup>652</sup> At 1.38 deaths per 100,000 to cold/hypothermia/weather, ND had highest death rate in the US (avg. 0.16).

<sup>653</sup> Listed in ND given that all seven fatalities were from North Dakota; cross-listed in MN where crash occurred.



## OH

## Ohio

1. 1771 -- early, **Beaver 2<sup>nd</sup>** lost on Lake Erie near Sandusky, OH -- 17
2. 1774 -- Apr 30, Greathouse **VA force murder Mingos**, Yellow Creek/OH Riv., OH/WV<sup>654</sup> ~10
3. 1791 -- Jan 2, violence-**massacre**, Delaware & Wyandot attack Big Bottom settlers, OH-- 12
4. 1796 -- Aug-Sep, epidemic (reportedly **yellow fever**), Gallipolis, OH -- ≥11
5. 1816 -- June 9, steamboat **Washington** explosion, Ohio River, Point Harmar, OH -- ~10
6. 1822 -- June-Nov (esp. Sep-Oct) **yellow fever** Epidemic, Marietta, OH -- ~95
7. 1824 -- Mar 21-Apr 7, **smallpox** epidemic, Sandusky, OH -- 21
8. 1832 -- Oct 2-Nov 8, **cholera** epidemic, esp. Cincinnati (517) and Cleveland (64) -- 587
9. 1832 -- Oct 5, schooner **Eliza Whittlesey** capsizes, squall, Lake Erie off Ashtabula, OH-- 10
10. 1833 -- July (esp.), **cholera**, esp./ Cincinnati/307, Bridgeport/50, Dayton/33, OH -- ≥429
11. 1834 -- July-Oct, **cholera**, esp. Cincinnati, Fulton, Sandusky, Zoar, esp. Cleveland, OH--315
12. 1835 -- June 13-Aug 03, **cholera**, esp. Red Line (18), and West Union (16), OH -- 43
13. 1838 -- Apr 25, steamboat **Moselle** boiler explosion/fire, near Cincinnati, OH --81-200
14. 1847 -- June 09, ships collide, steamer **Chesapeake** sinks, Lake Erie, ~Conneaut, OH -- 8-10
15. 1848 -- Violence, **vigilante riot**, jailhouse, Cincinnati, OH -- 11
16. 1848 -- Jan 09, **Blue Ridge** boiler explosion, OH River, Raccoon Isl., ~Gallipolis, OH--15-30
17. 1849 -- **cholera**, esp. Cincinnati, also Sandusky, Dayton, Columbus Penitentiary<sup>655</sup> --7,581-9,919
18. 1849 -- Mar 31, steamer **Virginia** boilers explode, sinks, Ohio River, Rush Run, OH --14-16
19. 1850 -- Spring-Aug 23, **cholera**, esp. Cincinnati, Sandusky, Columbus, OH --2,037
20. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 28,957 OH deaths- -1,081
21. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571--2,568
22. 1850 -- **measles**; subset 2,988 US measles deaths (average was 83 per State/Ter.), OH-- 363
23. 1850 -- **scarlet fever**; subset 9,584 such deaths 36 States/Territories/DC (avg. 266) --1,301
24. 1850 -- **smallpox**; subset 2,353 smallpox deaths 31 states/4 territories/DC; avg. 65 -- 551
25. 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) --2,558
26. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 450
27. 1850 -- Apr 28, stmr. **Anthony Wayne** boiler explosion, Lake Erie, ~Vermilion, OH --38-69
28. 1850 -- June 17, steamer **G.P. Griffith** fire, Lake Erie, off Chagrin River mouth, OH--250-300
29. 1851 -- spring-fall, **cholera**, esp. Cincinnati, Waverly, Dodsonville, West Union --258-259
30. 1852 -- May-Sep esp., **cholera**, esp. Sandusky/68, Dayton/40, Cincinnati/~18, OH --138-139
31. 1852 -- July 12, **City of Oswego** sinks, collision *America*, L. Erie ~Willoughby, OH --15-20
32. 1852 -- Nov 11-12, Cleveland steamer **Oneida** sinks, Lake Erie storm, E off Barcelona, NY<sup>656</sup>-17-19
33. 1852 -- Nov 12, **Buckeye Belle** boiler explosion, Muskingum River, Beverly canal, OH-- 30
34. 1854 -- July, **cholera**, especially Cincinnati and Toledo, OH -- ≥272
35. 1855 -- Apr 02, **riot**, “Know-Nothings” vs. “Over the Rhine,” Cincinnati, OH --10-12
36. 1855 -- July-Aug, **cholera**, Cincinnati, OH -- 126
37. 1860 -- **croup** (contagious upper airway viral infection), subset, 15,188 US croup deaths -- 877
38. 1860 -- **measles** (OH subset of 3,900 measles deaths nationwide)<sup>657</sup> -- 448

<sup>654</sup> We note Ohio and West Virginia because while the murders occurred on today’s WV side, the natives lived across the Ohio River (in present-day Ohio) at a camp where Yellow Creek empties into the Ohio.

<sup>655</sup> Many other places such as tiny Eaton (113) in Preble County (63 in county outside Eaton), Harrison and vicinity, Springfield (91) and Walnut Township (37); plus sporadic deaths in Coalport and Toledo, as examples.

<sup>656</sup> The *Oneida* homeported out of Cleveland, where most of named crewmembers and their dependents lived.

<sup>657</sup> In terms of large loss of life to measles by State, OH was 2<sup>nd</sup>, behind New York with 746 measles deaths.

**Ohio (continued):**

39. 1860 -- **scarlet fever**; subset of 26,402 deaths in 38 Census States & DC<sup>658</sup> --3,417
40. 1860 -- **smallpox** (State subset of 1,263-1,271 smallpox deaths in reporting States)<sup>659</sup> -- 135
41. 1860 -- **tuberculosis** (“consumption”) (OH subset of 49,082 death nationwide)<sup>660</sup> --3,495
42. 1860 -- **typhoid fever** (OH subset of 19,236 deaths in 38 “registration” States/DC) --1,038
43. 1860 -- **whooping cough**; OH subset, 4<sup>th</sup> highest, 8,408 US whooping cough deaths -- 408
44. 1860 -- Mar 01, **building wall failure**, St. Francis Xavier Church, Cincinnati, OH -- 13
45. 1860 -- May 21, **tornado**, Louisville, KY to Portsmouth, OH -- 100
46. 1863 -- **smallpox**, Camp Chase Confederate Prisoner of War Camp, Columbus, OH -- >500
47. 1864 -- Feb-Jun 1865 (17 mo.), **dysentery/diarrhea**, Confederate POWs, Camp Chase, OH-- 226
48. 1864 -- Feb-June 1865/17 mo., **pneumonia/pleurisy**, Confederate POWs, Camp Chase OH-- 954
49. 1865 -- Feb 4-5, **bridge fails, train** falls into Lee’s Creek, burns, near Leesburg, OH --11-12
50. 1865 -- Mar 31, US Govt. transport **General Lyon** burns (~521-571), Cape Hatteras, NC<sup>661</sup>-- ~37
51. 1865 -- Apr 27, steamer **Sultana** boiler explosion/fire, Miss. Riv. Redman Pt. AR<sup>662</sup> -- 791
52. 1865 -- Aug 09, **Pewabic** collides with **Meteor**, sinks, Lake Huron, off Alpena, MI<sup>663</sup> -- ~10
53. 1866 -- July 11-Sep 4, **cholera** epidemic, Cincinnati, OH --1,200-1,406
54. 1868 -- Mar 18, steamer **Magnolia** boiler explosion/fire, OH River, ~California, KY<sup>664</sup>-- 35
55. 1868 -- June 20, **Morning Star & Cortland** collide & sink, Lake Erie, ~Black Riv. OH- 37-60
56. 1868 -- July 10-17, **excessive heat** and sunstrokes, OH, Cincinnati (39), Sandusky (3)-- 42
57. 1868 -- fall especially, **smallpox**, Cincinnati, OH -- 649
58. 1870 -- **croup** (OH subset of 10,692 deaths nationwide) -- 560
59. 1870 -- **diarrhoea** (794), **dysentery** (461), **enteritis** (629); U.S. Census data; OH --1,884
60. 1870 -- **diphtheria** (OH subset of 6,303 diphtheria deaths nationwide)<sup>665</sup> -- 474
61. 1870 -- **measles**, especially children (OH subset of 9,237 U.S. measles deaths)<sup>666</sup> -- 621
62. 1870 -- **scarlet fever**, especially children (OH subset of 20,339 deaths nationwide) -- 552
63. 1870 -- **smallpox** (OH subset, 4,597 US smallpox deaths), Cincinnati/93<sup>667</sup> -- 332
64. 1870 -- **tuberculosis** (Consumption) (OH subset of ~70,000 TB deaths nationwide) --5,225
65. 1870 -- **typhoid fever** (OH subset of 22,187 typhoid fever deaths nationwide) --1,280
66. 1870 -- **typhus** (OH subset of 1,770 typhus deaths nationwide) -- 80
67. 1870 -- **whooping cough** (OH subset of 9,008 whooping cough deaths nationwide) -- 574
68. 1871 -- **smallpox**, Cincinnati, OH --1,179
69. 1872 -- **smallpox**, especially Cincinnati (658), OH (>9,700 US smallpox deaths) -- 663
70. 1872 -- July 03, Atwater Slope coal **mine** fire, Atwater Township, Portage Co., OH -- 10
71. 1873 -- June 14-Oct 18, **cholera**, esp. Cincinnati (215), Columbus (45-69), OH --330-371

<sup>658</sup> In terms of large loss of life to scarlet fever by State, OH was 2<sup>nd</sup>, behind New York with 4,680 such deaths.

<sup>659</sup> In terms of large loss of life to smallpox by State, OH was 3<sup>rd</sup> after MA with 473 and NY with 303 such deaths.

<sup>660</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>661</sup> Noted here in that about 37 members of OH State military units, mostly paroled POWs, died in this loss.

<sup>662</sup> Reportedly 791 Ohio paroled soldiers (Union) onboard were killed (total loss an estimated 1,538-1,947).

<sup>663</sup> Cross-listed in Ohio in that the boat was home-ported and mostly crewed in Cleveland. Additionally passengers from Cleveland as well as from Tiffin and Titan, OH, were lost. The number lost may be higher.

<sup>664</sup> Cross-listed in Ohio in that the explosion took place about twelve miles below Cincinnati (boat’s designation) and more than ten of the fatalities (at least twelve) were Ohio residents.

<sup>665</sup> In terms of large loss of life to diphtheria by State, OH was 4<sup>th</sup> behind NY with 864, PA at 702 and IL with 603.

<sup>666</sup> In terms of large loss of life to measles by State, OH was 4<sup>th</sup> behind NY with 1,073, MO at 860 and IL with 702.

<sup>667</sup> In terms of large loss of life to smallpox by State, OH was 4<sup>th</sup> behind MO with 1,034, LA at 925 and NY at 582.

**Ohio (continued):**

72.	1873 --	<b>smallpox</b> , Cincinnati (48) and Cleveland (16)	-- 64
73.	1874 --	<b>scarlet fever</b> , especially children, Cincinnati, OH	-- 687
74.	1875 --	<b>smallpox</b> , Cincinnati (722) Portsmouth (19), Jackson (1), Sciotoville (2), OH	-- 745
75.	1876 --	<b>smallpox</b> , Cincinnati (915-929), Portsmouth (2)	--927-934
76.	1876 --	Feb 05, <b>gallery fails</b> , Robinson's Opera House, Cincinnati, OH	-- 12
77.	1876 --	Dec 29, <b>bridge collapse</b> under <b>train</b> , fire, Ashtabula, OH	--92~98
78.	1878 --	Summer, <b>excessive heat and sunstrokes</b> , Cincinnati, OH	-- ~10
79.	1878 --	Aug 07, <b>train collision</b> , Panhandle Rail, near Mingo Junction, OH	-- 15
80.	1878 --	Fall, <b>scarlet fever</b> epidemic, Cincinnati, OH	-- 181
81.	1878 --	Sep-Oct, <b>yellow fever</b> , especially Gallipolis (~32), Cincinnati (17-19), OH	--51-54
82.	1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 US croup deaths)--	533
83.	1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--1,688
84.	1879 --	June-May 1880, <b>malarial fever</b> ; subset, 20,231 such U.S. deaths; OH	-- 474
85.	1879 --	June-May 1880, <b>meningitis</b> (OH subset of 7,481 U.S. meningitis deaths)	-- 191
86.	1879 --	June-May 1880, <b>scarlet fever</b> , esp. children; subset, 16,388 US SF deaths; OH--	701
87.	1879 --	June-May 1880, <b>tuberculosis</b> ; subset, 91,270 US TB deaths; OH	--4,683
88.	1879 --	June-May 1880, <b>typhoid fever</b> ; subset of 23,339 US Typhoid deaths; OH	--1,046
89.	1879 --	June-May 1880, <b>whooping cough</b> ; subset, 11,064 US whoop cough deaths; OH--	350
90.	1881 --	<b>diphtheria</b> , especially Cleveland (178), Cincinnati (99) and Dayton (24)	-- 308
91.	1881 --	July 7-16, <b>heat and sunstroke</b> deaths, esp. Cincinnati (456), Dayton (30) OH	-- ≥585
92.	1881 --	Mar 06-Dec 31, <b>smallpox</b> , esp. Cincinnati (60), also Cleveland, Dayton, OH	--61-63
93.	1882 --	<b>smallpox</b> , Cincinnati (1249), Rowlesville (15), Dayton (12), elsewhere, OH	--1,328
94.	1882 --	July 04, steamboats collide, <b>Scioto</b> sinks, Ohio River, Mingo Junction, OH	-- ~70
95.	1883 --	Jan-Dec, <b>smallpox</b> , Cincinnati, OH	-- 189
96.	1883 --	Mar 30, <b>train accident</b> , Cincinnati Southern Rail, Mason's Station, OH	-- 53
97.	1884 --	Feb 16, Ohio River <b>flooding</b> , boarding house collapse, Cincinnati OH	--10-14
98.	1884 --	Mar 28-30, Hamilton County Courthouse <b>riot</b> , Cincinnati, OH	--45-56
99.	1885 --	May 21, <b>fire</b> , Sullivan's Printing building, 19 Sixth Street, Cincinnati, OH	-- 18
100.	1886 --	May 12, <b>flash flood</b> , Shawnee Creek, especially Barr's Bottom, Xenia, OH	-- 28
101.	1886 --	May 14, <b>tornadoes</b> , Mercer, Hardin, Hancock, Wyandot Counties, OH	-- 17
102.	1887 --	Jan 04, freight and passenger <b>trains collide</b> head-on, fire, Republic, OH	-- ~20
103.	1889 --	Jan 14, passenger and freight <b>trains collide</b> , burn, near Tallmadge, OH	-- 8-10
104.	1889-90,	June-May, <b>croup</b> , subset of 13,862 U.S. croup deaths	-- 695
105.	1889-90,	June-May, <b>diphtheria</b> ; subset of 27,815 US diphtheria deaths; OH <sup>668</sup>	--1,828
106.	1889-90,	June-May, <b>measles</b> , subset of 9,256 US measles deaths	-- 714
107.	1889-90,	June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--1,587
108.	1890 --	Jan-Mar, <b>influenza</b> (La Grippe/Russian Flu), esp. Cincin., Cleveland, Dayton	--1,248
109.	1891 --	<b>typhoid fever</b> , Cincinnati, OH	-- 286
110.	1891 --	July 03, freight and passenger <b>trains collide</b> , burn, at depot, Ravenna, OH <sup>669</sup> --	19
111.	1892 --	July 14, "cyclone" ( <b>tornado</b> ), Springfield, OH	-- 10
112.	1892 --	Sep 1, storm, <b>Western Reserve</b> (OH) sinks off Sable Banks ~Deer Park MI <sup>670</sup> -26-31	

<sup>668</sup> While U.S. average diphtheria death rate was 33.06 per 1000 deaths; Toledo was 197.73 and Cincinnati, 61.35.

<sup>669</sup> Cross-listed in NY -- all or virtually all of the fatalities were NY residents, mostly Corning, NY glassworkers.

**Ohio (continued):**

113. 1892 -- Sep 21, express & freight **trains collide**, fire, Fort Wayne road, Shreve, OH --11-13
114. 1892 -- Oct 4, Cleveland steam-barge **Nashua** sinks, Lake Huron gale, off Bayfield, Ont.<sup>671</sup>-14
115. 1893 -- Oct 13-14, Great Lakes storm; **OH maritime**, esp. out of Cleveland/Toledo --44-48  
 -- 7 Steamer **C. B. Benson**, homeported out of Toledo  
 --10-14 Steamer **Dean Richmond**, homeported out of Toledo  
 -- 6 Schooner **Minnehaha**, homeported and crew out of Cleveland  
 -- 7 Schooner **Riverside**, lost off Cleveland  
 -- 14 Freighter **Wocoken**, homeported and mostly? crewed out of Cleveland.
116. 1894 -- **diphtheria**, esp. Cincinnati, IL subset of  $\geq 14,606$  US diphtheria deaths -- 636
117. 1895 -- Feb 20-June 21, **smallpox**, Cincinnati, OH (subset of 633 US smallpox deaths)-- 24
118. 1895 -- Mar 08, fog, stmr. **Longfellow** hits C&O bridge pier/sinks, OH Riv., Cincinnati, OH--11-13
119. 1895 -- Nov 16, **streetcar** goes into Cuyahoga River, Cleveland, OH -- 17
120. 1896 -- **measles**, esp. Cincinnati (100), Cleveland (7), Toledo (3) Bellaire, Celina... -- 127
121. 1896 -- July 30-Aug 11, **heat**, Cincinnati, Cleveland, Galion and elsewhere, OH -- 25
122. 1897 -- **typhoid fever**, OH subset of  $\geq 9,192$  US typhoid deaths --1,213
123. 1897 -- July 03-10, **heat** (608-616 US Heat deaths), OH subset, esp. Cincinnati (65)-- 103
124. 1898 -- **typhoid** (OH subset  $>4,627$  deaths), esp. OH Vol. military units, US camps<sup>672</sup>--219
125. 1898 -- Mar 22-26, **flooding**, esp. Zanesville/Hamilton/Columbus/New Hagerstown--15-20
126. 1898 -- July 11, **gas explosion**, Lake Erie Water Works **Tunnel**, near Cleveland, OH-- 11
127. 1898 -- Sep 20, **grain dust explosion** and fire, Union grain elevator, Toledo, OH --14-15
128. 1900 -- **croup** (upper airway contagious viral infection; subset, 12,484 US croup deaths--554
129. 1900 -- **diphtheria** (OH subset, 16,475 US diphtheria deaths), esp. Cleveland & Toledo--698
130. 1900 -- **dysentery** (subset of 11,710 US dysentery deaths in 1900) -- 399
131. 1900 -- **influenza** (subset, 16,645 US influenza deaths) -- 605
132. 1900 -- **meningitis** (subset, 19,423 US meningitis deaths; 5<sup>th</sup> largest state loss) --1,189
133. 1900 -- **scarlet fever** (subset, 6,333 US scarlet fever deaths; 6<sup>th</sup> largest loss by state)-- 334
134. 1900 -- **tuberculosis** (53,362 OH deaths all causes) (109,750 US TB deaths) --5,789
135. 1900 -- **typhoid fever** (OH subset of 35,379 typhoid fever deaths nationwide) --1,795
136. 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths) -- 401
137. 1900 -- July-Aug (especially), **excessive heat** (subset of 1,266 US heat deaths) -- 32
138. 1900 -- Sep 12, freighter **John B. Lyon** sinks, Lake Erie storm, off Ashtabula, OH -- 11
139. 1901 -- June-July (esp.), **heat** (subset of 4,012 such deaths) esp. Cincinnati/Cleveland-- 48
140. 1901 -- Aug 14, waterworks **tunnel crib fire**, two miles off Cleveland Harbor, OH --12-13
141. 1901 -- Aug 18, **blast furnace explosion**, National Steel Co., Youngstown, OH -- 9-11
142. 1902 -- **smallpox**, especially Cleveland (233), Toledo (11), and Youngstown (16) -- 276
143. 1902 -- Oct 13, storm, **C.B. Lockwood**, lifeboat lost, Lake Erie, off Fairport Harbor, OH--10
144. 1903 -- **smallpox**, esp. Columbus/50, Cleveland/23; 4<sup>th</sup> high state;  $\geq 1,457$  US deaths-- 134
145. 1905 -- **tuberculosis**, 5 city subset, 56,770 Census area deaths (10 states/135 cities)<sup>673</sup> --2,130

<sup>670</sup> Cross-listed as well under Michigan in that the boat went down off the Michigan coast.

<sup>671</sup> Included in Ohio in that the Nashua was built in Cleveland and owned by Cleveland company.

<sup>672</sup> Represents 137 deaths of OH soldiers and 33 typhoid deaths in Columbus for the year.

<sup>673</sup> OH was not a Census registration State for death data. Data here is for 5 cities in OH which were registration cities – Cincinnati/864 (251.9 death rate per 100K pop.), Cleveland/559, Columbus/383, Ironton/31, Toledo/293 (189.1 death rate). Census area average death rate was 168.2.



**Ohio (continued):**

146. 1905 -- June 21, **train derails, sabotage**, Twentieth Century Limited, Mentor, OH --19-21
147. 1905 -- Aug 13, **trains collide**, Nickel Plate Road, Kishman, OH --12-15
148. 1907 -- **tuberculosis**; 5 cities: Cincinnati/822, Cleveland/638, Columbus/289, Dayton/176, Toledo/241--2,166
149. 1907 -- Mar 14-18, **flooding**, principally Ohio River, OH -- 32
150. 1908 -- Mar 04, **fire/trampling**, Lakeview Elementary School, Collinwood, OH --175-176
151. 1910 -- **polio**, esp. children, OH subset, 7<sup>th</sup> highest, 1,635 US polio deaths -- 76
152. 1910 -- **typhoid fever**; subset, 12,673 US deaths/21 states/death rate 23.5; OH, 27.5 --1,314
153. 1910 -- Apr 22, **mine** explosion, Youghiogheny & OH Coal Co., Amsterdam, OH -- 18
154. 1910 -- May 17, **boiler explosion**, American Sheet and Tin Plate Co., Canton, OH -- 13
155. 1910 -- July 04, **train collision** (head-on), Middletown, OH -- 23
156. 1911 -- **polio**; subset of 1,060 "registration area" deaths (63.1% pop.), OH (US high)-- 137
157. 1911 -- July 03-07, **heat**, especially, Cincinnati, Cleveland, Columbus, Toledo, OH --40-42
158. 1912 -- Jan 05-18 especially, **cold waves and snowstorms**; subset of 228 US deaths-- 14
159. 1912 -- Dec 03, **trains collide**, Dresden, OH -- 11
160. 1913 -- **heat**; 1,226 "registration area" (65% of US) deaths; subset for OH -- 178
161. 1913 -- **polio**, acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, OH-- 62
162. 1913 -- **measles**, 8,108 US "registration area" (65.1%) deaths; OH -- 679
163. 1913 -- Mar 23-27, heavy rain, **flooding**, esp. Dayton, Columbus, Hamilton --467-541
164. 1913 -- May 17, Noble **coal mine** explosion, Imperial Mining Co., Belle County OH-- 15
165. 1913 -- June 26-July 3, **heat**, especially Cleveland, OH<sup>674</sup> --67-195
166. 1913 -- Nov 7-10, Great Lakes storm, Cleveland freighter **Charles S. Price** lost, Lake MI<sup>675</sup>--28
167. 1914 -- **polio** (acute), esp. late sum.-fall, esp. children (subset of 720 US polio deaths), OH-- 58
168. 1915 -- **polio**; 691 registration area deaths (67.1% population); subset for OH -- 95
169. 1915 -- July 07, **windstorm**, Cincinnati, OH -- 38
170. 1916 -- Mar 29, three **train collision**, near Amherst, OH -- 27
171. 1916 -- May 15, **dynamite explos.**, adjacent site, Crystal Rest. collapses, Akron, OH-- 9-10
172. 1916 -- July 12-Aug 1, **excessive natural heat**, especially Cleveland, OH -- 26
173. 1916 -- July 24, **gas explosion**, Cleveland Waterworks **Tunnel**, Cleveland, OH --21-23
174. 1916 -- **polio**, Sum-Fall, esp. Toledo, Cleveland, Cincinnati, Columbus, Dayton -- 45
175. 1917 -- **influenza**; 12,974 US influenza deaths/death rate 17.2 per 100K; OH, 18.5 -- 962
176. 1917 -- **polio**, esp. June-Sep, esp. children; subset, 4<sup>th</sup> highest, 1,182 US polio deaths-- 125
177. 1918 -- Aug 05-14, **heat wave**; especially Cleveland/75 (294 US heat deaths) -- 111
178. 1918 -- **typhoid fever** (OH subset of 9,100 U.S. Typhoid Fever deaths) -- 771
179. 1918 -- Sep-Apr, 1919, **influenza and pneumonia** epidemic, OH --32,003  
     1918 -- Sep-Dec, **influenza and pneumonia** epidemic, OH 22,099  
     1919 -- Jan-Apr, **influenza and pneumonia** Epidemic, OH 9,904
180. 1918 -- Oct 03, **train runs into passengers in fog**, East Bedford, OH -- 20
181. 1919 -- **diphtheria** (OH subset, 9,160 US diphtheria deaths; 4<sup>th</sup> highest state loss) -- 647
182. 1919 -- Oct 29, **mine** fire, Amsterdam No. 2 Coal Mine, Amsterdam, OH -- 20
183. 1920 -- **diphtheria & croup** (OH subset, 13,395 such deaths, 34 registration states) -- 651

<sup>674</sup> Large range involves counting of infant deaths. Newspapers reported adults primarily. One account however, writes: "The intense heat of the summer in Cleveland has caused the deaths of 148 babies and thirteen adults."

<sup>675</sup> Barcus (Freshwater Fury, 1986, p. 7) writes "Twenty of the freighters that...disappeared or were stranded or pounded to pieces on the rocks were owned in Cleveland, and 186 men on those ships lost their lives."

**Ohio (continued):**

184.	1920	--	<b>influenza &amp; pneumonia</b> , esp. Cleveland, Cincinnati, Columbus, Toledo	--11,702
185.	1920	--	<b>measles</b> (OH subset of 7,712 measles deaths in 34 registration states)	-- 750
186.	1920	--	<b>scarlet fever</b> , OH subset (3 <sup>rd</sup> largest), 4,004 scarlet fever deaths, 34 registration states--	383
187.	1920	--	<b>smallpox</b> (OH subset of 508 smallpox deaths in 34 registration states)	-- 17
188.	1920	--	<b>tuberculosis</b> , especially Cincinnati, Cleveland, Columbus, Toledo, OH	--5,131
189.	1920	--	<b>typhoid</b> fever, subset, 3 <sup>rd</sup> highest, 6,805 typhoid deaths, 34 registration states--	435
190.	1920	--	<b>whooping cough</b> (OH subset, 10,968 whoop. cough deaths, 34 reg. states) <sup>676</sup> --	845
191.	1920	--	Mar 28, <b>tornadoes</b> , Darke, Defiance, Fulton, Henry, Lucas, other counties, OH--	29
192.	1921	--	<b>polio</b> , esp. late Sum.-Fall (OH subset, 7 <sup>th</sup> highest, 1,597 US polio deaths)	-- 85
193.	1924	--	June 28, OH <b>tornadoes</b> , Portage Co./3, Sandusky/9, esp. Lorain/>64, OH	-- ≥89
194.	1925	--	excessive <b>cold</b> , OH subset of 239 US excessive cold deaths	-- 11
195.	1925	--	<b>diphtheria</b> (OH subset, 4 <sup>th</sup> highest, 8,058 US diphtheria deaths)	-- 392
196.	1925	--	<b>dysentery</b> (OH subset, 3,257 US dysentery deaths)	-- 93
197.	1925	--	<b>excessive heat</b> ; OH subset, tied for 6 <sup>th</sup> highest, 1587 US excessive heat deaths--	52
198.	1925	--	<b>influenza</b> (OH subset, 2 <sup>nd</sup> highest, 30,538 US influenza deaths)	--2,100
199.	1925	--	<b>measles</b> (OH subset of 2,404 measles deaths in 40 "registration" states)	-- 81
200.	1925	--	<b>meningococcus meningitis</b> , OH subset, 4 <sup>th</sup> highest, 1,095 US meningitis deaths-	53
201.	1925	--	<b>polio</b> (OH subset, 4 <sup>th</sup> highest polio loss in a state; 1,518 US polio deaths)	-- 68
202.	1925	--	<b>scarlet fever</b> (OH subset, 3 <sup>rd</sup> highest, 2,762 US scarlet fever deaths, 48 states)--	252
203.	1925	--	<b>smallpox</b> (OH subset, 5 <sup>th</sup> highest, 709 US smallpox deaths in 1925, 48 states)--	47
204.	1925	--	<b>tuberculosis</b> (OH subset, 5 <sup>th</sup> highest, 89,268 US tuberculosis deaths)	--4,819
205.	1925	--	<b>typhoid/paratyphoid fever</b> (OH subset, 8,287 US Typhoid Fever deaths)	-- 333
206.	1925	--	<b>whooping cough</b> (OH subset, 4 <sup>th</sup> highest, 6,948 US whooping cough deaths)--	374
207.	1925	--	Sep 3, Navy <b>dirigible Shenandoah</b> upset by storm/breakup/crash ~Marietta OH--	14
208.	1926	--	July 19-21, <b>excessive natural heat</b> , especially Cleveland, OH	-- 30
209.	1927	--	<b>polio</b> (Acute) esp. late Summer-Fall (OH subset, 2,013 U.S. polio deaths)	-- 165
210.	1927	--	July 13-16, <b>heat</b> , especially Cleveland, also Youngstown, Columbus, OH	-- 10
211.	1929	--	Jan 22, <b>train</b> Hits Greyhound <b>bus</b> , near Bellevue, OH	-- 20
212.	1929	--	May 15, <b>fire</b> , Cleveland Clinic (hospital), Cleveland, OH	-- 125
213.	1930	--	Jan 22, <b>train</b> hits school <b>bus</b> , Sheldon Road Crossing, Berea, OH	-- 10
214.	1930	--	Apr 21, <b>fire</b> , Ohio State Penitentiary, Columbus, OH	--320-322
215.	1930	--	July 29, sandsucker <b>George J. Whelan</b> capsizes/sinks/squall/cargo shift ~Dunkirk NY <sup>677</sup> --	15
216.	1930	--	Nov 05, Sunday Creek Coal <b>Mine</b> No. 6 methane explosion, Millfield, OH	-- 82
217.	1931	--	<b>epidemic cerebrospinal meningitis</b> ; OH subset, 2,832 meningitis deaths)	-- 111
218.	1931	--	<b>diphtheria</b> , especially children (OH subset, 5,738 U.S. diphtheria deaths)	-- 188
219.	1931	--	<b>influenza</b> (OH subset, 2 <sup>nd</sup> highest, of 31,701 US influenza deaths)	--1,936
220.	1931	--	<b>measles</b> , especially children (OH subset, 3,576 measles deaths nationwide)	-- 153
221.	1931	--	<b>polio</b> , esp. July-Oct, (OH subset, 2,139-2,144 US polio deaths, esp. children)--	47
222.	1931	--	<b>tuberculosis</b> ; subset of 81,395 US TB deaths	--4,253
223.	1931	--	summer <b>excessive natural heat</b> , esp. June 20-July 3, and July 16-18, OH	-- 169
224.	1932	--	Apr 14, <b>natural gas explosion</b> , State Office Building, Columbus, OH	-- 10
225.	1932	--	June 07, explosion/ <b>fire/arson/mass murder</b> , Ellington Apts., Cleveland <sup>678</sup>	-- 13

<sup>676</sup> 3<sup>rd</sup> largest loss of life in a state to whooping cough, behind PA with 1,195 and NY with 1,063.

<sup>677</sup> Cross-listed herein because the Whelan was an Ohio vessel and at least ten of the dead had OH residences.

**Ohio (continued):**

226. 1933 -- Feb 07-12, **cold waves, winter storms**, blizzard-like conditions, esp. Cleveland- 12  
 227. 1934 -- summer, **excessive natural heat**; subset of 3,250 US heat deaths; OH -- 240  
 228. 1936 -- Jan 18-28, **winter snow storms and extreme cold**, statewide, OH --43-57  
 229. 1936 -- Feb 01-20 especially, **arctic cold waves, snowstorms** (273 US deaths), OH -- 16  
 230. 1936 -- July-Aug (especially), **heat** (4,678-5,418 US heat deaths), OH subset -- 434  
 231. 1936 -- Oct 17, Can. **Sand Merchant** sinks, Lake Erie storm, US water off Avon Pt., OH--19  
 232. 1937 -- Jan 22-Feb 3, **flooding**, Ohio River, especially Cincinnati, OH --15-20  
 233. 1938 -- May 24, **plane fire and crash**, United Airlines flight 9, near Cleveland, OH-- 10  
 234. 1939 -- **diphtheria**, esp. Jan-Mar, Sep-Dec (OH subset, 1,997 US diphtheria deaths)-- 58  
 235. 1939 -- **tuberculosis** (OH subset of 61,609 tuberculosis deaths nationwide) --2,692  
 236. 1939 -- **influenza and pneumonia** (OH subset, 99,097 US flu/pneumonia deaths) --5,443  
 237. 1939 -- summer, **excessive natural heat** (subset of 527-1,073 US heat deaths), OH -- 27  
 238. 1940 -- **influenza and pneumonia** (OH subset, 92,525 US flu/pneumonia deaths) --4,851  
 239. 1940 -- **polio**, esp. children (OH subset, 4<sup>th</sup> highest, 1,026 US polio deaths) -- 62  
 240. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); OH death rate 14.5--1,004  
 241. 1940 -- **tuberculosis** (OH subset of 55,576 tuberculosis deaths nationwide) --2,569  
 242. 1940 -- Whooping Cough (OH subset of 2,926 US whooping cough deaths) -- 128  
 243. 1940 -- Mar 16, Hanna Coal Co. Willow Grove #10 **mine** explos., ~St. Clairsville, OH-- 72  
 244. 1940 -- July 31, gasoline-electric & freight **trains collide/fire**, Cuyahoga Falls, OH -- 43  
 245. 1940 -- Nov 29, coal **mine** explosion, Nelms No. 1, NE of Cadiz, OH -- 31  
 246. 1941 -- **measles**, especially children (OH subset of 2,279 measles deaths nationwide)-- 115  
 247. 1942 -- Feb 22, towboat **G. W. McBride** hits bridge pier, **sinks**, Ohio R., Cincinnati -- 16  
 248. 1942 -- Dec 02, tug **Admiral** sinks, Lake Erie storm, ~10m off Avon Pt. Cleveland, OH--14  
 249. 1942 -- Dec 03, tanker-barge **Cleveco** sinks, Lake Erie Blizzard 6m No. Euclid, OH -- 18  
 250. 1943 -- Jan 25, **plane crash**, U.S. Army Air Force B-17, New Albany, OH -- 12  
 251. 1943 -- Mar 24, fragmentation bombs **explosion**, Portage Ordnance Depot, Portage, OH-11  
 252. 1944 -- **cerebrospinal meningitis** (OH subset, 2,812 US cerebrospinal meningitis deaths)-- 198  
 253. 1944 -- **influenza** (OH subset, 17,320 US influenza deaths), esp. Jan-Apr, Dec --1,168  
 254. 1944 -- **measles**, especially Jan-June (OH subset of 1,923 US measles deaths) -- 139  
 255. 1944 -- **polio**, the year, especially July-Nov (OH subset of 1,070 U.S. polio deaths) -- 88  
 256. 1944 -- **tuberculosis** (OH subset of 54,731 tuberculosis deaths nationwide) --2,787  
 257. 1944 -- **whooping cough** (OH subset of 1,878 whooping cough deaths nationwide) -- 87  
 258. 1944 -- Apr 27, ships collide, freight **James H Reed** sinks, Lake Erie **fog**, off Ashtabula, OH--12  
 259. 1944 -- July 05, Powhatan Coal **Mine** fire, Powhatan Point, ~Bellaire, OH -- 66  
 260. 1944 -- Oct 20, **LNG tank explosion** & fire, East Ohio Gas Co., Cleveland, OH --128-136  
 261. 1946 -- **polio**, especially July-Nov (OH subset of 1,845 polio deaths nationwide) -- 59  
 262. 1946 -- Feb 02, **explosion/fire**, Jennings Hall Home for Aged, Garfield Heights, OH-- 14  
 263. 1946 -- Dec 13, **Golden Triangle passenger train hits wrecked freight trains** ~Coulter, OH--19  
 264. 1947 -- Aug 04-13, **heat**, OH [US excessive heat deaths for year was 540] OH -- 8-11  
 265. 1948 -- **polio**, esp. children (OH subset, 7<sup>th</sup> highest, 1,895 US polio deaths) -- 87  
 266. 1949 -- **polio**, especially July-Nov; ~2,725 US polio deaths; subset for OH -- 102  
 267. 1950 -- **measles**, especially children; OH subset, 4<sup>th</sup> highest, 468 US measles deaths-- 27  
 268. 1950 -- **polio**, especially July-Nov (OH subset of 1,904 polio deaths nationwide) -- 117

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<sup>678</sup> Cross-listed in Fire-Structural and in Violence—Arson.

**Ohio (continued):**

269. 1950 -- July 13, **USAF B-50** plunges to earth/unknown cause, ~Mason, Lebanon, OH--all 16
270. 1950 -- Sep 11, **train Spirit of St. Louis hits stopped PA NG troop train**, Isleta, OH-- 33
271. 1950 -- Nov 24-27, winter **"Storm of the Century,"** subset for OH --64-70
272. 1951 -- **measles**, 688 US deaths; subset for OH (3<sup>rd</sup> highest US state loss) -- 39
273. 1951 -- **polio**, especially July-Nov (OH subset of 1,551-1,555 US polio deaths) -- 55
274. 1951 -- **tuberculosis**, 31,163 US deaths, subset for OH, 6<sup>th</sup> highest in the US --1,459
275. 1951 -- Jan 27-Feb 4, **cold waves/winter storms/ice/sleet/snow** (175-200 US), OH -- 30
276. 1952 -- **influenza**; 5,649 US deaths; subset for OH (3<sup>rd</sup> highest US state loss) -- 335
277. 1952 -- **measles**, 621 US deaths; 24 states double digits; OH (8<sup>th</sup> highest US state loss)-- 22
278. 1952 -- **polio**, esp. children, especially Akron and Cleveland, OH -- 176
279. 1952 -- **tuberculosis** (respiratory): 22,700 US deaths; OH (6<sup>th</sup> highest US state loss)-- 995
280. 1953 -- **excessive natural heat**, 576 US heat deaths, esp. Aug 22-Sep 5, esp. Cleveland-- 29
281. 1953 -- **influenza**; 9,500 US deaths; OH subset (2<sup>nd</sup> highest in the US) -- 532
282. 1953 -- **measles**, 483 US deaths, 23 states in double digits; subset for OH -- 17
283. 1953 -- **polio**, especially children (OH subset of 1,450 polio deaths nationwide) -- 95
284. 1953 -- **tuberculosis** (respiratory); 17,954 US deaths; OH subset (6<sup>th</sup> high US state) -- 876
285. 1953 -- **whooping cough**; 271 US deaths, 11 States double digits; OH/3<sup>rd</sup> highest -- 17
286. 1953 -- June 08, **tornadoes**, Wood, Sandusky, Erie, Lorain, Cuyahoga Counties, OH-- 18
287. 1954 -- **encephalitis**, acute infectious (viral); 407 US deaths, esp. NY/52 PA/31; OH-- 18
288. 1954 -- **influenza**, 2,696 US deaths, esp. TX/228, AL/180, GA/162; OH, 5<sup>th</sup> US high-- 143
289. 1954 -- **measles**; 524 US deaths; 21 states double digits; OH 7<sup>th</sup> highest US state loss-- 25
290. 1954 -- **polio**, acute; 1,400 US deaths; OH subset (6<sup>th</sup> highest US state loss) -- 71
291. 1954 -- **scarlet fever**/streptococcal sore throat; 263 US deaths; OH subset -- 11
292. 1954 -- **tuberculosis** (respiratory); 15,146 US deaths; OH, 6<sup>th</sup> highest US state loss -- 688
293. 1954 -- **whooping cough**/pertussis; 375 US deaths, 17 states double digits, OH subset-- 21
294. 1954 -- Mar 01-04, **snow storms**/winter weather, esp. Cleveland, OH --23-24
295. 1955 -- **influenza**; 2,755 US deaths; OH had largest US state loss of life -- 187
296. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); OH subset -- 37
297. 1955 -- **tuberculosis** (respiratory); 13,676 US TB deaths; OH subset (in top ten states)--612
298. 1955 -- **whooping cough**/pertussis, 476 US deaths/15 states in double digits; OH -- 15
299. 1955 -- Aug 10, **explosion (sewer gas?) & fire**, Gateway Restaurant, Andover, OH -- 22
300. 1956 -- **influenza**, 2,323 US deaths; OH had 3<sup>rd</sup> highest US state death toll -- 134
301. 1956 -- **measles**, 530 US deaths/21 states in double digits; OH 3<sup>rd</sup> highest US state loss-- 30
302. 1956 -- **polio**/acute, 566 US deaths/15 states in double-digits; OH subset -- 18
303. 1956 -- **scarlet fever/streptococcal sore throat**; 240 US deaths; OH tied 2<sup>nd</sup> high state--14
304. 1956 -- **tuberculosis** (respiratory), 12,978 US deaths; OH (5<sup>th</sup> highest US state loss)-- 617
305. 1956 -- Feb 27, **USAF B-50 Superfortress crash**, Wilmington Pike, Dayton OH --all 11
306. 1956 -- Mar 16 & 18, **snowstorms**; US deaths in 14 states 95-138; OH subset --10-12
307. 1957 -- **influenza**; 7,463 US deaths; OH subset (4<sup>th</sup> highest US state loss of life) -- 471
308. 1957 -- **polio**, acute; 221 US deaths; six double digit states; CA, IL IN MI OH TX; OH--13
309. 1957 -- **scarlet fever**/streptococcal sore throat; 213 US deaths/5 states double digits, OH-- 12
310. 1957 -- **tuberculosis** (respiratory); 12,384 US deaths; OH subset (6<sup>th</sup> US state high) -- 572
311. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) --2,887
312. 1958 -- **influenza**; 4,442 US deaths; OH subset (3<sup>rd</sup> highest in US behind TX & AL)-- 260



**Ohio (continued):**

313. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including OH (2<sup>nd</sup> highest)-- 36
314. 1958 -- **polio** (acute); 255 US deaths; 11 states in double digit deaths; OH (2<sup>nd</sup> highest)-- 20
315. 1958 -- **tuberculosis**; 12,361 US TB deaths; OH subset (6<sup>th</sup> highest loss of all States)-- 550
316. 1958 -- Feb 6-18, **coldwave and snow storms**, OH (3<sup>rd</sup> highest State death toll) -- 34
317. 1959 -- **influenza**; 2,845 US deaths; OH subset (3<sup>rd</sup> largest State death toll) -- 166
318. 1959 -- **measles**, especially children; 385 US deaths; OH subset -- 12
319. 1959 -- **polio** (acute, as opposed to late effects of); 454 US deaths; OH subset -- 13
320. 1959 -- **tuberculosis**; 11,456 US TB deaths; OH subset -- 527
321. 1959 -- **whooping cough** (pertussis); 269 US deaths, especially children; OH subset-- 11
322. 1959 -- Jan 21-24, heavy rain, **flooding** statewide, OH --16-17
323. 1959 -- Mar 18, **station-wagon** (Beavercreek Girl Scouts) hit by **train**, ~Xenia, OH --all 10
324. 1959 -- July 01, Continental Can Co. corporate **plane crash**, near Marion, OH --all 10
325. 1961 -- **influenza**, 2,137 US deaths/death rate 1.2 per 100K; OH death rate 1.5 -- 152
326. 1960 -- **measles**, especially children (380 US measles deaths); subset for OH -- 17
327. 1960 -- Mar 02-05, **snowstorm**, (186-193 US deaths), OH -- 18
328. 1960 -- Oct 29, Arctic-Pacific (football team charter) **takeoff crash**, Toledo Express AP-- 22
329. 1961 -- **measles**; 434 US deaths/death rate 0.2 per 100K; OH death rate 0.3 -- 27
330. 1961 -- Feb 03-05, **blizzard-like snow storm**, OH -- 12
331. 1962 -- **influenza**; 3,431 US deaths/death rate 1.8 per 100K; OH death rate 2.8 -- 284
332. 1962 -- May 10, **explosion**, chemical reactor (acrylic polyamide), Toledo, OH -- 10
333. 1962 -- Sep 04, Ashland Oil Co. **plane loses right wing/crashes** ~Lake Milton, OH-- 13
334. 1962 -- Dec 06-15, **snowstorms/cold-wave** >26 States ~east half US (188-238) --29-38
335. 1963 -- **influenza**, 7,083 US deaths/death rate 3.8; OH death rate 4.9 -- 502
336. 1963 -- Jan 22-28, **cold waves, snow** (subset of 315-352 US deaths, Jan 18-28) --32-38
337. 1963 -- Nov 23, **fire**, Golden Age Nursing/Rest Home, Fitchville, OH -- 63
338. 1964 -- **influenza**; 1,687 US deaths/death rate 0.9 per 100K; OH death rate 1.0 -- 102
339. 1964 -- Jan 12-14, **snowstorm and coldwave**, esp. NE US (146-167), OH --14-21
340. 1964 -- Apr 18, two USAF C119 **Flying Boxcars collide** 6M NE, Clinton County AFB, OH-- 17
341. 1965 -- **influenza**, 2,295 US deaths/death rate 1.2 per 100K; OH death rate 1.4 -- 145
342. 1965 -- Jan 15-19, **blizzards/snow/cold**; 68-70 US deaths; OH subset --11-12
343. 1965 -- Apr 11, Palm Sunday Midwest **tornado outbreak**, 260-271 US deaths; OH --58-60
344. 1966 -- **influenza**; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for OH -- 135
345. 1966 -- **excessive natural heat**, subset of 613 US heat deaths, OH -- 10
346. 1966 -- **meningococcal infections**, 876 US deaths, esp. CA/109, TX/59, OH/50; OH-- 50
347. 1966 -- **tuberculosis**, 7,625 US TB deaths; subset for OH -- 340
348. 1966 -- Nov 29, **Daniel J. Morrell** (Cleveland) breaks/sinks, Lake Huron storm, off MI--28
349. 1967 -- Mar 05, **plane breakup/crash**, Lake Central Air Flight 527, ~Marseilles, OH-- 38
350. 1967 -- Mar 09, **mid-air collision**, TWA Flight 553 and Beechcraft 55, Urbana, OH-- 26
351. 1967 -- Dec 15, **Silver Bridge collapse**, OH Riv., Pt. Pleasant, WV, Gallipolis, OH<sup>679</sup>-- 46
352. 1968 -- **excessive natural cold**; ICD-8 code E901; subset of 494 of US cold deaths; OH-- 22
353. 1968 -- **excessive natural heat**, ICD-8 code E900; subset of 231 US heat deaths; OH-- 19
354. 1968 -- Dec 8-Mar 1, A2 Hong Kong **influenza-pneumonia** epidemic, OH<sup>680</sup> -- 581

<sup>679</sup> Cross-listed in West Virginia. Thirty-one cars fell into the river or onto the Ohio shoreline.

<sup>680</sup> Just CDC reporting cities: Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Toledo and Youngstown.

**Ohio (continued):**

355.	1969 --	<b>excessive natural cold</b> ;	ICD-8 code E901; 424 US deaths; OH	--	17
356.	1969 --	<b>influenza</b> ,	ICD-8 codes 470-474; 5971 US deaths/death rate 2.96 per 100K; OH 3.1--332		
357.	1969 --	<b>polio</b> ;	ICD-8 codes 040-044; 110 US deaths; OH	--	10
358.	1969 --	July 04, thunderstorms/ <b>flooding, strong wind</b> /tornadoes, esp. north-central OH <sup>681</sup> -42			
359.	1970 --	excessive <b>natural cold</b> ;	ICD-8 code E901; 466 US deaths; OH	--	12
360.	1970 --	<b>influenza</b> ;	ICD-8 codes 470-474; 3707 US deaths/death rate 1.8 per 100K; OH 1.9 <sup>682</sup> -197		
361.	1970 --	Jan 09, <b>fire</b> (cigarette), Harmer House Convalescent Home, Marietta, OH <sup>683</sup> --31-32			
362.	1971 --	excessive natural <b>cold</b> ;	ICD-8 code E901; 361 US deaths; OH	--	12
363.	1971 --	<b>influenza</b> ,	ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths, OH 0.8--88		
364.	1971 --	Feb 08-09, <b>snowstorm and Arctic coldwave</b> ,	OH	--	14
365.	1972 --	<b>chickenpox</b> ;	122 US deaths; OH tied with CA and NY for US high	--	12
366.	1972 --	excessive natural <b>cold</b> ,	code E901, 490 US deaths; OH (3 <sup>rd</sup> highest state loss)--		24
367.	1972 --	<b>influenza</b> ,	ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; OH 2.7--		286
368.	1972 --	Jan 26, Green Nursing Home <b>fire</b> <sup>684</sup> (10 patients), Lincoln Heights, OH	--all		10
369.	1974 --	exposure to <b>excessive natural cold</b> ;	ICD-8 code E901; 348 US deaths; OH	--	17
370.	1974 --	<b>influenza</b> ,	ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; OH/1.2--		131
371.	1974 --	Apr 03, super <b>tornado outbreak</b> ,	multiple counties, esp. Xenia, OH	--	40-42
372.	1974 --	Dec 01-02, <b>snowstorm</b> ,	heart attacks shoveling heavy and deep snow, OH	--	≥12
373.	1975 --	exposure to excessive natural <b>cold</b> (ICD-8 E901);	359 US deaths; OH	--	10
374.	1975 --	Mar 30, <b>mass murder</b> ,	James Ruppert shoots relatives, Hamilton, OH	--	11
375.	1976 --	exposure to <b>excessive natural cold/hypothermia</b> ;	424 US deaths; OH	--	14
376.	1977 --	<b>cold/hypothermia</b> ,	exposure to excessive natural; 634 US deaths; OH <sup>685</sup>	--	43
377.	1977 --	Jan 26-Feb 1, <b>winter storms/blizzards/coldwave</b> (116 US deaths), OH	--		20
378.	1977 --	Dec 05-12, <b>snowstorms and coldwave</b> (≥114 US deaths)		--	22
379.	1978 --	exposure to <b>excessive natural cold/hypothermia</b> ;	652 US deaths; OH <sup>686</sup>	--	39
380.	1978 --	<b>tuberculosis</b> ,	2,914 US TB deaths; OH had 7 <sup>th</sup> highest US TB loss of life	--	127
381.	1978 --	Jan 25-27, <b>blizzard/deep cold</b> ,	statewide, 143-146 US deaths subset, OH <sup>687</sup>	--	51-55
382.	1979 --	<b>influenza</b> ,	604 US flu deaths/death rate 0.27 per 100K; OH rate 0.31	--	33
383.	1979 --	July 31, <b>arson fire</b> (smoke inhalation deaths), Holiday Inn, Cambridge, OH	--		10
384.	1979 --	Nov 11, <b>fire</b> , Coats Boarding House, Pioneer, OH	--		14
385.	1979 --	Dec 03, <b>crushing/trampling</b> disaster, WHO Concert Cincinnati, OH	--		11
386.	1980 --	exposure to <b>excessive natural cold/hypothermia</b> ;	302 US deaths; OH	--	13

<sup>681</sup> 26 drownings, 8 from falling trees, 6 by electrocution from downed electrical wires; 1 lightning; 1 from injuries.

<sup>682</sup> OH had third highest State loss of life to influenza in 1970, behind TX with 230 and NC with 208.

<sup>683</sup> 32 deaths initial finding. Later it was thought one might have been due to unspecified natural causes.

<sup>684</sup> Overheated furnace running on manual rather than automatic (and had not been turned off to cool down). The owner, her grandson and a nurse escaped.

<sup>685</sup> Higher loss of life to cold/hypothermia than any other State. We are aware of four hypothermia deaths in Jan 26-Feb 1 event and three during the Dec 5-12 event. Thus, presumably, those deaths included here.

<sup>686</sup> According to CDC Wonder, OH had the highest loss of life to hypothermia of any state in 1978. There is double-counting from the Jan 25-27, 1978 statewide blizzard and deep cold wherein we fine 26-27 hypothermia deaths, with thirteen within snowbound vehicles and thirteen within homes with no heat, and one possible additional cold death.

<sup>687</sup> We note 5 carbon monoxide poisoning deaths, one elderly man in flooded home basement, 26-27 hypothermia, 1 burn death due to window blown out by blizzard and furnace burning hot and causing fire, 9 heart attacks from shoveling snow or disaster response related, 3 due to inability of medical assistance to reach those in need due to weather, 2 structural failures and one vehicular death when snowmobiler ran into a fence.

**Ohio (continued):**

387.	1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, OH, 2.07	--	224
388.	1980 --	June-Aug (especially), <b>heat</b> (ICD-9 E900 code for excessive natural heat)	--	20
389.	1981 --	exposure to <b>excessive natural cold/hypothermia</b> ; 289 US deaths; OH	--	11
390.	1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, OH, 1.46	--	158
391.	1982 --	Jan 10-17, <b>winter weather (extreme cold, ice and snow storms)</b> , OH	--	13
392.	1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, OH rate 0.85	--	91
393.	1983 --	summer <b>heat</b> , esp. late July-Aug, deaths in 7 counties, esp. Butler/4; US/597--	15	
394.	1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, OH rate 0.43	--	46
395.	1984 --	Feb 27-29, <b>snowstorms</b> ; heart attacks/snow removal/17; vehicular/3; expos./1--	21	
396.	1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, OH, 0.89	--	96
397.	1985 --	Jan 19-23, <b>winter weather, exposure/hypothermia</b> , OH	--	10
398.	1985 --	May 31, <b>tornadoes</b> , Licking, Portage, Trumbull, Niles, Hubbard Counties, OH--	11	
399.	1986 --	exposure to <b>excessive natural cold/hypothermia</b> ; 301 US deaths; OH	--	10
400.	1987 --	exposure to <b>excessive natural cold/hypothermia</b> ; 326 US deaths; OH	--	12
401.	1988 --	exposure to <b>excessive natural cold/hypothermia</b> ; 431 US deaths; OH	--	13
402.	1988 --	summer <b>excessive natural heat</b> , especially Hamilton County, OH (16)	--	25
403.	1989 --	exposure to <b>excessive natural cold/hypothermia</b> ; 524 US deaths; 1989	--	12
404.	1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; OH, 0.73	--	79
405.	1990 --	exposure to <b>excessive natural cold/hypothermia</b> ; 596 US deaths; OH	--	23
406.	1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; OH, 0.88	--	96
407.	1990 --	Feb 24, <b>blizzard</b> and <b>32-car pile-up</b> with 9 deaths; many other accidents	--	12
408.	1990 --	June 14, <b>flash flood</b> , Shadyside and vicinity, OH	--	26
409.	1991 --	exposure to <b>excessive natural cold/hypothermia</b> ; 588 US deaths; OH	--	18
410.	1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; OH, 0.64	--	70
411.	1992 --	exposure to <b>excessive natural cold/hypothermia</b> ; 558 US deaths; OH	--	21
412.	1993 --	exposure to <b>excessive natural cold/hypothermia</b> ; 641 US deaths; OH	--	24
413.	1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; OH, 0.51	--	57
414.	1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; OH, 0.62	--	69
415.	1994 --	exposure to <b>excessive natural cold/hypothermia</b> ; 633 US deaths; OH <sup>688</sup>	--	19
416.	1994 --	Jan 14-20, <b>winter extreme cold and snow</b> , OH	--	16
417.	1995 --	exposure to <b>excessive natural cold/hypothermia</b> ; 553 US deaths; OH	--	24
418.	1995 --	<b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, OH, 0.241	--	21
419.	1995 --	summer <b>heat</b> , esp. Aug 1-3 (5), Aug 8-22 (13), esp. Cleveland area, OH	--	18
420.	1996 --	exposure to <b>excessive natural cold/hypothermia</b> ; 685 US deaths; OH	--	15
421.	1997 --	exposure to <b>excessive natural cold/hypothermia</b> ; 501 US deaths; OH	--	12
422.	1997 --	<b>influenza</b> , code 487.0; US death rate 0.26 per 100K (720 US deaths); OH, 0.44--	50	
423.	1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; OH, 0.67	--	76
424.	1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; OH, 0.31	--	35
425.	1999 --	exposure to <b>excessive natural cold/hypothermia</b> ; 598 US deaths; OH	--	21
426.	1999 --	summer <b>heat</b> , esp. July 12-Aug 1, especially Hamilton Co./Cincinnati metro--	38	
427.	2000 --	exposure to <b>excessive natural cold/hypothermia</b> ; 742 US deaths; OH	--	24
428.	2001 --	exposure to <b>excessive natural cold/hypothermia</b> ; 599 US deaths; OH	--	15
429.	2001 --	exposure to <b>excessive natural heat</b> ; 538 US deaths; subset for OH	--	10

<sup>688</sup> We know of five hypothermia deaths during the Jan-14-20 winter storm.

**Ohio (continued):**

430.	2002 -- exposure to	excessive natural cold/hypothermia;	646 US deaths; OH	--	16
431.	2002 -- exposure to	excessive natural heat,	626 US deaths, subset for OH	--	19
432.	2003 -- exposure to	excessive natural cold/hypothermia;	620 US deaths; OH	--	20
433.	2003 --	influenza, ICD-10 codes J09-11.8;	US death rate 0.618 per 100K; OH, 0.69	--	79
434.	2004 -- exposure to	excessive natural cold/hypothermia;	676 US deaths; OH	--	28
435.	2004 --	influenza, ICD-10 codes J09-11.8;	US death rate 0.376 per 100K; OH, 0.65	--	74
436.	2004 -- Sep 12,	arson fire, Lincoln Park West Apartments,	Prairie Township OH	--	10
437.	2005 -- exposure to	excessive natural cold/hypothermia;	700 US deaths; OH	--	16
438.	2005 -- exposure to	excessive natural heat;	939 US deaths, subset for OH	--	14
439.	2005 --	influenza, ICD-10 codes J09-11.8;	US death rate 0.613 per 100K; OH, 0.80	--	92
440.	2006 -- exposure to	excessive natural cold/hypothermia;	519 US deaths; OH	--	16
441.	2006 -- exposure to	excessive natural heat;	1,104 US deaths, subset for OH	--	14
442.	2006 --	influenza, ICD-10 codes J09-11.8;	US death rate 0.285 per 100K; OH, 0.32	--	37
443.	2007 -- exposure to	excessive natural cold/hypothermia;	711 US deaths; OH	--	19
444.	2007 -- exposure to	excessive natural heat;	582 US deaths, subset for OH	--	15
445.	2008 -- exposure to	excessive natural cold/hypothermia;	641 US deaths; OH	--	21
446.	2008 -- exposure to	excessive natural heat;	502 US deaths, subset for OH	--	13
447.	2009 -- exposure to	excessive natural cold/hypothermia;	616 US deaths; OH	--	18
448.	2009 --	diarrhoea/gastroenteritis, infectious origin;	US death rate 0.9 per 100K; OH 1.0	--	113
449.	2009 --	H1N1 swine flu, especially fall/winter,	(subset of >12,000 U.S. deaths)	--	52
450.	2010 --	diarrhoea/gastroenteritis, infectious origin;	US death rate 0.9 per 100K; OH 1.0	--	121
451.	2010 -- exposure to	excessive natural cold/hypothermia;	710 US deaths; OH	--	28
452.	2010 -- exposure to	excessive natural heat;	874 US deaths, subset for OH	--	11
453.	2011 -- exposure to	excessive natural cold/hypothermia;	0.22 death rate; OH, 0.18	--	21
454.	2011 -- exposure to	excessive natural heat,	1,060 US deaths, subset for OH	--	15
455.	2011 --	influenza, ICD-10 codes J09-J11.8;	US death rate 0.5 per 100,000; OH, 0.6	--	66
456.	2012 --	diarrhoea/gastroenteritis, infectious origin;	US death rate 0.8 per 100K; OH, 0.9	--	106
457.	2012 -- exposure to	excessive natural cold/hypothermia;	501 US deaths; OH	--	12
458.	2012 -- exposure to	excessive natural heat;	879 US deaths; subset for OH	--	20
459.	2013 --	diarrhoea/gastroenteritis, infectious origin;	US death rate 0.8 per 100K, OH 0.9	--	109
460.	2013 -- exposure to	excessive natural cold/hypothermia;	725 US deaths; OH	--	22
461.	2013 -- exposure to	excessive natural heat;	651 US deaths, subset for OH	--	11
462.	2014 --	diarrhoea/gastroenteritis, infectious origin,	US death rate 0.8 per 100K; OH 0.9	--	100
463.	2014 -- exposure to	excessive natural cold/hypothermia;	930 US deaths; OH	--	43
464.	2014 --	influenza, ICD-10 codes J09-11.8;	US death rate 1.4 per 100K; OH rate 1.8	--	212
465.	2015 -- exposure to	excessive natural cold/hypothermia,	815 US deaths; OH	--	39
466.	2015 --	influenza, ICD-10 codes J09-11.8;	US death rate 1.6 per 100K; OH rate 1.8	--	213
467.	2016 -- exposure to	excessive natural cold/hypothermia;	731 US deaths; OH	--	33
468.	2016 -- exposure to	excessive natural heat,	786 US deaths, subset for OH	--	13
469.	2017 -- exposure to	excessive natural cold/hypothermia;	804 US deaths; OH	--	28
470.	2017 -- exposure to	excessive natural heat;	817 US deaths, subset for OH	--	13
471.	2017 --	influenza; 6,515 US deaths/death rate 2.0 per 100K pop.;	OH rate 2.26	--	264
472.	2017 --	tuberculosis, IDC-10 code A16-19;	515 US deaths/death rate 0.16; OH 0.17	--	17
473.	2018 -- exposure to	excessive natural cold/hypothermia;	1,028 US deaths; OH	--	39



474.	2018 -- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for OH	-- 22
475.	2018 -- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., OH rate 3.97	-- 464
476.	2019 -- exposure to <b>excessive natural cold/hypothermia</b> ; 1,115 US deaths; OH	-- 52
477.	2019 -- exposure to <b>excessive heat deaths</b> ; subset of 915 US deaths, OH	-- 13
478.	2019 -- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, OH rate 1.85	-- 216
479.	2019 -- Aug 04, <b>mass shooting</b> outside bar (9 deaths), police kill shooter, Dayton, OH	--10
480.	2020 -- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; OH death rate 2.04	-- 239
481.	2020 -- <b>COVID-19</b> ; 354,215 US Covid deaths/1,070 per 1M; OH, 767 per 1M pop.	--8,962
482.	2021 -- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; OH, 2.5K per M	--20,485
483.	2020 -- exposure to <b>excessive natural heat</b> ; 1,184 US deaths; subset for OH	-- 18
484.	2021 -- <b>influenza</b> ; 608 US deaths/death rate 0.18; OH death rate 0.19	-- 22
485.	2021 -- exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; OH 0.42	-- 49
486.	2021 -- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for OH	-- 16
487.	2022 -- Dec 23-26, winter <b>snow-storm</b> , cold and related Newcomerstown home fire	-- 16
488.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; OH death rate 9.82	--11,481
489.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for OH	-- 13
490.	2023 -- <b>COVID-19</b> , subset of 71,691 US deaths	--2,178
491.	2023 -- exposure to <b>excessive natural heat</b> ; 2,155 US deaths, subset for OH	-- 13

#### Some Select/Notable Other **Ohio** Large Loss-of-Life Events:<sup>689</sup>

1850 --	<b>scurvy</b> , 54 scurvy deaths in Census survey of 31 states/4 terr./DC; subset for OH	-- 5
1851 --	Oct 15, <b>fire</b> , German Catholic Orphan Asylum, Cincinnati, OH	-- 6
1873 --	<b>smallpox</b> , Cincinnati, OH	-- 48
1877 --	<b>smallpox</b> , Cincinnati, OH	-- 56
1879 --	June-May 1880, <b>measles</b> , esp. children (OH subset, 8,254 US measles deaths)	-- 164
1885 --	<b>diphtheria and croup</b> , especially children, Cincinnati, OH	-- 80
1899 --	Feb 08-12 especially, <b>arctic cold, snow</b> , wind, exposure deaths	-- 8
1900 --	<b>malarial fever</b> (OH subset of 14,874 US malarial fever deaths)	-- 156
1900 --	<b>measles</b> (OH subset of 12,866 US measles deaths)	-- 166
1900 --	<b>smallpox</b> (OH subset, 8,484 US smallpox deaths)	-- 35
1901 --	<b>smallpox</b> , especially Cleveland (20), OH	-- ≥26
1904 --	Sep 23, school outhouse <b>floor collapses</b> , girls 8-14 drown, Pleasant Ridge, OH	-- 9
1905 --	<b>epidemic cerebrospinal meningitis</b> ; 5,114 such deaths in US	-- 27
1907 --	<b>typhoid fever</b> , 19 cities, esp. Cincinnati/161, Cleveland/90, Toledo/60, Columbus/57	-- 523
1909 --	Apr 21, <b>windstorm</b> , south Lake Erie coastal area, especially, Cleveland, Ohio	-- 9
1910 --	Apr 30-July 26 (especially), <b>smallpox</b> , especially Cleveland, OH	-- 13
1913 --	Nov 08-10, Great Lakes <b>winter storm</b> , on-land deaths (Cleveland/5-6; Akron/1)	-- 6-7
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; OH rate 4.8	-- 239
1915 --	Dec-Jan 1916, <b>influenza and pneumonia</b> subset of larger epidemic, Cincinnati	-- 186
1918 --	Jan 11-12, <b>extreme cold, snow storm/blizzard</b> , OH	-- 9
1919 --	~Aug 26-31, <b>botulism from canned California olives</b> , country club, Canton, OH	-- 7
1919 --	Dec 25-30, <b>wood alcohol poisoning</b> , OH	-- 6
1924 --	Dec 25-28, <b>coldwave</b> and winter weather-related deaths, OH subset of US 51	-- 9

<sup>689</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

Some select other **Ohio** events (continued):

1925 --	<b>malaria</b> (OH subset of 2,132 malaria deaths in 1925)	--	12
1925 --	Dec 22, coal <b>mine</b> fire, Webb Coal Mine, Bellaire, OH	--	9
1926 --	Nov 01, <b>truck</b> hits street car head-on, is hit by following truck, fire, Dayton, OH	--	8
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; OH death rate 2.3	--	155
1934 --	Apr 15, Nevin Western <b>bus</b> hits truck on side of road, near Elyria, OH	--	6
1939 --	<b>whooping cough</b> (OH subset of 3,026 whooping cough deaths nationwide)	--	89
1942 --	May 31, fishermen <b>drown, large Lake Erie Wave</b> hits north coast of OH	--	7
1942 --	four USAAF Bell P-30 <b>planes crash</b> in <b>snowstorm</b> near Lima, OH	--	4
1945 --	Mar 5, <b>USAAF C-60A Lodestar</b> pilot loses control on takeoff, crashes into hangar; Dayton OH--	8	
1945 --	May 27, <b>USAAF XP-55 Ascender crash</b> debris hits car, air show, Wright Field, Dayton OH--	5	
1947 --	May 22, <b>USAF C-97</b> , test flight crash into pasture and explosion near Dayton, OH--	5	
1949 --	Jan 23, <b>US Navy Douglas R4D (DC-3)</b> flew into ground, bad weather, ~Toledo OH--	5	
1949 --	Sep 05, <b>plane crash</b> , P-51 Mustang, Cleveland Air Races, OH	--	3
1951 --	<b>whooping cough</b> ; 960 US deaths; subset for OH	--	18
1952 --	<b>whooping cough</b> (pertussis); 406 US deaths/16 states double digits; subset for OH--	15	
1954 --	<b>heat, excessive</b> (especially July), state subset of 978-984 heat-related deaths, OH	--	9
1954 --	Apr 03, <b>explosion/fire</b> , kerosene poured in home stove, Glouster, OH	--	6
1957 --	Dec 04, <b>snowstorm</b> , OH	--	7-8
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; OH death rate 3.9	--	379
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; OH death rate 5.1	--	491
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; OH death rate 4.7	--	468
1962 --	<b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population; OH death rate 0.1	--	14
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; OH death rate 4.1	--	409
1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; OH death rate 0.2	--	18
1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; OH death rate 4.3	--	441
1963 --	<b>whooping cough</b> (pertussis); 115 US deaths; OH	--	6
1964 --	<b>scarlet fever and streptococcal sore throat</b> ; 95 US deaths; OH	--	6
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; OH death rate 3.9	--	391
1964 --	Mar 04-05, <b>flooding</b> , Ohio River and tributaries, OH	--	5
1965 --	<b>measles</b> , 276 US deaths/death rate 0.1 per 100,000, OH death rate 0.1	--	13
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; OH death rate 3.6	--	374
1966 --	Jan 29-31, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; OH	--	8
1968 --	<b>chickenpox</b> ; ICD-8 code 052; 99 US polio deaths; OH	--	6
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; OH 3.47--	367	
1968 --	<b>polio</b> ; ICD-8 codes 040-044; 130 US polio deaths; OH	--	8
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; OH death rate 2.51	--	266
1968 --	Mar 13, Mead Paper Co. <b>jet landing crash</b> , icy runway, Wood Co. AP ~Parkersburg WV <sup>690</sup> --	6	
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; OH death rate 2.63	--	279
1970 --	<b>measles/rubeola</b> ; ICD-8 code 055; especially TX/17, IL/9, OH/6	--	6
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; OH 2.16--	231	
1970 --	May 04, Kent State University demonstration and <b>shooting</b> , Kent State, OH	--	4
1971 --	<b>measles/rubeola</b> ; ICD-8 code 055; 90 US deaths; OH	--	5
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; OH death rate 1.84	--	198

<sup>690</sup> Listed here in that the plane was owned and operated by an OH company and the six victims lived in Ohio.

Some select other **Ohio** events (continued):

1972 --	<b>tuberculosis</b> ;	4,376 US deaths, death rate 2.09 per 100K; OH death rate 1.90	--	204
1973 --	<b>influenza</b> ;	ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; OH rate 2.13	--	229
1973 --	<b>tuberculosis</b> ;	3,875 US deaths/death rate 1.84 per 100K; OH, 1.23 per 100K	--	132
1974 --	<b>tuberculosis</b> ;	3,513 US TB deaths/death rate 1.65 per 100K; OH rate 1.26	--	135
1975 --	<b>influenza</b> ;	ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; OH, 1.86	--	200
1975 --	<b>tuberculosis</b> ;	3,333 US TB deaths/death rate 1.55 per 100K; OH, 1.24	--	134
1976 --	<b>chickenpox</b> ;	106 US chickenpox deaths/death rate 0.05 per 100K; OH, 0.05	--	5
1976 --	<b>influenza</b> ;	ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; OH 3.1-	339	
1976 --	<b>tuberculosis</b> ;	3,130 US TB deaths/death rate 1.44 per 100K; OH, 0.99	--	106
1977 --	<b>influenza</b> ;	1,305 US flu deaths/death rate 0.59 per 100K; OH, 0.56	--	60
1977 --	<b>tuberculosis</b> ;	2,968 US TB deaths/death rate 1.35 per 100K; OH, 0.97	--	105
1978 --	<b>chickenpox</b> ;	91 US chickenpox deaths/death rate 0.04 per 100K, OH, 0.06	--	6
1978 --	<b>influenza</b> ;	4,052 US flu deaths/death rate 1.82 per 100K; OH, 1.58	--	171
1978 --	<b>polio</b> (Acute poliomyelitis, ICD-8 codes 040-045),	death rate 0.04 per 100K, OH, 0.05	--	5
1979 --	<b>tuberculosis</b> ;	2,007 US TB deaths/death rate 0.89 per 100K; OH, 0.80	--	86
1980 --	<b>tuberculosis</b> ;	1,978 US TB deaths/death rate 0.87 per 100K; OH, 0.51	--	55
1981 --	<b>chickenpox</b> ;	OH subset, 84 US deaths/death rate 0.04 per 100K; OH, 0.06	--	6
1981 --	<b>tuberculosis</b> ;	1,937 US TB deaths/death rate 0.84 per 100K; OH, 0.63	--	68
1982 --	<b>influenza</b> ;	727 US flu deaths/death rate 0.31 per 100K, OH, 0.16	--	17
1982 --	<b>tuberculosis</b> ;	1,807 US TB deaths/death rate 0.78 per 100K, OH, 0.48	--	52
1982 --	Apr 06-07, <b>blizzard</b> (snow, high wind, deep cold),	OH	--	7-9
1983 --	<b>tuberculosis</b> ;	1,779 US TB deaths/death rate 0.76 per 100K; OH, 0.68	--	73
1983 --	Dec 23-30, <b>winter weather</b> ,	severe cold/exposure deaths, snow, icy roads	--	9
1984 --	<b>tuberculosis</b> ;	1,729 US TB deaths, death rate 0.73 per 100K; OH, 0.41	--	44
1984 --	Mar 08-09, <b>winter weather</b> ,	severe cold and snow, icy roads	--	5
1985 --	<b>tuberculosis</b> ;	1,752 US TB deaths, death rate 0.74 per 100K; OH, 0.49	--	53
1986 --	<b>influenza</b> ;	1,838 US flu deaths; death rate 0.76 per 100K: OH, 0.65	--	70
1986 --	<b>tuberculosis</b> ;	1,782 US TB deaths, death rate 0.74 per 100K; OH, 0.34	--	36
1987 --	<b>HIV AIDS</b> ;	13,468 deaths/US death rate 5.55 per 100K population; OH, 1.69	--	182
1987 --	<b>influenza</b> ;	632 US flu deaths, death rate 0.26 per 100K population; OH rate 0.24	--	26
1987 --	<b>tuberculosis</b> ;	1,755 US TB deaths, death rate 0.72 per 100K pop., OH, 0.45	--	48
1988 --	<b>HIV AIDS</b> ;	16,602 deaths/US death rate 6.8 per 100K population; OH, 2.16	--	233
1988 --	<b>influenza</b> ;	1,943 US flu deaths, death rate 0.79 per 100K population; OH, 0.63	--	68
1988 --	<b>tuberculosis</b> ;	1,921 US TB deaths, death rate 0.78 per 100K pop.; OH, 0.44	--	47
1989 --	<b>HIV AIDS</b> ;	22,082 US deaths, death rate 8.9 per 100K population; OH, 3.60	--	390
1989 --	<b>tuberculosis</b> ;	1,970 US TB deaths, death rate 0.80 per 100K pop.; OH, 0.57	--	62
1990 --	<b>tuberculosis</b> ;	1,810 US TB deaths, death rate 0.73 per 100K pop.; OH rate 0.49	--	53
1991 --	<b>tuberculosis</b> ;	1,713 US TB deaths, death rate 0.68 per 100K pop., OH rate 0.37	--	40
1991 --	Nov 12, <b>Chenoweth Construc. Co. Cessna engine failure approach crash</b> ,	3M Port Columbus Int. AP, OH-5		
1992 --	<b>influenza</b> ;	1,006 US deaths, death rate 0.39 per 100K population, OH rate 0.28	--	31
1992 --	<b>tuberculosis</b> ;	1,705 US TB deaths, death rate 0.66 per 100K pop.; OH rate 0.34	--	25
1993 --	<b>meningococcal meningitis</b> ;	US deaths 260, death rate 0.10 per 100K; OH, 0.09	--	16
1993 --	<b>tuberculosis</b> ;	1,631 US TB deaths/death rate 0.63 per 100K pop.; OH death rate 0.31--	34	
1993 --	Mar 13-14, <b>Superstorm</b> of 1993, OH		--	6

**Ohio (continued):**

1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K pop., OH, 0.29	--	46
1994 --	Feb 08-13, <b>winter storm</b> , ice and snow, 6 traffic fatalities and 1 hypothermia, OH--	--	≥7
1994 --	Jan 07, <b>Atlantic Coast Airlines too-slow approach stall and crash</b> ~Columbus IAP, OH--	--	5
1994 --	July 24, <b>private Piper crash upon takeoff</b> due to too-low climb, Minford, OH	--	5
1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K pop.; OH, 0.29	--	33
1996 --	<b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; OH, 0.231	--	26
1996 --	<b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K; OH 0.32	--	36
1996 --	July 8, <b>Mid-Ohio Aviation hovering spin and crash</b> , pilot alcohol impairment. Salem OH--	--	5
1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K pop., OH, 0.25	--	28
1997 --	Mar 01-02, <b>flash floods</b> and flooding, deaths in Adams, Brown, Gallia, Pike Co.	--	5
1998 --	Aug-Feb 1999 -- <b>listeria tainted hot dog and deli meat food poisoning</b> deaths	--	21
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; OH, 0.582	--	66
1999 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, death rate 0.333 per 100K; OH, 0.265	--	30
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; OH, 0.608	--	69
2000 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.276 per 100K; OH, 0.238	--	27
2001 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.268 per 100K; OH, 0.193	--	22
2002 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; OH, 0.219	--	25
2002 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.273 per 100K, OH, 0.175	--	20
2002 --	Nov 10, <b>tornadoes</b> , especially Putnam, Seneca and Van Wert Counties, OH	--	5
2003 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.25 per 100K; OH, 0.20	--	23
2004 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.22 per 100K; OH, 0.20	--	23
2005 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.22 per 100K; OH, 0.17	--	19
2005 --	May 21, <b>arson fire</b> , House during child's birthday sleepover, Cleveland OH	--	9
2006 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.22 per 100K; OH, 0.13	--	15
2007 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.14 per 100K; OH, 0.14	--	16
2007 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.184 per 100K; OH, 0.174	--	20
2007 --	Mar 02, <b>bus</b> crash, Baseball Team Bus, Bluffton University, OH	--	7
2008 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; OH, 0.49	--	56
2008 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.19 per 100K; OH, 0.12	--	14
2008 --	Sep 14, <b>Hurricane Ike remnant wind and rain storm</b> , OH	--	7
2009 --	<b>influenza</b> (avian), ICD-10 code J09; US death rate 0.5 per 100K; OH, 0.3	--	35
2009 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100K; OH, 0.1	--	14
2010 --	<b>influenza</b> , US death rate 0.2 per 100K (500 deaths); OH, 0.1	--	11
2010 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.2 per 100K; OH, 0.1	--	13
2010 --	<b>viral hepatitis</b> , ICD-10 codes B15-B19; US death rate 2.4 per 100K; OH, 1.8	--	206
2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US & OH death rate 0.9 per 100K	--	101
2011 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100,000, OH, 0.1	--	14
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; OH, 2.0	--	233
2012 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; OH, 0.4	--	41
2012 --	<b>viral hepatitis</b> , ICD-10 codes B-15-B19, US death rate 2.6 per 100,000; OH, 1.8	--	204
2012 --	<b>tuberculosis</b> , ICD-10 code A16-A19; US death rate 0.2 per 100,000; OH had 0.1	--	13
2012 --	June 30-July 13, <b>heat</b> , heat-related illnesses, esp. elderly in Licking Co., OH	--	7
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; OH, 1.7	--	201
2013 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100K; OH rate was 1.1	--	133



2013 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.2 per 100K; OH rate 0.1	--	13
2013 --	Mar 10, <b>speeding SUV</b> (teens) hits guardrail, flips into pond near Warren, OH	--	6
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; OH, 1.8	--	210
2014 --	<b>tuberculosis</b> , ICD-10 code A16-A19; US death rate 0.2 per 100,000; OH rate 0.1	--	14
2014 --	Jan 01-07, <b>winter storms</b> and polar vortex cold wave; subset, 44-45 US deaths	--	5-6
2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US & OH death rate 0.8 per 100K	--	97
2015 --	exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for OH	--	9
2015 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US and OH death rate 0.1 per 100,000	--	16
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; OH 1.6	--	181
2015 --	Nov 10, company <b>jet crash into apartment bldg.</b> on airport approach, Akron, OH	--	9
2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US & OH death rate 0.7 per 100K	--	79
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; OH death rate 1.0	--	120
2016 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.9 per 100,000; OH rate 0.9	--	104
2016 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100K; OH rate 0.1	--	10
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; OH, 1.3	--	152
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; OH rate 1.10	--	128
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; OH death rate 1.08	--	126
2018 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; OH subset	--	15
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; OH rate 0.92	--	107
2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; OH 0.85	--	99
2020 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; OH	--	15
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; OH death rate 0.95	--	112
2023 --	Nov 14, <b>five-vehicle chain-reaction-crash</b> when semi hits SUV, I-70, Etna Twp, OH	--	6

#### Breakout by Type of **Ohio** Large Loss-of-Life Events (10 or more fatalities):

244 --	<b>Disease</b> , especially communicable, especially epidemics (Plus 129 in "Other.")
73 --	<b>Winter Weather, Cold, Hypothermia.</b> (Plus 12 events 5-9 deaths each.)
46 --	<b>Heat.</b> (Plus 3 years with 7-9 deaths.)
31 --	<b>Maritime and Inland Waterways.</b> <sup>691</sup>
21 --	<b>Rail</b>
13 --	<b>Fire, structural.</b> (Plus two -- one with 9 and one with 6 dead in "Other.")
13 --	<b>Violence.</b> (Plus 2 -- one with 9, and one with 4 deaths.)
11 --	<b>Aviation.</b> (Plus 12 events noted with 3-9 deaths each.)
11 --	<b>Explosions.</b> (Plus one with 6 dead.)
10 --	<b>Mining/Tunneling.</b> (Plus 1 with 9 deaths.)
10 --	<b>Tornadoes</b> (Plus 1 with 5 fatalities in 2002 in "Other.")
9 --	<b>Flooding.</b> (Plus 2 floods, 5 deaths each in March 1964 and 1997.)
5 --	<b>Structural Failures.</b> (Plus one with 9 deaths.)
5 --	<b>Vehicular.</b> <sup>692</sup> (Plus 6 events noted with 6-9 deaths each.)
3 --	<b>Fog as a Contributing Factor</b> (cross-listed in Aviation, Rail and Maritime)
2 --	<b>Wind Storms.</b> (Plus 4-21-1909 wind storm/9 deaths, and Hurricane Ike remnant/7.)
1 --	<b>Poisoning (unintentional).</b> (Plus 6 deaths in 1998-1999 listeria-tainted hot dog deaths.)

<sup>691</sup> Includes OH soldiers (mostly paroled or released POWs) killed in the burning of the *General Lyon* off Cape Hatteras, NC, on March 31, 1865, and MS River *Sultana* explosion near Redmond Point, AR, April 27, 1865.

<sup>692</sup> This includes the Silver Bridge Collapse, cross-listed in Structural Failures. Thirty-one cars fell with the bridge.

**Ohio (continued):**

- 0 -- Drowning.** 5-31-1942, fishermen drown when “wall of water” Lake wave hits.
- 0 -- Wood Alcohol Poisoning.** (But one with 6 deaths Dec 25-30, 1919.)

## OK

## Oklahoma

1. 1833 -- Early Sum., Cutthroat Gap **massacre**, Osage attack Kiowa, ~Saddle Mt., OK -- ~150
2. 1849 -- Late July-Aug 20, **cholera**, Fifth Infantry, Fort Gibson, OK Territory -- 17
3. 1853 -- **cholera**, Choctaw emigrants on Arkansas Riv. while enroute to Wheelock, OK<sup>693</sup>--14
4. 1862 -- Oct 24, **massacre** of Tonkawa by pro-Union Natives near Anadarko, OK --136-150
5. 1864 -- Sep 16, Rebel Indian/Texan force **murder** black Union soldiers, Flat Rock, OK--≤40
6. 1867 -- July-Sep especially, **cholera**, esp. US troops/Natives, esp. Fort Arbuckle/135 -- ≥350
7. 1868 -- Nov 27, "Battle" of the Washita, Custer **attack** on Cheyenne village, OK -- 103
8. 1872 -- Apr 15, **shoot-out**, U.S. Marshals & Cherokees, Indian Court House (IT), OK-- 11
9. 1882 -- July-Dec, **smallpox**, Indian Territory, esp. Osage Agency --40-45
10. 1882 -- May 08, **tornadoes**, Alfalfa, Johnston, and Pittsburg Counties, OK -- 25
11. 1887 -- Apr 04, coal **mine** dust explosion, Old Savanna #2, Savanna, OK -- 18
12. 1887 -- Sep 22~, **trains collide**, near Guthrie (Indian Territory), OK<sup>694</sup> --?8-10
13. 1892 -- Jan 07, Osage Coal **Mine** No. 11, blasting explodes gas/dust, Krebs, OK -->75-100
14. 1893 -- Apr 25, **tornadoes**, Cleveland, Grady, Logan, McClain, Payne counties, OK -- 37
15. 1897 -- Mar 30, **tornado**, Lincoln County, OK -- 14
16. 1897 -- Apr 28, **flash flood**, Cottonwood River, Guthrie and vicinity, OK --28-50
17. 1900 -- **typhoid fever** (OK subset of 35,379 typhoid fever deaths nationwide) -- 201
18. 1902 -- Jan 13, **mine** fire, Milby & Dow Coal Mine, Dow, OK -- 10
19. 1902 -- May 5, Cloudburst, **flash flood**, Foss, OK -- 9-12
20. 1905 -- Apr 30, **mine** explosion, No. 19 Coal Mine, Wilburton, OK -- 13
21. 1905 -- May 10, F5 **tornado**, Lock hamlet & esp. Snyder, Kiowa Co. & area, OK --97~120
22. 1906 -- Jan 24, **mine** explosion, Poteau No. 6 Coal Mine, Witteville, OK -- 14
23. 1908 -- Aug 26, coal **mine** fire, Hailey-Oklahoma No. 1, Haileyville, OK -- 29
24. 1909 -- May 29, **flash floods**, Creek and Lincoln Counties, OK -- 10
25. 1909 -- May 29, **tornadoes**, Depew and Key West, OK -- 15
26. 1909 -- Oct 21, coal **mine** explosion, Rock Island No. 8, Hartshorne, OK --10-11
27. 1910 -- Mar-Nov, **smallpox**, especially Grady and Oklahoma Counties, OK -- 99
28. 1910 -- Nov 28, Jumbo Asphalt **Mine** gas explosion, Durant, OK -- 13
29. 1911 -- Dec 01-June 8, 1912, **meningitis** outbreak, OK -- 161
30. 1912 -- **smallpox**, OK (ranked 7<sup>th</sup> highest in terms of loss of life by State) -- 15
31. 1912 -- Mar 20, **mine** explosion, McCurtain #2, San Boise Coal, McCurtain, OK -- 73
32. 1912 -- Apr 27, **tornadoes** (7), OK -- 29
33. 1914 -- Sep 04, **mine** cave-in, No. 1 Coal Mine, Adamson, OK -- 13
34. 1915 -- Sep 27, **explosion**, gasoline **rail tank car**, Ardmore, OK --40-44
35. 1916 -- Mar 24, **tornadoes**, Garvin, Murray and Pontotoc Counties, OK -- 10
36. 1917 -- Jan 04, **tornado**, Vireton, Pittsburg County, OK -- 17
37. 1917 -- June 01, **tornado**, Coal County, OK -- 14
38. 1917 -- Sep 28, **trains collide**, near Kellyville, OK -- 33
39. 1918 -- Jan 12, **fire**, boys dorm., Dwight Indian Mission School, Marble City, OK -- 13
40. 1918 -- Apr 13, **fire**, State Hospital for the Insane, Norman, OK --39-40
41. 1918 -- Sep-Apr, 1919, **influenza and pneumonia** epidemic, OK --7,558  
     1918 -- Sep-Dec, **influenza and pneumonia** epidemic, OK --5,304

<sup>693</sup> It is possible the deaths occurred in Arkansas.

<sup>694</sup> Have not located sufficient material to be confident of the date or the number of fatalities.

1919 -- Jan-Apr, **influenza and pneumonia** epidemic --2,254

**Oklahoma (continued):**

42.	1919 -- Mar 15,	<b>tornadoes</b> ,	Dover, ~Hinton, Kingfisher, Porter, Weatherford, OK	-- 9-14
43.	1919 -- Apr 09,	<b>tornadoes</b> ,	Fannin, Bryan, Coal, Pontotoc Counties, OK	-- 12
44.	1919 -- June 30,	<b>mine</b> explosion,	Alderson No. 5 Coal Mine, Alderson, OK	-- 15
45.	1920 -- May 02,	<b>tornado</b> ,	Peggs (Cherokee County), OK	-- 71
46.	1920 -- June 30,	coal <b>mine</b> explosion,	Alderson No. 5, Alderson, OK	-- 15
47.	1920 -- Aug 21,	<b>mine</b> explosion,	No. 19 Coal Mine, Degnan, OK	-- 10
48.	1921 -- May 31-Jun 1,	<b>race riot</b> ,	whites attack blacks, Greenwood area, Tulsa, OK <sup>695</sup>	--39-100
49.	1922 -- Mar 13,	<b>tornadoes</b> ,	Murray and Latimer Counties, OK	-- 13
50.	1922 -- Nov 04,	<b>tornado</b> ,	Creek and Pawnee Counties, OK	-- 11
51.	1924 -- May 28,	<b>tornadoes</b> ,	OK	-- 15
52.	1924 -- Dec 24,	<b>fire</b> ,	Babbs Switch School, Hobart, OK	-- 36
53.	1926 -- Jan 13,	<b>mine</b> explosion,	No. 21 Coal Mine, Wilburton, OK	-- 91
54.	1926 -- Sep 03,	<b>mine</b> explosion,	Tahona Coal Mine, Tahona, OK	-- 16
55.	1927 -- Apr,	<b>flooding</b> ,	drownings, especially southwestern and Rocky Ford vic., OK	-- 21
56.	1927 -- Apr 18,	<b>tornado</b> ,	Choctaw County, OK	-- 10
57.	1929 -- Aug 18,	<b>train derailment</b> ,	Henryetta, OK	-- 14
58.	1929 -- Dec 17,	Old Town <b>Mine</b> explosion,	McAlester, OK	-- 61
59.	1930 -- Oct 27,	<b>mine</b> explosion,	Wheatley No. 4 Coal Mine McAlester, OK	-- 30
60.	1930 -- Nov 19,	<b>tornado</b> ,	Oklahoma County, OK	-- 23
61.	1930 -- Nov 29,	<b>mine</b> explosion,	Lutie No. 5. Coal Mine, Lutie, OK	-- 15
62.	1931 --	<b>diphtheria</b> ,	esp. children; OK subset, 5,738 US diphtheria deaths; 3 <sup>rd</sup> highest State--	293
63.	1931 --	<b>malaria</b> (OK subset,	2,536 malaria deaths nationwide)	-- 103
64.	1931 --	<b>scarlet fever</b> ,	esp. children (OK subset of 2,651 U.S. scarlet fever deaths)	-- 55
65.	1931 -- summer,	<b>excessive natural heat</b> ;	subset, 2,768 US deaths; OK	-- 19
66.	1934 -- summer,	<b>excessive natural heat</b> ;	subset of 3,250 US heat deaths; OK	-- 83
67.	1936 -- July-Aug (especially),	<b>excessive heat</b> ;	4,678-5,418 US heat deaths, OK	--42-95
68.	1937 -- Sep 30-Oct 27,	<b>Elixir Sulfanilamide medicine unintentional poisoning</b>		-- 11
69.	1939 --	<b>influenza and pneumonia</b> (OK subset,	99,097 US flu/pneumonia deaths)	--1,894
70.	1939 --	<b>malaria</b> (OK subset of 1,761 malaria deaths nationwide)		-- 46
71.	1939 -- summer,	<b>excessive natural heat</b> ;	subset of 527-1,073 US heat deaths; OK	-- 18
72.	1940 --	<b>influenza and pneumonia</b> (OK subset,	92,525 US flu & pneumonia deaths)	--1,956
73.	1940 --	<b>malaria</b> ; subset of 1,442 U.S. malaria deaths; OK		-- 31
74.	1940 --	<b>polio</b> ; subset of 1,026 polio deaths nationwide; OK		-- 22
75.	1940 --	<b>tuberculosis</b> ; subset of 55,576 tuberculosis deaths nationwide; OK		--1,071
76.	1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, OK, 2.4		-- 57
77.	1942 -- Apr 27,	<b>tornadoes</b> ,	Rogers, Mayes (Pryor), Counties OK	--56-60

<sup>695</sup> A chapter on the death toll (Clyde Snow) in the report of the 2001 Oklahoma Commission to Study the Tulsa Race Riot of 1921, notes a documented death toll of 39. We have a long footnote in our document on this event accessed via the Spreadsheet which explains why we choose the number 100 as the high-end of our range. Most accounts today report a death toll of up to 300, if not more. The 300 number derives from a 1921 Red Cross report which noted it was one estimate heard, while another was 55, and that the actual number was unknown. The number 300 is a guesstimate of the time not based on documentation, nor any other form of actual counting.



**Oklahoma (continued):**

78.	1942 -- May 02, <b>tornadoes</b> , 3 F4's, 10 counties in OK	-- 26
79.	1942 -- June 12, <b>tornado</b> , F4, Oklahoma County, OK	-- 35
80.	1943 -- Jan 06, <b>plane crash</b> , U.S. Army Air Force B-24, Madill, OK	-- 10
81.	1943 -- May 08, <b>plane crash</b> , USAAF C-47, ~ Tinker Field, Oklahoma City, OK	-- 15
82.	1943 -- Oct 22, <b>plane crash</b> , USAAF B-17, Arkansas River, ~Ponca City, OK	-- 14
83.	1943 -- Dec 15, <b>plane crash</b> , USAAF, B-17, Army Air Base, Ardmore, OK	-- 12
84.	1944 -- <b>whooping cough</b> (OK subset of 1,878 whooping cough deaths nationwide)	-- 40
85.	1944 -- Feb 12, <b>planes collide</b> , two USAAF B-17's, one Crashes, Mill Creek, OK	-- 10
86.	1944 -- Apr 24, <b>plane crash</b> , USAAF B-17G, near Ardmore Army Air Field, OK	-- 11
87.	1944 -- July 02, <b>USAAF B-29 breaks-up</b> in thunderstorm/crashes, near Harmon, OK	-- 11
88.	1944 -- Dec 05, <b>explosion</b> , torpedo magazine Naval Ammo. Depot, McAlester, OK	-- 11
89.	1945 -- Apr 12, <b>tornadoes</b> , esp. Antlers (69), Muskogee Co. (13), and OK City (8) OK--	102
90.	1945 -- June 11, <b>USAAF B-29 structural failure in thunderstorm</b> , crash ~Rush Springs, OK--	10
91.	1946 -- <b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths)	-- 34
92.	1946 -- Jan 28, gasoline fumes ignite, <b>fire</b> , Tinker Field Hangar, ~Oklahoma City, OK--	10
93.	1947 -- Apr 09, <b>tornadoes</b> , multiple counties, esp. Woodward, OK/113	-- 116
94.	1948 -- <b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	-- 35
95.	1948 -- Mar 25, OK <b>tornado</b> , especially farm homes near Wetumka and Lenna, OK	-- 13
96.	1948 -- Nov 01, <b>USAF C-47 breakup</b> in thunderstorm and crash, near Muldrow, OK	-- 11
97.	1949 -- <b>polio</b> , esp. July-Nov; OK subset, ~2,732 US polio deaths; 9 <sup>th</sup> highest state loss--	109
98.	1949 -- Sep 26, <b>USAF B-29 explosive decompression/crash</b> near Talihina, SE OK	--all 13
99.	1950 -- <b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	-- 39
100.	1950 -- Apr 28, <b>tornadoes</b> , F4, Callahan County, TX; Hughes County, OK	-- 10
101.	1951 -- <b>measles</b> , 688 US deaths; subset for OK (8 <sup>th</sup> highest US state loss)	-- 25
102.	1951 -- <b>polio</b> , especially July-Nov (OK subset of 1,551-1,555 US polio deaths)	-- 36
103.	1951 -- Apr 27, <b>USAF F-51 Mustang jet hits USAF B-36</b> , NE of Perkins, OK	-- 14
104.	1953 -- <b>heat</b> , excessive natural (code E931), 576 US heat deaths, esp. Aug 22-Sep 5--	14
105.	1953 -- <b>measles</b> , 483 US deaths, 23 states in double digits; OK subset	-- 16
106.	1953 -- July 17, USMC <b>plane crash</b> near Milton, FL carrying OK ROTC students <sup>696</sup> --	23
107.	1954 -- <b>excessive heat</b> (esp. July); subset of 978-984 US heat-related deaths; OK	-- 178
108.	1954 -- <b>polio</b> , acute; 1,400 US deaths; OK subset	-- 22
109.	1955 -- <b>whooping cough</b> /pertussis, 476 US deaths/15 states in double digits; OK	-- 11
110.	1955 -- May 25, <b>tornado</b> , Blackwell/20, Cheyenne/2	-- 22
111.	1956 -- <b>measles</b> , 530 US deaths/21 states in double digits; OK subset	-- 15
112.	1957 -- <b>influenza</b> ; 7,463 US deaths; OK subset	-- 165
113.	1957 -- Jan 22, <b>tornado</b> , F4, Sequoyah County (Gans), OK	-- 10
114.	1957 -- May 12-21, rainstorms, <b>flooding</b> , rain slick road accidents	-- 10
115.	1957 -- fall-spring 1958, H2N2 Asian <b>influenza &amp; pneumonia</b> pandemic (US 116K)--	810
116.	1959 -- <b>tuberculosis</b> ; 11,456 US TB deaths; OK subset	-- 136
117.	1959 -- Jan 08, home wood stove <b>fire</b> (15 children and woman), Boswell, OK	-- 16
118.	1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; OK death rate 5.5	-- 127
119.	1960 -- <b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; OK death rate 7.3	-- 171
120.	1960 -- May 05, OK <b>tornado</b> outbreak, multiple locales, especially Wilburton (13) OK--	32

<sup>696</sup> There were 44 fatalities, 23 of them University of OK-Norman ROTC students.

**Oklahoma (continued):**

121.	1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; OK death rate 1.4	--	34
122.	1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; OK death rate 5.8	--	137
123.	1961 --	May 05, F4 <b>tornado</b> , Leflore County, OK, especially Howe (12 killed)	--	16
124.	1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; OK death rate 2.6	--	63
125.	1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; OK rate 6.3	--	153
126.	1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; OK death rate 4.2	--	105
127.	1963 --	<b>tuberculosis</b> , 9311 US deaths/death rate 4.9 per 100K pop.; OK death rate 6.1	--	152
128.	1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; OK death rate 0.5	--	13
129.	1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; OK death rate 5.4	--	134
130.	1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; OK death rate 2.3	--	56
131.	1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; OK death rate 4.4	--	110
132.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; OK--		11
133.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for OK	--	94
134.	1966 --	Apr 22, <b>plane crash</b> , American Flyers Airline # 280/D, NE of Ardmore, OK--		83
135.	1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; OH 5.1--		128
136.	1968 --	Dec 29-Mar 29, A2 Hong Kong <b>influenza-pneumonia</b> epidemic, OK City, Tulsa--		111
137.	1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; OK death rate 2.80--		71
138.	1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; OK 2.6--		66
139.	1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; OK rate 2.52	--	66
140.	1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; OK 4.96--		132
141.	1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; OK 2.93	--	78
142.	1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; OK 1.93 per 100K	--	52
143.	1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; OK/1.6--		43
144.	1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; OK, 1.90	--	52
145.	1974 --	June 08, <b>tornado</b> , Payne, Creek, Pawnee, Osage Counties, OK	--	14
146.	1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; OK/4.3--		119
147.	1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; OK, 1.91	--	53
148.	1976 --	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; OK 3.8--		108
149.	1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; OK, 1.91	--	54
150.	1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; OK, 1.53	--	44
151.	1978 --	exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; OK	--	12
152.	1978 --	<b>heat</b> (esp. summer), ICD-8 E900 excessive natural heat, US death rate 0.12, OK 0.38--		11
153.	1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; OK, 2.26	--	66
154.	1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; OK, 1.65	--	48
155.	1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; OK, 0.98	--	29
156.	1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; OK, 1.02	--	31
157.	1980 --	summer, <b>heat</b> , especially counties of Tulsa/14, Muskogee/9, Oklahoma/9, OK--		80
158.	1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; OK, 1.03	--	32
159.	1981 --	June-Aug (especially), <b>heat</b> (ICD-9 E900 code for excessive natural heat)	--	10
160.	1982 --	<b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, OK, 1.24	--	40
161.	1982 --	summer <b>heat</b> ; ICD-9 E900 code/excessive heat/hyperthermia; subset of 196	--	11
162.	1983 --	exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; OK	--	13
163.	1983 --	Dec 19-25, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	--	16-19
164.	1984 --	<b>influenza</b> , 1,096 US flu deaths/death rate 0.46 per 100K, OK, 0.76	--	25

**Oklahoma (continued):**

165.	1984 -- Apr 26, <b>tornado outbreak</b> , especially Morris (8) and Terlton (3), OK	--	11
166.	1984 -- May 26-27, <b>flooding</b> , Tulsa, OK	--	14
167.	1985 -- summer <b>heat</b> (ICD-900 code for excessive heat/hyperthermia) subset of 227	--	11
168.	1985 -- June 25, <b>explosion</b> , fireworks plant, Hallett, OK	--	21
169.	1986 -- summer <b>excessive heat</b> , OK (subset of >400 U.S. heat-related fatalities)	--	12
170.	1986 -- Aug 20, Postal worker Pat Sherrill <b>mass shooting</b> , Post Office, Edmond, OK <sup>697</sup>	--	14
171.	1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; OK, 1.23	--	39
172.	1988 -- <b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K; OK, 0.88	--	28
173.	1988 -- summer, <b>heat</b> (exposure to excessive natural heat), OK	--	11
174.	1989 -- exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; OK	--	10
175.	1989 -- <b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; OK rate 0.89	--	28
176.	1990 -- exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; OK	--	23
177.	1990 -- <b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; OK rate 0.99	--	31
178.	1990 -- <b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; OK, 0.92	--	29
179.	1990 -- summer, <b>heat</b> (exposure to excessive natural heat/hyperthermia), OK	--	11
180.	1992 -- <b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; OK rate 0.78	--	25
181.	1993 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; OK	--	12
182.	1993 -- <b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; OK, 0.43	--	14
183.	1993 -- summer, exposure to <b>excessive natural heat/hyperthermia</b> , OK	--	16
184.	1994 -- <b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; OK, 0.85	--	28
185.	1994 -- <b>tuberculosis</b> ; 1,478 US TB deaths; death rate 0.56 per 100K, OK, 0.58	--	19
186.	1995 -- exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; OK	--	14
187.	1995 -- <b>tuberculosis</b> ; 1,336 US TB deaths; death rate 0.5 per 100K; OK, 0.54	--	18
188.	1995 -- Apr 19, <b>Alfred P. Murrah Fed. bldg. bombing/fire</b> , Oklahoma City, OK <sup>698</sup>	--	168
189.	1995 -- summer, exposure to <b>excessive natural heat/hyperthermia</b> , OK	--	14
190.	1996 -- exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; OK	--	17
191.	1996 -- <b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K; OK, 0.45	--	15
192.	1996 -- July 04-08 esp., <b>heat</b> , e.g. Caddo, Carter, Lincoln, Oklahoma, Payne counties--	--	15
193.	1997 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, OK, 0.59	--	20
194.	1998 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; OK, 0.41	--	14
195.	1998 -- summer <b>heat</b> , esp. July, esp. OK County (subset of 323 US fatalities)	--	32
196.	1999 -- exposure to excessive natural <b>cold/hypothermia</b> ; 598 US deaths; OK	--	10
197.	1999 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; OK, 0.436	--	15
198.	1999 -- May 03, <b>tornadoes</b> , Chickasha through south Oklahoma City, OK	--	45
199.	1999 -- summer, especially late July-mid Aug, <b>excessive heat</b> , multiple counties, OK--	--	20
200.	2000 -- exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; OK	--	15
201.	2000 -- exposure to <b>excessive natural heat</b> , 494 US deaths, subset for OK	--	15
202.	2000 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; OK, 0.956	--	22
203.	2000 -- <b>tuberculosis</b> , ICD-10 code A16-19; death rate 0.276 per 100K; OK, 0.348	--	12
204.	2000 -- Dec 25-27, <b>ice storm</b> , OK	--	26-27
205.	2001 -- exposure to <b>excessive natural heat</b> , Oklahoma County, OK	--	19
206.	2001 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.268 per 100K; OK, 0.288	--	10

<sup>697</sup> Sherrill committed suicide by shooting himself before he could be arrested – bringing total death toll to 15.

<sup>698</sup> According to coroner, almost 40% of victims died from fire or smoke inhalation.

## Oklahoma (continued):

207.	2001 -- Jan 27, charter <b>plane crash</b> , OK St Univ. basketball members, Strasburg, CO <sup>699</sup> -10	
208.	2002 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.273 per 100K; OK 0.430 --	15
209.	2002 -- May 26, <b>barge</b> hits bridge, span collapse, <b>cars fall</b> , Webbers Falls, OK --	14
210.	2003 -- exposure to <b>excessive natural cold/hypothermia</b> ; 620 US deaths; OK --	16
211.	2003 -- exposure to <b>excessive natural heat</b> ; 426 US deaths; subset for OK --	12
212.	2003 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; OK, 1.084 --	38
213.	2003 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; OK, 0.37 --	13
214.	2004 -- exposure to <b>excessive natural cold/hypothermia</b> ; 676 US deaths; OK --	14
215.	2005 -- exposure to <b>excessive natural cold/hypothermia</b> ; 700 US deaths; OK --	16
216.	2005 -- exposure to <b>excessive natural heat</b> ; 939 US deaths, subset for OK --	16
217.	2006 -- exposure to <b>excessive natural cold/hypothermia</b> ; 519 US deaths; OK --	16
218.	2006 -- exposure to <b>excessive natural heat</b> , 17 counties, esp. Oklahoma County, OK--	38
219.	2007 -- exposure to <b>excessive natural cold/hypothermia</b> ; 711 US deaths; OK --	25
220.	2007 -- Jan 12-15 <b>ice and winter storm</b> , especially southeastern OK --	32
221.	2007 -- Dec 08-11, <b>ice storm</b> , especially Tulsa, OK --	29-30
222.	2008 -- exposure to <b>excessive natural cold/hypothermia</b> ; 641 US deaths; OK --	10
223.	2008 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; OK rate 0.82--	30
224.	2009 -- exposure to <b>excessive natural cold/hypothermia</b> ; 616 US deaths; OK --	18
225.	2009 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; OK 1.0--	36
226.	2009 -- exposure to <b>excessive natural heat</b> ; 555 US deaths, subset for OK --	18
227.	2009 -- <b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.2 per 100K; OK rate 0.3--	11
228.	2009 -- June 26, <b>tractor-trailer</b> hits multiple cars, Will Rogers Turnpike ~Miami, OK--	10
229.	2009 -- <b>H1N1 Swine Flu</b> , especially fall/winter; >12,000 U.S. deaths; OK --	44
230.	2010 -- exposure to <b>excessive natural cold/hypothermia</b> ; 710 US deaths; OK --	14
231.	2010 -- exposure to <b>excessive natural heat</b> ; 874 US deaths, subset for OK --	19
232.	2010 -- <b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.4 per 100K; OK, 4.9 --	184
233.	2011 -- exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for OK --	44
234.	2011 -- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; OK, 0.6 --	22
235.	2011 -- <b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; OK 3.2 --	122
236.	2011 -- May 24, <b>tornadoes</b> , northern and central OK --	11
237.	2012 -- exposure to <b>excessive natural cold/hypothermia</b> ; 501 US deaths; OK --	10
238.	2012 -- exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for OK --	18
239.	2012 -- <b>viral hepatitis</b> , ICD-10 code B-15-19, US death rate 2.6 per 100K; OK 3.2 --	122
240.	2013 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, OK 0.9--	34
241.	2013 -- exposure to <b>excessive natural cold/hypothermia</b> ; 725 US deaths; OK --	12
242.	2013 -- <b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100K; OK, 3.7 --	142
243.	2013 -- May 20, <b>tornado</b> , Moore, OK --	24
244.	2013 -- May 31, <b>tornadoes, flooding</b> , Oklahoma City region, Central OK <sup>700</sup> --	20
245.	2014 -- exposure to <b>excessive natural cold/hypothermia</b> ; 930 US deaths; OK --	17
246.	2014 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 1.4 per 100K; OK rate 2.0 --	76
247.	2014 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; OK, 4.4 --	171
248.	2015 -- exposure to <b>excessive natural cold/hypothermia</b> , 815 US deaths, OK --	17

<sup>699</sup> Plane crashed in CO but carried eight OK State Univ. basketball team, team personnel, two flight-crew members.

<sup>700</sup> Two deaths drownings from group seeking safety in storm drain. Not included are three flooding deaths in MO.



249.	2015	-- exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for OK	--	15
250.	2015	-- <b>influenza</b> , ICD-10 codes J09-11; US death rate 1.6 per 100K; OK rate 2.0	--	80
251.	2015	-- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; OK, 4.5	--	174
252.	2016	-- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.7 per 100K, OK 1.0	--	38
253.	2016	-- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for OK	--	20
254.	2016	-- <b>tuberculosis</b> , ICD-10 Codes A16-19; US death rate 0.2 per 100K, OK, 0.4	--	14
255.	2016	-- <b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.0 per 100K; OK, 3.6	--	141
256.	2017	-- exposure to <b>excessive natural cold/hypothermia</b> ; 804 US deaths; OK	--	12
257.	2017	-- <b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; OK rate 2.59	--	102
258.	2018	-- exposure to <b>excessive natural cold/hypothermia</b> ; 1,028 US deaths; OK	--	11
259.	2018	-- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., OK rate 4.74	--	187
260.	2019	-- exposure to <b>excessive natural cold/hypothermia</b> ; 1,115 US deaths; OK	--	15
261.	2019	-- <b>excessive natural heat</b> deaths; 915 US heat deaths; OK	--	18
262.	2019	-- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; OK rate 1.59	--	63
263.	2019	-- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, OK rate 2.10	--	83
264.	2020	-- <b>excessive heat</b> , natural sources; 1,184 US deaths; subset for OK	--	14
265.	2020	-- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; OK 1.78	--	71
266.	2020	-- <b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; OK death rate 2.54	--	101
267.	2020	-- <b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; OK	--	17
268.	2020	-- <b>COVID-19</b> ; 354,215 US Covid deaths/1,070 per 1M; OK, 629 per 1M pop.	--	2,489
269.	2021	-- <b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; OK, 2.9K per M	--	9,066
270.	2021	-- exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; OK 0.60	--	49
271.	2021	-- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for OK	--	13
272.	2021	-- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; OK death rate 1.68	--	67
273.	2021	-- <b>influenza</b> ; 608 US deaths/death rate 0.18; OK death rate 0.58	--	23
274.	2022	-- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; OK death rate 8.56	--	3,839
275.	2022	-- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for OK	--	37
276.	2023	-- exposure to <b>excessive natural heat</b> ; 2,155 US deaths, subset for OK	--	31

#### Some Select/Notable Other **Oklahoma** Large Loss-of-Life Events:<sup>701</sup>

1801-02	--	<b>smallpox</b> pandemic, Native Amer., Central, Midwest, esp. Upper, Northwest <sup>702</sup>	--	?
1889-90	--	June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--	10
1897	--	Sep 12, <b>train truck breaks, train derails</b> , Iron Mt. Road, Hanson (I.T.), OK	--	≥7
1900	--	<b>croup</b> (upper airway contagious viral infection; OK subset, 12,484 US croup deaths	--	66
1900	--	<b>diphtheria</b> (OK subset of 16,475 US diphtheria deaths in 1900)	--	46
1900	--	<b>dysentery</b> (OK subset of 11,710 US dysentery deaths in 1900)	--	68
1900	--	<b>influenza</b> (OK subset, 16,645 US influenza deaths)	--	23
1900	--	<b>malarial fever</b> (OK subset of 14,874 US malarial fever deaths)	--	134
1900	--	<b>measles</b> (subset of 12,866 US measles deaths)	--	48
1900	--	<b>meningitis</b> (OK subset, 19,423 US meningitis deaths)	--	85
1900	--	<b>scarlet fever</b> (OK subset, 6,333 US scarlet fever deaths)	--	11

<sup>701</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

<sup>702</sup> We do not have a number. We do have sources which state the Kiowa who lived in or moved about Oklahoma were impacted. We estimate more than 9,090 Natives died in current-day U.S.

**Oklahoma (continued):**

1900 --	<b>smallpox</b> (OK subset, 8,484 US smallpox deaths)	--	24
1900 --	<b>tuberculosis</b> (3,181 OK deaths all causes) (109,750 US TB deaths)	--	288
1900 --	<b>whooping cough</b> (OK subset, 9,958 US whooping cough deaths)	--	50
1910 --	<b>polio</b> outbreak, especially children (subset, 1,635 US polio deaths), OK	--	12
1911 --	July 24, <b>cave-in, sewer ditch under construction</b> , near Muskogee, OK	--	4
1912 --	Jan 9-16 especially, <b>coldwave and snow storms</b> (subset of 228 US deaths)	--	9
1912 --	Feb 22, coal <b>mine</b> fire, Wichita Coal & Mining Co. No. 5, Lehigh, OK	--	9
1915 --	Oct 19, <b>trains collide</b> , Agawam Curve, near Chickasha, OK	--	8
1916 --	Mar 05-06, <b>family killed</b> /7, suicide (Daniel Okane), Lawton, OK	--	8
1919 --	<b>diphtheria</b> (OK subset, 9,160 US diphtheria deaths)	--	240
1919 --	Jan 26, <b>nitroglycerin explodes</b> , wagon going through town of Big Heart, OK	--	8-9
1931 --	<b>epidemic cerebrospinal meningitis</b> (Census name); OK subset, 2,832 US ECM deaths)--		41
1931 --	<b>influenza</b> (OK subset of 31,701 influenza deaths nationwide) <sup>703</sup>	--	653
1931 --	<b>measles</b> , especially children (OK subset, 3,576 measles deaths nationwide)	--	32
1931 --	<b>polio</b> , esp. July-Oct, (OK subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	19
1931 --	<b>tuberculosis</b> (OK subset of 81,395 tuberculosis deaths)	--	1,315
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; OK death rate 3.2	--	77
1933 --	Mar 25, <b>gasoline stove explosion</b> under whisky still, home fire, ~Fargo, OK <sup>704</sup>	--	7
1934 --	June 04, <b>dynamite explodes</b> , Petty Geophysics Engineering crew, near Norman OK--		7
1936 --	Jan 18-28, <b>winter snow storms and extreme cold</b> , OK	--	9
1937 --	June 26, <b>automobiles</b> collide head-on, west of Erick, OK	--	6
1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (OK subset of 1,997 U.S. diphtheria deaths)	--	75
1939 --	<b>tuberculosis</b> ; OK subset of 61,609 tuberculosis deaths nationwide	--	1,000
1939 --	<b>whooping cough</b> (OK subset of 3,026 whooping cough deaths nationwide)	--	26
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); OK death rate 12.1	--	283
1941 --	<b>measles</b> , especially children (OK subset of 2,279 measles deaths nationwide)	--	21
1944 --	<b>influenza</b> ; subset of 17,320 US influenza US deaths, esp. Jan-Apr, Dec; OK	--	357
1944 --	<b>measles</b> , especially Jan-June (OK subset of 1,923 measles deaths nationwide)	--	33
1944 --	<b>tuberculosis</b> (OK subset of 54,731 tuberculosis deaths nationwide)	--	880
1945 --	Apr 14, <b>USAAF B-25 wing failure in poor weather, crash</b> 8 miles east of Binger OK--		5
1945 --	Apr 30, <b>USAAF C-60 engine power loss</b> on takeoff / emer. Indg. crash ~Tinker Field--		5
1946 --	<b>polio</b> , especially July-Nov; OK subset of 1,845 polio deaths nationwide	--	34
1948 --	<b>polio</b> , especially children; 1,895 US polio deaths; subset for OK	--	35
1949 --	Sep 27, <b>USAF B-29</b> Superfortress crash in Kiamichi Mountains 6M SW Talihina OK--		9
1950 --	Apr 28, <b>tornadoes</b> , Holdenville (5 deaths) and Hobart (1 death), OK	--	6
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for OK	--	420
1951 --	<b>whooping cough</b> ; 960 US deaths; subset for	--	19
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for OK	--	19
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for OK	--	147
1952 --	<b>polio</b> , esp. children; OK subset, ~3,300 US polio deaths; esp. Tulsa County/12	--	49
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for OK	--	299
1953 --	<b>influenza</b> ; 9,500 US deaths; subset for OK	--	248

<sup>703</sup> Does not include pneumonia deaths, of which there were 96,974 nationwide.

<sup>704</sup> When the stove exploded burning gasoline was thrown onto the sleeping victims in a one-room farm house.

**Oklahoma (continued):**

1953 --	<b>polio</b> (OK subset of 1,450 polio deaths nationwide)	--	15
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; subset for OK	--	232
1954 --	<b>dysentery</b> , infectious, all forms (codes 045-048), 655 US deaths; OK subset	--	10
1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; OK subset	--	58
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; OK subset	--	219
1955 --	<b>influenza</b> ; 2,755 US deaths; OK subset	--	61
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; OK subset	--	163
1956 --	<b>influenza</b> , 2,323 US deaths; OK subset	--	40
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; OK subset	--	173
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; OK subset	--	145
1958 --	<b>influenza</b> ; 4,442 US deaths; OK subset	--	84
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; OK subset	--	158
1958 --	Nov 27, <b>fire</b> , Mary Flake Home for Handicapped Children, Warr Acres, OK	--	5
1963 --	exposure to <b>excessive natural heat</b> ; 196 US heat deaths; OK	--	9
1963 --	Jan 10-14, <b>cold wave</b> , snow, ice (OK subset of 81-92 US deaths)	--	5
1963 --	Jan 18-28, <b>cold waves</b> , snow, ice (OK subset of 315-352 US deaths)	--	3-8
1963 --	Jan 20, home <b>fire</b> , thought related to coal stove, kills family, Calhoun, OK	--	8
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; OK death rate 0.8	--	20
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for OK	--	31
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; OK death rate 2.96	--	74
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; OK 2.96--	75	
1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; OK 1.48	--	38
1970 --	Nov 11, premature liquid explosives explos., Pan American Bird Creek test oil well, Tulsa OK--	9	
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; OK 0.46--	12	
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; OK 2.26	--	61
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; OK, 0.52	--	15
1977 --	July 14, out of control car/6 hits motor home/2, rural US 69 near Stringtown, OK	--	8
1978 --	June 22, drifters <b>kill</b> family of 3; 6 steakhouse workers/July 16, Purcell & OK City, OK--	9	
1980 --	Oct 16, <b>USAF UC-123K Provider takeoff crash</b> , Sill-Henry Past AAF, OK	--	all 5
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, OK, 1.29	--	40
1981 --	Jan 09, <b>Winward Aviation Bell 206B JetRanger helicopter crash</b> , Norman, OK--	all 5	
1982 --	Jan 19, <b>water heater explosion</b> , Star Elementary School cafeteria, Spencer, OK	--	7
1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, OK, 0.55	--	18
1983 --	<b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K; OK, 0.64	--	21
1983 --	summer <b>heat</b> , esp. late July-Aug, deaths in 7 counties; subset of 597 U.S. deaths)	--	9
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K pop.; OK, 0.64	--	21
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K population, OK, 0.64	--	21
1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K pop.; OK, 0.61	--	20
1985 --	Jan 19-23, <b>winter weather, exposure/hypothermia</b> , OK	--	5-7
1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K population: OK, 0.49	--	16
1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K population; OK, 0.55	--	18
1986 --	Jan 4, <b>UF6/uranium hexafluoride cylinder rupture</b> , Sequoyah Fuels Corp, OK	--	1
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K population; OK, 1.69	--	60
1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K pop., OK, 0.47	--	15

**Oklahoma (continued):**

1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; OK rate 2.50	--	79
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; OK rate 3.46	--	109
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K population; OK, 0.63	--	20
1989 --	Dec 8-23, <b>cold wave and hypothermia</b> deaths	--	5
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K pop.; OK, 0.44	--	14
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate of 0.68 per 100K pop., OK, 0.54	--	17
1991 --	Jan 05, <b>Cessna takeoff crash</b> (pilot error/darkness/adverse weather), off Muskogee AP, OK--		6
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate of 0.63 per 100K pop.; OK, 0.61	--	20
1995 --	Dec 21, <b>Insured Titles of Tuscaloosa Cessna crash</b> , adverse weather, stall/spin--Cleveland OK--		6
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K pop.; OK, 0.38	--	13
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; OK rate 0.582	--	20
2002 --	Jan 28-30, <b>ice storm</b> , OK	--	9
2005 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; OK, 0.423	--	15
2006 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; OK, 0.278	--	10
2006 --	June 23, <b>lightning</b> strikes home/ <b>fire</b> , Panama, OK	--	3
2006 --	July 20, <b>fire</b> (over-heated refrigerator), residential home, Chickasha, OK	--	7
2007 --	Jan 14, <b>minivan</b> slides on ice; crosses I-40 median; hits tractor-trailer, Elk City, OK <sup>705</sup> --		7
2008 --	Mar 04, bird strike, <b>Cessna 500 plane crash</b> , near Wiley Post Airport, OK City, OK--		5
2009 --	<b>influenza (avian)</b> , ICD-10 code J09.8 (US death rate 0.5 per 100K); OK rate 0.3	--	10
2009 --	Jan 26-28, <b>ice and snow storm</b> , 91 deaths in 12 states; subset for OK	--	6
2009 --	Feb 10, <b>tornado</b> , Lone Grove, OK	--	8
2010 --	<b>diarrhoea and gastroenteritis</b> of infectious origin, US and OK death rate 0.9 per 100K--		32
2011 --	<b>diarrhoea and gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K, OK, 0.7	--	28
2012 --	<b>diarrhoea and gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, OK, 0.6--		23
2013 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.2 per 100,000; OK rate was 1.0--		40
2014 --	<b>diarrhoea and gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, OK, 0.7--		29
2014 --	Jan 04, house <b>fire</b> of undetermined cause, Bartlesville, OK	--	5
2015 --	<b>diarrhoea and gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K; OK, 0.6--		25
2015 --	May 21-25, storms, heavy rain, flash <b>flooding</b> , <b>tornadoes</b>	--	6-7
2015 --	Dec 26-27, <b>flooding</b> , Bixby, Hinton, Kay Co., Oklahoma City, Pittsburg Co., Yukon--		7
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; OK death rate 1.4	--	54
2016 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.9 per 100,000, OK, 0.5	--	20
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; OK rate 1.12	--	44
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; OK death rate 1.55	--	61
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	763

**Breakout by Type of Oklahoma Large Loss-of-Life Events (10 or more fatalities):**

- 116 -- **Disease**, especially communicable, especially epidemics. (Plus 88 in "Other.")
- 35 -- **Heat**. (Plus 2 years 6 and 9 deaths.)
- 34 -- **Tornadoes** (Plus 2 also noted: one with 6 deaths in 1950 and one with 8 deaths in 2009.)
- 29 -- **Winter Storms, Cold, Hypothermia**. (Plus 8 events 5-9 deaths each.)
- 18 -- **Mining** (Plus one with 9 deaths in "Other.")

<sup>705</sup> Subset of Jan 12-15, 2007 Winter Storm above.



**Oklahoma (continued):**

- 14 -- **Aviation** (Plus 8 events noted with 5-9 deaths each.)
- 8 -- **Violence** (Plus two -- 8 deaths in 1916 and 9 in 1987.)
- 6 -- **Fire, structural.** (Plus four <10 deaths: 5/1958, 8/1963, 7/2006, 5/2014.)
- 6 -- **Flooding.** (Plus two events in 2015 with seven deaths noted in "Other.")
- 4 -- **Explosions.** (Plus five: one with 9 deaths, one with 8-9 and three with 7.)
- 4 -- **Rail.** (Plus two -- one with 8 deaths and one with at least 7 in "Other.")
- 2 -- **Road/Highway**<sup>706</sup> (Plus three with 6-9 deaths in "Other."<sup>707</sup>)
- 1 -- **Maritime and Inland Waterways.**<sup>708</sup>
- 1 -- **Poisoning (non-intentional)**
- 0 -- **Hazardous Materials.** Two with fewer than ten deaths in "Select Other."
- 0 -- **Structural Failure.** (But one with 4 deaths in "Other.")

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<sup>706</sup> Barge knocked out bridge span, Webbers Falls, 5-26-2002; cars fell though gap. Cross-listed in Maritime.

<sup>707</sup> One is Cross-listed in Explosions and in Hazardous Materials.

<sup>708</sup> Barge knocked out bridge span, Webbers Falls, 5-26-2002; cars fell though gap. Cross-listed in Vehicular.

## OR

## Oregon

1. 1801-02--**smallpox** pandemic, Native Americans, Pacific Northwest<sup>709</sup> -->1,500
2. 1811 -- Mar 22/23, American ship **Tonquin** crew drown trying to sound Columbia Bar, OR-- 8-10
3. 1828 -- Jedediah Smith **massacre**, near Gardiner, OR -- 15
4. 1829 -- Mar 10, British brig **William and Ann** lost (grounded) on Clatsop Spit, OR --26-29
5. 1829-33 -- **malaria?** epidemic, Oregon Native Americans<sup>710</sup> --≥5,000
6. 1847 -- **smallpox**, Modoc Native Americans, Southwestern Oregon -- >150
7. 1851 -- Jun 10, **Battle Rock battle**, would-be settlers kill natives when attacked, Port Orford, OR-13-23
8. 1851 -- Jun 17, **Natives attacked**, Maj. Kearny/USA Dragoons, Rogue Ri. Valley., OR~12-22
9. 1851 -- June 23-26, USA Maj. Kearny, other **whites attack Natives**, Table Rock, OR -- >10
10. 1851 -- Nov 22, Col. Casey (USA), **attacks Coquille**, south fork Coquille River, OR --5~15
11. 1852 -- **cholera**, especially Oregon Trail emigrants, esp. Salmon Falls area, The Dalles-- ≥25
12. 1852 -- Jan 31, steamer **General Warren** grounds/wrecks, Columbia River bar, Astoria, OR--~42
13. 1852 -- Sum., Capt. Crosby force **massacre** Modocs, Tule Lake reg., CA/OR border<sup>711</sup> --11-15
14. 1852 -- July 17, **whites attack** Rogue River natives, Big Bar, near Table Rock, OR -- 4-20
15. 1853 -- **smallpox** epidemic, Native American Communities, Pacific NW<sup>712</sup> --2,000-3,000
16. 1853 -- Aug 24, Lane **attacks** Rogue River Natives ~Evans Creek ~Table Rock, OR --13-19
17. 1854 -- Jan 29, Coos Co. miners **massacre** Coquilles, north of Coquille Ri. mouth, OR-16-17
18. 1854 -- Feb 15, Miller group **massacres** Chetco Natives, Chetco River mouth, SW OR-- ~26
19. 1854 -- Apr 08, steamer **Gazelle** boiler explosion, Oregon City, OR -- 25
20. 1855 -- Oct 08, Lupton **massacre**, whites attack natives ~Upper Table Rock, OR --23-41
21. 1855 -- Oct 09, Indians **retaliate & attack** settlers, upper Rogue River Valley, OR -- 12
22. 1856 -- Feb 22/23, Natives **attack** garrison & settlers, Rogue River, Whaleshead vic., OR--31
23. 1856 -- Jun 02-03, USA Cpt. Augur & Vols. **attack** natives, Painted Rock Rogue Ri., OR-- >21
24. 1857 -- Jan-mid, White settlers **attack** Rogue River natives, Rogue River valley, OR -- ~10
25. 1860 -- fall, Snake River **massacre**, immigrant wagon train attacked, pursued, OR -- 39
26. 1861 -- Dec-Jan 1862, **flooding**, virtually all of Oregon -- ≥12
27. 1865 -- Mar 15-16, bark **Industry** grounds, breaks-up, Columbia River bar, OR --15-17
28. 1866 -- May 19, **massacre** of Chinese miners by natives, near Battle Creek, OR --50-150
29. 1875 -- Nov 18, OR schooner **Sunshine** found bottom-up, Cape Disappointment, WA<sup>713</sup>-- 25
30. 1876 -- Mar 01, explosion, **Scow**, Umatilla Rapids, OR -- 13

<sup>709</sup> One source (National Library of Medicine, Native Voices) writes there were 150,000 Chinook deaths in one large location in present-day Oregon. Additionally, the Clatsop were nearly extinguished as were the Multnomah. The Salish are also mentioned. We are very skeptical that 150,000 Chinook were killed, but we have not been able to locate other estimates of death, as opposed to statements in reference to devastating impact. We do not usually come to our own estimate, but it seems clear to us the numbers were very large, though we cannot accept 150,000 in one location in one tribe. Thus, the number 1,500 as our take on the minimum number of lives lost – read our document on this pandemic accessible via the Spreadsheet. <https://www.usdeadlyevents.com/spreadsheet/>

<sup>710</sup> The death-toll was probably much higher in that approximately 10,000 deaths are reported for the Pacific Northwest. From descriptions, it appears that more lives were lost in Oregon than in Washington. There were about 20,000 deaths in California. From contemporary accounts, it appears that the year 1833 was the deadliest.

<sup>711</sup> Cross-listed in California since this event transpired at an unknown place in the border region.

<sup>712</sup> Cross-listed in Washington State since the epidemic was on the coast and both sides of the Columbia River.

<sup>713</sup> Cross-listed in Washington State in that the remains of the *Sunshine* were found at Cape Disappointment which is on the extreme southwest coast of Washington opposite the Columbia River from Oregon. This Oregon schooner had sailed from Coos Bay, OR, to San Francisco and was on return trip. Whatever happened probably happened along the Oregon coast and the vessel was carried northward past Coos Bay to the north side of Columbia River.

## Oregon (continued):

31. 1879 -- Apr 20, rowboat crew, stranded steamer **Great Republic**, Columbia Riv. bar, OR-- 14  
 32. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) -- 185  
 33. 1879 -- June-May 1880, **typhoid fever** (OR subset of 23,339 U.S. Typhoid deaths) -- 103  
 34. 1880 -- Apr 27, schooner **Olivia Schultze** founders, ~mouth of Siuslaw River, OR -- 15  
 35. 1880 -- May 04, squall, **fishing boats** capsize, Columbia River mouth, OR and WA<sup>714</sup>--15-20  
 36. 1881 -- Jan 03, bark **Lupata**, stormy night, grounds / breaks on Tillamook reef, OR --16-18  
 37. 1883 -- Jan 29, steamer **Tacoma** grounds/breaks-up, Pacific, 4m no. of Umpqua Riv., OR--10  
 38. 1886 -- Mar 16, steam freighter **Beda** springs leak and founders off Cape Perpetua, OR-- 11  
 39. 1887 -- May 25, **Chinese gold miners slain** by thieves, Massacre Cove, Wallowa Co., OR--31-34  
 40. 1888 -- Oct 24, barkentine **Makah** found bottom-up off Tillamook Head, OR -- 11  
 41. 1889-90 -- June-May, **typhoid fever**, subset of 27,058 US typhoid deaths, OR -- 152  
 42. 1889 -- May 13, sidewheel steamer **Alaskan** founders, storm, off Cape Blanco, OR --28-30  
 43. 1890 -- Feb 02, **flooding, trestle fails, train cars fall**, near Cascade Locks, OR -- 9-10  
 44. 1892 -- Apr 19-May 10, Victoria schooner **Lottie** capsizes, west off Tillamook Bay, OR --31-32  
 45. 1894 -- Dec 24, **fire**, Chrisman Bros. Hall, Silver Lake, Lake County, OR -- 43  
 46. 1896 -- Oct 20, steamer **Arago** snags and sinks, mouth of Coos Bay, OR -- 13  
 47. 1898 -- Nov 17, clipper **Atalanta** grounds on reef near Seal Rocks north of Alsea, OR -- 23  
 48. 1900 -- **typhoid fever** (OR subset of 35,379 typhoid fever deaths nationwide) -- 106  
 49. 1903 -- June 14, downpour, **flash flood**, Willow Creek, Heppner (and area), OR -- ~247  
 50. 1903 -- Oct 19, steamer **South Portland** hits reef in fog, Cape Blanco, OR --18-19  
 51. 1904 -- Feb 27, steamer **Queen** fire, two lifeboats swamped, off Tillamook Head, OR -- 14  
 52. 1908 -- Feb 14, ship **Emily Reed** grounds, Nehalem Beach, OR -- 11  
 53. 1908 -- May 02, gale, stmr. **Minnie E. Kelton** floods/adrift/men washed off, Yaquina Head OR-11  
 54. 1910 -- Jan 12, steamer **Czarina**, hit by large wave, grounds on Coos Bay Bar, OR --22-24  
 55. 1913 -- Jan 07, storm, **Rosecrans** grounds, Columbia River mouth, Peacock Spit, OR --30-36  
 56. 1913 -- Apr 6, grounded barque **Mimi** knocked over during salvage, Nehalem Spit, OR-- 18  
 57. 1914 -- Sep 18, steamer **Francis H. Leggett** founders in storm off Coast of OR -- ~65  
 58. 1915 -- Nov 2, steamer **Santa Clara** grounds, Coos Bay Bar, OR --12-15  
 59. 1918 -- Sep-Apr, 1919, **influenza and pneumonia** epidemic, OR --3,221  
     1918 -- Sep-Dec, **influenza and pneumonia** epidemic, esp. Portland, OR--2,063  
     1919 -- Jan-Apr, **influenza and pneumonia** epidemic, esp. Portland, OR --1,158  
 60. 1918 -- Oct 16, steamer **Dumarú** hit by lightning, burns, Pacific, ~20 miles off Guam<sup>715</sup>-- 18  
 61. 1918 -- Dec 19, tanker **George Loomis** leaves SF CA for OR, sinks/storm, so. OR coast --18-19  
 62. 1919 -- Dec 18, steamer **J.A. Chanslor** hits rocks in fog, sinks off Cape Blanco, OR --37-38  
 63. 1920 -- Jan-Dec, **influenza and pneumonia**, especially Portland, OR --1,331  
 64. 1920 -- Sep 06, **fire**, Houston Hotel, Klamath Falls, OR --10-14  
 65. 1921 -- Nov 21, tug **Sea Eagle** hit by large wave in storm, capsizes, ~Yaquina, OR -- 9-10  
 66. 1922 -- Mar 24-Apr 24, **Septic sore throat epidemic; contaminated milk**, Portland OR-- 22  
 67. 1923 -- Dec 13, steam schooner **C.A. Smith** grounds, North Jetty, Coos Bay Harbor, OR ~10  
 68. 1924 -- Feb 02, **food poisoning (botulism, home-canned green beans)** ~Albany, OR-- 12  
 69. 1925 -- **meningococcus meningitis** (OR subset, 1,095 US meningitis deaths) -- 35

<sup>714</sup> Cross-listed in Washington in that fisherman from both sides of the river were out fishing and were drowned.

<sup>715</sup> The *Dumarú* was built, sailed from, and mostly manned by Portland crew. The *Oregon City Enterprise* of Nov 1, 1918, p. 7, notes that all eighteen of the fatalities were Portland, OR men.

**Oregon (continued):**

70. 1930 -- Sep 16/17, SF CA schooner **South Coast** sinks, OR Coast, ~Cape Blanco<sup>716</sup> --18-19
71. 1932 -- Sep 27, OR steamer **Nevada** strands on rocks, Aleutian Island Amatignak, AK<sup>717</sup>-- 34
72. 1936 -- Sep 26-29, **wildfires**, SW OR, esp. Bandon & Prosper (Sep 26), (also NO CA)-- 11
73. 1942 -- Mar 15, **plane crash**, USAAF B-17 flies into Mt. near Pendleton, OR -- 10
74. 1942 -- May 03, **two USAAF planes crash**, Blue Mts. ~Meacham, Lindsey Peak, OR-- 13
75. 1942 -- Nov 18, **sodium fluoride poisoning**, patients, OR State Hospital, Salem, OR -- 47
76. 1942 -- Dec (late) to first week Jan 1943, **flooding**, Willamette Valley, Western OR -- 10
77. 1943 -- Feb 20, **USN minesweeper YMS-133** capsizes in trough, Coos Bay bar, OR -- 13
78. 1944 -- **polio**, especially July-Nov (OR set of 1,070 polio deaths nationwide) -- 28
79. 1944 -- Oct 17, **USAAF B-24J plane crash**, 12M NE of Ukiah, OR -- 10
80. 1945 -- Feb 09, **USAAF B-24D Liberator crash** into side of mountain near Denio, OR-- 11
81. 1945 -- Feb 12, **USAAF B-24D stalls, pilot loses control, crash**, 15M SW of Troy, OR-- 10
82. 1945 -- Aug 25, **off-course USAAF B-24J flies into mountain**, SE of Tollgate, OR -- 15
83. 1948 -- May 23-30, **flooding, dikes fail**, Columbia Riv., esp. Vanport/Portland, OR<sup>718</sup>--28-29
84. 1951 -- **diphtheria**; 302 US deaths; 13 States in double digits; subset for OR -- 11
85. 1951 -- Dec 20, Danish cargo/passenger motorship **Erria** fire, Columbia Riv. ~Astoria, OR-- 11
86. 1952 -- Oct 08, **USAF B29 and F94 collide** midair (all 11 on B29 killed) ~Portland, OR-- 11
87. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); OR subset -- 12
88. 1955 -- Dec 18-27, heavy rain and flooding, especially southern OR --12-13
89. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) -- 595
90. 1959 -- **polio** (acute, as opposed to late effects of); 454 US deaths; OR subset -- 10
91. 1959 -- Aug 07, bldg. **fire** leads to parked truck **dynamite explosion**, Roseburg, OR<sup>719</sup>-- 14
92. 1961 -- **influenza**, 2,137 US deaths/death rate 1.2 per 100K; OR death rate 1.9 -- 34
93. 1962 -- Oct 12, Columbus Day "Big Blow" **wind storm**, Western OR --24-38
94. 1964 -- **influenza**; 1,687 US deaths/death rate 0.9 per 100K; OR death rate 2.0 -- 38
95. 1964 -- Dec 21-28, **flooding**, especially Willamette, Columbia, Rogue Rivers, OR --17-18
96. 1966 -- **influenza**; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for OR -- 134
97. 1966 -- **meningococcal infections**, 876 US deaths, esp. CA/109, TX/59, OH/50; OR -- 15
98. 1966 -- Oct 01, **West Coast Air 956 plane crash**, Salmon Mt., near Wemme, OR -- 18
99. 1969 -- **influenza**, ICD-8 codes 470-474; 5971 US deaths/death rate 2.96 per 100K; OR 5.4-- 112
100. 1970 -- **influenza**; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; OR 2.7-- 57
101. 1971 -- **influenza**, ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; OR 0.9-- 20
102. 1972 -- **influenza**, ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; OR 3.74-- 82
103. 1972 -- Aug 16, USCG/NWS fail to warn **fishing boats** of approaching gale ~Brookings OR-11
104. 1973 -- **influenza**; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; OR 6.40 -- 143
105. 1974 -- **influenza**, ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; OR/1.45-- 33
106. 1975 -- **influenza**, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; OR/3.4-- 80
107. 1975 -- July 07, **arson fire**, Pomona Hotel, Skid Row, Portland, OR -- 12

<sup>716</sup> Cross listed in CA. On trip from CA port to OR port apparently lost off OR coast, where wreckage was located. Was home-ported in San Francisco and all the crew lived in the Bay area.

<sup>717</sup> *Nevada* was OR boat, registered and owned in Portland; Capt. from Portland; 11 crew lived in Portland or OR.

<sup>718</sup> Most of the U.S. fatalities were in OR where the largest OR loss of life in one place, 15-16, was at Vanport. There were at least 55 total Pacific Northwest deaths, including 11 in Canadian provinces.

<sup>719</sup> Cross-classified as a Hazardous Materials Transportation event, though the truck was parked and unattended.



**Oregon (continued):**

108.	1976 -- exposure to <b>excessive natural cold/hypothermia</b> ; 424 US deaths; OR	--	18
109.	1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; OR 9.2--219		
110.	1977 -- <b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; OR, 0.90	--	22
111.	1978 -- exposure to <b>excessive natural cold/hypothermia</b> ; 652 US deaths; OR	--	12
112.	1978 -- Dec 28, <b>plane crash</b> , United Airlines N8082U, Portland, OR	--	10
113.	1979 -- exposure to <b>excessive natural cold/hypothermia</b> ; 356 US deaths; OR	--	11
114.	1979 -- <b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; OR rate 0.54	--	14
115.	1979 -- Sep 14, <b>plane crash</b> , Butler Aircraft Inc. DC-7, Surveyor Mountain, OR	--	12
116.	1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, OR, 2.28	--	60
117.	1980 -- May 18, <b>Mount St. Helens eruption and landslides</b> (55-67 total deaths) <sup>720</sup>	--	16
118.	1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, OR, 1.84	--	49
119.	1981 -- June-Aug (especially), <b>heat</b> , esp. ICD-9 E900 code for excessive natural heat--		19
120.	1981 -- Nov 13-15, <b>wind storms</b> , Pacific Northwest, especially OR	--	10
121.	1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, OR, 0.64	--	17
122.	1983 -- <b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, OR, 1.62	--	43
123.	1983 -- Dec 19-29, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	--	15
124.	1984 -- <b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, OR, 1.65	--	44
125.	1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, OR, 2.06	--	55
126.	1986 -- exposure to <b>excessive natural cold/hypothermia</b> ; 301 US deaths; OR	--	10
127.	1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: OR, 1.08	--	29
128.	1987 -- <b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; OR, 0.63	--	17
129.	1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; OR, 1.68	--	46
130.	1989 -- exposure to <b>excessive natural cold/hypothermia</b> ; 524 US deaths; OR	--	10
131.	1989 -- <b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; OR, 2.01	--	56
132.	1990 -- <b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; OR, 1.37	--	39
133.	1991 -- <b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; OR, 0.51	--	15
134.	1992 -- <b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, OR, 0.63	--	19
135.	1993 -- exposure to <b>excessive natural cold/hypothermia</b> ; 641 US deaths; OR	--	11
136.	1993 -- <b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; OR, 1.37	--	42
137.	1994 -- <b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; OR rate 1.19	--	37
138.	1995 -- exposure to <b>excessive natural cold/hypothermia</b> ; 553 US deaths; OR	--	10
139.	1995 -- <b>tuberculosis</b> ; 1,336 US TB deaths; death rate 0.5 per 100K; OR rate 0.69	--	22
140.	1996 -- exposure to <b>excessive natural cold/hypothermia</b> ; 685 US deaths; OR	--	14
141.	1996 -- Nov 22, <b>USAF Hercules engine loss/crash</b> , Pacific ~Cape Mendocino, CA <sup>721</sup> --		10
142.	1997 -- <b>influenza</b> , 720 US deaths, code 487.0; US death rate 0.26 per 100K; OR, 0.605--		20
143.	1999 -- exposure to <b>excessive natural cold/hypothermia</b> ; 598 US deaths; OR	--	11
144.	2002 -- exposure to <b>excessive natural cold/hypothermia</b> ; 646 US deaths; OR	--	14
145.	2002 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.253 per 100K; OR, 0.285	--	10
146.	2003 -- June 14, <b>Taki-Too</b> fishing charter capsizes crossing bar, Tillamook Bay Inlet, OR--		11
147.	2004 -- exposure to <b>excessive natural cold/hypothermia</b> ; 676 US deaths; OR	--	12
148.	2005 -- exposure to <b>excessive natural cold/hypothermia</b> ; 700 US deaths; OR	--	11

<sup>720</sup> To be clear, sixteen of the identified direct deaths were Oregon residents in the MSH vicinity. There were 4-7 reported indirect deaths. However, we have not been able to identify state of residence for any of these.

<sup>721</sup> While the plane went down off northern California coast, it was crewed by a Portland, Oregon Air Reserve unit.

**Oregon (continued):**

149.	2007	-- exposure to excessive natural cold/hypothermia;	711 US deaths; OR	--	11
150.	2008	-- exposure to excessive natural cold/hypothermia;	641 US deaths; OR	--	10
151.	2009	-- exposure to excessive natural cold/hypothermia;	616 US deaths; OR	--	18
152.	2009	-- diarrhoea/gastroenteritis, infectious origin; US death rate 0.9 per 100K; OR 1.0--			37
153.	2009	-- influenza (avian), ICD-10 code J09 (US death rate 0.5 per 100K); OR, 0.9		--	36
154.	2009	-- especially fall/winter, H1N1 Swine Flu (subset of >12,000 U.S. deaths)		--	40-79
155.	2010	-- exposure to excessive natural cold/hypothermia;	710 US deaths; OR	--	15
156.	2010	-- diarrhoea/gastroenteritis, infectious origin; US death rate 0.9 per 100k; OR 1.3--			50
157.	2010	-- viral hepatitis, ICD-10 code B15-B19; US death rate 2.4 per 100K; OR, 4.7		--	179
158.	2011	-- diarrhoea/gastroenteritis, infectious origin; US death rate 0.9 per 100K; OR 1.0--			38
159.	2011	-- viral hepatitis, ICD-10 code B15-19, US death rate 2.5 per 100K; OR, 4.8		--	186
160.	2012	-- diarrhoea/gastroenteritis, infectious origin; US death rate 0.8 per 100K; OR 0.9--			34
161.	2012	-- influenza, ICD-10 codes J09-11; US death rate 0.4 per 100K; OR rate 0.5		--	19
162.	2012	-- viral hepatitis, ICD-10 code B-15-B19, US death rate 2.6 per 100K; OR, 4.2		--	164
163.	2013	-- diarrhoea/gastroenteritis, infectious origin; US death rate 0.8 per 100K; OR 1.0--			38
164.	2013	-- exposure to excessive natural cold/hypothermia;	725 US deaths; OR	--	16
165.	2013	-- viral hepatitis, US death rate 2.6 per 100K; OR 6.0 (highest in the country)		--	235
166.	2013	-- influenza, ICD-10 codes J09-J11; US death rate 1.2 per 100,000; OR rate 1.8		--	69
167.	2014	-- diarrhoea/gastroenteritis, infectious origin; US death rate 0.8 per 100K, OR 0.9--			34
168.	2014	-- exposure to excessive natural cold/hypothermia;	930 US deaths; OR	--	14
169.	2014	-- viral hepatitis, ICD-10 code B15-B19, US death rate 2.5 per 100K; OR, 5.3		--	210
170.	2015	-- exposure to excessive natural cold/hypothermia, 815 US deaths; OR		--	25
171.	2015	-- influenza; ICD-10 codes J09-J11; US death rate 1.6 per 100K; OR rate 2.4		--	96
172.	2015	-- viral hepatitis, ICD-10 code B15-19; US death rate 2.3 per 100K; OR, 4.5		--	182
173.	2015	-- Oct 01, mass shooting, Umpqua Community College, Roseburg, OR <sup>722</sup>		--	9-10
174.	2016	-- exposure to excessive natural cold/hypothermia;	731 US deaths; OR	--	17
175.	2016	-- influenza, ICD-10 codes J09-J11; US death rate 0.9 per 100K; OR rate 2.2		--	92
176.	2016	-- viral hepatitis, ICD-10 code B15-19; US death rate 2.0 per 100K; OR, 3.9		--	159
177.	2017	-- exposure to excessive natural cold/hypothermia, 804 US deaths; OR		--	12
178.	2017	-- influenza; 6,515 US deaths/death rate 2.0 per 100K pop.; OR rate 4.90		--	203
179.	2018	-- exposure to excessive natural cold/hypothermia;	1,028 US deaths; OR	--	19
180.	2018	-- influenza, ICD codes J09-11.8/death rate 3.41 per 100K pop., OR rate 4.75		--	199
181.	2019	-- exposure to excessive natural cold/hypothermia;	1,115 US deaths; OR	--	18
182.	2019	-- influenza; subset of 5,902 US deaths, 1.08 death rate per 100K, OR 3.67 <sup>723</sup>		--	155
183.	2020	-- COVID-19; 354,215 US Covid deaths/1,070 per 1M; OR, 350 per 1M pop.		--	1,477
184.	2020	-- late Aug-mid Sep (especially) wildfires, especially Lyons and Jackson Co.		--	10-11
185.	2021	-- COVID-19; 437,984 US deaths/2.6K deaths per 1M pop.; OR, 1.3K per M		--	1,341
186.	2021	-- exposure to excessive natural cold; 1,179 US deaths/death rate 0.36; OR 0.68--			29
187.	2021	-- exposure to excessive natural heat; 1,912 US heat deaths; subset for OR		--	133
188.	2022	-- COVID-19; 217,370 US deaths/death rate 6.50; OR death rate 7.84		--	3,307
189.	2022	-- exposure to excessive natural heat; 2,159 US deaths; subset for OR		--	25
190.	2024	-- Jan 12-17, winter storms/cold, OR		--	16

<sup>722</sup> The shooter, 26-year-old Chris Harper Mercer, killed nine people, wounded seven, and died in police shootout.

<sup>723</sup> Second highest death rate in the US for Influenza behind Vermont at 4.33.

**Some Select/Notable Other Oregon Large Loss-of-Life Events:<sup>724</sup>**

1854 -- Dec 23-24, <b>tsunami</b> hits coast from Japan earthquakes, OR	--	5
1860 -- <b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	--	19
1860 -- <b>scarlet fever</b> (OR subset of 26,402 deaths in 38 Census States & DC)	--	40
1870 -- <b>tuberculosis</b> (Consumption) (OR subset of ~70,000 TB deaths nationwide)	--	112
1879 -- June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	17
1879 -- June-May 1880, <b>malarial fever</b> , (OR subset, 20,231 such deaths nationwide)	--	31
1879 -- June-May 1880, <b>measles</b> , esp. children (OR subset, 8,254 U.S. measles deaths)	--	16
1879 -- June-May 1880, <b>meningitis</b> (OR subset of 7,481 meningitis deaths nationwide)	--	14
1879 -- June-May 1880, <b>scarlet fever</b> , esp. children (OR subset, 16,388 U.S. S.F. deaths)	--	47
1888 -- June 14, <b>tornado</b> , Lexington, Sand Hollow, and Pine City, Morrow County, OR	--	3-6
1889-90, June-May, <b>croup</b> , subset of 13,862 U.S. croup deaths	--	62
1889-90, June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; OR	--	97
1889-90, June-May, <b>measles</b> , subset of 9,256 US measles deaths	--	25
1890 -- Feb 03-05, <b>flooding</b> , Portland, elsewhere, Willamette, Rogue, coastal rivers, OR	--	≥5
1897 -- <b>typhoid fever</b> , subset of ≥9,192 US typhoid deaths	--	17
1900 -- <b>croup</b> (upper airway contagious viral infection; OR subset, 12,484 US croup deaths--	--	18
1900 -- <b>diphtheria</b> (OR subset of 16,475 US diphtheria deaths in 1900)	--	29
1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	--	17
1900 -- <b>influenza</b> (OR subset, 16,645 US influenza deaths)	--	66
1900 -- <b>measles</b> (OR subset of 12,866 US measles deaths)	--	14
1900 -- <b>meningitis</b> (OR subset, 19,423 US meningitis deaths)	--	67
1900 -- <b>scarlet fever</b> (OR subset, 6,333 US scarlet fever deaths)	--	10
1900 -- <b>smallpox</b> (OR subset, 8,484 US smallpox deaths)	--	12
1900 -- <b>tuberculosis</b> (3,396 OR deaths all causes) (109,750 US TB deaths)	--	433
1900 -- <b>whooping cough</b> (OR subset, 9,958 US whooping cough deaths)	--	32
1907 -- <b>typhoid fever</b> , Portland; subset of ~13K US Census-are typhoid fever deaths	--	37
1910 -- <b>polio</b> ; subset of 1,635 US polio deaths)	--	18
1911 -- <b>polio</b> ; subset of 1,060 “registration area” deaths (63.1% pop.), OR	--	13
1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; Portland OR rate 8.1	--	32
1918 -- <b>typhoid fever</b> (OR subset of 9,100 U.S. Typhoid Fever deaths)	--	70
1919 -- <b>diphtheria</b> (OR subset, 9,160 US diphtheria deaths)	--	52
1920 -- <b>diphtheria and croup</b> (OR subset of 13,395 such deaths in 34 registration states)--	--	45
1920 -- <b>measles</b> (OR subset of 7,712 measles deaths in 34 registration states)	--	30
1920 -- <b>scarlet fever</b> (OR subset of 4,004 scarlet fever deaths in 34 registration states)	--	14
1920 -- <b>smallpox</b> (OR subset of 508 smallpox deaths reported in 34 registration states)	--	10
1920 -- <b>typhoid fever</b> (OR subset of 6,805 typhoid fever deaths, 34 registration states)	--	39
1920 -- <b>whooping cough</b> (OR subset, 10,968 whooping cough deaths in 34 reg. states)	--	47
1921 -- <b>polio</b> (Acute) esp. late Summer-Fall (OR subset of 1,597 U.S. polio deaths)	--	20
1925 -- <b>anthrax</b> (OR subset of 22 US anthrax deaths)	--	1
1925 -- <b>diphtheria</b> (OR subset, 8,058 US diphtheria deaths)	--	102
1925 -- <b>influenza</b> (OR subset, 30,538 US influenza deaths)	--	206

<sup>724</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

**Oregon (continued):**

1925 --	<b>scarlet fever</b> (OR subset of 2,762 US scarlet fever deaths, 48 states)	--	20
1925 --	<b>tuberculosis</b> (OR subset, 89,268 US tuberculosis deaths)	--	560
1925 --	<b>typhoid/paratyphoid fever</b> (OR subset, 8,287 US Typhoid Fever deaths)	--	33
1925 --	<b>whooping cough</b> (OR subset, 6,948 US whooping cough deaths)	--	63
1927 --	<b>polio</b> (acute) esp. late summer-fall (OR subset, 2,013 polio deaths nationwide)	--	84
1931 --	<b>influenza</b> (OR subset of 31,701 influenza deaths nationwide)	--	160
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; OR, 1.1	--	11
1933 --	Dec 20-25, <b>storms</b> , dikes fail/ <b>slides/flooding</b> , Pacific Northwest (OR/WA/ID) <sup>725</sup>	--	≥5
1939 --	<b>influenza and pneumonia</b> (OR subset, 99,097 U.S. influenza/pneumonia deaths)	--	553
1939 --	<b>tuberculosis</b> (OR subset of 61,609 tuberculosis deaths nationwide)	--	186
1940 --	<b>influenza and pneumonia</b> (OR subset of 92,525 U.S. flu and pneumonia deaths)	--	600
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); OR death rate 12.1	--	132
1940 --	<b>tuberculosis</b> (OR subset of 55,576 tuberculosis deaths nationwide)	--	275
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, OR, 0.5	--	6
1941 --	<b>measles</b> , especially children (OR subset of 2,279 measles deaths nationwide)	--	13
1942 --	Jan 17, US Army AF Boeing B-17E <b>takeoff crash</b> from Pendleton Field, OR	--	8
1943 --	Jan 01 (approximately), <b>Navy PBY Flying Boat sinks</b> off Coos Bay, OR	--	7
1943 --	Aug 10, Walla Walla-based USAAF <b>bomber crashes</b> near Cecil, OR	--	8
1944 --	<b>cerebrospinal meningitis</b> ; OR subset, 2,812 US cerebrospinal meningitis deaths	--	26
1944 --	<b>tuberculosis</b> (OR subset of 54,731 tuberculosis deaths nationwide)	--	307
1945 --	Jan 31, <b>USN PBY-5A Catalina crash</b> into hillside during ferry flight, Brookings OR--all 9		
1948 --	<b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	--	13
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	--	23
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	--	30
1950 --	Oct 25-29, <b>winter-like storms, wind/rain/snow</b> ; Northern CA, esp. OR/7, WA <sup>726</sup> --		7
1951 --	<b>polio</b> , especially July-Nov; ~1,555 US polio deaths, subset for OR	--	12
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for OR	--	196
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for OR	--	30
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths	--	21
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for OR	--	138
1953 --	<b>influenza</b> ; 9,500 US deaths; OR subset	--	45
1953 --	<b>polio</b> , subset of 1,450 US polio deaths	--	5
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; OR subset	--	95
1954 --	<b>polio</b> , acute; 1,400 US deaths; OR subset	--	14
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; subset for OR	--	75
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; OR subset	--	75
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; OR subset	--	64
1957 --	<b>influenza</b> ; 7,463 US deaths; OR subset	--	40
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; OR subset	--	59
1957 --	Nov, <b>Asian influenza</b> (and pneumonia) epidemic (OR subset, 70,000 US deaths)	--	212
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; OR subset	--	55
1958 --	Apr 04, <b>car</b> of teenagers hits Greyhound bus, St. Hwy 226 ~Creswell, OR	--	5

<sup>725</sup> There are eight other reported deaths for which we have not found cause or location.

<sup>726</sup> Though storms were in late Oct they were "winter-like" out of north Pacific with snow, rain and high winds.



**Oregon (continued):**

1959 --	<b>tuberculosis</b> ;	11,456 US TB deaths; OR subset	--	70
1960 --	<b>influenza</b> ;	7,872 US deaths/death rate 4.4 per 100K; OR death rate 1.5	--	27
1960 --	<b>tuberculosis</b> ;	10,866 deaths/death rate 6.1 per 100K; OR death rate 3.6	--	64
1961 --	<b>tuberculosis</b> ;	9,938 US deaths/death rate 5.4 per 100k; OR death rate 3.3	--	59
1962 --	<b>tuberculosis</b> ;	9,508 US deaths/death rate 5.1 per 100K pop.; OR death rate 2.4	--	44
1963 --	<b>influenza</b> ;	7,083 US deaths/death rate 3.8; OR death rate 2.2	--	40
1963 --	<b>tuberculosis</b> ;	9311 US deaths/death rate 4.9 per 100K pop.; OR death rate 3.2	--	59
1964 --	<b>tuberculosis</b> ;	US deaths 8,303/death rate 4.3 per 100K; OR death rate 2.8	--	53
1964 --	Mar 27, <b>tsunami</b> ,	Beverly Beach State Park (4), Seaside (related heart attack) OR--		5
1965 --	<b>tuberculosis</b> ;	7,934 US deaths, death rate 4.1 per 100K; OR death rate 2.1	--	39
1966 --	<b>tuberculosis</b> ;	7,625 US TB deaths; subset for OR	--	44
1966 --	Apr 30, head-on <b>collision</b> ;	car with teens and family station wagon, US26, Elsie, OR--		8
1968 --	<b>influenza</b> ;	ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; OR 2.4	--	49
1968 --	<b>tuberculosis</b> ;	6,292 US deaths/death rate 3.15 per 100K; OR death rate 1.34	--	27
1969 --	<b>tuberculosis</b> ;	5,567 US deaths/death rate 2.76 per 100K; OR death rate 1.41	--	29
1969 --	Jan 05-Mar 15, A2 "Hong Kong" <b>influenza-pneumonia</b>	epidemic, Portland, OR	--	57
1970 --	<b>tuberculosis</b> ;	ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; OR 1.05--		22
1971 --	<b>tuberculosis</b> ;	4,501 US TB deaths/death rate 2.18 per 100K; OR death rate 1.16	--	25
1972 --	<b>tuberculosis</b> ;	4,376 US deaths, death rate 2.09 per 100K; OR death rate 1.64	--	36
1972 --	Jan 06, home fire from burners on stove, unattended children, Portland, OR		--	all 7
1973 --	<b>tuberculosis</b> ;	3,875 US deaths/death rate 1.84 per 100K; OR 1.21 per 100K	--	27
1974 --	<b>tuberculosis</b> ;	3,513 US TB deaths/death rate 1.65 per 100K; OR rate 1.36	--	31
1974 --	Jan 16, <b>Canyon Mountain landslide</b> ,	Canyon Pass, Canyonville, OR	--	9
1975 --	<b>tuberculosis</b> ;	3,333 US TB deaths/death rate 1.55 per 100K; OR death rate 0.82	--	19
1976 --	<b>tuberculosis</b> ;	3,130 US TB deaths/death rate 1.44 per 100K; OR, 0.93	--	22
1977 --	<b>tuberculosis</b> ;	2,968 US TB deaths/death rate 1.35 per 100K; OR, 0.66	--	16
1978 --	<b>influenza</b> ;	4,052 US flu deaths/death rate 1.82 per 100K; OR death rate 1.55	--	39
1978 --	<b>tuberculosis</b> ;	2,914 US TB deaths/death rate 1.31 per 100K; OR death rate 1.00	--	25
1979 --	<b>tuberculosis</b> ;	2,007 US TB deaths/death rate 0.89 per 100K pop.; OR rate 0.50	--	13
1979 --	Jan 09-10, <b>ice storm</b> ,	Portland, Multnomah County, OR	--	5
1980 --	<b>tuberculosis</b> ;	1,978 US TB deaths/death rate 0.87 per 100K pop.; OR, 0.76	--	20
1980 --	Jan 08-10, <b>snowstorm</b> ,	OR (6) and WA (3)	--	6
1981 --	<b>tuberculosis</b> ;	1,937 US TB deaths/death rate 0.84 per 100K pop.; OR, 0.56	--	15
1982 --	<b>tuberculosis</b> ;	1,807 US TB deaths/death rate 0.78 per 100K pop., OR, 0.41	--	11
1983 --	<b>tuberculosis</b> ;	1,779 US TB deaths/death rate 0.76 per 100K pop.; OR, 0.64	--	17
1984 --	<b>tuberculosis</b> ;	1,729 US TB deaths, death rate 0.73 per 100K pop.; OR, 0.56	--	15
1985 --	<b>tuberculosis</b> ;	1,752 US TB deaths, death rate 0.74 per 100K pop.; OR, 0.49	--	13
1986 --	May 14-15, <b>blizzard</b> ,	Oregon Episcopal School mt. climbing group, Mt. Hood, OR--		9
1986 --	Aug 21, <b>Idaho Helicopters crash</b>	after flying into upsloping canyon ~Frenchglen OR--		6
1987 --	<b>HIV AIDS</b> ;	13,468 deaths/US death rate 5.55 per 100K population; OR rate 2.55	--	69
1987 --	<b>tuberculosis</b> ;	1,755 US TB deaths, death rate 0.72 per 100K pop., OR rate 0.37	--	10
1988 --	<b>HIV AIDS</b> ;	16,602 deaths/US death rate 6.8 per 100K population; OR rate 3.61	--	99
1988 --	<b>tuberculosis</b> ;	1,921 US TB deaths, death rate 0.78 per 100K pop.; OR rate 0.51	--	14
1988 --	summer, <b>excessive heat</b> ,	Lane, Malheur, Marion and Polk (2) Counties, OR	--	5

**Oregon (continued):**

1988 -- Aug 03, <b>multi-vehicle</b> pileup (smoke from burning field), I-5 near Albany, OR	--	7
1989 -- <b>HIV/AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; OR rate 4.26	--	119
1989 -- <b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K pop.; OR rate 0.50	--	14
1989 -- Feb 1-8, <b>arctic blast</b> from Alaska, snow, ice and cold (76-91 US deaths)	--	5
1990 -- <b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K pop.; OR rate 0.49	--	14
1991 -- <b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K pop., OR rate 0.41	--	12
1992 -- <b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K pop.; OR rate 0.43	--	13
1993 -- <b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K pop.; OR rate 0.33	--	10
1994 -- <b>tuberculosis</b> ; 1,478 US TB deaths; death rate 0.56 per 100K pop., OR rate 0.35	--	11
1996 -- Feb 05-09, heavy rain, <b>flooding, mudslides</b> , Pacific Northwest, esp. western OR	--	8
1996 -- Nov 18-20, <b>mudslides</b> , Douglas County, OR	--	5
1999 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; OR, 0.412	--	14
1999 -- Sep 25, <b>I-84 pileup</b> /dust storm/high wind/wheat field under plow ~Pendleton OR	--	8
2003 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K pop.; OR, 0.479	--	17
2005 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K pop.; OR, 0.443	--	16
2007 -- Dec 1-4, <b>winter storm</b> (The Great Coastal Gale of 2007) OR	--	5
2008 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K pop.; OR rate 0.56	--	21
2011 -- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000 pop.; OR, 0.4	--	15
2012 -- Dec 30, tourist charter <b>bus</b> crash, icy I-84 near Pendleton, OR	--	9
2014 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 1.4 per 100,000 pop/; OR had 1.0	--	41
2015 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, OR, 0.7	--	28
2016 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.7 per 100K, OR 0.5	--	21
2016 -- <b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; OR rate 0.9	--	38
2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; OR rate 1.01	--	42
2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; OR death rate 0.72	--	30
2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; OR rate 0.83	--	35
2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; OR death rate 1.11	--	47
2020 -- <b>influenza</b> ; <sup>727</sup> 5,943 US deaths/death rate 1.8 per 100K; OR death rate 1.58	--	67
2021 -- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; OR death rate 0.97	--	67
2023 -- <b>COVID-19</b> , subset of 71,691 US deaths	--	582

**Breakout by Type of Oregon Large Loss-of-Life Events (10 or more fatalities):**

74 -- <b>Disease</b> , especially communicable, especially epidemics (Plus 131 in "Other.")
38 -- <b>Maritime and Inland Waterways</b> .
26 -- <b>Winter Weather, Cold, Hypothermia</b> . (Plus 6 events 5-7 deaths each.)
20 -- <b>Violence</b>
11 -- <b>Aviation</b> (Plus 5 noted with 6-9 deaths each.)
7 -- <b>Flooding</b> . (Plus 2 <10 lives lost events: ~5 in 1890 and 9 in 1996 (flood/slide deaths).)
5 -- <b>Fire, structural</b> . (Plus 7 deaths in 1972 Portland fire.)
3 -- <b>Heat</b> . (Plus 5 heat-related deaths in 1988.)
3 -- <b>Tainted Food, Drugs, Medicines (unintentional poisoning)</b>
2 -- <b>Forest Fires/Wildfires</b> .

<sup>727</sup> Distinct from 47,601 pneumonia deaths in 2020 (ICD codes J12-J18).

**Oregon (continued):**

- 2 -- **Structural Failure.** (Cross-listed in Flooding and in Rail in that flood weakened trestle.)
- 2 -- **Wind Storms.** (Plus 7 deaths from wind and flooding in late Oct 1950 storms.)
- 1 -- **Explosion.**
- 1 – **Rail**
- 1 – **Volcano.** (OR residents killed in Mt. St. Helens vicinity on May 18, 1980 when it erupted.)
- 0 – **Landslides/Mudslides** (3 events <10 deaths: 4 in 1933, 9 in 1974 and one with 5 in 1996.)
- 0 – **Road/Highway.** (5 events 5-9 deaths: 1958 (5), 1966 (8), 1988 (7), 1999 (8) 2012 (9).
- 0 – **Tornadoes.** (3-6 deaths in 6-14-1888 Lexington tornado).

## Pennsylvania

1.	1699 – <b>yellow fever</b> epidemic, Philadelphia, PA	-- 220
2.	1731 – <b>smallpox</b> epidemic, Philadelphia, PA	-- 288
3.	1736 – <b>smallpox</b> epidemic, Philadelphia, PA	-- 158
4.	1741 – <b>yellow fever</b> epidemic, Philadelphia, PA	-- 250
5.	1747 – <b>measles epidemic</b> , Philadelphia, PA (cases noted also in CT, NH, NY, SC)	-- 84
6.	1747 – June 29- frost (probably Oct), <b>yellow fever</b> outbreak, Philadelphia, PA	-- >43
7.	1754 – <b>typhoid fever</b> , Philadelphia, PA	-- 273
8.	1755 – Oct 16-17, <b>massacre</b> , Natives attack German settlers, Penn’s Creek, PA	-- ≥13
9.	1755 – Oct 31~Nov 2, Delaware/Shawnee <b>attack</b> settlers, Fulton/Franklin Co, PA	-- ≥11
10.	1755 – Nov 14-15, Delaware Natives <b>attack</b> German settlers, Berks County, PA	--9~15
11.	1756 -- <b>smallpox</b> epidemic, Philadelphia, PA	-- 900
12.	1758-59 -- <b>measles</b> epidemic, Philadelphia, PA (cases also in MA ME NJ SC VA)	-- >100
13.	1759 – <b>smallpox</b> epidemic, Philadelphia, PA	-- 600
14.	1761 – spring, 1 <sup>st</sup> American <b>influenza</b> epidemic, esp. Natives, esp. MA, PA	--Hundreds
15.	1762 – Aug-Nov, <sup>728</sup> <b>yellow fever</b> epidemic, Philadelphia, PA	--~100?
16.	1763 – Wyoming Flats <b>massacre</b> of settlers, Luzerne County, PA	-- ~ 20
17.	1763 – winter, Throat Distemper epidemic ( <b>diphtheria</b> ), Philadelphia, PA	-- >10
18.	1763 – Dec 14 & 27, <b>massacres</b> , <i>Paxton Boys</i> kill Natives, Conestoga & Lancaster, PA	-- 20
19.	1764 – July 26, <b>massacre</b> , Indians attack one-room Schoolhouse, ~Greencastle, PA	-- 11
20.	1768 – Jan 10-11, Stump <b>massacre</b> of Native men/women/children, Penn Twp, Cumberland Co., PA	--10
21.	1768 – fall-winter (two months), <b>smallpox</b> , especially children, Reading, PA	-- >60
22.	1770-71 -- winter, <b>influenza</b> epidemic, “took scores of lives,” Philadelphia, PA <sup>729</sup>	-- ≥40
23.	1772 – <b>measles</b> epidemic, Philadelphia, PA	-- 180
24.	1773 – <b>smallpox</b> epidemic, Philadelphia, PA	-- ≥300
25.	1776-77 – <b>smallpox</b> , Philadelphia, PA	--2,500
26.	1793 – <b>scarlet fever</b> , Bethlehem (19) <sup>730</sup> and Philadelphia (no numbers)	-- >19
27.	1793 – Aug–Nov, <b>yellow fever</b> epidemic, Philadelphia, PA	--4,041-5,000
28.	1797 – summer-fall, <b>yellow fever</b> outbreak, Philadelphia, PA	--1,300
29.	1798 – <b>yellow fever</b> outbreak, Chester and especially Philadelphia, PA	--3,695
30.	1799 – July-Nov (especially Sep), <b>yellow fever</b> epidemic, Philadelphia, PA	--1,000
31.	1800 – July-Sep, <b>yellow fever</b> , Philadelphia, PA	-- 20
32.	1802 – <b>yellow fever</b> outbreak, Philadelphia, PA	-- 307
33.	1803 – <b>yellow fever</b> , Philadelphia, PA	-- 195
34.	1805 – <b>yellow fever</b> , Philadelphia, PA	300-400
35.	1807 – <b>smallpox</b> , Philadelphia, PA	-- 32
36.	1808 – <b>smallpox</b> , Philadelphia, PA	-- 145
37.	1817 – Aug 8-9, downpour, <b>flash flooding</b> , York, PA	-- 10
38.	1819 – <b>yellow fever</b> outbreak, Philadelphia, PA	-- 13

<sup>728</sup> Redman has the outbreak from Aug-Oct. Rush has it from Aug-Dec. We compromise between the two in that the mosquitoes which are the vector are generally killed off, or go into hibernation, with the first good frost.

<sup>729</sup> The number is our attempt to translate statements that “scores” (a score=20) died and that influenza “ragged.”

<sup>730</sup> This is if the Bethlehem noted is the one in PA and not the one in CT. Webster just notes deaths in Bethlehem.

Kohn notes 19 scarlet fever deaths in Bethlehem, PA. One trusts his was not an assumption on the “State.” Caulfield cites Rush to the effect the epidemic (in Philadelphia) met its victims “with symptoms of great violence.”



**Pennsylvania (continued):**

39. 1820 – July 24-Nov,	<b>yellow fever</b> outbreak, Philadelphia, PA	--83-84
40. 1822 – Jan 24,	<b>fire</b> , Philadelphia Orphan Asylum, Schuylkill & Cherry, Philly, PA	-- 23
41. 1823 –	<b>smallpox</b> , Philadelphia, PA	-- 160
42. 1824 –	<b>smallpox</b> , Philadelphia, PA	--325-330
43. 1832 – June 26-Dec 17,	<b>cholera</b> epidemic, especially Philadelphia	1,087-1,102
44. 1833 – June 11-Aug 1 (esp.),	<b>cholera</b> , esp. Pittsburgh/52, also Claysville, elsewhere	-- ≥56
45. 1833 – Oct 04,	<b>fire</b> , Eagle Woolen Mills, Allegheny, PA	-- 13
46. 1834 – Aug,	<b>cholera</b> , Beaver and Washington Counties, especially Pittsburgh/45, PA	-- 74
47. 1834 –	<b>smallpox</b> epidemic, Philadelphia, PA	-- 195
48. 1835 –	<b>smallpox</b> , especially New York City (351), Philadelphia (101)	-- 101
49. 1836 –	<b>scarlet fever</b> , Philadelphia, PA	-- 240
50. 1837 –	<b>scarlet fever</b> , Philadelphia, PA	-- 205
51. 1843 – Aug 5,	cloudburst, <b>flash flood</b> , west and southwest of Philadelphia, PA	-- 19
52. 1844 – May 6-8,	<b>riots</b> , Protestant Nativists and Catholic Irish, Philadelphia, PA	-- 14
53. 1844 – July 6-8,	<b>anti-Irish-Catholic Nativist riot/military response</b> , Philly, PA	--15-50
54. 1846 – Jan 12,	coal <b>mine</b> cave-in, Delaware & Hudson Mine, Carbondale, PA	-- 14
55. 1848 –	<b>smallpox</b> , Philadelphia (100) and Carlisle (4-5), PA	-- 105
56. 1848 –	<b>typhus</b> , Moyamensing (south Philadelphia), PA	-- 205
57. 1849 – May 30-Sep 8,	<b>cholera</b> , statewide, esp. Philadelphia (~1000), Pittsburgh vic.	--1,740
58. 1849 – summer-fall,	<b>heat and sunstroke</b> ; subset of 248 such deaths 31 States	-- 26
59. 1850 –	<b>croup</b> ; subset, 10,706 deaths/36 States/DC/Territories, and 28,551 PA deaths	--1,006
60. 1850 – spring-Aug 23,	<b>cholera</b> , Alleghany City, Pittsburgh, Philadelphia, Uniontown	-- 59
61. 1850 –	<b>dysentery</b> ; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571	--2,683
62. 1850 –	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), PA	-- 316
63. 1850 –	<b>scarlet fever</b> ; subset 9,584 such deaths 36 States/Territories/DC (avg. 266)	--1,974
64. 1850 –	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; avg. 65	-- 208
65. 1850 –	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	--3,520
66. 1850 –	<b>whooping Cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	-- 288
67. 1850 – July 09,	<b>fire</b> , Old City Philadelphia, PA	-- 44
68. 1850 – July 18-19,	<b>tropical storm remnant</b> , <b>flooding</b> , East-Central PA	-- 20
69. 1850 – Sep 02,	rain/ <b>flooding</b> , esp. east central PA, esp. Tamaqua, Nescopeck Forge	--100-120
70. 1851 –	<b>smallpox</b> , esp., NYC/562-586, Philly/316; Augusta GA/7, Chicago/5	--895-909
71. 1852 –	<b>cholera</b> , especially Chambersburg, PA	-- ≥21
72. 1852 –	<b>smallpox</b> outbreak, Philadelphia, PA	-- 427
73. 1853 – July 19-Oct,	<b>yellow fever</b> epidemic, Philadelphia, PA	-- 128
74. 1854 – June-Oct,	<b>cholera</b> , Columbia, Philadelphia, esp. Pittsburgh, PA	--1,008-1,155
75. 1855 -- Oct 27,	propeller <b>Charter Oak</b> founders, Lake Erie gale, off Girard, PA	--10-11
76. 1856 – Mar 15,	steam ferry <b>New Jersey</b> fire, DE River, Philly to Camden, NJ	-- 61
77. 1856 – July 01,	<b>wharf fails</b> , Reed Street, Delaware River, Philadelphia, PA	--10-20
78. 1856 – July 17,	North Penn. Rail <b>Great Train Wreck</b> , Camp Hill/Ft. Washington, PA	66-67
79. 1860 –	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US deaths	--1,326
80. 1860 –	<b>measles</b> , especially children (PA subset of 3,900 measles deaths nationwide)	-- 217
81. 1860 –	<b>scarlet fever</b> ; subset of 26,402 deaths in 38 Census States & DC <sup>731</sup>	--3,156

<sup>731</sup> Second leading known cause of death in the State in 1860, behind consumption.

**Pennsylvania (continued):**

82.	1860 –	<b>smallpox</b> (PA subset of 1,263-1,271 smallpox deaths in reporting States)	--	87
83.	1860 –	<b>tuberculosis</b> (“consumption”) (PA subset of 49,082 death nationwide) <sup>732</sup>	--	5,011
84.	1860 –	<b>typhoid fever</b> (PA subset, 19,236 deaths, 38 “registration” States and DC)	--	1,344
85.	1860 –	<b>whooping cough</b> (PA subset of 8,408 whooping cough deaths nationwide)	--	477
86.	1860 –	Mar 06, steamer <b>Alfred Thomas</b> boiler explosion, Delaware River, Easton PA	--	10-12
87.	1860 –	Sep 24, <b>boiler explosion</b> , W. W. Wallace Marble Works, Pittsburgh, PA	--	10-12
88.	1861 –	<b>smallpox</b> outbreak, Philadelphia, PA	--	758
89.	1862 –	Mar 29, Samuel Jackson Cartridge Factory <b>explos.</b> , Tenth & Reed, Philly, PA	--	15-17
90.	1862 –	June 4/5, <b>Great Flood of '62</b> , flooding & <b>dam failures</b> , Lehigh River, PA	--	~150
91.	1862 –	Sep 17, Allegheny <b>Arsenal explosion</b> & fire, Lawrenceville/Pittsburgh, PA	--	74-79
92.	1863 –	<b>smallpox</b> , Philadelphia	--	171
93.	1864 –	<b>cerebral spinal meningitis</b> Epidemic, Carbondale & Philadelphia, PA	--	784
94.	1864 –	<b>smallpox</b> , Philadelphia, PA	--	260
95.	1864 –	<b>typhoid fever</b> , Philadelphia, PA	--	648
96.	1864 –	July 20, <b>structural collapse</b> , Blockley Almshouse and Insane Asylum, Philly	--	16-18
97.	1864 –	July 15, Headon Erie RR <b>war-prisoner train/PA coal train crash</b> ~Shohola PA	--	>74
98.	1865 –	<b>smallpox</b> outbreak, Philadelphia, PA	--	524
99.	1865 –	<b>typhoid fever</b> , Philadelphia, PA	--	773
100.	1865 –	Feb 08, <b>conflagration fire</b> , Philadelphia, PA	--	20
101.	1865 –	Mar 31, US Govt. transport <b>General Lyon</b> burns (~521-571), Cape Hatteras, NC <sup>733</sup>	--	~28
102.	1866 –	Apr 12, steamer <b>Financier</b> fire, Ohio River, Crow Island, near Baden, PA	--	10
103.	1866 –	late July start, <b>cholera</b> epidemic, Philadelphia, PA	--	834-900
104.	1866 –	Sep 14, <b>bridge collapse</b> , Johnstown, PA	--	13
105.	1867 –	June 6, Geasy & Ward’s Cabinet Makers boiler <b>explosion</b> & <b>fire</b> , Philly PA	--	23-27
106.	1867 –	June 19, <b>fire</b> and wall collapse, Fox’s American Theater, Philadelphia PA	--	10-15
107.	1867 –	by Oct 23, <b>cholera</b> , U.S. Ship Potomac, Philadelphia Navy Yard, PA	--	18
108.	1867 –	Nov 8, <b>boiler explosion</b> , Reese & Co. Rolling-Mill, Pitt Township, PA	--	17-20
109.	1868 –	<b>smallpox</b> , Philadelphia, PA	--	48
110.	1868 –	Mar 31, <b>mine</b> shaft platform break/fall, Diamond Coal Mine, Scranton PA	--	12
111.	1868 –	Apr 15, broken rail, <b>train derails</b> /fire, Carr’s Rock, Pike County, PA	--	22-26
112.	1868 –	July 16, <b>heatwave</b> , Philadelphia (16) Pittsburgh (1), PA	--	17
113.	1869 –	Sep 6, Avondale coal <b>mine</b> fire, Plymouth, PA	--	110
114.	1869 –	Dec 18, <b>subsidence</b> , houses fall into coal <b>mine</b> , Stockton, ~Hazelton, PA	--	6-15
115.	1870 –	<b>croup</b> (PA subset of 10,692 deaths in census “registration” States)	--	1,688
116.	1870 –	<b>diarrhoea</b> (953), <b>dysentery</b> (684), <b>enteritis</b> (996); U.S. Census data	--	2,633
117.	1870 –	<b>diphtheria</b> , esp. children (PA subset, 6,303 US diphtheria deaths) Philly/172	--	702
118.	1870 –	<b>measles</b> , especially children; PA subset of 9,237 US measles deaths	--	554
119.	1870 –	<b>scarlet fever</b> , esp. children; subset, 20,339 US scarlet fever deaths; Philly/953	--	5,645
120.	1870 –	<b>tuberculosis</b> (consumption); PA subset, ~70,000 US TB deaths; Philly/2,308	--	7,481
121.	1870 –	<b>typhoid fever</b> (PA subset of 22,187 typhoid fever deaths nationwide)	--	1,898
122.	1870 –	<b>typhus</b> (PA subset of 1,770 typhus deaths nationwide)	--	262
123.	1870 –	<b>whooping cough</b> (PA subset of 9,008 whooping cough deaths nationwide)	--	501

<sup>732</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>733</sup> Noted here in that about 28 members of PA State military units, mostly paroled POWs, died in this loss.

**Pennsylvania (continued):**

124.	1871 –	scarlet fever	, Philadelphia	--	262
125.	1871 –	May 27,	West Pittston coal mine smoke suffocations, West Pittston, PA	--	20
126.	1871 –	Aug 14,	Eagle Shaft coal mine explosion, Pittston, PA	--	17
127.	1871 –	Sep-Dec,	smallpox epidemic, Philadelphia, PA	--	2,279
128.	1872 –	cerebral spinal meningitis	, Philadelphia, PA	--	133
129.	1872 –	measles	epidemic, Philadelphia, PA	--	143
130.	1872 –	smallpox	epidemic, especially, Philadelphia (2,585), PA	--	2,591
131.	1872 –	summer,	excessive heat and sunstroke, Philadelphia, PA	--	136
132.	1872 –	Dec 25,	Memorial Bap. Church XMAS Svc. Floor collapse, Newberry, PA	--	13-15
133.	1873 –	cerebral spinal meningitis	, Philadelphia, PA	--	246
134.	1873 –	smallpox	, Philadelphia, PA	--	39
135.	1873 –	June 10,	coal mine fire, Henry Clay Coal Mine, Shamokin, PA	--	10
136.	1874 –	scarlet fever	, Philadelphia, PA	--	461
137.	1874 –	Feb 13,	3 <sup>rd</sup> story ice house walls fail, brewery collapse, Philadelphia, PA	--	8-12
138.	1874 –	July 26,	heavy rain, flooding, Allegheny/Pittsburgh, PA	--	100-220
139.	1875 –	smallpox	, Philadelphia, PA	--	54
140.	1875 –	tuberculosis	, Philadelphia, PA	--	2,359
141.	1876 –	smallpox	, Philadelphia (407), Pittsburgh (86)	--	493
142.	1877 –	smallpox	, Philadelphia, PA	--	155
143.	1877 –	July 21-24,	Great Railroad Strike, Pittsburgh/Reading/Scranton/Shamokin, PA	--	66-96
144.	1877 –	Oct 4,	tropical storm flooding, rails wash out, train derails ~Kimberton, PA	--	11
145.	1878 –	Jan 31,	steamship Metropolis wrecks, gale, S. of Jones Hill Station, NC <sup>734</sup>	--	85-100
146.	1878 –	July 04,	severe weather, wind, downbursts, flash flood ~ Pittsburgh, PA	--	15
147.	1878 –	Oct 21-23,	hurricane and flooding, especially Philadelphia, PA	--	12
148.	1879 –	June-May 1880,	croup, esp. Oct-Dec, esp. children; 17,966 US croup deaths	--	1,005
149.	1879 –	June-May 1880,	diphtheria, esp. Sep-Jan, esp. children; 38,143 US deaths	--	4,632
150.	1879 –	June-May 1880,	malarial fever; PA subset, 20,231 US malarial deaths	--	445
151.	1879 –	June-May 1880,	measles, esp. children; PA subset, 8,254 US measles deaths	--	220
152.	1879 –	June-May 1880,	meningitis (PA subset of 7,481 US meningitis deaths)	--	305
153.	1879 –	June-May 1880,	tuberculosis (PA subset of 91,270 TB deaths nationwide)	--	4,844
154.	1879 –	June-May 1880,	typhoid fever (PA subset of 23,339 U.S. Typhoid deaths)	--	854
155.	1879 –	June-May 1880,	whooping cough; subset, 11,064 US whoop cough deaths; PA	--	247
156.	1880 –	scarlet fever	, esp. children; subset, 16,388 census year SF deaths; PA <sup>735</sup>	--	1,795
157.	1880 –	Jan-Dec,	smallpox epidemic, Philadelphia, PA	--	429
158.	1880 –	Aug 11,	trains collide, West Jersey & Atlantic RR, Mays Landing, NJ <sup>736</sup>	--	23-26
159.	1880 –	Oct 9,	trains collide, Pennsylvania Railroad, Pittsburgh, PA	--	27-32
160.	1881 –	diphtheria	, especially Philadelphia (457), Pittsburgh (205), Allegheny (56)	--	742
161.	1881 –	smallpox	, especially Philly (1,336), Pittsburgh (448), Allegheny (108)	--	1,962
162.	1881 –	Jan 06,	Big Puddle boiler explosion, Allentown Rolling Mill Co., PA	--	13-14
163.	1881 –	Feb 27,	fire, St. Patrick's Orphanage, Scranton, PA	--	17

<sup>734</sup> Cross-listed in PA; most passengers and fatalities were Philadelphia and vicinity RR industry connected men.

<sup>735</sup> PA led nation in Scarlet Fever deaths in 1880; was epidemic in some central PA localities.

<sup>736</sup> Cross-listed in PA in that this was a special excursion train carrying members of St. Anne's Roman Catholic Church in Philadelphia to Atlantic City and back. Virtually all, if not all, of the fatalities were from Philadelphia.

**Pennsylvania (continued):**

164.	1881 -- July 06-12, <b>heat wave</b> , sunstroke & excessive heat, Pittsburgh, PA	-- 32
165.	1881 -- Oct 12, <b>fire</b> , Randolph Cotton and Woolen Mill, Randolph St., Philly, PA	-- 9-12
166.	1881 -- Dec 10, lamp <b>fire</b> , boarding house, Rock Cut, ~Pittsburgh, PA	--16-17
167.	1882 -- Feb 17, <b>explosion</b> , Jackson Fireworks Plant, Chester, PA	--15-21
168.	1882 -- <b>smallpox</b> , esp. Bethlehem (192), Pittsburgh/Allegheny (490), Philly (314)	--1,111
169.	1883 -- Jan 1-Dec 31, <b>smallpox</b> , especially Philadelphia (170) & Pittsburgh (13)	-- 183
170.	1884 -- Feb 20, coal <b>mine</b> explosion, West Leisenring mine, West Leisenring, PA	-- 19
171.	1884 -- May 14, <b>trains collide</b> , Baltimore & Ohio RR, near Connellsville, PA	-- 14
172.	1884 -- Oct 27, <b>mine</b> "fire damp" gas explos., Youngstown Coke Works, Uniontown PA	--14
173.	1885 -- <b>diphtheria and croup</b> , especially children, esp. Philadelphia (1,130)	--1,140
174.	1885 -- Feb 12, <b>arson fire</b> , Dept. for Insane, Blockley Almshouse, Philadelphia	--19-20
175.	1885 -- Apr 06, Cuyler Coal <b>Mine</b> roof fall, Raven Run, PA	-- 10
176.	1885 -- spring, <b>typhoid fever</b> epidemic, Plymouth, PA	-- 114
177.	1885 -- July 15-26, <b>excessive natural heat</b> , Philadelphia, PA	-- 40
178.	1885 -- Aug 11, gas from boiler fire, West End Coal <b>Mine</b> , Mocanaqua, PA	-- 12
179.	1885 -- Dec 18, water breach/quicksand, Nanticoke Coal <b>Mine</b> #1, Nanticoke, PA	--26-28
180.	1885 -- Dec 25, steamship <b>City of Nassau</b> lost after leaving Philadelphia, PA	-- 17
181.	1886 -- Nov 26, <b>mine</b> gas explosion, Conyngham Coal Mine, Wilkes-Barre, PA	-- 12
182.	1887 -- <b>diphtheria</b> , especially Philadelphia (858)	-- 874
183.	1888 -- Mar 11-14, <b>blizzard</b> , PA, especially Philadelphia and PA <b>maritime</b>	-- ~41
184.	1888 -- June 26, <b>trains collide</b> , Penn & Schuylkill RR, Cable City, ~Shamokin PA	-- 6-11
185.	1888 -- Oct 10, Lehigh Valley RR <b>trains collide</b> , Mud Run, Carbon County, PA	--64-66
186.	1888 -- Oct 16, <b>trains collide</b> , near switch at Tamanend, PA	-- 10
187.	1888 -- Nov 03, Cook's Run <b>mine</b> explosion, Kettle Creek Coal Mine, Westport, PA	-- 18
188.	1888 -- Nov 25, storm, Philly steam collier <b>Allentown</b> grounds off Cohasset, MA <sup>737</sup>	--all 18
189.	1889 -- Jan 9, <b>winter windstorm</b> , especially Pittsburgh and Reading, PA	--48-61
190.	1889 -- Feb 25, <b>powder explosion</b> , squib (mining fuse) factory, Plymouth, PA	-- 11
191.	1889 -- May 9, Kaska William Coal <b>Mine</b> car falls, Men in Cage, Middleport PA	-- 10
192.	1889 -- May 31, <b>dam failure, flash flood, fire</b> , Johnstown and vicinity, PA	--2,209-3,188
193.	1889 -- May 31/June 1, <b>flooding</b> , Nittany Valley, North Central PA	-- ~84
194.	1889 -- June 26, <b>three trains collide</b> , burn, Loyal Hanna Bridge, near Latrobe PA	--10-12
195.	1889 -- Dec 10, fire scare, <b>trampling</b> , Parke Theater/Opera House, Johnstown, PA	-- 12
196.	1889-90 -- June-May, <b>croup</b> , subset of 13,862 U.S. croup deaths	--1,384
197.	1889-90 -- June-May, <b>diphtheria</b> , subset, 27,815 U.S. diphtheria deaths; PA <sup>738</sup>	--2,976
198.	1889-90 -- June-May, <b>measles</b> , subset of 9,256 US measles deaths	-- 676
199.	1889-90 -- June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--2,836
200.	1890 -- Jan-Mar 8, <b>influenza</b> (La Grippe/Russian Flu), esp. Philadelphia (1,218)	--1,221
201.	1890 -- May 15, coal <b>mine</b> explosion, Jersey No. 8 Coal Mine, Ashley, PA	-- 28
202.	1890 -- June 16, Hill Farm Coal <b>Mine</b> fire, Dunbar, PA	-- 31
203.	1890 -- Aug 19, <b>tornadoes</b> , Luzerne, Susquehanna, Berks, Carbon Counties, PA	-- 28
204.	1890 -- Sep 19, <b>three train collision</b> , Shoemakersville, Berks County, PA	-- 22
205.	1891 -- <b>typhoid fever</b> outbreak, Philadelphia, PA	-- 683

<sup>737</sup> Cross-listed in PA in that the ship was owned and operated out of Philadelphia, and most of the crew were PA.

<sup>738</sup> Average U.S. diphtheria death rate per 1,000 deaths was 33.06; Pittsburgh had 60.60 and Allegheny, 46.23.



### Pennsylvania (continued):

206.	1891 -- Jan 27, “fire damp” gas explosion, Mammoth coal <b>mine</b> No.1, Mammoth PA --	≥109
207.	1891 -- Feb 04, <b>mine flood</b> , Jeansville Coal Mine, near Hazleton, PA	-- 17
208.	1891 -- Apr 02, <b>violence</b> , Deputies kill strikers, Morewood <b>Mine</b> , Morewood, PA	-- 11
209.	1891 -- Nov 08, coal <b>mine</b> explosion, Susquehanna No. 1, Coal Mine, Nanticoke, PA--	12
210.	1892 -- Apr 20, Lytle Coal <b>Mine flooding</b> , miners drown, near Minersville, PA	-- 10
211.	1892 -- Apr 27, <b>fire</b> , Gilmore’s Central Theater, Philadelphia, PA	-- 14
212.	1892 -- June 5, downpour/mill <b>dam failure/flood/fuel</b> fire, Titusville, Oil City, PA--	126-132
213.	1892 -- June 25, <b>trains collide</b> , Western Express, near Union Station, Harrisburg, PA--	12
214.	1892 -- July 06, <b>violence</b> , strikers & Pinkertons, Carnegie Steel, Homestead, PA	-- 11
215.	1892 -- July 23, York Farm Coal <b>Mine</b> gas explosion, Pottsville, PA	-- 15
216.	1892 -- Sep 08, laborer and passenger <b>trains collide</b> near Eckenrode Mills, PA	-- 14
217.	1893 -- Apr 01, Neilson Coal <b>Mine</b> fire, Shamokin, PA	-- 10
218.	1894 -- <b>diphtheria</b> , esp. Philly (1,452); PA subset, ≥14,606 US diphtheria deaths	--1,725
219.	1894 -- Feb 13, Gaylord Coal <b>Mine</b> roof collapse, Plymouth, PA	-- 13
220.	1896 -- <b>measles</b> , esp. Philadelphia (191), Mount Carmel (75), Pittsburgh (30)...	-- 356
221.	1896 -- Mar 23, coal <b>mine</b> explosion, Berwind Coal Mine, DuBois, PA	-- 13
222.	1896 -- June 28, <b>mine</b> flood and roof collapse, Twin Shaft Coal Mine, Pittston, PA	-- 58
223.	1896 -- Aug 06-12, <b>heatwave</b> , especially Philadelphia/80-121 & Pittsburgh/~100	--180-226
224.	1897 -- <b>typhoid fever</b> , subset ≥9,192 US typhoid deaths; Philly/401, Pittsburgh/184	-- 803
225.	1897 -- July 02-12, <b>heat</b> (608-616 US heat deaths), PA subset, esp. Pittsburgh/14-22	--26-34
226.	1898 -- <b>typhoid fever</b> , esp. Pittsburgh, Philadelphia, PA Vol. troops, U.S. camps	--1,167
227.	1898 -- Feb 09, <b>fire &amp; explosions</b> , Chautauqua Lake Ice Co. bldg., Pittsburgh, PA	--14-20
228.	1898 -- Aug 22, Carnegie <b>Tunnel</b> wall collapse burying workmen, ~Pittsburg, PA	-- 8-10
229.	1898 -- Sep 02-07, <b>heatwave</b> , Philadelphia, PA	-- 30
230.	1899 -- <b>typhoid fever</b> epidemics/outbreaks, especially Philadelphia; also west PA	--1,011
231.	1899 -- Jan 09, <b>trains collide</b> , Lehigh Valley Railroad near West Dunellen, NJ <sup>739</sup>	-- 17
232.	1899 -- Feb 11-14 especially, <b>arctic cold, snow, high wind</b> , exposure deaths	-- 14
233.	1899 -- May 12, <b>trains collide</b> , Philadelphia & Reading Railroad, Exeter, PA	-- 29
234.	1899 -- Dec 23, Sumner <b>mine</b> explosion, Braznell Coal, Redstone Township, PA	-- 19
235.	1900 -- <b>croup</b> ; contagious viral infection; PA subset (US high), 12,484 US croup deaths)	--1,064
236.	1900 -- <b>diphtheria</b> , subset (highest in US), 16,475 US deaths), esp. Philly (1,040)	--2,805
237.	1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 455
238.	1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths; 3 <sup>rd</sup> largest state loss, 1900)	-- 978
239.	1900 -- <b>measles</b> (subset of 12,866 US measles deaths; 5 <sup>th</sup> highest state measles loss)	-- 815
240.	1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths; 2 <sup>nd</sup> highest state loss)	--1,613
241.	1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths; largest loss by a state)	-- 894
242.	1900 -- <b>tuberculosis</b> (90,199 PA deaths all causes) (109,750 US TB deaths)	--7,791
243.	1900 -- <b>typhoid fever</b> (State subset of 35,379 typhoid fever deaths nationwide)	--2,779
244.	1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths; 2 <sup>nd</sup> highest state)	-- 702
245.	1900 -- July 04, <b>fireworks explosion</b> (children), Eighth Street, Philadelphia, PA	-- 7-10
246.	1900 -- July-Aug (especially), <b>heat waves</b> , especially Philadelphia, Pittsburgh, PA	-- 90
247.	1900 -- Aug 12, RR <b>train</b> hits horse-drawn <b>coach</b> at grade crossing ~Slatington PA	--13-15
248.	1900 -- Sep 02, milk and excursion <b>trains collide</b> , Reading RR, Hatfield, PA	--13-14

<sup>739</sup> Cross-listed under NJ – an excursion train from Shamokin – at least 13 of the fatalities were Pennsylvanians.

**Pennsylvania (continued):**

249.	1901 –	<b>smallpox</b> , especially Philadelphia (178)	-- ≥202
250.	1901 –	June-July (esp.), <b>heat</b> (subset of 4,012 US deaths) esp. Philadelphia/Pittsburgh	--307
251.	1901 –	June 10, coal <b>mine</b> explosion, Port Royal No. 2 Coal Mine, Port Royal, PA	-- 19
252.	1901 –	July 11, <b>Nickel Plate RR bridge collapse, train crash</b> , Springfield, PA	-- 11
253.	1901 –	Aug 28, <b>City of Trenton</b> boiler explodes, Delaware River ~Torresdale, PA	--26-28
254.	1901 –	Oct 25, <b>fire</b> , Hunt & Wilkinson Co. Furniture warehouse, Philadelphia	--21-25
255.	1901 –	Dec 19, <b>blast furnace gas explosion</b> , Jones & Laughlin Co., Pittsburgh PA	--10-15
256.	1902 –	<b>smallpox</b> , especially Philadelphia (231), Pittsburgh (123), Johnstown (23)	-- 403
257.	1902 –	Apr 30, <b>false-alarm fire panic</b> , Harburger, Homan Cigar Factory, Philly, PA	-- 8-10
258.	1902 –	May 12, <b>explosion, freight train</b> oil and naphtha cars, Sheraden, PA	--20-29
259.	1902 –	June-Aug (especially July, esp. Pittsburgh) <b>heat</b> (subset of 290 heat deaths)	-- 20
260.	1902 –	July 10, coal <b>mine</b> explosion, Rolling Mill Coal Mine, Johnstown, PA	-- 113
261.	1903 –	<b>smallpox</b> , esp. Pittsburgh/315, Philly/282; highest state; ≥1,457 US deaths	-- 747
262.	1903 –	Apr 30, <b>explosions</b> , Crescent Powder Co., Ganister, near Hollidaysburg, PA	-- 10
263.	1903 –	summer (esp. July 2-10), <b>heatwaves</b> , Philadelphia and Pittsburgh, PA	-- 13
264.	1903 –	July 05, cloudburst, <b>dam failure, flood</b> , Oakford Park (~Pittsburgh), PA	--20-23
265.	1903 –	Aug 08, <b>bleacher collapse</b> , National Baseball Park, Philadelphia, PA	-- 12
266.	1903 –	Oct 19, <b>ropes break</b> , Wabash Railroad bridge construction, Pittsburgh, PA	-- 10
267.	1903 –	Nov 21, coal <b>mine</b> explosion, Ferguson Coal Mine, Connellsville, PA	-- 17
268.	1903 –	Nov 21, railroad workmen “shanty” <b>fire</b> , near Lilly (~Johnstown), PA	--31-35
269.	1903 –	Dec 23, <b>train wreck</b> , Connellsville, PA	-- 64
270.	1904 –	Jan 25, Harwick <b>coal</b> mine blast and coal dust explosion, ~Cheswick, PA	-- 181
271.	1904 –	Mar 31, <b>explosion</b> , Dickson Squib Factory, Priceburg, PA	-- 11
272.	1904 –	Sep 10, <b>powder mill explosion</b> , Fairchance, PA	-- 19
273.	1904 –	Nov 02, <b>mine</b> haulage accident, Auchincloss Coal Mine, Nanticoke, PA	-- 10
274.	1905 –	<b>tuberculosis</b> , Philadelphia/3,365, Pittsburgh/550, Scranton/105, PA <sup>740</sup>	--4,020
275.	1905 –	Jan 03, <b>fire</b> , entire Noweski family killed, Morris Run, PA	-- 10
276.	1905 –	Apr 26, <b>mine</b> haulage accident, Conyngham Coal Mine, Wilkes-Barre, PA	-- 10
277.	1905 –	Apr 27, coal <b>mine</b> explosion, Eleanora Coal Mine, Dubois, PA	-- 13
278.	1905 –	May 11, <b>trains collide</b> , blasting powder explosion, fire, SE Harrisburg, PA	-- 23
279.	1905 –	Aug 16, <b>quarry landslide</b> , Lehigh Portland Cement Co., Ormrod, PA	-- 12
280.	1905 –	Sep 10, Rand Powder Mill <b>explosions</b> /powder, dynamite/fire, Fairchance PA	19-25
281.	1906 –	<b>epidemic cerebro-spinal meningitis</b> ; 3,258 in US registration area; PA	-- 385
282.	1906 –	Jan 21, <b>fire/tramplng</b> , St. Paul’s Baptist Church, Philadelphia, PA	-- 18
283.	1906 –	May 04, <b>trains collide</b> , Clover Creek Junction, PA	-- 10
284.	1906 –	June 9, <b>explosion</b> , dynamite plant, Bausman’s Hollow, PA	-- 11
285.	1906 –	July 03, runaway <b>mine</b> car hits pedestrians, near Portage, PA	--11-13
286.	1907 –	<b>diphtheria &amp; croup</b> , esp. children (PA subset, >20% of 10,154 US deaths)	--2,138
287.	1907 –	<b>influenza</b> (PA subset of over 10,066 deaths in “registration” areas)	--1,697
288.	1907 –	<b>tuberculosis</b> , especially Philly (3,717) (subset of 76,650 US deaths)	--9,317
289.	1907 –	<b>typhoid fever</b> , esp. Philly/890, Pittsburgh/502; ~13K US Census deaths	--3,538
290.	1907 –	<b>whooping cough</b> (PA subset of 4,856 “registration” area deaths)	--1,287
291.	1907 –	Jan 09, <b>explosion</b> , Eliza Furnaces, Jones & Laughlin Steel, Pittsburgh, PA	--12-34

<sup>740</sup> Philadelphia had TB death rate of 204.6 per 100,000 population. Census area average was 168.2.

### Pennsylvania (continued):

292.	1907 – Mar 13-15, <b>flooding</b> , western PA, especially Pittsburgh (~14), PA	-- ~26
293.	1907 – Dec 01, coal <b>mine</b> explosion, Naomi Coal Mine, Fayette City, PA	-- 34
294.	1907 – Dec 19, coal <b>mine</b> explosion, Darr Coal Mine, Jacobs Creek/Van Meter, PA	-- 239
295.	1908 – <b>tuberculosis</b> , Philadelphia, PA	--3,490
296.	1908 – Jan 13, <b>fire</b> and <b>trampling</b> , Rhoads Opera House, Boyertown, PA	-- 170
297.	1908 – May 12, coal <b>mine</b> explosion, Mount Lookout, Wyoming, PA	-- 12
298.	1908 – Aug 10, <b>boiler explosion</b> , Susquehanna Iron & Steel Co., York, PA	-- 10
299.	1908 – Nov 28, coal <b>mine</b> explosion, Rachel and Agnes Mine, Marianna, PA	--153-154
300.	1909 – <b>tuberculosis</b> , Philadelphia, PA	--3,496
301.	1909 – May 11, overloaded <b>launch sinks</b> /drownings, OH River, ~Schoenville, PA	--20-26
302.	1909 – June 23, coal <b>mine</b> explosion, Lackawanna No. 4 coal mine, Wehrum, PA	-- 21
303.	1909 – Aug 09, <b>excessive natural heat</b> , especially Philadelphia, PA	-- 10
304.	1909 – Oct 31, Franklin No. 2 coal <b>mine</b> explosion, Cambria Steel, Johnstown PA	--12-13
305.	1909 – Dec 8, PA steamer <b>Clarion</b> fire, lifeboat loss, Lake Erie ~SE Shoal, Pt. Pelee, Can.--15	
306.	1910 – <b>polio</b> outbreak, especially children, PA	-- 269
307.	1910 – <b>tuberculosis</b> , Philadelphia, PA	--3,190
308.	1910 – <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; PA, 24.6	--1,892
309.	1910 – Feb 05, coal <b>mine</b> explosion, Ernest No. 2 Coal Mine, Ernest, PA	-- 12
310.	1910 – Apr 13, limestone <b>quarry</b> explosion, Nazareth, PA	-- 11
311.	1910 – June 20-27, <b>heat wave</b> , especially Philadelphia, PA	-- 50
312.	1910 -- Dec 21, <b>fire</b> , Friedlander Leather Remnants factory, Philadelphia, PA	-- 14
313.	1911 -- <b>polio</b> ; subset 1,060 “registration area” deaths (63.1% pop.), PA (3 <sup>rd</sup> US high)--	93
314.	1911 -- <b>typhoid fever</b> , PA	--1,716
315.	1911 – Apr 07, coal <b>mine</b> fire, Price-Pancoast Coal Mine Throop, PA	-- 73
316.	1911 – June, <b>heatwave</b> , especially around June 10, Pittsburgh, PA	-- 30
317.	1911 – July 01-13, <b>heatwave</b> , especially, Philadelphia and Pittsburgh, PA	--216-278
318.	1911 – July 04, <b>swimming drownings</b> , greater Philadelphia, PA	-- 12
319.	1911 – July 15, <b>mine</b> explosion, Sykesville Mine, Cascade Coal Co. Sykesville, PA	-- 21
320.	1911 – Aug-Dec, <b>tuberculosis</b> , statewide PA	--3,921
321.	1911 – Aug 26, <b>trampling and suffocation</b> , Opera House, Canonsburg, PA	-- 26
322.	1911 – Sep 30, Bayliss <b>dam failure</b> , <b>flooding</b> , Freeman Run Valley, Austin, PA	--78-149
323.	1912 – <b>smallpox</b> , especially Pittsburgh, PA (≥33 deaths) Aug 4-Oct 19	-- 37
324.	1912 – Jan 27-Feb 03, <b>diphtheria</b> , especially children, Philadelphia, PA	-- 72
325.	1912 – Jan-June 8, <b>pneumonia</b> outbreak, especially Philadelphia, PA	--1,978
326.	1912 – Jan 1-June 8, <b>tuberculosis</b> , esp. Philadelphia, PA	--2,832
327.	1912 – <b>typhoid fever</b> , Pennsylvania	--1,310
328.	1912 – Jan 3-18 especially, <b>cold waves and snow storms</b> (subset, 228 US deaths)	-- 31
329.	1912 – Apr 14, RMS <b>Titanic</b> sinks, <b>PA victims</b> , esp. Monessen, Coal Center, PA <sup>741</sup>	-- ≥29
330.	1912 – Apr 23, Cincinnati <b>Mine</b> explosion, Pittsburgh Coal Co., Finleyville, PA	-- 115
331.	1912 – July 05, <b>trains collide</b> , Ligonier, PA	-- 23
332.	1912 – July 24, <b>mine</b> flooding, Superba and Lemont Coal Mine, Evans Station, PA	-- 18
333.	1912 – Sep 12, cloudbursts, <b>flooding</b> , western PA, especially Avella, PA	-- 12
334.	1913 -- <b>heat</b> ; esp. June 27-July 2; 1,226 “registration area” (65% of US) deaths; PA	-- 237

<sup>741</sup> Out of approximately 1,517 total fatalities, approximately 119 were U.S.

### Pennsylvania (continued):

335.	1913 --	<b>measles</b> , 8,108 US "registration area" (65.1%) deaths; PA, US state high	--1,578
336.	1913 --	<b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, PA--	96
337.	1913 --	Apr 23, coal <b>mine</b> explosion, Cincinnati Coal Mine, Finleyville, PA	-- 98
338.	1913 --	Jun 28, <b>raft ferry</b> sinks/drownings, Kiskiminetas River, near Leechburg, PA--	10
339.	1913 --	Aug 02, coal <b>mine</b> explosion, East Brookside Coal Mine, Tower City, PA	-- 20
340.	1914 --	<b>polio</b> , esp. summer-fall, esp. children (subset 720 US polio deaths), PA	-- 65
341.	1914 --	Dec 09, Tripp Coal <b>Mine</b> haulage accident, Scranton, PA	-- 13
342.	1915 --	<b>polio</b> ; 691 registration area deaths (67.1% population); subset for PA	--85-86
343.	1915 --	Dec-Jan 1916, <b>influenza and pneumonia</b> , esp. Philadelphia and Pittsburgh	-- 969
344.	1915 --	Feb 17, Prospect Coal <b>Mine</b> gas explosion, Oakwood Shaft, Wilkes-Barre PA--	13
345.	1915 --	Aug 03, cloudburst, <b>flash flood</b> , drownings, Mill Creek, Erie, PA	--29-45
346.	1915 --	Aug 31, coal <b>mine</b> explosion, Orenda Coal Mine, Boswell, PA	-- 19
347.	1915 --	Oct 25, <b>fire</b> , Union Paper Box Company, Pittsburgh, PA	-- 14
348.	1916 --	<b>diphtheria</b> , especially children, PA (2 <sup>nd</sup> highest behind NY)	--1,653
349.	1916 --	Feb 11, coal <b>mine</b> explosion, Ernest No. 2 Coal Mine, Ernest, PA	-- 27
350.	1916 --	July 01-Oct 15 (esp.), <b>polio</b> epidemic, especially Philadelphia, PA	-- 414
351.	1916 --	July 02, <b>powder explosion</b> , Aetna Explosives Co., Emporium, PA	-- 11
352.	1916 --	Aug 12, runaway <b>trolley car collision</b> , ~Ebensburg and Johnstown, PA	--26-27
353.	1917 --	<b>anthrax</b> , especially Philadelphia (3), PA	-- 10
354.	1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; PA, 17.4	--1,506
355.	1917 --	June-Sep (esp.), <b>polio</b> , esp. children; PA subset (2 <sup>nd</sup> highest), ≥1,182 polio deaths--	137
356.	1917 --	Feb 27, <b>trains collide</b> in fog at night, Mount Union, PA	-- 20
357.	1917 --	Mar 13, <b>mine</b> explosion, Hendersonville No. 1 Coal Mine, Hendersonville PA--	14
358.	1917 --	Apr 10, <b>explosion</b> , munitions plant; mostly girls and women, Eddystone, PA--	133
359.	1917 --	Dec 05, <b>TNT explosion</b> , Aetna Chemical Plant, Heidelberg, ~Pittsburgh	-- 8-14
360.	1918 --	June 15-Sep 17, <b>polio</b> , esp. Franklin Co., PA (subset of ~180 US polio deaths)--	17
361.	1918 --	<b>typhoid fever</b> , PA subset (2 <sup>nd</sup> highest), 9,100 US typhoid fever deaths	-- 924
362.	1918 --	May 18, <b>explosion</b> , Aetna Chemical Co. Munitions Plant, Oakdale, PA	-- 193
363.	1918 --	Aug 06, <b>heat wave</b> ; especially Philadelphia/56, Pittsburgh/41; 294 US deaths--	106
364.	1918 --	Sep-Dec, 1919, <b>influenza &amp; pneumonia</b> epidemic, esp. Philly, PA --85,218-87,494	
		1918 -- Sep-Dec, <b>influenza &amp; pneumonia</b> epidemic, esp. Philadelphia, PA--64,724--67,000	
		1919 -- Jan-Dec, <b>influenza &amp; pneumonia</b> , esp. Philadelphia and Pittsburgh, PA	--20,494
365.	1919 --	Jan 07, <b>explosion</b> and <b>fire</b> , Film Exchange, Penn Avenue, Pittsburgh, PA	--10-12
366.	1919 --	Jan 13, <b>trains collide</b> , Fort Washington, PA (near Philadelphia)	-- 14
367.	1919 --	June 05, <b>mine</b> explosion, Baltimore Tunnel No. 2 Mine, Wilkes-Barre, PA	--92-93
368.	1919 --	Sep 9~, Philly based freighter <b>Lake Conway</b> lost, storm?, Atlantic/Gulf of Mex.--	31-32
369.	1919 --	Nov 01, <b>train</b> hits "auto-truck" at grade crossing, Clarksboro, NJ <sup>742</sup>	--14-16
370.	1919 --	Dec 25-30, <b>wood alc. poisoning</b> , Chester, Easton, Emporium, Philly, Pitt.	-- 12
371.	1920 --	<b>diphtheria and croup</b> , PA subset (3 <sup>rd</sup> highest), 13,395 deaths, 34 reg. states	--1,713
372.	1920 --	<b>influenza and pneumonia</b> , esp. Philadelphia and Pittsburgh, PA	--12,582
373.	1920 --	<b>measles</b> , PA subset, 2 <sup>nd</sup> highest, 7,712 measles deaths, 34 registration states	--1,153
374.	1920 --	<b>scarlet fever</b> (PA subset, 4,004 scarlet fever deaths, 34 registration states)	-- 497

<sup>742</sup> Cross-listed in PA in that all the victims were from Kensington mill-area of Philadelphia.



**Pennsylvania (continued):**

375.	1920 --	tuberculosis, especially Philadelphia, Pittsburgh, and Scranton PA	--8,028
376.	1920 --	typhoid fever, PA subset, 6,805 typhoid fever deaths, highest of 34 reg. states	-- 503
377.	1920 --	whooping cough, PA subset (US high), 10,968 WC deaths, 34 reg. states	--1,195
378.	1920 --	July 03, trains collide, Lackawanna & WY Valley RR, South Pittston, PA	-- 17
379.	1921 --	polio (acute) esp. late summer-fall (subset, 1,597 U.S. polio deaths); PA	-- 83
380.	1921 --	Sep 10, Third Street foot-bridge collapse, Chester River, Chester, PA	-- 24
381.	1921 --	Sep 14, explosion/fire, Atlantic Refining Co., Point Breeze, Philadelphia, PA	--14-16
382.	1921 --	Dec 05, trains collide/burn, Philadelphia & Reading RR ~Bryn Athyn, PA	--26-27
383.	1922 --	Feb 02, coal mine explosion, Gates No. 2 Coal Mine, Gates, PA	-- 25
384.	1922 --	Nov 06, coal mine explosion, Reilly Coal Mine, Spangler, PA	-- 79
385.	1924 --	Jan 26, coal mine explosion, Lancashire No. 18 Coal Mine, Shanktown, PA	-- 36
386.	1924 --	June 06, mine explosion, Loomis Collieries Coal Mine, Nanticoke, PA	-- 14
387.	1924 --	June 28, severe weather, thunder-storms, tor., flash floods, ~Pittsburgh PA	-- 11
388.	1924 --	July 25, coal mine explosion, Gates No. 1, Coal Mine, Brownsville, PA	-- 10
389.	1924 --	Aug 29, gasoline tank explosion, Peoples Natural Gas, Pittsburgh, PA	-- 11
390.	1925 --	excessive natural cold, PA subset of 239 US excessive cold deaths	-- 17
391.	1925 --	diphtheria (PA subset, 2 <sup>nd</sup> highest, 8,058 US diphtheria deaths)	-- 973
392.	1925 --	dysentery (PA subset, 3,257 US dysentery deaths)	-- 119
393.	1925 --	excessive heat (PA subset, 2 <sup>nd</sup> highest, 1587 US excessive heat deaths)	-- 299
394.	1925 --	influenza (PA subset, 30,538 US influenza deaths)	--2,768
395.	1925 --	measles, PA subset (highest in US), 2,404 measles deaths, 40 registration states	-- 503
396.	1925 --	meningococcus meningitis; PA subset, 2 <sup>nd</sup> highest, 1,095 US meningitis deaths	-- 79
397.	1925 --	polio (PA subset, 5 <sup>th</sup> highest loss to polio in a state; 1,518 US polio deaths)	-- 67
398.	1925 --	scarlet fever; PA subset, US high, 2,762 scarlet fever deaths, 48 states	-- 343
399.	1925 --	smallpox (PA subset, 7 <sup>th</sup> highest, 709 US smallpox deaths 1925, 48 states)	-- 29
400.	1925 --	tuberculosis (PA subset, 2 <sup>nd</sup> highest, 89,268 US tuberculosis deaths)	--7,300
401.	1925 --	typhoid/paratyphoid fever (PA subset, 8,287 US Typhoid Fever deaths)	-- 451
402.	1925 --	whooping cough; PA subset, US high; 6,948 whooping cough deaths	-- 648
403.	1925 --	Aug 03, coal mine explosion, Dorrance No. 9 Coal Mine, Wilkes-Barre, PA	-- 10
404.	1926 --	Jan 23, fire, Lafayette Hotel, Allentown, PA	-- 13
405.	1926 --	Feb 03, coal mine explosion, Horning No. 4, Coal Mine, Horning, PA	-- 20
406.	1926 --	June 16, trains collide, Pennsylvania Railroad, near Gray, PA	-- 16
407.	1926 --	July 20-23, heatwave, especially Pittsburgh vicinity, PA	-- 12
408.	1926 --	Aug 26, coal mine explosion, Clymer No. 1 Coal Mine, Clymer, PA	-- 44
409.	1927 --	polio (Acute) esp. late Summer and Fall (PA subset, 2,013 US polio deaths)	-- 100
410.	1927 --	July 13-16, heatwave, especially Philadelphia and vicinity, PA	-- 32
411.	1927 --	Nov 14, natural gas tank explosion, Equitable Gas Co., Pittsburgh, PA	-- 28
412.	1928 --	Feb 20, coal mine explosion, Kinloch Coal Mine, Parnassus, PA	-- 12
413.	1928 --	May 19, Pickands-Mather Coal Mine, gas and dust explosion, Mather, PA	-- 195
414.	1928 --	May 25, coal mine explosion, Baltimore No. 5 Coal Mine, Parsons, PA	-- 10
415.	1928 --	Aug 15, coal mine explosion, Irvona No. 3 Coal Mine, Coalport, PA	-- 13
416.	1929 --	Mar 21, coal mine explosion, Kinloch Coal Mine, Parnassus, PA	-- 46
417.	1930 --	Apr 03, explosions, Pennsylvania Fireworks Display Company, Devon, PA	-- 10
418.	1930 --	July 28-Aug 10, heatwave, especially Pittsburgh area, PA	-- 12

**Pennsylvania (continued):**

419.	1931 –	<b>epidemic cerebrospinal meningitis</b> (Census), subset, 2,832 US meningitis deaths--	232
420.	1931 --	<b>diphtheria</b> , especially children (PA subset, 5,738 U.S. diphtheria deaths) --	365
421.	1931 --	<b>influenza</b> , PA subset (highest in US), 31,701 US influenza deaths	--2,885
422.	1931 --	<b>measles</b> , esp. children, PA subset (highest in US), 3,576 US measles deaths)--	442
423.	1931 --	<b>polio</b> , esp. July-Oct, PA subset, 2,139-2,144 US polio deaths, esp. children --	96
424.	1931 –	sum., esp. Jun 19, Jul 1-9, Aug 8, 19, <b>heatwaves</b> , esp. Pittsburgh/Philadelphia--	119
425.	1931 –	July 24, <b>fire</b> , Little Sisters Home for the Aged/Poor, Pittsburgh, PA	-- 48
426.	1932 –	Feb 04, oil tanker <b>Bidwell</b> explosion, Marcus Hook, PA	-- 18
427.	1933 –	Feb 07-12, <b>cold waves/winter storms</b> , blizzard-like conditions	-- 11
428.	1933 –	Aug 23-24, <b>hurricane &amp; remnant</b> , drownings/7, vehicular/3, electrocution/1--	11
429.	1933 –	Dec 26-28, <b>winter storm/coldwave</b> , Pacific NW/upper Mid-West/NE, PA <sup>743</sup> --	11
430.	1934 –	Feb 20, <b>fire</b> , Penn. Mem. Home/Hosp. (Civil War veterans widows), Brookville, PA--	10
431.	1934 –	summer, <b>excessive natural heat</b> ; subset of 3,250 US heat deaths; PA	-- 88
432.	1935 –	Jan 21, coal <b>mine</b> gas explosion, Gilberton Coal Mine, Gilberton, PA	-- 13
433.	1936 –	Jan 18-28, <b>winter snow storms and extreme cold</b> , PA	--23-34
434.	1936 –	Feb, <b>Arctic cold waves, snowstorms</b> (273 US deaths), PA	-- 36
435.	1936 –	Mar 17-20, “St Patrick’s Day <b>floods</b> ,” esp. Pittsburgh & Johnstown PA	-- ~100
436.	1936 –	Apr 07, <b>TWA Flight No. 1 crash</b> into Mt., Fairchance, PA (southwest PA)	-- 12
437.	1936 –	July-Aug (especially), <b>heat</b> (4,678-5,418 US heat deaths), PA subset	-- 86
438.	1936 –	Sep 05, Skyways sight-seeing <b>plane crash</b> , Buttermilk Hollow, PA ~Pittsburgh--	10
439.	1936 –	Dec 19, Eastern Air NC13732 <b>plane crash</b> , Milford, PA	-- 14
440.	1937 –	Mar 25, TWA inflight icing, <b>plane crash</b> , Clifton (~Pittsburgh), PA	-- 13
441.	1938 –	Jan 12, Harwick Coal <b>Mine</b> explosions, Harwick, PA	-- 10
442.	1938 –	June 02, coal <b>mine</b> gas explosion, Butler Slope Coal Mine, Pittston, PA	-- 10
443.	1938 --	~July 28-Aug 15, <b>heatwave</b> , especially greater Philadelphia, PA	-- 19
444.	1939 –	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec; PA subset, 1,997 US diphtheria deaths	-- 73
445.	1939 –	<b>influenza and pneumonia</b> ; PA subset, 99,097 US flu/pneumonia deaths	--6,743
446.	1939 –	<b>tuberculosis</b> (State subset of 61,609 tuberculosis deaths nationwide)	--3,980
447.	1939 –	<b>whooping cough</b> (PA subset of 3,026 whooping cough deaths nationwide)	-- 157
448.	1939 –	summer, <b>excessive natural heat</b> , subset of 527-1,073 US heat deaths, PA	-- 16
449.	1940 –	<b>influenza and pneumonia</b> ; PA subset; 92,525 US flu/pneumonia deaths	--5,712
450.	1940 –	<b>polio</b> (PA subset of 1,026 polio deaths nationwide)	-- 32
451.	1940 –	<b>tuberculosis</b> (State subset of 55,576 tuberculosis deaths nationwide)	--3,948
452.	1940 –	<b>whooping cough</b> (PA subset of 2,926 whooping cough deaths nationwide)	-- 129
453.	1940 –	Feb 14, Valentine’s Day <b>winter nor’easter, snow-storm</b> , PA	-- 15
454.	1940 –	July 15, coal <b>mine</b> explosion, Sonman, Portage Township, Cambria Co., PA --	63
455.	1940 –	Nov 11, Roach-killer tainted pancakes <b>food poisoning</b> , Salvation Army Ctr., Pittsburgh--	12
456.	1942 –	Mar 26, Sandts Eddy Limestone <b>Quarry</b> dynamite <b>explosion</b> , Allentown PA--	31
457.	1942 –	May 22/23, <b>flooding</b> , Eastern, Central, Northeastern PA	--32-42
458.	1942 –	July 08, <b>Liberty Bell trolley and freight car collide</b> , near Norristown, PA	-- 12
459.	1942 –	July 17-18, rainstorms, <b>flooding</b> , esp. Port Allegany, North-Central PA	-- >10
460.	1942 –	Dec 22, <b>rockslide</b> crushes <b>passenger bus</b> , near Aliquippa, PA	-- 22
461.	1943 –	Sep 06, Congressional Limited <b>train derailment</b> , Frankford Junction PA <sup>744</sup> --	79-81

<sup>743</sup> PA Subset of storm taking 102-145 lives.

**Pennsylvania (continued):**

462.	1943 -- Sep 24, coal <b>mine</b> explosion, Primrose Colliery, Minersville, PA	-- 14
463.	1943 -- Dec 04, B-24 bomber <b>plane crash</b> , near Elverson, PA (near Reading, PA)	-- 9-10
464.	1944 -- <b>cerebrospinal meningitis</b> , PA (2,812 US cerebrospinal meningitis deaths)	-- 218
465.	1944 -- Jan-Apr & Dec (esp.) <b>influenza</b> (PA subset, 17,320 US influenza deaths),	--1,393
466.	1944 -- <b>measles</b> , especially Jan-June (PA subset of 1,923 measles deaths nationwide)--	95
467.	1944 -- <b>polio</b> , the year, especially July-Nov, PA (1,070 polio deaths nationwide)	-- 117
468.	1944 -- <b>tuberculosis</b> (PA subset of 54,731 tuberculosis deaths nationwide)	--4,027
469.	1944 -- <b>whooping cough</b> (PA subset of 1,878 whooping cough deaths nationwide)	-- 95
470.	1944 -- June 23, "Appalachians" <b>tornadoes</b> , nine counties in PA	-- 45
471.	1944 -- Dec 25, <b>USAAF C-47A plane crash</b> , Roundtop Mt. near Harrisburg, PA	--11-12
472.	1945 -- June 15, <b>train collision</b> , Milton, Northumberland County, PA	-- 19
473.	1946 -- Oct 3, <b>explosions/fire</b> , alkylolation unit fractionating tower, Sun Oil Co., Marcus Hook PA--	10
474.	1947 -- Jan 15, Glen Alden Coal Co., Nottingham Coal <b>Mine</b> gas explosion, Plymouth, PA--	15
475.	1947 -- Feb 18, <b>train derails</b> , Pennsylvania RR <i>Red Arrow</i> , near Altoona, PA	-- 24
476.	1947 -- Feb 20-22, <b>snowstorm</b> , especially eastern PA	-- ~23
477.	1947 -- Apr 10, methane gas explosion, Schooley shaft, Knox <b>Coal</b> Co., Exeter, PA	-- 10
478.	1947 -- Sep 09, <b>Island Queen</b> steamboat fuel tanks explode, <b>fire</b> , Pittsburgh, PA	-- 19
479.	1948 -- Jan 23-26, <b>snowstorms and coldwave</b> , PA	--12-14
480.	1948 -- June 17, <b>United Air #624</b> CO <sub>2</sub> in cockpit/crash ~Mount Carmel ~Shamokin PA--	43
481.	1948 -- Oct 26-31, <b>industrial smog/pollution</b> , Donora (and Webster), PA <sup>745</sup>	--20-22
482.	1948 -- <b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	-- 45
483.	1949 -- <b>polio</b> , especially July-Nov, PA (~2,725 polio deaths nationwide)	-- 77
484.	1950 -- <b>measles</b> , especially children; 468 US measles deaths; subset for PA	-- 11
485.	1950 -- <b>polio</b> , especially July-Nov, PA (1,904 polio deaths nationwide)	-- 102
486.	1950 -- Sep 11, Spirit of St. Louis <b>train hits stopped PA NG troop train</b> , Isleta, OH <sup>746</sup> --	33
487.	1950 -- Nov 24-27, Eastern US " <b>Storm of the Century</b> ," subset for PA	--36-40
488.	1951 -- <b>diphtheria</b> ; 302 US deaths; 13 States in double digits; subset for PA	-- 15
489.	1951 -- <b>measles</b> , 688 US deaths; subset for PA (7 <sup>th</sup> highest US state loss)	-- 26
490.	1951 -- <b>polio</b> , especially Pittsburgh, PA (subset. 1.551-1,555 US polio deaths)	-- 43
491.	1951 -- <b>tuberculosis</b> , 31,163 US deaths, subset for PA (2 <sup>nd</sup> highest US State loss)	--2,352
492.	1951 -- <b>whooping cough</b> ; 960 US deaths; subset for PA	-- 26
493.	1951 -- May 18, <b>Penn. RR Red Arrow</b> runs into <b>Pittsburgh Flyer</b> ~Bryn Mawr, PA	-- 8-10
494.	1952 -- <b>influenza</b> ; 5,649 US deaths; subset for PA (2 <sup>nd</sup> highest US state flu loss)	-- 377
495.	1952 -- <b>measles</b> , 621 US deaths; 24 states double digits; PA (highest state loss in US)--	49
496.	1952 -- <b>polio</b> , subset of ~3,300 US polio deaths; Philadelphia and Pittsburgh/16 each--	143
497.	1952 -- <b>scarlet fever and streptococcal sore throat</b> ; 352 US deaths; PA (5 <sup>th</sup> highest)--	17
498.	1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; PA (3 <sup>rd</sup> highest US state loss)--	1,662
499.	1952 -- <b>whooping cough</b> (pertussis); 406 US deaths; PA (tied for 8 <sup>th</sup> highest state)	-- 16
500.	1953 -- <b>heat/excessive natural</b> , 576 US heat deaths, esp. Aug 22-Sep 5, esp. Philly	-- 40
501.	1953 -- <b>influenza</b> ; 9,500 US deaths; PA subset (4 <sup>th</sup> highest in the US)	-- 460
502.	1953 -- <b>measles</b> , 483 US deaths/23 States double digits; PA subset 5 <sup>th</sup> highest State	-- 21

<sup>744</sup> Range of 79-81 includes Brooklyn man who committed suicide after identifying wife and children as fatalities.

<sup>745</sup> These were deaths during the week of Oct 26-31. Deaths were higher than expected for several months.

<sup>746</sup> Cross listed in PA in that all fatalities were from the 109<sup>th</sup> Field Battalion of the 28<sup>th</sup> PA National Guard Division.

**Pennsylvania (continued):**

503. 1953 -- **whooping cough**; 271 US deaths, 11 States double digits; PA/4<sup>th</sup> highest state-- 15  
 504. 1953 -- **polio** (PA subset of 1,450 polio deaths nationwide) -- 53  
 505. 1953 -- **scarlet fever** & streptococcal sore throat; 296 US deaths; PA subset/4<sup>th</sup> US high--19  
 506. 1953 -- **tuberculosis** (respiratory); 17,954 US deaths; PA subset (2<sup>nd</sup> high US state) --1,428  
 507. 1953 -- Mar 27, 3 **trains** (2 passenger, 1 freight) involved in collision ~Conneaut OH, in PA--21  
 508. 1954 -- **excessive heat** (especially July), state subset of 978-984 heat-related deaths -- 11  
 509. 1954 -- **encephalitis**, acute infectious (viral); 407 US deaths, esp. NY/52 PA/31 -- 31  
 510. 1954 -- **influenza**, 2,696 US deaths, esp. TX/228, AL/180, GA/162 and PA -- 154  
 511. 1954 -- **measles**; 524 US deaths; 21 states double digits; PA 4<sup>th</sup> highest US state loss<sup>747</sup>--34  
 512. 1954 -- **polio**, acute; 1,400 US deaths; PA (9<sup>th</sup> highest US state loss) -- 49  
 513. 1954 -- **scarlet fever**/streptococcal sore throat; 263 US deaths; PA 3<sup>rd</sup> highest US loss-- 17  
 514. 1954 -- **tuberculosis** (respiratory); 15,146 US deaths; PA, 3<sup>rd</sup> highest US state loss --1,100  
 515. 1954 -- **whooping cough**/pertussis; 375 US deaths, 17 states double digits, PA subset-- 20  
 516. 1954 -- Oct 28, fumes/**chemical tank explodes**, Charles W. Berg Labs, Philadelphia, PA-- 10  
 517. 1954 -- Oct 15/16, **Hurricane Hazel, flooding**, particularly Philly & Pittsburgh PA --21-26  
 518. 1954 -- Dec 22, **Johnson Flying Svc.** (mil. charter) out of fuel/ditches/Monongahela Riv. ~Pittsburgh--10  
 519. 1955 -- **influenza**; 2,755 US deaths; PA had 5<sup>th</sup> largest US state loss of life -- 154  
 520. 1955 -- **measles**, 345 US deaths (7 states in double digits); PA subset -- 12  
 521. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); PA subset -- 20  
 522. 1955 -- **tuberculosis** (respiratory); 13,676 US TB deaths; PA, 3<sup>rd</sup> highest state --1,123  
 523. 1955 -- **whooping cough**/pertussis, 476 US deaths/15 states in double digits; PA -- 10  
 524. 1955 -- Aug 18/19, **Hurricane Diane flooding**, esp. Stroudsburg/Southeastern PA--97-113  
 525. 1956 -- **influenza**, 2,323 US deaths; PA had larger loss of life than any other state -- 159  
 526. 1956 -- **measles**, 530 US deaths/21 states in double digits; PA 5<sup>th</sup> highest US state loss-- 28  
 527. 1956 -- **polio**/acute, 566 US deaths/15 states in double-digits; PA subset -- 12  
 528. 1956 -- **tuberculosis** (respiratory), 12,978 US deaths; PA 2<sup>nd</sup> highest US state loss --1,029  
 529. 1956 -- Mar 08, tar-papered Twyman home **fire**, wife/children/grand-children, Oxford PA--12  
 530. 1956 -- Mar 16 & 18, **snowstorms**; US deaths in 14 states 95-138; PA subset -- 10  
 531. 1956 -- Apr 01, **TWA Flight 400 crash** after takeoff from Greater Pittsburgh AP, PA-- 22  
 532. 1957 -- **influenza**; 7,463 US deaths; PA had more deaths than any other state -- 476  
 533. 1957 -- **measles**; 389 US deaths; 15 states double digit deaths; PA subset -- 11  
 534. 1957 -- **scarlet fever**/streptococcal sore throat; 213 US deaths/5 states double digits, PA--12  
 535. 1957 -- **tuberculosis** (respiratory); 12,384 US deaths; PA subset (2<sup>nd</sup> high behind NY)--959  
 536. 1957 -- **whooping cough**/pertussis; 183 US deaths; 6 states double digits; PA subset-- 13  
 537. 1957 -- July 19, **USN Neptune** from Willow Grove NAS, PA, **crash**, San Martino Mt., Italy<sup>748</sup>--11  
 538. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) --3,829  
 539. 1957 -- Dec 3-5, snowstorms, IN-Northeast, East Coast-New England, 32-33 deaths esp. PA-- 11  
 540. 1958 -- **influenza**; 4,442 US deaths; PA subset (7<sup>th</sup> highest in the US) -- 199  
 541. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including PA (3<sup>rd</sup> highest)-- 28  
 542. 1958 -- **polio** (acute); 255 US deaths; 11 states in double digit deaths; PA -- 11  
 543. 1958 -- **tuberculosis**; 12,361 US TB deaths; PA subset (2<sup>nd</sup> highest loss of all states --1,013

<sup>747</sup> Ten were in Philadelphia.

<sup>748</sup> Listed in PA in that the plane was assigned out of the PA Willow Grove Naval Air Station and crewed by at least nine PA reservists. Nine other service-men lost their lives in a search and rescue mission when their plane crashed.



**Pennsylvania (continued):**

544.	1958 -- Feb 08-17,	<b>cold wave and snowstorms</b> ,	PA (3 <sup>rd</sup> highest State death toll)	--	31
545.	1958 -- Mar 19-22	<b>snowstorms</b> ,	especially southeast PA	--	27
546.	1958 -- Apr 05,	home <b>fire</b> ,	Porter Township, near Jersey Shore and Williamsport, PA--	10	
547.	1959 --	<b>measles</b> ,	especially children; 385 US deaths; PA subset (US high)	--	36
548.	1959 --	<b>polio</b> (acute, as opposed to late effects of);	454 US deaths; PA subset	--	14
549.	1959 --	<b>tuberculosis</b> ;	11,456 US TB deaths; PA subset (2 <sup>nd</sup> highest State loss)	--	981
550.	1959 -- Jan 22,	Susquehanna Riv. breaks into River Slope <b>Mine/Knox Coal Co.</b> ,	Port Griffith, PA--	12	
551.	1959 -- June 2,	<b>tractor trailer</b> hits stopped propane gas truck, fire, <b>explos.</b>	~Deer Lake, PA--	11	
552.	1959 -- Dec 01,	Allegheny Air <b>plane crash</b> ,	near Williamsport-Montoursville AP, PA--	25	
553.	1960 --	<b>polio</b> (acute, as opposed to late effects of);	230 US deaths, PA	--	13
554.	1960 --	<b>tuberculosis</b> ;	10,866 deaths/death rate 6.1 per 100K; PA death rate 8.0	--	910
555.	1960 -- Feb 12-15	<b>snowstorms</b> ,	Gulf to East Coast & Northeast; 91-94 US deaths, PA--	15	
556.	1960 -- Mar 02-05,	<b>snowstorm</b> ,	186-193 US deaths; PA	--	14-17
557.	1960 -- Dec 10-12,	northeast <b>snowstorm/blizzard/cold</b> (208-253 US deaths),	PA	--	23-31
558.	1961 --	<b>tuberculosis</b> ,	9,938 US deaths/death rate 5.4 per 100k; PA death rate 7.7	--	881
559.	1961 -- Jan 19-20,	<b>snowstorm</b> ,	especially south-central and eastern PA	--	21
560.	1961 -- Feb 03-05,	blizzard-like <b>snowstorm</b> ,	PA	--	18
561.	1962 --	<b>tuberculosis</b> ;	9,508 US deaths/death rate 5.1 per 100K pop.; PA rate 6.9	--	784
562.	1962 -- July 28,	"Baseball" <b>train derails</b> ,	Susquehanna Riv., Steelton, ~Harrisburg, PA--	19	
563.	1962 -- Dec 06,	coal <b>mine</b> gas and dust explosions,	Robena No. 3, Carmichaels, PA	--	37
564.	1962 -- Dec 06-15,	<b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)		--	16
565.	1963 --	<b>tuberculosis</b> ;	9311 US deaths; death rate 4.9 per 100K; PA death rate 6.5	--	744
566.	1963 -- Jan 19-27,	<b>cold wave and snow</b> (subset of 315-352 US deaths)		--	18
567.	1964 --	<b>measles</b> ;	421 US deaths/death rate 0.2; PA deaths	--	15
568.	1964 --	<b>tuberculosis</b> ;	US deaths 8,303/death rate 4.3 per 100K; PA death rate 6.0	--	689
569.	1964 -- Jan 12-14,	<b>snowstorm and coldwave</b> ,	esp. NE US (146-167), PA subset	--	25
570.	1965 --	<b>tuberculosis</b> ,	7,934 US deaths, death rate 4.1 per 100K; PA death rate 5.5	--	628
571.	1966 --	<b>excessive natural heat</b> ,	subset of 613 US heat deaths, PA	--	15
572.	1966 --	<b>measles</b> ,	276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; PA--	10	
573.	1966 --	<b>meningococcal infections</b> ,	876 US deaths, esp. CA/109, TX/59, OH/50; PA--	30	
574.	1966 --	<b>tuberculosis</b> ,	7,625 US TB deaths; subset for PA	--	589
575.	1966 -- Jan 30-31,	<b>coldwave, snow, ice</b> ;	251-258 US deaths Jan 26-Feb 1; PA	--	23
576.	1967 -- June 23,	<b>plane fire and crash</b> ,	Mohawk Air Flight 40, Near Blossburg, PA	--	34
577.	1968 --	<b>excessive natural cold</b> ;	ICD-8 code E901; subset of 494 of US cold deaths; PA--	23	
578.	1968 --	<b>excessive natural heat</b> ,	ICD-8 code E900; subset of 231 US heat deaths; PA--	16	
579.	1968 --	<b>tuberculosis</b> ,	6,292 US deaths/death rate 3.15 per 100K; PA 4.26	--	500
580.	1968 -- Feb 11,	<b>fire</b> ,	residential dwelling, Franklin, PA	--	11
581.	1968 -- Dec 24,	<b>plane crash</b> in <b>snowstorm</b> ,	Allegheny Air 736, Bradford, PA	--	20
582.	1968 -- Oct 20-Mar 29,	A2/Hong Kong <b>influenza-pneumonia</b> epidemic (~33,800 US)-	1,501		
583.	1969 --	<b>excessive natural cold</b> ;	ICD-8 code E901; 424 US deaths; PA	--	13
584.	1969 --	<b>excessive natural heat</b> ,	ICD-8 code E900; 271 US deaths; PA	--	10
585.	1969 --	<b>tuberculosis</b> ;	5,567 US deaths/death rate 2.76 per 100K; PA 3.23	--	380
586.	1969 -- Jan 06,	Allegheny Air Flight 737 approach <b>plane crash</b> ,	Bradford, PA	--	11
587.	1970 --	<b>excessive natural cold</b> ;	ICD-8 code E901; 466 US deaths; PA	--	10

**Pennsylvania (continued):**

588.	1970 --	tuberculosis	; ICD-8 code 010-019; 5,207 US deaths/death rate 2.66 per 100K; PA 3.2-375	
589.	1971 --	excessive natural cold	; ICD-8 code E901; 361 US deaths; PA	-- 10
590.	1971 --	tuberculosis	; 4,501 US TB deaths/death rate 2.18 per 100K; PA/2.68	-- 318
591.	1971 --	Oct 19, fire	, Geiger Nursing Home (sedated patients), Texas Township, PA	--all 15
592.	1972 --	excessive natural cold	, ICD-8 code E901, 490 US deaths; PA	-- 16
593.	1972 --	excessive natural heat	; ICD-8 code E900; 234 US deaths; PA	-- 14
594.	1972 --	tuberculosis	; 4,376 US deaths, death rate 2.09 per 100K; PA 2.73	-- 324
595.	1972 --	Jan 16, fire	, Pennsylvania House Hotel (residential/transient), Tyrone, PA	-- 12
596.	1972 --	June 21-25, Tropical Storm Agnes, flooding, dike failures	, PA	--65-66
597.	1973 --	excessive natural cold	; ICD-8 code E901; 381 US deaths; PA subset	-- 11
598.	1973 --	excessive natural heat	; ICD-8 code E900; 181 US deaths; subset for PA	-- 16
599.	1973 --	tuberculosis	; 3,875 US deaths/death rate 1.84 per 100K; PA 2.23 per 100K	-- 265
600.	1973 --	Sep 13, fire	, Washington Hill Nursing Home, Philadelphia, PA	-- 11
601.	1973 --	Dec 04, fire	, Caley Nursing Home and Rehabilitation Center, Wayne, PA	-- 15
602.	1974 --	exposure to excessive natural cold	; ICD-8 code E901; 348 US deaths; PA	-- 10
603.	1974 --	tuberculosis	; 3,513 US TB deaths/death rate 1.65 per 100K; PA, 2.15	-- 255
604.	1974 --	Jan 06, plane crash	, Air East Airlines N125AE, Johnstown, PA	-- 12
605.	1974 --	Apr 09, oil tanker Elias explosions	unloading at dock, Del. Riv., Fort Mifflin, PA-	13
606.	1974 --	Dec 1-2, snowstorm	, traffic accidents/heart attacks shoveling/electrocution, PA-	11
607.	1975 --	tuberculosis	; 3,333 US TB deaths/death rate 1.55 per 100K; PA, 1.85	-- 220
608.	1975 --	exposure to excessive natural cold	(ICD-8 E901); 359 US deaths; PA	-- 18
609.	1975 --	Jan 31, tanker Corinthos explosions/fire; hit by Queeny	, Del. Riv. Marcus Hook PA-	26
610.	1976 --	exposure to excessive natural cold/hypothermia	; 424 US deaths; PA	-- 24
611.	1976 --	tuberculosis	; 3,130 US TB deaths/death rate 1.44 per 100K; PA, 1.55	-- 184
612.	1976 --	July-Aug, Legionella pneumophila	(Legionnaires' Disease), Philadelphia PA--	29-34
613.	1977 --	exposure to excessive natural cold/hypothermia	; 634 US deaths; PA <sup>749</sup>	-- 36
614.	1977 --	heat (esp. summer), ICD-8 E900 excessive natural/US death rate 0.14, PA, 0.19	--	23
615.	1977 --	tuberculosis	; 2,968 US TB deaths/death rate 1.35 per 100K; PA, 1.54	-- 183
616.	1977 --	July 19/20, rain, dam failure, flash floods	, Johnstown, Tanneryville, PA	-- ~85
617.	1977 --	Dec 05-10, snowstorms and cold wave (≥114 US deaths)		-- 10
618.	1978 --	exposure to excessive natural cold/hypothermia	; 652 US deaths; PA	-- 21
619.	1978 --	influenza	, 4,052 US flu deaths/death rate 1.82 per 100K; PA, 1.85	-- 219
620.	1978 --	tuberculosis	; 2,914 US TB deaths/death rate 1.31 per 100K; PA, 1.56	-- 185
621.	1978 --	Nov 05, arson fire	, Allen Motor Inn, Honesdale, Wayne County, PA	-- 12
622.	1979 --	exposure to excessive natural cold/hypothermia	; 356 US deaths; PA <sup>750</sup>	-- 14
623.	1979 --	tuberculosis	; 2,007 US TB deaths/death rate 0.89 per 100K; PA, 0.94	-- 112
624.	1979 --	Feb 18-19, "Presidents' Day" winter storm (snow, ice, extreme cold), PA <sup>751</sup>	--	19
625.	1979 --	Apr 01, fire	, Marietta Manor elderly private care home, Connellsville, PA	-- 10
626.	1980 --	exposure to excessive natural cold/hypothermia	; 302 US deaths; PA	-- 12
627.	1980 --	influenza	, 2,702 US flu deaths/death rate 1.19 per 100K, PA, 1.52	-- 180
628.	1980 --	tuberculosis	; 1,978 US TB deaths/death rate 0.87 per 100K; PA, 1.04	-- 124

<sup>749</sup> The Dec 5-10 snowstorm/coldwave PA deaths were all either vehicular or heart-attacks related to snow removal.

<sup>750</sup> Some double-counting from Feb 18-19 storm wherein four people died from exposure.

<sup>751</sup> Eleven were vehicular related, four heart attacks related to snow shoveling and four hypothermia.

**Pennsylvania (continued):**

629.	1980 -- June-Aug (esp.), <b>excessive natural heat</b> , especially greater Philadelphia, PA--	20
630.	1980 -- Oct 24, SS <b>Poet</b> leaves Philadelphia for Egypt, lost at sea, probably Oct 25-26--	34
631.	1981 -- exposure to <b>excessive natural cold/hypothermia</b> ; 289 US deaths; PA	-- 12
632.	1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, PA, 1.40	-- 166
633.	1982 -- <b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, PA, 0.89	-- 105
634.	1982 -- Jan 09-19, <b>winter weather (extreme cold, ice and snow storms)</b> , PA	-- 32
635.	1982 -- Sep 25, George Banks family <b>shooting spree</b> , Jenkins Twp./Wilkes-Barre, PA--	13
636.	1983 -- exposure to <b>excessive natural cold/hypothermia</b> ; 510 US deaths; PA	-- 25
637.	1983 -- Dec 17-29, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	-- 15
638.	1984 -- exposure to <b>excessive natural cold/hypothermia</b> ; 359 US deaths; PA	-- 20
639.	1984 -- <b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; PA, 0.74	-- 88
640.	1984 -- Jan 18-19, <b>coldwave and snowstorm</b> , PA	-- ≥11
641.	1984 -- Feb 08, family row-house <b>fire</b> , Philadelphia (Kensington section), PA	-- 10
642.	1984 -- Mar 28-39, <b>nor'easter, high wind, snow</b> , east, central, west PA	-- ~11
643.	1984 -- summer <b>heat</b> ; ICD-9 E900 code, excessive heat/hyperthermia; subset of 228--	15
644.	1985 -- exposure to <b>excessive natural cold/hypothermia</b> ; 519 US deaths; PA	-- 28
645.	1985 -- Jan 18-21, <b>winter weather, exposure/hypothermia</b> , PA <sup>752</sup>	-- 9-10
646.	1985 -- May 13, Philadelphia <b>Police bomb MOVE</b> group row house, <b>fire</b> , PA	-- 11
647.	1985 -- May 31, <b>tornadoes</b> , multiple counties, especially Erie County, PA	--65-67
648.	1985 -- July 23, <b>fire</b> , elderly boarding home, Sweet Valley, PA	-- 10
649.	1986 -- exposure to <b>excessive natural cold/hypothermia</b> ; 301 US deaths; PA	-- 31
650.	1987 -- exposure to <b>excessive natural cold/hypothermia</b> ; 326 US deaths; PA	-- 20
651.	1987 -- <b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; PA, 0.27	-- 32
652.	1987 -- summer <b>excessive heat</b> , subset of approximately 388 U.S. heat deaths, PA	-- 53
653.	1988 -- exposure to <b>excessive natural cold/hypothermia</b> ; 431 US deaths; PA	-- 23
654.	1988 -- summer esp., <b>excessive natural heat</b> , especially Philadelphia, PA	-- 19
655.	1989 -- exposure to <b>excessive natural cold/hypothermia</b> ; 524 US deaths; PA	-- 17
656.	1989 -- <b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; PA, 0.71	-- 84
657.	1989 -- Dec 08-26, <b>cold wave</b> , especially Philadelphia	-- 10
658.	1990 -- exposure to <b>excessive natural cold/hypothermia</b> ; 596 US deaths; PA	-- 17
659.	1991 -- exposure to <b>excessive natural cold/hypothermia</b> ; 588 US deaths; PA	-- 17
660.	1991 -- ~July 15-27, <b>heatwave</b> , Philadelphia, PA	-- 31
661.	1992 -- exposure to <b>excessive natural cold/hypothermia</b> ; 558 US deaths; PA	-- 37
662.	1992 -- <b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, PA at 0.58	-- 70
663.	1993 -- <b>excessive natural cold/hypothermia</b> ; 641 US deaths; PA (US State high)	-- 28
664.	1993 -- <b>meningococcal meningitis</b> ; US deaths 260, death rate 0.10 per 100K; PA, 0.12--	14
665.	1993 -- Mar 13-14 Eastern Seaboard <b>"Superstorm/Blizzard of 1993,"</b> PA subset	-- 52
666.	1993 -- July 06-16, <b>heatwave</b> , especially Philadelphia (118), PA	-- 120
667.	1994 -- exposure to <b>excessive natural cold/hypothermia</b> ; 633 US deaths; PA	-- 35
668.	1994 -- Jan 4-5, <b>"Blizzard of '94,"</b> esp. heart attacks clearing snow, esp. northwest PA--	10
669.	1994 -- June 13-17 and July 5-10 (especially), <b>heat</b> , especially Philadelphia, PA	-- 22
670.	1994 -- Sep 08, <b>US Air Flight 427 crash</b> , Aliquippa, near Pittsburgh Airport, PA	-- 133
671.	1995 -- <b>chickenpox</b> , PA	-- 10

<sup>752</sup> Four were heart attacks while shoveling snow; six were exposure and or hypothermia.

**Pennsylvania (continued):**

672.	1995 -- exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; PA	--	38
673.	1995 -- July 12-Aug 22 esp., <b>heat</b> , especially greater Philadelphia area, PA	--	146
674.	1996 -- <b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; PA, 0.335	--	41
675.	1996 -- exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; PA <sup>753</sup>	--	43
676.	1996 -- Jan 07-08, <b>snow storm (Blizzard of '96)</b> , PA	--	80
677.	1996 -- Jan 19-20, snow-melt, rain and <b>flooding</b> , multiple counties, PA	--	19
678.	1997 -- exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; PA	--	34
679.	1997 -- May 13, <b>fire</b> , board and care facility, Harvey's Lake, PA	--	10
680.	1997 -- June-Aug, <b>excessive heat</b> , esp. Philadelphia, PA, subset of 142 US deaths	--	36
681.	1998 -- exposure to <b>excessive natural cold/hypothermia</b> ; 420 US deaths; PA	--	20
682.	1998 -- Mar 22, <b>fire</b> , Mt. Cabin, Spring Break Youth, Madisonburg Mt. ~Madisonburg, PA--		11
683.	1998 -- summer, <b>excessive heat</b> , esp. July, PA (subset of 323 fatalities nationwide)	--	17
684.	1999 -- exposure to <b>excessive natural cold/hypothermia</b> ; 598 US deaths; PA	--	36
685.	1999 -- summer <b>heat</b> , esp. Philadelphia, PA (72), subset of 1,050 US heat deaths	--	97
686.	1999 -- Sep 16, <b>Hurricane Floyd</b> remnants, esp. Chester, Montgomery counties <sup>754</sup>	--	~13
687.	2000 -- exposure to <b>excessive natural cold/hypothermia</b> ; 742 US deaths; PA	--	48
688.	2000 -- exposure to <b>excessive natural heat</b> , 494 US deaths, subset for PA	--	17
689.	2000 -- May 21, Executive Air Charter <b>plane crash</b> (low fuel), ~Wilkes Barre, PA	--	19
690.	2001 -- exposure to <b>excessive natural cold/hypothermia</b> ; 599 US deaths; PA	--	29
691.	2001 -- summer, <b>excessive heat</b> , esp. Philadelphia, PA; subset of 538 US heat deaths--		28
692.	2001 -- Sep 11, <b>terrorism</b> , United Airlines N591UA crash, Shanksville, PA	--	45
693.	2002 -- <b>excessive natural cold/hypothermia</b> ; 646 US deaths; PA (highest state toll)--		47
694.	2002 -- summer (especially July), <b>excessive heat</b> , especially Philadelphia area, PA	--	56
695.	2003 -- exposure to excessive natural <b>cold/hypothermia</b> ; 620 US deaths; PA (US high)--		47
696.	2003 -- exposure to <b>excessive natural heat</b> ; 426 US deaths; subset for PA	--	19
697.	2004 -- exposure to excessive natural <b>cold/hypothermia</b> ; 676 US deaths; PA highest--		45
698.	2004 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.376 per 100K; PA, 0.628	--	78
699.	2005 -- exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; PA	--	32
700.	2005 -- exposure to <b>excessive natural heat</b> ; 939 US deaths, esp. Philadelphia/23, PA--		39
701.	2005 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; PA, 0.819	--	102
702.	2006 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.05; PA 0.11	--	14
703.	2006 -- exposure to <b>excessive natural cold/hypothermia</b> ; 519 US deaths; PA	--	22
704.	2006 -- Aug 1-3 esp., <b>excessive natural heat</b> , especially Philadelphia and vicinity	--	50
705.	2007 -- exposure to <b>excessive natural cold/hypothermia</b> ; 711 US deaths; PA	--	30
706.	2007 -- exposure to <b>excessive natural heat</b> ; 582 US deaths, subset for PA	--	14
707.	2008 -- exposure to <b>excessive natural cold/hypothermia</b> ; 641 US deaths; PA	--	22
708.	2008 -- exposure to <b>excessive natural heat</b> ; 502 US deaths, esp. greater Philadelphia--		36
709.	2008 -- Apr 03, residential <b>fire</b> , Brockway, PA	--	10
710.	2009 -- exposure to <b>excessive natural cold/hypothermia</b> ; 616 US deaths; PA	--	19
711.	2009 -- <b>diarrhoea/gastroenteritis</b> , infections origin; US death rate 0.9 per 100K; PA 1.0--		124
712.	2009 -- especially fall/winter, H1N1 <b>swine flu</b> (subset of >12,000 U.S. deaths)	≥	14-78
713.	2010 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; PA 1.0--		133

<sup>753</sup> There is some overlap with the Jan 7-8, 1996 snow storm, which led to some hypothermia deaths.

<sup>754</sup> According to NCDC, NWS *Storm Events Database*, 6 direct and "about" 7 indirectly-related deaths.



**Pennsylvania (continued):**

714.	2010	-- exposure to <b>excessive natural cold/hypothermia</b> ;	710 US deaths; PA	--	41
715.	2010	-- June-July esp., <b>excessive natural heat</b> , especially greater Philadelphia, PA		--	37
716.	2011	-- <b>excessive natural cold/hypothermia</b> ;	0.216 death rate; PA, 0.259	--	33
717.	2011	-- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; PA 1.1--			135
718.	2011	-- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100K; PA rate 0.7		--	91
719.	2011	-- May 30-Aug 17 esp., <b>excessive heat</b> , especially Philadelphia area (33), PA		--	57
720.	2011	-- Sep 7-11, <b>Tropical Storm Lee</b> remnant, multiple counties (deaths in $\geq 5$ )		--	12
721.	2012	-- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; PA 0.9--			118
722.	2012	-- exposure to <b>excessive natural cold/hypothermia</b> ;	501 US deaths; PA	--	24
723.	2012	-- <b>heat</b> , esp. June 20-July 26, esp. elderly, especially greater Philadelphia, PA		--	23
724.	2012	-- Oct 29-30, <b>Hurricane Sandy</b> (subset of 154-155 U.S. deaths), 9 counties		--	16
725.	2013	-- <b>diarrhoea/Gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, PA 1.0--			122
726.	2013	-- exposure to <b>excessive natural cold/hypothermia</b> ;	725 US deaths; PA	--	40
727.	2013	-- exposure to <b>excessive natural heat</b> ;	651 US deaths, subset for PA	--	13
728.	2013	-- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.2 per 100K; PA rate 1.7		--	211
729.	2014	-- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; PA 0.9--			116
730.	2014	-- <b>excessive natural cold/hypothermia</b> ;	930 US deaths; PA (highest state toll)--		56
731.	2015	-- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; PA 0.9--			115
732.	2015	-- <b>excessive natural cold/hypothermia</b> ;	815 US deaths; PA (highest state toll)--		60
733.	2015	-- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.6 per 100K; PA rate 2.9		--	370
734.	2015	-- <b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.1 per 100K, PA, 0.2		--	22
735.	2016	-- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.7 per 100K; PA, 1.0--			129
736.	2016	-- exposure to <b>excessive natural cold/hypothermia</b> ;	731 US deaths; PA	--	28
737.	2016	-- exposure to <b>excessive natural heat</b> ;	786 US deaths, subset for PA	--	21
738.	2016	-- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.9 per 100K; PA rate 1.0		--	134
739.	2016	-- Jan 23, <b>winter storm Jonas</b> , heart attacks, CO poisoning, vehicular, hypothermia--			10
740.	2017	-- exposure to <b>excessive natural cold/hypothermia</b> ;	804 US deaths; PA	--	32
741.	2017	-- <b>influenza</b> ;	6,515 US deaths/death rate 2.0 per 100K pop.; PA rate 2.02	--	259
742.	2017	-- <b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; PA 0.17--			22
743.	2018	-- exposure to <b>excessive natural cold/hypothermia</b> ;	1,028 US deaths, PA <sup>755</sup>	--	48
744.	2018	-- exposure to <b>excessive natural heat</b> ;	1,012 US deaths; subset for PA	--	31
745.	2018	-- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., PA rate 4.00		--	512
746.	2018	-- Oct 27, <b>mass shooting</b> , Tree of Life Synagogue, Pittsburgh, PA		--	11
747.	2019	-- exposure to <b>excessive natural cold/hypothermia</b> ;	1,115 US deaths; PA	--	61
748.	2019	-- exposure to <b>excessive natural heat</b> ;	911 US deaths/0.27 death rate; PA 0.19--		24
749.	2019	-- <b>influenza</b> ;	subset, 5,902 US deaths, 1.08 death rate per 100K, PA rate 2.17	--	276
750.	2020	-- exposure to <b>excessive natural heat</b> ;	1,184 US deaths; subset for PA	--	22
751.	2020	-- <b>influenza</b> ;	5,943 US deaths/d eath rate 1.8 per 100K; PA death rate 1.91	--	244
752.	2020	-- <b>COVID-19</b> ;	354,215 US Covid deaths; 1,070 per 1M; PA 1,256 per 1M pop.-16,073		
753.	2021	-- <b>COVID-19</b> ;	437,984 US deaths/2.6K deaths per 1M pop.; PA, 2.9K	--	20,641
754.	2021	-- exposure to excessive <b>natural cold</b> ;	1,179 US deaths/death rate 0.36; PA	--	62
755.	2021	-- exposure to <b>excessive natural heat</b> ;	1,912 US heat deaths; subset for PA	--	26
756.	2021	-- <b>influenza</b> ;	608 US deaths/death rate 0.18; PA death rate 0.24	--	31

<sup>755</sup> Represented third highest state death toll. NY had 52 hypothermia deaths and IL had 51.

757.	2022 -- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for PA	-- 37
758.	2022 -- Jan 05, rowhouse/apt. <b>fire</b> (8 children/4 adults), Fairmont sec., Philadelphia, PA--	12
759.	2022 -- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; PA death rate 9.51	--12,178
760.	2023 -- <b>COVID-19</b> , subset of 71,691 US deaths	--2,588

### Some Select/Notable Other **Pennsylvania** Large Loss-of-Life Events:<sup>756</sup>

1789-90 --	fall-spring, <b>influenza</b> epidemic; CT, ME, MA, NH, NY, Philadelphia, RI <sup>757</sup>	--Many
1853 --	Aug 9-15, <b>heatwave</b> , especially Philadelphia	-- 7
1854 --	<b>smallpox</b> , Philadelphia, PA	-- 40
1870 --	<b>yellow fever</b> outbreak, Philadelphia quarantine station, PA	-- 21
1870 --	Aug 10, <b>mine</b> haulage cage fall, Heins & Glassmire Colliery, Middleport, PA	-- 9
1884 --	Aug 21, coal <b>mine</b> , gas asphyxiation, Buck Ridge Colliery, Shamokin, PA	-- 7
1886 --	Nov 18, <b>landslide</b> wrecks <b>train</b> near Pittsburgh, PA	-- 2
1887 --	June 04, <b>quarry</b> rock fall, Birmingham, PA (near Altoona, PA)	-- 5-6
1890 --	Feb 01, <b>coal</b> mine gas explosion, Nottingham Shaft, Plymouth, PA	-- 8
1890 --	Aug 21, thunder/ <b>wind storm</b> , Streetcar building wall collapse, Philly, PA	-- 6
1890 --	Aug 22, runaway <b>mine</b> gravity car, Mt. Penn Railroad, Mt. Penn, near Reading, PA--	5-6
1891 --	Apr 06, <b>fire</b> , 3 tenement/store houses, NY St., Rochester, Beaver County, PA	-- 9
1891 --	June 26, <b>thunder/wind storm</b> , <b>Patterson Coal bldg. collapse</b> , Mt. Carmel, PA	-- 6-7
1893 --	Feb-Dec, <b>smallpox</b> outbreak, Reading, Berks County, PA	-- 18
1894 --	<b>smallpox</b> , Philadelphia; subset of 1,752 US smallpox deaths	-- 13
1896 --	Sep 30, <b>hurricane</b> , Natalie (2), Shamokin area (2), and Reading area (2)	-- 6
1898 --	Nov 05, <b>coal</b> cars crash into Exeter shaft, onto haulage cage, West Pittston, PA	-- 9
1900 --	<b>malarial fever</b> (subset of 14,874 US malarial fever deaths)	-- 140
1900 --	<b>smallpox</b> (subset, 8,484 US smallpox deaths)	-- 21
1901 --	Aug 05, <b>gasoline container explosion</b> , grocery store cellar, Locust St., Philadelphia--	8
1903 --	Jan 07, <b>trains collide</b> , Cochrane station, PA	-- 8
1903 --	Mar 31, <b>blast furnace explosion</b> , Edgar Thomson Plant, Braddock, PA	-- 9
1903 --	Dec ~27-Jan 04, 1904. <b>snowstorm and extreme cold</b> , PA subset of US 76-78	-- 7
1904 --	<b>epidemic cerebrospinal meningitis</b> ; 3,284 such deaths in US	-- 14
1905 --	<b>epidemic cerebrospinal meningitis</b> ; 5,114 such deaths in US	-- 22
1910 --	<b>anthrax</b> , Greensburg, Howe, Newcastle, Philadelphia (2), Reading, Williamsport	-- 7
1910 --	Jan 11, coal <b>mine</b> gas explosion, Nottingham Shaft, Plymouth, PA	-- 7
1912 --	Oct 07, <b>racing cars collide</b> , Thirty-third Street Bridge, Philadelphia, PA	-- 9
1913 --	<b>anthrax</b> , Brighton, Cascade, Lycoming Co., Philadelphia (3), Unity, Wilkes-Barre <sup>758</sup> --	8
1914 --	<b>anthrax</b> , Hollidaysburg, McKeesport, Philadelphia (4); PA led US in anthrax deaths--	6
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; PA rate 6.7	-- 549
1914 --	Aug 21, F3 <b>tornado</b> , Luzerne County, PA	-- 7

<sup>756</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>757</sup> Sources consulted do not provide an estimate. Kohn ("New England Influenza Epidemic of 1789," *Encyclopedia of Plague and Pestilence*), writes it was widespread in states we note, affected thousands/Fall of 1789, lasted about 4-6 weeks in each place in the first (1789) wave, was "particularly harsh on the elderly and chronically ill," and that there were especially "many" deaths from the derivative pneumonia. Notes the "case-mortality is believed to have been less than 50 percent during the epidemic." If there were thousands of cases, there would be many deaths.

<sup>758</sup> PA led the nation in death-certificate reported anthrax deaths in 1913.

**Pennsylvania (continued):**

1915 -- May 24, <b>mine</b> gas explosion, Mine No. 1, Smokeless Coal Co., ~Johnstown, PA	--	9
1915 -- July 30, <b>mine</b> -car accident, Patterson No. 2 Coal Mine, Elizabeth, PA	--	9
1916 -- <b>anthrax</b> , Cascade, Falls Creek, Philadelphia (5) [lead nation in Anthrax deaths]	--	7
1916 -- Feb 08, gas explosion, Lance <b>Mine</b> , Lehigh/Wilkes-Barre Coal Co., Plymouth, PA	--	7
1916 -- Mar 09, explos./fire, Hollenback No. 2 <b>mine</b> , Lehigh & Wilkes-Barre Coal Co., W.B.	--	6
1916 -- Mar 30, explosion, Robindale <b>mine</b> , Conemaugh Smokeless Coal, Seward, PA	--	8
1921 -- Dec 24-29, <b>wood alcohol poisoning</b> , Pittsburg, PA	--	4
1925 -- <b>anthrax</b> (PA subset, highest of 14 states with a total of 22 US anthrax deaths)	--	4
1925 -- <b>scurvy</b> (vitamin C deficiency), PA subset, US high, 58 scurvy deaths, 24 States	--	7
1931 -- <b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; PA, 3.2	--	309
1934 -- Nov 16, <b>auto's</b> collide and burn, Hensheytown, ~Bellwood and Altoona, PA	--	7
1936 -- Feb 04, <b>carbon monoxide poisoning</b> , Fusco family, Rankin, PA	--	6
1936 -- Nov 30, Funkhouser slate <b>quarry</b> explosives detonation, Delta, PA	--	9
1937 -- May 16, <b>auto race</b> , spectators killed, Langhorne Speedway, Langhorne, PA	--	3
1938 -- Oct 19, <b>forest fire (arson)</b> , Pepper Hill, ~Sinnemahoning, Cameron Co., PA	--	8
1940 -- <b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); PA death rate 13.4	--	1,322
1941 -- <b>Sulfathiazole Winthrop poisoning (tablets contaminated with phenobarbital)</b>	--	≥5
1943 -- July 04, <b>autos</b> collide, near Marienville, Northwest PA	--	8
1946 -- <b>polio</b> , especially July-Nov, PA (subset of 1,845 US polio deaths); PA	--	29
1946 -- July 11, <b>TWA 514</b> training flight approach crash 2.8M NW Reading Municipal AP	--	5
1948 -- Mar 20, <b>private Vultee V-1A wing structural failure and crash</b> near Somerset, PA	--	8
1951 -- <b>typhoid fever</b> (code 40), <i>Vital Statistics-Mortality 1951</i> ; 84 US deaths, esp. TX/12, PA	--	9
1951 -- Jan 14, <b>National Airlines DC-4 too-far down runway landing crash</b> , Philadelphia IAP	--	7
1951 -- Jan 28-Feb 8, cold waves, snow/ice/sleet, most of US, 209 deaths, PA	--	9
1952 -- <b>polio</b> , especially children (subset, 3,000-3,300 US polio deaths); PA	--	18
1957 -- Jan 14-17, <b>winter snowstorms, cold</b> , PA	--	7
1959 -- June 08, <b>auto</b> and trucks collide, family killed, near Duncansville, Western PA	--	6
1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; PA death rate 3.1	--	351
1961 -- <b>influenza</b> ; 2,137 US deaths/death rate 1.2 per 100K; PA death rate 1.0	--	114
1961 -- <b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; PA death rate 0.2	--	25
1962 -- <b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; PA death rate 1.4	--	161
1963 -- <b>influenza</b> ; 7,083 US deaths/death rate 3.8; PA death rate 3.0	--	345
1963 -- <b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; PA death rate 0.1	--	15
1964 -- <b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; PA death rate 0.7	--	80
1964 -- <b>scarlet fever and streptococcal sore throat</b> ; 95 US deaths; PA deaths	--	5
1964 -- <b>whooping cough</b> (pertussis); 93 US deaths; PA deaths	--	6
1965 -- <b>influenza</b> ; 2,295 US deaths/death rate 1.2 per 100K; PA death rate 0.9	--	99
1965 -- <b>measles</b> ; 276 US deaths/death rate 0.1 per 100,000, PA death rate 0.1	--	12
1966 -- <b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for PA	--	83
1968 -- <b>chickenpox</b> ; ICD-8 code 052; 99 US polio deaths; PA	--	6
1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; PA 3.2	--	370
1968 -- Jan 10, <b>natural gas explosion</b> demolishes two adjoining Homes, Reading, PA	--	9
1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; PA 2.01	--	236
1969 -- June 04, speeding <b>car</b> collides with family car, near Slippery Rock, western PA	--	6

**Pennsylvania (continued):**

1969 -- Dec 14, Order of the Eastern Star chartered <b>bus</b> skids off <b>icy road</b> , Gap ~Lancaster, PA--	7
1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; PA 1.34	-- 158
1970 -- July 15, Hillel Day School, Long Isl., NY, charter <b>bus</b> wreck, ~New Smithville, PA--	7
1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; PA 0.54--	64
1971 -- <b>measles</b> /rubeola; ICD-8 code 055; 90 US deaths; PA	-- 7
1971 -- <b>polio</b> ; ICD-8 codes 040-044; 108 US deaths; PA	-- 7
1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; PA, 2.12--	252
1973 -- <b>chickenpox</b> ; 138 US deaths; PA	-- 9
1973 -- <b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; PA rate 1.85	-- 220
1974 -- <b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; PA/0.608--	72
1975 -- <b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; PA rate 1.69--	201
1975 -- <b>polio</b> ; 78 US polio deaths/death rate 0.036 per 100K; PA death rate 0.042	-- 5
1975 -- ~Sep 27, <b>Hurricane Eloise remnants</b> , especially Susquehanna River, PA	-- 9
1976 -- <b>chickenpox</b> ; 106 US chickenpox deaths/death rate 0.05 per 100K; PA rate 0.04	-- 5
1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; PA 2.4--	35
1977 -- <b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; PA, 0.34	-- 40
1976 -- <b>polio</b> (acute poliomyelitis, ICD-8 codes 040-045); 90 US polio deaths; PA	-- 5
1978 -- <b>chickenpox</b> , 91 US chickenpox deaths/death rate 0.04 per 100K, PA, 0.05	-- 6
1978 -- Sep 04, church-hired <b>helicopter</b> crashes into churchyard festival, Derry PA--on ground	8
1979 -- <b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; PA, 0.08	-- 10
1981 -- <b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; PA rate 0.81	-- 96
1981 -- Mar 06, Mid-Valley High School <b>auto crash</b> , Underwood Road, Throop, PA	-- 8
1981 -- June-Aug (especially), <b>heat</b> (ICD-9 E900 code for excessive natural heat)	-- 9
1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, PA death rate 0.10	-- 12
1982 -- Apr 6-7, <b>snow storm, high wind, deep cold</b> , PA	-- 7
1982 -- summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 196, PA	-- 7
1983 -- <b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, PA, 0.35	-- 41
1983 -- <b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K pop.; PA rate 0.71	-- 84
1983 -- Feb 11-12, <b>winter storm/blizzard</b> , vehicular, snow removal heart attacks, PA	-- ≥9
1983 -- summer <b>heat</b> , esp. July-Aug, Philadelphia/4, Montgomery and Pike counties, PA	-- 6
1984 -- <b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K pop., PA death rate 0.30	-- 35
1984 -- Feb 27-28, <b>snowstorm</b> , heart attacks removing snow/4; vehicular/icy roads/2	-- 6
1984 -- Mar 8-9, <b>winter weather</b> , severe cold and snow, icy roads	-- 7
1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K pop., PA rate 0.64	-- 75
1985 -- <b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K pop.; PA rate 0.58	-- 68
1985 -- Jan 08-13, <b>winter cold wave and snow storms</b> , 5 traffic accidents, 1 shoveling	-- 6
1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K pop.; PA, 0.64	-- 76
1986 -- <b>tuberculosis</b> , 1,782 US deaths/death rate 0.74 per 100K pop.; PA death rate 0.64	-- 76
1987 -- <b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K population; PA, 3.11	-- 368
1987 -- <b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K pop., PA, 0.63	-- 74
1988 -- <b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; PA, 3.95	-- 468
1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K pop.; PA, 0.53	-- 63
1988 -- <b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K pop.; PA, 0.60	-- 71
1989 -- <b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; PA, 5.52	-- 655



**Pennsylvania (continued):**

1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K pop.; PA, 0.68	--	81
1989 --	July 30, <b>Cessna Skylane and Beech collide</b> during AP approach, Salisbury Twp., PA	--	7
1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K pop.; PA, 0.51	--	61
1990 --	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K pop.; PA, 0.64	--	76
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K population; PA, 0.42	--	50
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K pop., PA, 0.62	--	74
1991 --	Apr 04, <b>plane and helicopter collide</b> (Sen. Heinz crash), Merion, PA (~Philly)	--	7
1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K pop.; PA, 0.53	--	64
1992 --	Dec 05, <b>fire</b> (apparently smoking in bed), row house (8 children), Chester, PA	--	8
1992 --	Dec 10-13, <b>nor'easter</b> , especially Allegheny County, PA	--	≥9
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K pop.; PA, 0.35	--	42
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K pop.; PA, 0.42	--	51
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K pop.; PA 0.15	--	18
1994 --	<b>meningococcal meningitis</b> , ICD-9 code 36.0; death rate 0.10 per 100K; PA, 0.08	--	10
1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K pop., PA, 0.44	--	53
1994 --	Jan 14-21, <b>extreme winter cold and snow</b> , PA	--	9
1994 --	Aug 13, <b>lightning</b> , Plymouth Township, Luzerne County, PA	--	2
1995 --	<b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, PA, 0.148 (US 606)	--	18
1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K; PA, 0.44	--	54
1996 --	<b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K; PA rate 0.29	--	36
1996 --	late Spring to June 20 (especially), <b>excessive natural heat</b> , Philadelphia, PA	--	7
1997 --	<b>influenza</b> , code 487.0; US death rate 0.264 per 100K (720 US deaths); PA, 0.204	--	25
1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, PA, 0.33	--	40
1998 --	<b>infectious colitis, enteritis, gastroenteritis</b> , ICD-9 code 009.0, PA death rate 0.098 per 100K--		12
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; PA death rate 0.44	--	54
1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; PA death rate 0.25	--	31
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; PA, 0.400	--	49
1999 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.333 per 100K; PA, 0.302	--	37
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; PA, 0.448	--	55
2000 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.276 per 100K; PA, 0.187	--	23
2001 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.268 per 100K; PA, 0.163	--	20
2001 --	June 16, <b>Tropical Storm Allison remnant</b> , especially Upper Moreland Township--		7
2002 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; PA rate 0.187	--	23
2002 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.273 per 100K; PA rate 0.219	--	27
2003 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; PA rate 0.501	--	62
2003 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.25 per 100K; PA, 0.15	--	19
2004 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; PA, 0.13	--	16
2005 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; PA, 0.18	--	23
2006 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; PA rate 0.168	--	21
2006 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; PA, 0.16	--	20
2006 --	Oct 02, <b>shooting</b> , West Nickel Mines School (Amish), Lancaster County, PA <sup>759</sup>	--	5-6
2007 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.14 per 100K; PA rate 0.08	--	10
2007 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.184 per 100K; PA, 0.103	--	13

<sup>759</sup> Ten girls aged 6-13 shot, five of whom died, before killer committed suicide in the schoolhouse.

**Pennsylvania (continued):**

2008 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; PA rate 0.56	--	71
2008 --	<b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.19 per 100K; PA, 0.15	--	19
2009 --	<b>influenza (avian)</b> , ICD-10 code J09, US death rate 0.5 per 100K); PA rate 0.3	--	43
2009 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100K; PA rate 0.2	--	23
2010 --	<b>influenza</b> ; PA subset of 500 US flu deaths/US death rate 0.2 per 100K; PA, 0.1	--	14
2010 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; PA rate 0.1	--	19
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; PA rate 1.9	--	244
2011 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100,000, PA, 0.1	--	18
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; PA rate 1.9	--	244
2011 --	Aug 28, <b>Hurricane Irene remnant</b> , PA subset	--	7
2011 --	Oct 30, fall <b>snow storm/nor'easter</b>	--	8
2012 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.4 per 100K; PA rate 0.2	--	25
2012 --	<b>tuberculosis</b> , ICD-10 code A16-A19; US and PA had 0.2 per 100K death rate	--	27
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; PA, 2.1	--	263
2013 --	<b>tuberculosis</b> , ICD-10 Code A16-A19, US death rate 0.2 per 100,000; PA, 0.1	--	12
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; PA 2.1	--	269
2014 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.4 per 100,000; PA had 1.4	--	180
2014 --	<b>tuberculosis</b> , ICD-10 Code A16-A19; US death rate 0.2 per 100K, as was PA	--	21
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; PA, 2.2	--	280
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; PA 2.3	--	296
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; PA rate 1.3	--	170
2016 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100,000; PA, 0.1	--	13
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; PA rate 1.6	--	207
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; PA rate 1.20	--	154
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; PA death rate 0.94	--	121
2018 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; PA subset	--	13
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; PA rate 0.86	--	110
2019 --	<b>tuberculosis</b> , ICD-10 codes A16-A19 (526 US TB deaths); PA subset	--	20
2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; PA 1.01	--	129
2020 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; PA	--	14
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; PA death rate 0.83	--	108
2024 --	Jan 05, <b>winter storms/cold and highway accident</b> , PA	--	5

**Breakout by Type of Pennsylvania Large Loss-of-Life Events (10 or more fatalities):**

- 320 **Disease**, especially communicable, especially epidemics. (Plus 127 in "Other.")
- 89 **Winter Weather, Cold, Hypothermia**. (Plus 12 events 5-9 deaths each.)
- 80 **Mines/Quarries/Tunnels/Mine Subsidence** (plus 12 with 5-9 deaths.)
- 63 **Heat**. Also 10 years with 6-9 deaths in 1981.
- 41 **Fire, structural**. Plus two others noted – one with 9 deaths and two with 8.
- 40 **Rail** (plus two <10) One event was a PA National Guard troop train collision in OH.
- 32 **Explosions** (includes cross-listings from Fire-Structural). Plus 3 events 8-9 deaths.
- 28 **Flooding** (Includes flooding as the cause of a train derailment.)
- 23 **Violence** (Plus 5-6 deaths in attack on Amish school in 2006.)

**Pennsylvania (continued):**

- 20 **Maritime and Inland Waterways.** (Includes PA soldiers lost in *Gen. Lyon* fire off NC.)
- 18 **Aviation** (Plus 8 events noted with 5-9 deaths.)
- 16 **Structural Failure** (Plus one with 6 deaths in "Other.")
- 9 **Hurricane/Tropical Storm** (Plus 4 – one with 9 deaths; two with 7 and one with 6.)
- 4 **Vehicular/Road/Highway** (Plus 9 with 5-9 deaths.)
- 3 **Tornado** (Plus one with 7 deaths in "Other.")
- 2 **Landslide** (One was at a Quarry and is thus cross-listed in Mines, Quarries, Tunnels)
- 1 **Environmental/Smog/Pathogens**
- 1 **Poisoning** (unintentional). (≥five deaths in 1941, phenobarbital tainted sulfathiazole.)
- 1 **Wind Storm (winter).**
- 1 **Wood Alcohol Poisoning** (Plus one with 4 deaths in "Other.")
- 1 **Subsidence** (over coal mine (thus cross-listed in Mining)
- 0 **Carbon Monoxide Poisoning.** (But six in one family on 2-4-1936 in Rankin.)
- 0 **Summer Thunderstorm.** (But one with 6-7 deaths in "Other.")

## RI

## Rhode Island

1. 1616 -- **epidemic**, Wampanoag btw. Provincetown, MA and Narragansett Bay, RI<sup>760</sup> --hundreds
2. 1675 -- Dec 16, **massacre**, Natives attack J. Bull Garrison, Pettaquamscutt (Kingston), RI- 15
3. 1675 -- Dec 19, English colonists **massacre** Narragansetts, Great Swamp, RI --365-1,100
4. 1676 -- July 2, **massacre**, Eng. Colonists attack Narragansett camp ~Providence, RI-100-126
5. 1676 -- July 3 or 4, **massacre**, Eng. Colonists attack Narragansetts, Warwick Neck, RI-40-67
6. 1739 -- June-July 19, **smallpox**, Newport and nearby vicinity, RI --23-27
7. 1764 -- Jan 20-30, "**nervous pleuritic eisorder**" (respiratory infection),<sup>761</sup> Newport, RI-- 14
8. 1778 -- Dec 26-27, **blizzard/extreme cold and gale**, Newport and vicinity, RI --  $\geq$ 50
9. 1795 -- **yellow fever**, Providence, RI -- 45
10. 1797 -- **yellow fever** outbreak, Providence, RI -- 45
11. 1800 -- summer-Fall, **yellow fever** epidemic, Providence, RI -- 134
12. 1832 -- July 24-Oct 13, **cholera**, Newport and Providence, RI --26-38
13. 1840 -- Apr 13, downpour, **flooding**, **dams fail**, esp. Pocasset Riv. Simmonsville, RI -- 18
14. 1849 -- summer-Fall, **cholera** outbreaks, especially Providence (161), RI --  $\geq$ 177
15. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571 -- 245
16. 1853 -- Aug 12, head-on **train collision**, Valley Falls Station, Pawtucket, RI -- 13
17. 1860 -- **tuberculosis**, leading cause of RI deaths; subset of 49,082 US TB deaths -- 567
18. 1866 -- Sep 13-15 especially, **cholera** outbreaks Bristol and Providence, RI -- 72
19. 1870 -- **diarrhoea** (27), **dysentery** (59), **enteritis** (30); U.S. Census data -- 116
20. 1872 -- Aug 30, propeller **Metis** hits schooner **Nettis Cushing**, sinks off Watch Hill, RI --20-70
21. 1873 -- Apr 19, **train derailment**, **washed-out bridge**, Richmond Switch, RI -- 11
22. 1881 -- **diphtheria**, Providence, RI -- 107
23. 1889-90, June-May, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; RI<sup>762</sup> -- 203
24. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 119
25. 1890 -- Jan-Mar, **influenza** (La Grippe/Russian Flu), esp. Providence, Newport, RI -- 431
26. 1895 -- Jan 26, storm, barges towed by **Sea King** founder off Pt. Judith, RI -- 12
27. 1896 -- **measles**, esp. Woonsocket (12), Providence (9), Burrillville & Cranston 3 each-- 46
28. 1896 -- Aug 10-11, **heatwave**, statewide RI -- 11
29. 1900 -- **measles** (subset of 12,866 US measles deaths) -- 204
30. 1900 -- **tuberculosis** (8,176 RI deaths all causes) (109,750 US TB deaths) -- 837
31. 1901 -- June-July (especially), **heat waves** (subset of 4,012 US heat deaths) -- 34
32. 1905 -- **tuberculosis**, subset, 56,770 registration area deaths (10 states/135 cities)<sup>763</sup> -- 843
33. 1906 -- June 03, **trolley upset**, Providence, RI -- 11
34. 1907 -- **scarlet fever**, especially children, esp. Providence (104) (4,309 nationwide) -- 142
35. 1907 -- **tuberculosis**; 76,650 US deaths; subset for RI -- 819
36. 1907 -- Feb 11, sidewheel steamer **Larchmont** hit by schooner, sinks off Block Harbor, RI--133-183
37. 1909 -- Dec 13, Providence RI schr. **Governor Ames** wrecks, storm off Cape Hatteras --11-13
38. 1910 -- **polio**, especially children, RI -- 44
39. 1911 -- **polio**; subset of 1,060 "registration area" deaths (63.1% pop.), RI -- 14
40. 1911 -- July 10-12, **heat wave**, statewide, RI -- 28

<sup>760</sup> Cross-listed in Maine and Massachusetts. Sources note that thousands died in what today would be three states.

<sup>761</sup> Sources we cite thought this outbreak was probably influenza.

<sup>762</sup> Average U.S. diphtheria death rate was 33.06 per 1000 deaths; Providence, RI had 34.12.

<sup>763</sup> With TB death rate of 175.6 per 100K pop. (Census average 168.2), RI had highest state death rate in Census.



**Rhode Island (continued):**

41. 1913 -- **measles**, 8,108 US “registration area” (65.1%) deaths; RI<sup>764</sup> -- 71
42. 1914 -- **measles**; 4,461 US deaths/death rate 6.8 per 100K pop.; RI rate 9.6 -- 57
43. 1917 -- **influenza**; 12,974 US influenza deaths/death rate 17.2 per 100K; RI, 20.1 -- 125
44. 1918 -- Sep-Dec, **influenza and pneumonia** epidemic, esp. greater Providence, RI --3,205
45. 1919 -- Nov 19-Dec, Providence, RI schooner **T.W. Allan** founders, Bay of Fundy Can.-- 26
46. 1920 -- **diphtheria & croup**, RI set (2<sup>nd</sup> highest), 13,395 such deaths, 34 reg. states -- 129
47. 1920 -- **influenza and pneumonia**, esp. greater Providence, RI; US 141,609-220,798 --1,169
48. 1924 -- Jan 28, **gas asphyxiation and gas/dynamite explos.**, Cumberland Hill, Manville, RI<sup>765</sup>--15
49. 1924 -- Nov 15, rum runner tug **William Maloney** founders in storm, Newport, RI --11-12
50. 1925 -- Aug 18, steamer **Mackinac** boiler explosion, Narragansett Bay, RI --47-55
51. 1925 -- Sep 25, sub **USS S-51** hit by steamer **City of Rome**, sinks ~ Block Island, RI -- 33
52. 1934 -- Nov 09, schooner **John R. Manta** lost after sailing from Providence, RI -- 31
53. 1938 -- Sep 21, **New England Hurricane “Long Island Express,”** subset for RI --350-359
54. 1940 -- **influenza and pneumonia**; RI subset, 92,525 US flu and pneumonia deaths -- 422
55. 1942 -- Dec 02, Navy **boat capsizes** (shore-leave sailors); Narragansett Bay ~Jamestown, RI-- 15
56. 1945 -- May 05, civilian US collier **Black Point** torpedoed, off Point Judith, RI -- 12
57. 1954 -- May 26, US carrier **USS Bennington**, explosions/fire, off Quonset Point, RI -- 103
58. 1954 -- Aug 30-31, **Hurricane Carol** (65-68 US deaths), especially New England, ME-- 17
59. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); RI subset -- 26
60. 1956 -- Mar 16 & 18, **snowstorms**; US deaths in 14 states 95-138; RI subset -- 9-12
61. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) -- 227
62. 1958 -- Aug 07, **fog**, tankers **Gulfoil** (18) & **S.E. Graham** collide/burn off Bull Point, RI-- 18
63. 1959 -- **tuberculosis**; 11,456 US TB deaths; RI subset -- 60
64. 1960 -- **tuberculosis**; 10,866 deaths/death rate 6.1 per 100K; RI death rate 6.9 -- 59
65. 1964 -- Jan 12-14, **snowstorm and coldwave**, esp. NE US (146-167), RI subset -- 11
66. 1968 -- Dec 22-Feb 8, A2 “Hong Kong” **influenza-pneumonia** epidemic, Providence-- 67
67. 1972 -- **tuberculosis**; 4,376 US deaths, death rate 2.09 per 100K; RI 2.46 -- 24
68. 1973 -- May 19, unseaworthy fishing boat **Comet** founders off Point Judith, RI -- 16
69. 1976 -- **influenza**; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; RI 3.7 -- 35
70. 1977 -- Dec 13, **fire**, Providence College Women’s Dormitory, Providence, RI -- 10
71. 1978 -- Feb 05-07, **nor’easter & blizzard**, Northeast; RI subset of 119-129 fatalities --20-26
72. 1980 -- **influenza**, 2,702 US flu deaths/death rate 1.19 per 100K, RI rate 1.48 -- 14
73. 1981 -- **influenza**, 3,006 US flu deaths/death rate 1.31 per 100K, RI rate 1.57 -- 15
74. 2002 -- exposure to **excessive natural heat**, 626 US deaths, subset for RI -- 10
75. 2003 -- Feb 20, **fire** and **trampling**, The Station Nightclub, West Warwick, RI -- 100
76. 2009 -- **diarrhoea/gastroenteritis**, infectious origin; US death rate 0.9 per 100K; RI, 1.4 -- 15
77. 2009 -- **influenza (avian)**, ICD-10 code J09 (US death rate 0.5 per 100K); RI rate 0.9 -- 10
78. 2009 -- especially fall/winter, **H1N1 Swine Flu** (subset of >12,000 U.S. deaths) -- 13
79. 2010 -- **diarrhoea/gastroenteritis**, infectious origin; US death rate .9 per 100K, RI -- 1.5-16
80. 2010 -- **viral hepatitis**, ICD-10 code B15-B19; US death rate 2.4 per 100K; RI, 3.4 -- 36
81. 2011 -- **diarrhoea and gastroenteritis** of infectious origin (ICD-10 code A09)<sup>766</sup> -- 15

<sup>764</sup> Death rate of 12.2 per 100,000 population. US “registration area” death rate was 12.08.

<sup>765</sup> It appears, from medical examiner’s statement, that at least 13 of the sleeping victims asphyxiated from leaking gas prior to the explosion when the gas reached a light source. The explosion killed two others.

82.	2011	--	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; RI rate 1.1	--	12
83.	2012	--	<b>diarrhoea and gastroenteritis</b> of infectious origin (ICD-10 code A09) <sup>767</sup>	--	19
84.	2013	--	<b>diarrhoea and gastroenteritis</b> of infectious origin (ICD-10 code A09) <sup>768</sup>	--	13
85.	2013	--	<b>viral Hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; RI 2.8--	--	29
86.	2014	--	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, RI 1.8--	--	19
87.	2014	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 1.4 per 100,000; RI rate 2.1	--	22
88.	2015	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 1.6 per 100,000; RI rate 1.8	--	48
89.	2016	--	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.9 per 100,000; RI rate 1.6	--	17
90.	2017	--	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; RI rate 3.40	--	36
91.	2018	--	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., RI rate 4.63	--	49
92.	2019	--	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, RI rate 2.93	--	49
93.	2020	--	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; RI death rate 2.27	--	24
94.	2020	--	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); RI 1,677 per 1M pop.	--	1,777
95.	2021	--	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; RI, 2.9K per 1M	--	1,289
96.	2022	--	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; RI death rate 6.71	--	711

### Some Select/Notable Other **Rhode Island** Large Loss-of-Life Events:<sup>769</sup>

1789-90	--	fall-spring, <b>influenza</b> epidemic; CT, ME, MA, NH, NY, Philadelphia, RI <sup>770</sup>	--	Many
1805	--	<b>yellow fever</b> outbreak, Providence, RI	--	10
1850	--	<b>croup</b> ; subset, 10,706 deaths/36 States/DC/Territories, and 2,241 RI deaths	--	45
1850	--	<b>scarlet fever</b> ; subset 9,584 such deaths 36 States/Territories/DC (avg. 266)	--	53
1850	--	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	--	10
1850	--	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) <sup>771</sup>	--	470
1850	--	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	--	13
1860	--	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	--	68
1860	--	<b>scarlet fever</b> (RI subset of 26,402 deaths in 38 Census States & DC)	--	90
1860	--	<b>typhoid fever</b> (RI subset of 19,236 deaths in 38 “registration” States and DC)	--	66
1860	--	<b>whooping cough</b> (RI subset of 8,408 whooping cough deaths nationwide)	--	60
1868	--	July 15, <b>excessive heat</b> and sunstrokes, RI	--	7
1870	--	<b>scarlet fever</b> , especially children (RI subset of 20,339 deaths nationwide)	--	186
1870	--	<b>tuberculosis</b> (Consumption) (RI subset of ~70,000 TB deaths nationwide)	--	532
1870	--	<b>whooping Cough</b> (RI subset of 9,008 whooping cough deaths nationwide)	--	70
1879	--	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	40
1879	--	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	134

<sup>766</sup> National death rate was 0.9 per 100,000. RI had above average death rate of 1.4.

<sup>767</sup> National death rate was 0.8 per 100,000. RI had above average death rate of 1.8.

<sup>768</sup> National death rate was 0.8 per 100,000. RI had above average death rate of 1.2.

<sup>769</sup> We include in “Other” two categories: (1) events wherein fewer than 10 lives were lost, but which we take note, and (2) diseases that caused more than ten lives lost, but perhaps not at an epidemic level (subjective judgement) and generally below US or “Registration Area” average death rate when we have those statistics.

<sup>770</sup> Sources consulted do not provide an estimate. Kohn (“New England Influenza Epidemic of 1789,” *Encyclopedia of Plague and Pestilence*), writes it was widespread in states we note, affected thousands/Fall of 1789, lasted about 4-6 weeks in each place in the first (1789) wave, was “particularly harsh on the elderly and chronically ill,” and that there were especially “many” deaths from the derivative pneumonia. Notes the “case-mortality is believed to have been less than 50 percent during the epidemic.” If there were thousands of cases, there would be many deaths.

<sup>771</sup> Rhode Island ranked 28<sup>th</sup> of 31 States in population size, at 147,545. This death toll impact was large.

Some Select/Notable Other **Rhode Island** Large Loss-of-Life Events (continued):

1879 -- June-May 1880, <b>meningitis</b> (RI subset of 7,481 meningitis deaths nationwide)	--	19
1879 -- June-May 1880, <b>scarlet fever</b> , esp. children (RI subset, 16,388 U.S. S.F. deaths)	--	160
1879 -- June-May 1880, <b>tuberculosis</b> (RI subset of 91,270 TB deaths nationwide)	--	381
1879 -- June-May 1880, <b>typhoid fever</b> (RI subset of 23,339 U.S. Typhoid deaths)	--	44
1885 -- <b>diphtheria and croup</b> , especially children, Providence, RI	--	27
1889-90, June-May, <b>croup</b> , subset of 13,862 U.S. croup deaths	--	80
1889-90, June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	--	150
1893 -- Jan 18, <b>sleighting party</b> hit by <b>train</b> at grade crossing, Lonsdale, RI	--	9
1894 -- <b>diphtheria</b> , RI subset of $\geq 14,606$ US diphtheria deaths	--	59
1897 -- <b>typhoid fever</b> , subset of $\geq 9,192$ US typhoid deaths	--	17
1898 -- <b>typhoid fever</b> (RI subset of $> 4,627$ U.S. deaths), essentially First RI Vol. Inf.	--	12
1900 -- <b>croup</b> ; upper airway contagious viral infection; RI subset, 12,484 US croup deaths--	54	
1900 -- <b>diphtheria</b> (RI subset of 16,475 US diphtheria deaths in 1900)	--	73
1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	--	46
1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths)	--	321
1900 -- <b>malarial fever</b> (subset of 14,874 US malarial fever deaths)	--	29
1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths)	--	156
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	35
1900 -- <b>typhoid fever</b> (RI subset of 35,379 typhoid fever deaths nationwide)	--	102
1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	--	111
1900 -- exposure to <b>excessive natural heat</b> , coded "sunstroke" in some Census documents--	8	
1902 -- <b>smallpox</b> , especially Woonsocket (25), also Providence (8)	--	37
1903 -- summer (esp. July first half), <b>heat</b> , RI (subset of 520 US registered heat deaths)	--	7
1904 -- <b>epidemic cerebrospinal meningitis</b> ; subset of 3,284 such deaths in US; RI	--	55
1904 -- Jan 01-09, <b>snowstorms, severe cold</b> and <b>exposure</b> ; subset of 76-78 US deaths, RI--	9	
1904 -- June -Aug, <b>excessive natural heat</b> , subset of 235 US heat deaths	--	6
1905 -- <b>epidemic cerebrospinal meningitis</b> ; 5,114 such deaths in US	--	81
1906 -- <b>epidemic cerebrospinal meningitis</b> ; 3,258 in US registration area; RI	--	74
1907 -- <b>typhoid fever</b> , subset of $\sim 13,000$ US Census-area typhoid fever deaths; RI	--	55
1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; RI, 13.6	--	74
1913 -- <b>heat</b> ; 1,226 "registration area" (65% of US) deaths; subset for RI	--	6
1913 -- <b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, RI	--	13
1915 -- <b>polio</b> ; 691 registration area deaths (67.1% population); subset for RI	--	7
1915 -- Dec-Jan 1916, <b>influenza and pneumonia</b> subset of larger epidemic, Providence	--	69
1916 -- <b>diphtheria</b> , especially children (RI subset, $> 8,000$ -17,000 US diphtheria deaths)	--	125
1916 -- <b>polio</b> , summer and fall, especially children, especially Providence (US 6,745-7,000)--	23	
1918 -- <b>typhoid fever</b> (subset of 9,100 US typhoid fever deaths); RI	--	35
1920 -- <b>measles</b> (subset of 7,712 measles deaths in 34 registration states); RI	--	69
1920 -- <b>scarlet fever</b> (subset of 4,004 scarlet fever deaths in 34 registration states); RI	--	27
1920 -- <b>typhoid Fever</b> (RI subset of 6,805 typhoid fever deaths, 34 registration states)	--	17
1920 -- <b>whooping Cough</b> (RI subset, 10,968 whooping cough deaths in 34 reg. states)	--	92
1925 -- <b>diphtheria</b> (RI subset, 8,058 US diphtheria deaths)	--	45
1925 -- <b>excessive natural heat</b> (subset of 1587 US excessive heat deaths); RI	--	5
1925 -- <b>influenza</b> (RI subset, 30,538 US influenza deaths)	--	131

**Rhode Island (continued):**

1925 --	<b>measles</b> (RI subset of 2,404 measles deaths in 40 "registration" states)	--	36
1925 --	<b>polio</b> (RI subset, 1,518 US polio deaths)	--	10
1925 --	<b>scarlet fever</b> (RI subset of 2,762 US scarlet fever deaths, 48 states)	--	13
1925 --	<b>tuberculosis</b> (RI subset, 89,268 US tuberculosis deaths)	--	563
1925 --	<b>typhoid/paratyphoid fever</b> (RI subset, 8,287 US Typhoid Fever deaths)	--	20
1925 --	<b>whooping cough</b> (RI subset, 6,948 US whooping cough deaths)	--	60
1927 --	<b>polio</b> (acute) esp. late summer and fall (subset of 2,013 U.S. polio deaths)	--	11
1931 --	<b>diphtheria</b> , especially children (RI subset, 5,738 U.S. diphtheria deaths)	--	33
1931 --	<b>influenza</b> (RI subset of 31,701 influenza deaths nationwide)	--	95
1931 --	<b>measles</b> , especially children (RI subset, 3,576 measles deaths nationwide)	--	10
1931 --	<b>polio</b> , esp. July-Oct, (RI subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	10
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; RI, 2.3	--	16
1939 --	<b>tuberculosis</b> (RI subset of 61,609 tuberculosis deaths nationwide)	--	245
1939 --	<b>whooping cough</b> (subset of 3,026 US whooping cough deaths); RI	--	14
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); RI death rate 9.3	--	66
1942 --	Apr 03, <b>USAAF North American B-25A plane crash</b> , West Greenwich, RI	--	5
1944 --	<b>cerebrospinal meningitis</b> ; 2,812 US cerebrospinal meningitis deaths; RI subset	--	18
1950 --	June 1, <b>USN P2V-2 Neptune emergency landing crash</b> , Quonset Point NAS, RI	--	9
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for RI	--	136
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths; RI	--	9
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for RI	--	86
1953 --	<b>polio</b> (subset of 1,450 US polio deaths); RI	--	16
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; RI subset	--	81
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; RI subset	--	70
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; RI subset	--	51
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; RI subset	--	59
1957 --	<b>influenza</b> ; 7,463 US deaths; RI subset	--	10
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; RI subset	--	50
1957 --	Apr 12, <b>US Navy Neptune P2V-5 bomber touch &amp; go crash</b> , Brunswick, ME	--	6
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; RI subset	--	40
1958 --	Dec 15, <b>Johnson and Johnson Learstar crash</b> (icing), 5M SW Woonsocket, RI	--	all 7
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; RI death rate 1.3	--	11
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; RI death rate 3.7	--	32
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; RI death rate 3.5	--	30
1963 --	<b>tuberculosis</b> ; 9,311 US deaths; death rate 4.9 per 100K; RI death rate 3.8	--	34
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; RI death rate 2.7	--	25
1965 --	<b>tuberculosis</b> , 7,934 US deaths/death rate 4.1 per 100K; RI death rate 3.4	--	30
1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for RI	--	24
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; RI 3.3	--	31
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; RI death rate 2.46	--	23
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; RI death rate 2.02	--	19
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; RI 2.53	--	24
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; RI death rate 1.87	--	18
1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4,986 US deaths/death rate 2.38 per 100K; RI 1.44	--	14



1973 --	<b>influenza</b> ;	ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; RI 1.74	--	17
1973 --	<b>tuberculosis</b> ;	3,875 US deaths/death rate 1.84 per 100K; RI, 1.33 per 100K	--	13
1974 --	<b>tuberculosis</b> ;	3,513 US TB deaths/death rate 1.65 per 100K; RI, 1.05	--	10
1975 --	<b>tuberculosis</b> ;	3,333 US TB deaths/death rate 1.55 per 100K; RI, 1.16	--	11
1976 --	<b>tuberculosis</b> ;	3,130 US TB deaths/death rate 1.44 per 100K pop.; RI, 1.16	--	11
1978 --	<b>influenza</b> ;	4,052 US flu deaths/death rate 1.82 per 100K population; RI, 1.04	--	10
1982 --	Jan 10-16, <b>winter weather</b> ,	especially extreme cold	--	≥5
1982 --	June 5-6, heavy rain and <b>flooding</b> ,	RI	--	3-5
1986 --	<b>influenza</b> ;	1,838 US flu deaths; death rate 0.76 per 100K population: RI, 0.82	--	8
1987 --	<b>HIV AIDS</b> ;	13,468 deaths/US death rate 5.55 per 100K population; RI, 3.63	--	36
1988 --	<b>HIV AIDS</b> ;	16,602 deaths/US death rate 6.8 per 100K population; RI, 4.21	--	42
1989 --	<b>HIV AIDS</b> ;	22,082 US deaths, death rate 8.9 per 100K population; RI, 5.29	--	53
1989 --	Nov 28, <b>New England Airlines crash</b>	(unknown cause), 2M NW off Block Island RI--	8	
1993 --	Feb 27, <b>arson fire</b> and mass murder,	apartment building, Providence, RI	--	6
1997 --	Sep 06, <b>Boston-Providence Skydiving Ctr.</b> ,	takeoff engine power lost/crashes, Smithfield RI-5		
2011 --	<b>viral hepatitis</b> ,	ICD-10 code B15-19, US death rate 2.5 per 100K pop.; RI, 2.3	--	24
2012 --	<b>viral hepatitis</b> ,	ICD-10 code B-15-B19, US death rate 2.6 per 100,000; RI, 2.3	--	24
2013 --	<b>influenza</b> ,	ICD-10 codes J09-J11; US death rate 1.2 per 100,000; RI rate also 1.2	--	13
2014 --	<b>viral hepatitis</b> ,	ICD-10 code B15-B19, US death rate 2.5 per 100,000; RI, 2.4	--	25
2015 --	<b>viral hepatitis</b> ,	ICD-10 code B15-B19; US death rate 2.3 per 100,000; RI, 1.5	--	16
2016 --	<b>HIV AIDS</b> ,	6,160 US deaths/death rate 1.9 per 100,000; RI, 1.2	--	13
2016 --	<b>viral hepatitis</b> ,	ICD-10 code B15-B19; US death rate 2.0 per 100K pop.; RI, 1.7	--	18
2018 --	<b>HIV/AIDS</b> ;	5,425 US deaths/death rate 1.66 per 100K; RI subset	--	12
2020 --	<b>HIV</b> ;	ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; RI	--	10
2023 --	<b>COVID-19</b> ,	subset of 71,691 US deaths	--	389

#### Breakout by Type of **Rhode Island** Large Loss-of-Life Events (10 or more fatalities):

- 62 -- **Disease**, especially communicable, especially epidemics. (Plus 112 in "Other.")
- 14 -- **Maritime and Inland Waterways**.
- 6 -- **Violence**. (Includes cross-listing of The Station Night Club fire and trampling event.)
- 4 -- **Heat**. (Plus 6 years 5-9 deaths: 7 in 1868, 8 in 1900, 7 in 1903, 6 in 1904, 6 in 1913, 5 in 1925.)
- 4 -- **Winter Weather/Extreme Cold**. (Plus 2 events <10 deaths: 1904 and 1982.)
- 3 -- **Rail**
- 2 -- **Fire, structural**. (Plus one with 6 fatalities)
- 2 -- **Hurricane**
- 1 -- **Asphyxiation from leaking gas**. (Cross-listed with 1924 explosion).
- 1 -- **Explosion**
- 1 -- **Flooding**. (Plus 3-5 deaths in June 5-6, 1982 flooding.)
- 1 -- **Structural Failure**
- 0 -- **Aviation**. (But 6 events noted with 5-9 fatalities each.)

## SC

## South Carolina

1. 1538-39 -- **unknown epidemic**, “Cofitachequi”<sup>772</sup> Natives, central SC --hundreds
2. 1697-98 -- **smallpox**, Charleston SC (pop. ≥5,000); (plus hundreds Native Americans)<sup>773</sup> 200-300
3. 1699 -- **yellow fever**, Charleston (160-300), Charleston countryside (10-11) --170-311
4. 1700 -- Sep 14, **hurricane**, **Rising Sun** wrecked, Ashley River bar, Charleston, SC -- ~100
5. 1706 -- Aug-Oct especially, **yellow fever** epidemic, Charleston, SC -- ~65
6. 1713 -- Sep 16-17, **hurricane**, Charleston and vicinity, South Carolina -- 70
7. 1728 -- Aug 13-14, **hurricane**, coast and coastal waters south of Charleston, SC -- ≥10
8. 1728 -- Late Summer to Fall, **yellow fever**, Charleston, SC -- <130
9. 1732 -- May-Oct, **yellow fever** epidemic, Charleston, SC -- ~150
10. 1738 -- **smallpox** epidemic, Charleston, SC -- 311
11. 1738-39 -- **smallpox** epidemic, Catawba (700) and Cherokee Indian Nations<sup>774</sup> 7,700--11,700
12. 1739 -- **yellow fever**, “severe” extensive, “raged...violently,” Charleston, SC<sup>775</sup> --dozens
13. 1745 -- June-Nov, **yellow fever**, Charleston, SC<sup>776</sup> --dozens
14. 1748 -- Mid-Aug to mid- Oct, **yellow fever** outbreak, Charleston, SC -- ≥33
15. 1752 -- Sep 15, **hurricane**, maritime and Charleston, SC<sup>777</sup> -- >103
16. 1759-1760 -- **smallpox** epidemic, Catawba Nation, SC -- ~300
17. 1760 -- **smallpox** epidemic, Charleston SC (as well as undocumented Native deaths) --730-940
18. 1760 -- Feb, **massacre**, Cherokee hostages by colonial soldiers, Fort Prince George, SC-- 22
19. 1776 -- **measles** epidemic, Charleston, SC (especially children) --800-900
20. 1784 -- Sep 10~, **hurricane**/storm surge, Charleston/coastal islands, esp. Sullivan’s Isl., SC--≥10
21. 1787 -- Sep 19, **hurricane**, damage to shipping/property, Beaufort to Georgetown, SC-- 23
22. 1792 -- **yellow fever** epidemic, Charleston, SC -- <96
23. 1796 -- **yellow fever** epidemic, Charleston, SC -- ~300
24. 1799 -- **yellow fever** epidemic, Charleston, SC -- 239
25. 1800 -- summer-fall, **yellow fever** epidemic, Charleston, SC -- 184
26. 1802 -- **yellow fever** epidemic, Charleston, SC -- 96
27. 1803 -- **yellow fever** epidemic, Charleston, SC 200-300
28. 1804 -- **yellow fever** epidemic, Charleston, SC -- 148
29. 1804 -- Sep 07-9, **hurricane**, especially Charleston and vicinity, land and maritime<sup>778</sup> -- ≥13
30. 1807 -- **yellow fever** epidemic, Charleston, SC -- 162
31. 1811 -- Sep 10, hurricane-spawned **tornado**, Charleston County, SC -- ≥11

<sup>772</sup> Cofitachequi is the name the Spaniards of Hernando de Soto’s expedition gave to these natives. Some speculate they could have been Catawban. (Holleman, Joey. “The lost tribe of South Carolina.” *The State*, 7-5-2009.)

<sup>773</sup> We derive “hundreds” from accounts which note high mortality in Native populations in SC and NC, but do not note an estimated mortality range. Whatever the number, it would be in addition to the 200-300 for Charleston.

<sup>774</sup> The Native American fatalities were in North and South Carolina, but a breakout between the two States is not known. Both the Catawbans and the Cherokees resided in and moved back and forth between the two colonies.

<sup>775</sup> The closest we have seen to a fatality estimate is Duffy’s note that it “was not quite as bad as the previous one [yellow fever epidemic] in 1732.” In that year between 130 and 150 people are estimated to have died from yellow fever in Charleston. (Duffy, John. *Epidemics in Colonial America*. Baton Rouge: LSU Press, 1953, 1979, p. 152.)

<sup>776</sup> Cannot find number of reported deaths, but a Census of Charleston for the year 1848 compares the fatality of 145 to that of 1732, wherein 130-150 people died from yellow fever.

<sup>777</sup> We note less than 103 deaths in that the National Weather Service (Rappaport and Partagas) have noted 103 deaths in the Carolinas, and other accounts particularly note damage to Charleston, SC.

<sup>778</sup> Multiple sources consulted note about 500 or over 500 total deaths in GA and SC on land and sea. Thus, the figure of thirteen deaths we have found reference to in Charleston and vicinity is most probably an under-count.

**South Carolina (continued):**

32. 1813 -- Aug 27-28, **hurricane**, Charleston, storm surge overruns Sullivan's Island, SC--23-24
33. 1814 -- Jun 30, **tornado** sinks schooner USS **Alligator**, Port Royal Sound, SC -- 23
34. 1817 -- **yellow fever** epidemic, Charleston, SC -- 272
35. 1818 -- **yellow fever** epidemic, Charleston, SC -- 115
36. 1819 -- **yellow fever** epidemic, Charleston, SC -- 177
37. 1822 -- Sep 27-28, **hurricane**, SC, NC, VA, especially Charleston and nearby coastal SC--300
38. 1822 -- June, **slave insurrection** conspiracy charge/executions, Charleston, SC -- 35
39. 1824 -- Aug-early Nov, **yellow fever** epidemic, Charleston, SC -- 235
40. 1827 -- late summer-fall, **yellow fever** epidemic, Charleston, SC -- 64
41. 1834 -- Sep 04, **hurricane**, SC -- 37
42. 1835 -- Aug-Sep, **yellow fever** outbreak, Charleston, SC --25-26
43. 1837 -- Oct 09, **hurricane** "Racer's Storm," steamship **Home** sinks, off NC Coast<sup>779</sup> -- >20
44. 1838 -- June 14, sidewheel **Pulaski** boiler explodes/sinks SE of New River Inlet, NC<sup>780</sup>-->10
45. 1838 -- late summer-fall, **yellow fever** epidemic, Charleston, SC -- 351
46. 1839 -- June-Oct, **yellow fever** epidemic, Charleston, SC -- 134
47. 1843 -- Mar 15~, USS **Grampus** lost, presumably gale off Charleston, SC -- 25
48. 1849 -- Jan 14, steamer **Richland** boiler explosion, Pee Dee Riv. Britton's Ferry, SC -- 15
49. 1849 -- Aug-Nov, **yellow fever** epidemic, Charleston, SC -- 125
50. 1850 -- **typhoid fever**, subset 13,099 typhoid fever deaths, 36 states/DC/territories -- 410
51. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 269
52. 1852 -- Aug-Nov, **yellow fever** epidemic, Charleston, SC -- 310
53. 1853 -- Dec 22, steamer **Marlboro/Marlborough** boiler explosion, Charleston, SC --14-15
54. 1853 -- Dec 25, steamship **San Francisco** disaster in storm, off Coast of SC -- 300
55. 1854 -- Aug-Nov, **yellow fever** epidemic, Charleston, SC -- 627
56. 1856 -- Aug-Sep, **yellow fever** epidemic, Charleston, SC --212-266
57. 1857 -- Sep 12, **hurricane**, steamer **Central America** sinks, Blake Plateau off Charleston SC--400-427
58. 1858 -- **yellow fever** epidemic, Charleston, SC -- 717
59. 1860 -- **typhoid fever** (subset of 19,236 deaths in 38 "registration" States and DC -- 665
60. 1860 -- **whooping cough** (SC subset, 8,408 whooping cough deaths, 38 Census states)-- 338
61. 1864 -- **yellow fever** outbreak, Charleston, SC -- 700
62. 1865 -- **smallpox**, Charleston (138), Hilton Head Island (7), Beaufort (1), SC -- 146
63. 1865 -- Jan 8, storm, SC steamer **Melville**, NY to Port Royal SC, sinks off Hatteras NC<sup>781</sup>76
64. 1865 -- Feb 18, **gunpowder explosion/fire**, Northeastern RR Depot, Charleston SC<sup>782</sup>--150-200
65. 1865 -- May 29, stmr. **Governor Troup** burns Savannah Ri., below Augusta, SC shore-- 40
66. 1867 -- Dec 24, steamer **Raleigh** burns to water, off Charleston, SC --14-24
67. 1870 -- **diarrhoea** (278), **dysentery** (147), **enteritis** (112); U.S. Census data -- 537

<sup>779</sup> Cross-listed in SC in that many of the approximately 90 who were lost with the *Home* were from SC. Ellms lists SC as the home of 20 of the fatalities, 14 from Charleston alone. (Ellms, *The Tragedy of the Seas*, 1841, 59, 84.)

<sup>780</sup> While the *Pulaski* sank off NC (95-141 deaths), the passengers were mostly from GA and SC, 65 boarding at Charleston. Local papers and histories make clear that many if not most who boarded at those two ports were citizens of GA and SC. We do not know the number of SC residents, but there were more than ten.

<sup>781</sup> Listed here, as well as in NC, in that the *New York Times* article "Awful Marine Disaster," of Jan 13, notes "The passengers...were nearly all residents of Port Royal." Additionally, have seen a report that the ship was SC owned.

<sup>782</sup> Our impression is that the majority of deaths, if not the great majority, were from the explosion. However, a very large fire destroyed a roughly four-block area. Deaths from fire were reported, though without noting the number.

### South Carolina (continued):

68. 1870 -- **measles** (SC subset of 9,237 measles deaths nationwide) -- 273
69. 1871 -- **yellow fever** outbreak, Charleston (213) and Beaufort (7), SC -- 220
70. 1873 -- **smallpox** outbreak, Charleston, SC -- 106
71. 1874 -- Sep 28, steamer **Amanda Winants** lost off Georgetown, SC -- 16
72. 1875 -- Mar 20, **tornadoes**, ten counties --16-18
73. 1876 -- Sep 15-21, **racial violence**, esp. ~Ellenton, Aiken & Barnwell Co's. SC --25-100
74. 1879 -- June-May 1880, **malarial fever**, (SC subset, 20,231 US malarial deaths) -- 712
75. 1879 -- June-May 1880, **measles**, esp. children (SC subset, 8,254 US measles deaths) -- 227
76. 1879 -- June-May 1880, **whooping cough**, subset, 11,064 US whooping cough deaths-- 434
77. 1881 -- Aug 27, **hurricane**, southeast SC, especially Charleston and Port Royal, SC -- >13
78. 1884 -- Feb 19, **tornadoes**, multiple counties, SC --17-103
79. 1884 -- Mar 25, **tornadoes**, esp. Chester/Piedmont/Greenville/Anderson counties, SC --11-13
80. 1885 -- Aug 24-26, **hurricane**, **maritime** & coastal SC, esp. Beaufort, Charleston areas-- 21
- 3 steamer/pilot boat *F. W. Schafer No. 4* (or possibly Sheper), SC
  - 3 schooner *Gustie Wilson*, SC
  - 6 schooner *John Stoddard*, SC
  - 1 Italian bark *Marianina*, Atlantic, about 50 miles off Charleston, SC
  - 5 schooner *Walter Smith*, SC
81. 1886 -- Aug 31, **earthquake**, especially Charleston, SC (felt in 27 States and DC) --95-119
82. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 145
83. 1889-90, June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths, PA -- 551
84. 1893 -- Oct 11-13, **hurricane**, coastal, especially Magnolia Beach drownings (19), SC-- 22
85. 1896 -- **measles**, especially Charleston (20), Pelzer (14), Florence (1), SC --  $\geq 35$
86. 1896 -- Sep 28-29, **hurricane**, especially Beaufort and southern sea islands, SC -- 30
87. 1898 -- Feb 16-17, **wildfires**, SC -- 14
88. 1899 -- Oct 30, steamer **George L. Colwell** founders in gale off Coast of SC -- 12
89. 1900 -- **dysentery**; subset, 11,710 US dysentery deaths; 6<sup>th</sup> largest loss of life by state-- 578
90. 1900 -- **influenza** (subset, 16,645 US influenza deaths) -- 492
91. 1900 -- **malarial fever** (subset of 14,874 US malarial fever deaths) -- 749
92. 1900 -- **tuberculosis**; leading cause of death in SC; subset of 109,750 US TB deaths) --2,133
93. 1900 -- **typhoid fever** (SC subset of 35,379 typhoid fever deaths nationwide) -- 970
94. 1900 -- Sum. exposure to **excessive natural heat**, coded "sunstroke" in Census doc. -- 11
95. 1903 -- June 6, **flash** and **river flooding**, Pacolet River, especially ~ Pacolet, SC -- 65
96. 1904 -- Sep 14, **hurricane**, fishermen, Charleston bar area and off Charleston lightship-- 8-14
97. 1905 -- **tuberculosis**, Charleston subset, 56,770 Census deaths (10 states/135 cities)<sup>783</sup> -- 198
98. 1907 -- Feb 22, steamer **Marion** burns, Wadmalaw Sound, Hart's Landing, SC --12-24
99. 1908 -- Aug 25, **flooding**; **bridge fails** with pedestrians watching flood, Camden, SC -- 19
100. 1910 -- **typhoid fever**; 12,673 US deaths/21 states/death rate 23.5; Charleston 56.0 -- 33
101. 1911 -- Aug 26, hurricane, schooner **Margaret A. May** founders, Kiawah Island, SC-- 10
102. 1911 -- Aug 27-29 (landfall on 27<sup>th</sup>), **hurricane**, especially Charleston and vicinity, SC--28
103. 1916 -- **polio**, especially children, Statewide, SC (~6,700->7,000 U.S. polio deaths) -- 35
104. 1917 -- **influenza**; 12,974 US influenza deaths/death rate 17.2 per 100K; SC, 18.5 -- 302
105. 1918 -- **typhoid fever** (SC subset of 9,100 U.S. Typhoid Fever deaths) -- 482

<sup>783</sup> Charleston had TB death rate of 353.9 per 100,000 population. Census area average was 168.2.



**South Carolina (continued):**

106.	1918, Sep-Dec, 1920 --	<b>influenza and pneumonia</b> epidemic, SC	--10,398
	1918 -- Sep-Dec,	<b>influenza and pneumonia</b> epidemic, SC	--6,711
	1919 -- Jan-Apr,	<b>influenza and pneumonia</b> epidemic, SC	--3,012
	1920 --	<b>influenza and pneumonia</b> , SC	-- 675
107.	1918 -- Feb 25,	<b>trains collide</b> , near Frost Station, SC	-- 13
108.	1918 -- May 29,	<b>fire</b> , "Insane" Asylum, Columbia, SC ??????	-- 16
109.	1919 -- May 19,	<b>fire</b> , Mental Asylum, Columbia, SC ???????	-- 16
110.	1920 --	<b>malaria</b> (SC subset, 3 <sup>rd</sup> highest, 3,136 malaria deaths in 34 registration states)--	487
111.	1920 --	<b>typhoid fever</b> , SC subset (2 <sup>nd</sup> highest), 6,805 typhoid deaths, 34 registration states--	379
112.	1920 --	<b>whooping cough</b> , SC subset, 10,968 whooping cough deaths, 34 reg. states --	373
113.	1923 -- May 17,	<b>fire</b> , Cleveland School District, Kershaw County, near Camden, SC--	77
114.	1924 -- Apr 30,	<b>tornadoes</b> , SC	-- 67
115.	1925 --	<b>dysentery</b> (SC subset, 4 <sup>th</sup> highest, 3,257 US dysentery deaths)	-- 211
116.	1925 --	<b>excessive natural heat</b> (SC subset, 1587 US excessive heat deaths)	-- 16
117.	1925 --	<b>influenza</b> (SC subset, 30,538 US influenza deaths)	-- 865
118.	1925 --	<b>malaria</b> (SC subset, 6 <sup>th</sup> highest by state, of 2,132 malaria deaths in 1925)	-- 183
119.	1925 --	<b>polio</b> (SC subset, 1,518 US polio deaths)	-- 38
120.	1925 --	<b>typhoid/paratyphoid fever</b> , subset, 4 <sup>th</sup> highest, 8287 US typhoid fever deaths--	483
121.	1925 --	<b>whooping cough</b> (SC subset, 6,948 US whooping cough deaths)	-- 201
122.	1931 --	<b>influenza</b> (SC subset of 31,701 influenza deaths nationwide)	-- 787
123.	1931 --	<b>malaria</b> (SC subset, tied for 3 <sup>rd</sup> highest, 2,536 US malaria deaths)	-- 252
124.	1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; SC, 6.4	-- 111
125.	1931 -- summer,	<b>heatwave</b> , excessive heat deaths; SC subset, 2,768 US deaths	-- 16
126.	1931 -- Aug 03,	<b>bus</b> goes through open drawbridge, Sampit River ~Georgetown, SC	-- 23
127.	1933 -- May 05,	<b>tornado</b> , Anderson and Laurens Counties, SC	-- 19
128.	1936 -- July-Aug (especially),	<b>natural heat</b> (4,678-5,418 US heat deaths), SC subset--	18
129.	1938 -- Sep 29,	<b>tornado</b> , Charleston County, SC	-- 32
130.	1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (SC subset of 1,997 US diphtheria deaths)--	83
131.	1939 --	<b>influenza and pneumonia</b> (SC subset, 99,097 US flu/pneumonia deaths)	--1,836
132.	1939 --	<b>malaria</b> (SC subset of 1,761 malaria deaths nationwide)	-- 168
133.	1939 --	<b>whooping cough</b> (SC subset of 3,026 whooping cough deaths nationwide)	-- 124
134.	1940 --	<b>influenza and pneumonia</b> (SC subset, 92,525 US flu & pneumonia deaths)--	1,941
135.	1940 --	<b>malaria</b> (SC subset of 1,442 U.S. malaria deaths)	-- 117
136.	1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); SC death rate 19.6 00-373	
137.	1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, SC, 2.5	-- 48
138.	1940 -- Aug 11-12,	<b>hurricane</b> , GA (2) and SC (34)	-- 34
139.	1941 --	<b>measles</b> , especially children (SC subset of 2,279 measles deaths nationwide)--	138
140.	1943 -- Feb 05,	<b>planes collide</b> mid-air, two USAAF B-25 Bombers, Newberry, SC	-- 14
141.	1944 --	<b>influenza</b> (SC subset of 17,320 US influenza deaths), esp. Jan-Apr, Dec	-- 416
142.	1944 --	<b>measles</b> , especially Jan-June (SC subset of 1,923 US measles deaths)	-- 41
143.	1944 --	<b>whooping cough</b> (SC subset of 1,878 whooping cough deaths nationwide)	-- 91
144.	1944 -- Feb 12,	<b>planes collide</b> , USAAF B-25's, near Army Air Base Greenville, SC--	19
145.	1944 -- Apr 16,	<b>tornadoes</b> , Anderson, Abbeville, Newberry Counties, SC	-- 18
146.	1944 -- June 30,	<b>plane lost</b> at sea, USAAF B-24J, Atlantic, off Myrtle Beach SC	-- 10

**South Carolina (continued):**

147. 1944 -- Dec 5, USAAF P-47D & USAAF B-24J **planes collide**, ~Walterboro AAF SC-- 13
148. 1945 -- Apr 11, Charleston-based **USAAF B-24J crash at sea** off Charleston, SC --all 11
149. 1945 -- Sep 07, **Eastern Air Flight 42 on-board fire leads to crash** ~Florence, SC --all 22
150. 1950 -- **measles**, especially children; subset of 468 US measles deaths; SC -- 23
151. 1950 -- July 23, **USAF C46 with 31 TN NG, loses aileron on takeoff, crashes**, Myrtle Beach, SC--all 39
152. 1951 -- **diphtheria**; 302 US deaths; 13 States in double digits; subset for SC -- 11
153. 1951 -- **whooping cough**; 960 US deaths; subset for SC (9<sup>th</sup> highest US state loss) -- 38
154. 1952 -- **diphtheria** (225 US deaths; 7 states in double digits), subset for SC -- 13
155. 1952 -- **whooping cough** (pertussis); 406 US deaths; SC (tied for 3<sup>rd</sup> highest state loss)-- 24
156. 1953 -- **diphtheria**, 158 US deaths (6 states in double digits), subset for SC -- 16
157. 1953 -- **whooping cough**; 271 US deaths, 11 States double digits; SC/5<sup>th</sup> highest state-- 14
158. 1953 -- Jan 27, gas line leak **explosion/fire**, Jones Electric Co., other stores, Aiken, SC<sup>784</sup>--10
159. 1954 -- **diphtheria**, 145 US deaths; esp. GA/24, SC/16, AL/14, FL/10 -- 16
160. 1954 -- **dysentery**, infectious, all forms (codes 045-048), 655 US deaths; SC subset -- 16
161. 1954 -- **influenza**, 2,696 US deaths, esp. TX/228; SC tied with VA for 10<sup>th</sup> highest loss--88
162. 1954 -- **measles**; 524 US deaths; 21 states double digits; SC 8<sup>th</sup> largest US state loss-- 20
163. 1954 -- **whooping cough**/pertussis; 375 US deaths, 17 states double digits, SC (US high)--29
164. 1955 -- **diphtheria**, 150 US deaths; esp. AL/25, GA/18, TX/13, SC/11 -- 11
165. 1955 -- **whooping cough**/pertussis, 476 US deaths/15 states in double digits; SC -- 22
166. 1956 -- **measles**, 530 US deaths/21 states in double digits; SC subset -- 12
167. 1956 -- **scarlet fever/streptococcal sore throat**; 240 US deaths; SC 7<sup>th</sup> high state loss-- 10
168. 1957 -- **whooping cough**/pertussis; 183 US deaths; 6 states double digits; SC subset-- 18
169. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including SC -- 13
170. 1958 -- **whooping cough** (pertussis); 177 US deaths; SC had 3<sup>rd</sup> highest state loss -- 15
171. 1959 -- **tuberculosis**; 11,456 US TB deaths; SC subset -- 156
172. 1959 -- **whooping cough** (pertussis); 269 US deaths, especially children; SC subset -- 22
173. 1959 -- Mar 15, **fire**, farm house (10 children and farmer), Cross Hill, SC -- 11
174. 1960 -- **influenza**; 7,872 US deaths/death rate 4.4 per 100K; SC death rate 11.2 -- 266
175. 1961 -- **influenza**, 2,137 US deaths/death rate 1.2 per 100K; SC death rate 2.5 -- 60
176. 1961 -- **measles**; 434 US deaths/death rate 0.2 per 100K; SC death rate 0.6 -- 14
177. 1961 -- **tuberculosis**, 9,938 US deaths/death rate 5.4 per 100k; SC death rate 5.5 -- 132
178. 1962 -- **influenza**; 3,431 US deaths/death rate 1.8 per 100K; SC death rate 4.2 -- 103
179. 1963 -- **influenza**; 7,083 US deaths/death rate 3.8; SC death rate 11.9 (US high) -- 295
180. 1963 -- **measles**; 364 US deaths/death rate 0.2 per 100K; SC death rate 0.4 -- 11
181. 1963 -- Dec 25, oil heater **explodes/house burns** (Johnson children), Charleston, SC-- 13
182. 1964 -- **influenza**; 1,687 US deaths/death rate 0.9 per 100K; SC death rate 1.6 -- 40
183. 1964 -- **measles**; 421 US deaths/death rate 0.2; SC death rate 0.7 -- 17
184. 1964 -- **tuberculosis**; US deaths 8,303/death rate 4.3 per 100K; SC death rate 4.7 -- 119
185. 1964 -- **whooping cough** (pertussis); 93 US deaths; SC deaths -- 11
186. 1964 -- Feb 22, **home fire**, living room stove malfunction, ~Cheraw & Society Hill, SC--11
187. 1965 -- **influenza**, 2,295 US deaths/death rate 1.2 per 100K; SC death rate 2.2 -- 56
188. 1966 -- **measles**, 276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; SC-- 14
189. 1966 -- **meningococcal infections**, 876 US deaths, esp. CA/109, TX/59, OH/50; SC-- 13

<sup>784</sup> Most of the deaths were thought to have been the direct result of the explosion and not the resulting fire.

**South Carolina (continued):**

190.	1966 --	tuberculosis	, 7,625 US TB deaths; subset for SC	-- 125
191.	1967 --	June 23, station wagon	/10 runs stop sign, hits asphalt tanker truck, Hardeeville, SC--	10
192.	1968 --	excessive natural cold	; ICD-8 code E901; subset of 494 of US cold deaths; SC--	16
193.	1968 --	excessive natural heat	, ICD-8 code E900; subset of 231 US heat deaths; SC--	10
194.	1968 --	influenza	, ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; SC 4.3--	109
195.	1968 --	tuberculosis	, 6,292 US deaths/death rate 3.15 per 100K; SC death rate 3.83 --	96
196.	1969 --	excessive natural cold	; ICD-8 code E901; 424 US deaths; SC	-- 14
197.	1969 --	influenza	, ICD-8 codes 470-474; 5971 US deaths/death rate 2.96 per 100K; SC 6.4--	164
198.	1969 --	tuberculosis	; 5,567 US deaths/death rate 2.76 per 100K; SC death rate 3.05 --	78
199.	1970 --	excessive natural cold	; ICD-8 code E901; 466 US deaths; SC	-- 10
200.	1970 --	influenza	; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; SC 3.1--	81
201.	1970 --	tuberculosis	; ICD-8 code 010-019; 5,207 US deaths/death rate 2.66 per 100K; SC 2.9-76	
202.	1970 --	Jan 08-11, cold wave, snow, icy roads	, SC	-- 10
203.	1971 --	excessive natural cold	; ICD-8 code E901; 361 US deaths; SC	-- 10
204.	1971 --	tuberculosis	; 4,501 US TB deaths/death rate 2.18 per 100K; SC/3.04	-- 81
205.	1972 --	excessive natural cold	, ICD-8 code E901, 490 US deaths; SC	-- 10
206.	1972 --	tuberculosis	; 4,376 US deaths, death rate 2.09 per 100K; SC 3.46	-- 94
207.	1972 --	Dec 05, USAF C-130/12 crew, collides	with SC ANG F-102 ~Conway, SC--	13
208.	1973 --	excessive natural cold	; code E901; 381 US deaths; SC subset (2 <sup>nd</sup> highest) --	32
209.	1973 --	tuberculosis	; 3,875 US deaths/death rate 1.84 per 100K; SC 2.52 per 100K --	70
210.	1973 --	Feb 09-10, snowstorm	and cold, exposure/8-11, carport collapse/1, SC	-- 12
211.	1974 --	tuberculosis	; 3,513 US TB deaths/death rate 1.65 per 100K; SC rate 2.32 --	66
212.	1975 --	influenza	, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; SC/3.0--	87
213.	1975 --	tuberculosis	; 3,333 US TB deaths/death rate 1.55 per 100K; SC rate 1.97 --	57
214.	1976 --	tuberculosis	; 3,130 US TB deaths/death rate 1.44 per 100K; SC, 2.14	-- 63
215.	1977 --	cold/hypothermia	, exposure to excessive natural; 634 US deaths; SC	-- 14
216.	1977 --	excessive natural heat	(esp. summer), ICD-8 E900; US death rate 0.14, SC, 0.50--	15
217.	1977 --	influenza	; 1,305 US flu deaths/death rate 0.59 per 100K; SC, 1.74	-- 52
218.	1977 --	tuberculosis	; 2,968 US TB deaths/death rate 1.35 per 100K; SC, 1.54	-- 46
219.	1978 --	exposure to excessive natural cold/hypothermia	; 652 US deaths; SC	-- 19
220.	1978 --	influenza	, 4,052 US flu deaths/death rate 1.82 per 100K; SC, 2.20	-- 67
221.	1978 --	tuberculosis	, 2,914 US TB deaths/death rate 1.31 per 100K; SC, 1.45	-- 44
222.	1979 --	influenza	, 604 US flu deaths/death rate 0.27 per 100K; SC, 0.36	-- 11
223.	1979 --	tuberculosis	, 2,007 US TB deaths/death rate 0.89 per 100K; SC, 1.46	-- 45
224.	1979 --	Dec 27, fire	, Lancaster County Jail, Lancaster, SC	-- 11
225.	1980 --	tuberculosis	; 1,978 US TB deaths/death rate 0.87 per 100K; SC rate 1.79	-- 56
226.	1980 --	June-Aug (especially), heat	(ICD-9 E900 code for excessive natural heat), SC--	18
227.	1981 --	tuberculosis	; 1,937 US TB deaths/death rate 0.84 per 100K; SC rate 1.38	-- 44
228.	1981 --	June-Aug (especially), heat	(ICD-9 E900 code for excessive natural heat), SC--	13
229.	1982 --	tuberculosis	, 1,807 US TB deaths/death rate 0.78 per 100K, SC rate 1.25	-- 40
230.	1982 --	summer heat	(esp. late July-Aug), 15 Counties, SC (subset of 596 US deaths)--	26
231.	1983 --	exposure to excessive natural cold/hypothermia	; 510 US deaths; SC	-- 23
232.	1983 --	tuberculosis	, 1,779 US TB deaths/death rate 0.76 per 100K; SC, 0.99	-- 32
233.	1983 --	Dec 17-31, winter weather	, severe cold/exposure deaths, snow, icy roads	-- 29

**South Carolina (continued):**

234.	1984 -- exposure to excessive natural <b>cold/hypothermia</b> ; 359 US deaths; SC	--	10
235.	1984 -- <b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; SC, 0.98	--	32
236.	1984 -- Mar 28, <b>tornadoes</b> , esp. Fairfield and Marlboro Counties, SC	--	21
237.	1985 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; SC	--	25
238.	1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, SC, 1.15	--	38
239.	1985 -- <b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; 0.88 in SC	--	29
240.	1985 -- Jan 19-23, <b>winter weather, exposure/hypothermia</b> ; SC	--	7-15
241.	1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: SC, 1.02	--	34
242.	1986 -- <b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; SC, 1.08	--	36
243.	1986 -- summer <b>excessive natural heat</b> , subset of >400 US heat-related deaths, SC	--	≥22
244.	1987 -- exposure to excessive natural <b>cold/hypothermia</b> ; 326 US deaths; SC	--	18
245.	1988 -- exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; SC	--	10
246.	1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; SC, 1.11	--	38
247.	1989 -- exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; SC	--	23
248.	1989 -- <b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; SC rate 1.21	--	42
249.	1989 -- Sep 21, <b>Hurricane Hugo</b> , SC	--	35-37
250.	1989 -- Dec 9, 22-26, <b>cold waves and sleet</b> (10 hypothermia/exposure deaths)	--	11
251.	1990 -- exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; SC	--	12
252.	1990 -- <b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; SC, 1.06	--	37
253.	1990 -- summer esp., <b>heat</b> , ICD-9 E900 excessive heat and hyperthermia code	--	11
254.	1991 -- <b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, SC, 1.04	--	37
255.	1992 -- <b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; SC rate 0.83	--	30
256.	1993 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; SC	--	11
257.	1993 -- <b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; SC rate 0.87	--	32
258.	1993 -- summer especially, <b>excessive heat</b> (SC subset of 311 U.S. heat deaths)	--	11
259.	1994 -- exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; SC	--	10
260.	1994 -- <b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K, SC, 0.67	--	25
261.	1995 -- exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; SC	--	12
262.	1995 -- <b>tuberculosis</b> ; 1,336 US TB deaths; death rate 0.5 per 100K; SC, 0.77	--	29
263.	1995 -- summer especially, <b>heat</b> ; SC subset, 1,563-1,601 US heat-related deaths	--	11
264.	1996 -- exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; SC	--	19
265.	1996 -- <b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K, SC 0.6	--	23
266.	1997 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, SC 0.49	--	19
267.	1998 -- exposure to excessive natural <b>cold/hypothermia</b> ; 420 US deaths; SC	--	10
268.	1998 -- <b>infectious colitis/enteritis/gastroenteritis</b> , ICD-9 code 009.0, SC death rate 0.255 per 100K-10	--	10
269.	1998 -- <b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; SC rate 0.46	--	18
270.	1998 -- summer especially, <b>heat</b> (SC subset of 435 U.S. heat-related deaths)	--	13
271.	1999 -- exposure to excessive natural <b>cold/hypothermia</b> ; 598 US deaths; SC	--	11
272.	1999 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.333 per 100K; SC, 0.428	--	17
273.	1999 -- summer, esp. July 23-early Aug, <b>heat</b> , SC subset, 1,050 US heat deaths	--	43
274.	2000 -- exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; SC	--	23
275.	2000 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; SC, 0.847	--	34
276.	2000 -- <b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.276 per 100K; SC, 0.374	--	15
277.	2002 -- exposure to excessive natural <b>cold/hypothermia</b> ; 646 US deaths; SC	--	15



**South Carolina (continued):**

278.	2002	--	tuberculosis	, ICD-10 code A16-19, US death rate 0.273 per 100K; SC, 0.414	--	17
279.	2004	--	exposure to excessive natural cold/hypothermia	; 676 US deaths; SC	--	13
280.	2004	--	tuberculosis	, ICD-10 code A16-19, US death rate 0.22 per 100K; SC, 0.28	--	12
281.	2005	--	exposure to excessive natural heat	; 939 US deaths, subset for SC	--	10
282.	2005	--	influenza	, ICD-10 codes J09-11; US death rate 0.613 per 100K; SC, 0.703	--	30
283.	2006	--	exposure to excessive natural heat	; 1,104 US deaths, subset for SC	--	12
284.	2006	--	influenza	, ICD-10 codes J09-11; US death rate 0.285 per 100K; SC, 0.344	--	15
285.	2007	--	exposure to excessive natural heat	; 582 US deaths, subset for SC	--	26
286.	2008	--	tuberculosis	, ICD-10 code A16-19, US death rate 0.19 per 100K; SC 0.31	--	14
287.	2009	--	exposure to excessive natural cold/hypothermia	; 616 US deaths; SC	--	11
288.	2009	--	H1N1 Swine Flu	, especially fall/winter, (subset of >12,000 U.S. deaths)	--	49
289.	2010	--	exposure to excessive natural cold/hypothermia	; 710 US deaths; SC	--	11
290.	2010	--	exposure to excessive natural heat	; 874 US deaths, subset for SC	--	14
291.	2011	--	exposure to excessive natural heat	, 1,060 US deaths, subset for SC	--	10
292.	2011	--	tuberculosis	, ICD-10 Codes A16-A19; US death rate 0.2 per 100K, SC, 0.3	--	14
293.	2012	--	exposure to excessive natural heat	; 879 US deaths; subset for SC	--	10
294.	2012	--	influenza	, ICD-10 codes J09-11; US death rate 0.4 per 100K; SC rate 0.7	--	31
295.	2012	--	viral hepatitis	, ICD-10 code B15-B19, US death rate 2.6 per 100K; SC, 2.8	--	134
296.	2013	--	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K; SC 1.0	--	49
297.	2013	--	exposure to excessive natural cold/hypothermia	; 725 US deaths; SC subset	--	13
298.	2014	--	exposure to excessive natural cold/hypothermia	; 930 US deaths subset, SC	--	28
299.	2014	--	exposure to excessive natural heat	; 360 US heat-related deaths, subset for SC	--	10
300.	2014	--	influenza	, ICD-10 codes J09-11; US death rate 1.4 per 100,000; SC had 1.7	--	80
301.	2014	--	viral hepatitis	, ICD-10 code B15-B19, US death rate 2.5 per 100K; SC, 2.7	--	128
302.	2015	--	exposure to excessive natural cold/hypothermia	, 815 US deaths subset, SC	--	18
303.	2015	--	exposure to excessive natural heat	; 567 US deaths; subset for SC	--	15
304.	2015	--	influenza	, ICD-10 codes J09-11; US death rate 1.6 per 100,000; SC had 2.3	--	114
305.	2015	--	viral hepatitis	, ICD-10 code B15-B19; US death rate 2.3 per 100K; SC, 2.5	--	120
306.	2016	--	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.7 per 100K; SC 0.8	--	40
307.	2016	--	exposure to excessive natural cold/hypothermia	; 731 US deaths subset, SC	--	21
308.	2016	--	exposure to excessive natural heat	, 786 US deaths, subset for SC	--	14
309.	2016	--	HIV/AIDS	, 6,160 US deaths/death rate 1.9 per 100,000; SC death rate 3.1	--	152
310.	2016	--	influenza	, ICD-10 codes J09-11; US death rate 0.9 per 100,000; SC rate 1.1	--	55
311.	2017	--	exposure to excessive natural cold/hypothermia	, 804 US deaths subset, SC	--	21
312.	2017	--	HIV/AIDS	; 5,698 US deaths/death rate 1.75 per 100K; SC death rate 3.01	--	151
313.	2017	--	influenza	; 6,515 US deaths/death rate 2.0 per 100K pop.; SC death rate 2.19	--	110
314.	2018	--	exposure to excessive natural cold/hypothermia	; subset of 1,028 US deaths	--	23
315.	2018	--	exposure to excessive natural heat	; 1,012 US deaths; subset for SC	--	24
316.	2018	--	HIV/AIDS	; 5,425 US deaths/death rate 1.66 per 100K; SC death rate 2.44	--	124
317.	2018	--	influenza	, ICD codes J09-11.8/death rate 3.41 per 100K pop., SC rate 4.37	--	222
318.	2018	--	Sep 14, Hurricane Florence	(Wrightsville Beach NC landfall); SC	--	10
319.	2019	--	exposure to excessive natural cold/hypothermia	; subset of 1,115 US deaths	--	11
320.	2019	--	exposure to excessive natural heat	deaths; 915 US deaths; subset for SC	--	11
321.	2019	--	HIV/AIDS	; 5,054 US deaths/death rate 1.54 per 100,000 pop.; SC rate 2.35	--	121

322.	2019 --	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, SC rate 1.9	--	98
323.	2020 --	exposure to <b>excessive natural heat</b> ; 1,184 US deaths; subset for SC	--	13
324.	2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; SC rate 2.34	--	122
325.	2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; SC death rate 2.15	--	112
326.	2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); SC 1,029 per 1M pop.-5,296		
327.	2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; SC, 2,8K per 1M	--	9,340
328.	2021 --	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; SC 0.39	--	20
329.	2021 --	exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for SX	--	19
330.	2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; SC death rate 2.43	--	126
331.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; SC death rate 8.11	--	4,175
332.	2022 --	exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for SC	--	22
333.	2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	1,500
334.	2023 --	exposure to <b>excessive natural heat</b> ; 2,155 US deaths, subset for SC	--	20

### Some Select/Notable Other **South Carolina** Large Loss-of-Life Events:<sup>785</sup>

1711-12 --	Winter, <b>disease</b> (smallpox/pestilential fever/pleurisies/flux), Charleston SC	--	>10
1784 --	<b>hail storm</b> , Winnsboro, SC	--	3
1805 --	<b>yellow fever</b> , primarily Charleston, SC	--	≤59
1828 --	late summer-fall, <b>yellow fever</b> outbreak, Charleston, SC	--	26
1830 --	<b>yellow fever</b> outbreak, Charleston, SC	--	39
1832 --	Nov, <b>cholera</b> , locals, subsequent to Grounding of Brig <i>Amelia</i> on Folly Isl., SC	--	~22
1834 --	summer to late fall, Yellow Fever outbreak, Charleston, SC	--	49
1840 --	<b>yellow fever</b> outbreak, Charleston, SC	--	22
1841 --	<b>yellow fever</b> , Charleston, SC <sup>786</sup>	--	≥10
1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	--	87
1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), SC	--	69
1850 --	<b>scarlet fever</b> ; subset 9,584 such deaths 36 States/Territories/DC (avg. 266)	--	75
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	--	267
1854 --	<b>yellow fever</b> , Charleston, SC	--	59
1857 --	<b>yellow fever</b> outbreak, Charleston, SC	--	13
1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	--	254
1860 --	<b>measles</b> (SC subset of 3,900 US measles deaths in 38 registration states)	--	49
1860 --	<b>scarlet fever</b> (SC subset, 26,402 deaths in 38 Census States & DC)	--	162
1862 --	fall, <b>yellow fever</b> , Beaufort/Hilton Head/Port Royal, Union troops	--	≥25
1864 --	<b>smallpox</b> , Hilton Head, SC	--	<20
1870 --	<b>tuberculosis</b> (Consumption) (SC subset of ~70,000 TB deaths nationwide)	--	637
1870 --	<b>typhoid Fever</b> (SC subset of 22,187 typhoid fever deaths nationwide)	--	515
1870 --	<b>typhus</b> (SC subset of 1,770 typhus deaths nationwide)	--	41
1876 --	July 08, <b>whites attack blacks</b> (inc. Co. A, 9 <sup>th</sup> Regiment, SCNG) Hamburg, SC	--	7
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	261
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	535

<sup>785</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

<sup>786</sup> Our guesstimate, based on note that the purchase of the St. Matthew’s German Evangelical Lutheran Church in Charleston “was a cemetery for the burial of German-speaking citizens during a yellow fever outbreak in 1841.”

**South Carolina (continued):**

1879 -- June-May 1880, <b>meningitis</b> (SC subset of 7,481 meningitis deaths nationwide)	--	85
1879 -- June-May 1880, <b>scarlet fever</b> , esp. children (SC subset, 16,388 U.S. S.F. deaths)	--	18
1879 -- June-May 1880, <b>tuberculosis</b> (SC subset of 91,270 TB deaths nationwide)	--	1,294
1879 -- June-May 1880, <b>typhoid fever</b> (SC subset of 23,339 U.S. typhoid deaths)	--	531
1881 -- <b>diphtheria</b> , Charleston, SC	--	17
1885 -- <b>diphtheria and croup</b> , especially children, Charleston, SC	--	12
1889 -- June-May 1890, <b>croup</b> , subset of 13,862 U.S. croup deaths	--	170
1889 -- June-May 1890, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; SC	--	161
1897 -- <b>typhoid fever</b> , subset of $\geq 9,192$ US typhoid deaths, Charleston, SC	--	35
1898 -- <b>typhoid fever</b> (SC subset of $> 4,627$ deaths), 1 <sup>st</sup> and 2 <sup>nd</sup> SC Vols. and Newberry <sup>787</sup>	--	29
1898 -- Oct 02, <b>hurricane</b> , esp. southern lowlands/islands, schooner <i>Sarah E Palmer</i> sinks	--	6-9
1900 -- <b>croup</b> (upper airway contagious viral infection; subset of 12,484 US croup deaths)	--	214
1900 -- <b>diphtheria</b> (SC subset of 16,475 US diphtheria deaths in 1900)	--	83
1900 -- <b>measles</b> (subset of 12,866 US measles deaths)	--	102
1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths) SC	--	112
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	27
1900 -- <b>smallpox</b> (subset, 8,484 US smallpox deaths)	--	85
1900 -- <b>whooping cough</b> (SC subset, 9,958 US whooping cough deaths)	--	176
1907 -- <b>typhoid fever</b> , Charleston; subset of ~13K US Census-area typhoid fever deaths	--	29
1910 -- <b>polio</b> , especially children (SC subset, 1,635 US polio deaths)	--	10
1916 -- <b>diphtheria</b> , especially children (SC subset, $> 8,000$ -17,000 US diphtheria deaths)	--	79
1917 -- <b>polio</b> , esp. June-Sep, especially children (SC subset, $\geq 1,182$ U.S. polio deaths)	--	16
1919 -- <b>diphtheria</b> ; subset, 9,160 US diphtheria deaths; SC	--	108
1920 -- <b>diphtheria and croup</b> (SC subset of 13,395 such deaths in 34 registration states)	--	201
1920 -- <b>measles</b> (SC subset of 7,712 measles deaths in 34 registration states)	--	56
1920 -- <b>scarlet fever</b> (SC subset of 4,004 scarlet fever deaths in 34 registration states)	--	11
1925 -- <b>exposure to excessive cold</b> , SC subset of 239 US excessive cold deaths	--	6
1925 -- <b>diphtheria</b> (SC subset, 8,058 US diphtheria deaths)	--	117
1925 -- <b>meningococcus meningitis</b> (SC subset, 1,095 US meningitis deaths)	--	13
1925 -- <b>tuberculosis</b> (SC subset, 89,268 US tuberculosis deaths)	--	1,693
1927 -- <b>polio</b> (acute) esp. late summer and fall (SC subset, 2,013 polio deaths nationwide)	--	27
1931 -- <b>epidemic cerebrospinal meningitis</b> , (SC subset, 2,832 US meningitis deaths)	--	28
1931 -- <b>diphtheria</b> , especially children (SC subset, 5,738 U.S. diphtheria deaths)	--	93
1931 -- <b>measles</b> , especially children (SC subset, 3,576 measles deaths nationwide)	--	41
1931 -- <b>polio</b> , esp. July-Oct, (SC subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	14
1935 -- Jan 01, <b>fire</b> , Cherokee County Home for elderly men, dormitory, Gaffney, SC	--	5
1937 -- Sep 30-Oct 18, <b>Elixir Sulfanilamide medicine unintentional poisoning</b>	--	9
1939 -- <b>tuberculosis</b> ; 61,609 US tuberculosis deaths; subset for SC	--	805
1940 -- <b>polio</b> , especially children (SC subset of 1,026 polio deaths nationwide)	--	10
1940 -- <b>tuberculosis</b> (SC subset of 55,576 tuberculosis deaths nationwide)	--	851
1944 -- <b>tuberculosis</b> ; 54,731 US tuberculosis deaths; subset for SC	--	660
1945 -- Aug 07, <b>USN PV-2 Harpoon crash</b> after losing control in storm off Hunting Isl., SC	--	7
1946 -- Dec 31, <b>Inter Continental Air Transport</b> missed approach landing crash, Charleston AP	--	5

<sup>787</sup> At least sixteen soldiers died of typhoid in SC, mostly at Charleston.

**South Carolina (continued):**

1948 --	<b>polio</b> , July-Nov especially; subset of 1,895 US polio deaths)	--	15
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	--	9
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths; SC	--	10
1951 --	<b>polio</b> , esp. July-Nov; ~1,555 US polio deaths; subset for SC	--	6
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for SC	--	357
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for SC	--	20
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for SC	--	147
1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; subset for SC	--	13
1952 --	<b>polio</b> , ~3,300 US polio deaths; subset for SC	--	16
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for SC	--	306
1952 --	<b>typhoid fever</b> (code 040); 79 US deaths; subset for SC	--	6
1953 --	<b>influenza</b> ; 9,500 US deaths; SC subset	--	275
1953 --	<b>polio</b> (1,450 US polio deaths); subset for SC	--	11
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; SC subset	--	239
1954 --	<b>polio</b> , acute; 1,400 US deaths; SC subset	--	10
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; SC subset	--	248
1955 --	<b>influenza</b> ; 2,755 US deaths; subset for SC	--	81
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; SC subset	--	203
1955 --	Aug 23, engine fire after takeoff, <b>USAF C119 crash</b> into homes, Charleston SC	--	9
1956 --	<b>influenza</b> , 2,323 US deaths; subset for SC	--	50
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; SC subset	--	186
1956 --	Apr 08, Marine recruits <b>drown</b> , night swamp march, Ribbon Creek, Parris Island, SC	--	6
1957 --	<b>influenza</b> ; 7,463 US deaths; SC subset	--	218
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; SC subset	--	170
1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--	189
1958 --	<b>influenza</b> ; 4,442 US deaths; SC subset	--	106
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; SC subset	--	148
1958 --	Feb 12, auto/5 and bus collide headon on foggy highway 501 ~Conway SC	--	5
1959 --	Sep 29-30, <b>Hurricane Gracie</b> , deaths mostly attributed to vehicular events, SC	--	9
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; SC death rate 5.8	--	137
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; SC death rate 3.6	--	113
1962 --	Dec 6-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	--	7
1963 --	<b>tuberculosis</b> ; 9311 US deaths; death rate 4.9 per 100K; SC death rate 4.9	--	122
1963 --	<b>whooping cough</b> (pertussis); 115 US deaths; SC	--	5
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; SC death rate 4.0	--	101
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for SC	--	44
1966 --	Jan 26-27, 29-30, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; SC	--	≥6
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; SC 0.67--	18	
1971 --	Feb 03, <b>Newberry Flying Service Inc., crash</b> , overshot runway, Columbia, SC	--	all 6
1971 --	Feb 26, Florida Community Bank Volpar <b>missed approach crash</b> , Columbia, SC	--	all 8
1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4,986 US deaths/death rate 2.38 per 100K; SC 2.21--	60	
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; SC rate 2.05	--	57
1973 --	Mar 31, tornado, especially Calhoun Falls, Abbeville County SC	--	7
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; SX/0.633--	18	



**South Carolina – continued:**

1976 --	<b>influenza</b> ;	ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; SC 1.9--	57
1978 --	<b>excessive natural heat</b> (esp. summer),	ICD-8 E900, US death rate 0.12, SC, 0.30	-- 9
1978 --	Oct 06,	temporary cofferdam construction failure, Lake Keowee near Seneca, SC	-- 7
1978 --	Nov 30,	<b>USAF C-130 plane hit by lightning, crashes</b> , near Cottageville, SC	-- 6
1980 --	<b>influenza</b> ,	2,702 US flu deaths/death rate 1.19 per 100K, SC death rate 0.64	-- 20
1981 --	<b>influenza</b> ,	3,006 US flu deaths/death rate 1.31 per 100K, SC death rate 1.01	-- 32
1982 --	Jan 11-17,	<b>winter weather and extreme cold</b> , SC	-- 3-7
1983 --	<b>influenza</b> ,	1,431 US flu deaths, death rate 0.61 per 100K, SC death rate 0.34	-- 11
1987 --	<b>HIV AIDS</b> ,	13,468 deaths/US death rate 5.55 per 100K; SC, 2.81	-- 95
1987 --	<b>tuberculosis</b> ;	1,755 US TB deaths, death rate 0.72 per 100K pop., SC, 0.68	-- 23
1987 --	summer	<b>excessive heat</b> , substate of approximately 388 U.S. heat deaths for SC	-- 8
1988 --	<b>HIV AIDS</b> ,	16,602 deaths/US death rate 6.8 per 100K population; SC, 3.37	-- 115
1988 --	<b>tuberculosis</b> ,	1,921 US TB deaths, death rate 0.78 per 100K pop.; SC, 0.67	-- 23
1989 --	<b>HIV AIDS</b> ;	22,082 US deaths, death rate 8.9 per 100K population; SC, 5.17	-- 179
1988 --	summer,	<b>heat</b> , Aiken, Anderson, Beaufort, Darlington, Dorchester, Lancaster, Orangeburg counties--	7
1990 --	<b>influenza</b> ,	2,098 US flu deaths; death rate 0.84 per 100K population; SC, 0.43	-- 15
1990 --	summer,	<b>excessive natural heat</b> , SC	-- 7
1990 --	Oct 10-12,	<b>Tropical Storm Marco</b> (and Klaus remnants); drownings, SC	-- 5
1993 --	<b>influenza</b> ,	1,044 US flu deaths, death rate 0.40 per 100K population; SC, 0.33	-- 12
1994 --	<b>influenza</b> ,	1,229 US flu deaths; death rate 0.47 per 100K population; SC, 0.32	-- 12
1994 --	Jan 16-23,	<b>extreme winter cold</b> , SC (all hypothermia deaths)	-- 5
1995 --	Aug 27,	<b>Tropical Storm Jerry</b> , esp. Cherokee, Greenville, Lexington Spartanburg Co's-6	
1996 --	<b>influenza</b> ,	745 US flu deaths; US death rate 0.276 per 100K population; SC, 0.263--	10
1999 --	<b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.597 per 100K pop.; SC, 0.538--	21
2003 --	<b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.618 per 100K pop.; SC, 0.578--	24
2003 --	<b>tuberculosis</b> ,	ICD-10 codes A16-A19, death rate 0.25 per 100K pop.; SC, 0.24	-- 22
2005 --	Jan 06,	<b>train wreck</b> and <b>chlorine release</b> , Graniteville, SC	-- 9
2007 --	June 18,	<b>fire</b> , Sofa Super (furniture) store, firefighters killed, Charleston, SC	-- 9
2008 --	<b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.57 per 100K pop.; SC, 0.44	-- 20
2009 --	<b>diarrhoea/gastroenteritis</b>	of Infectious Origin; US death rate 0.9 per 100K; SC, 0.7	-- 32
2009 --	<b>influenza (avian)</b> ,	ICD-10 code J09; US death rate 0.5 per 100K pop.; SC, 0.4	-- 19
2009 --	<b>tuberculosis</b> ,	ICD-10 codes A16-A19; US death rate 0.2 per 100K; SC, 0.2	-- 11
2010 --	<b>diarrhoea/gastroenteritis</b>	of Infectious Origin; US death rate 0.9 per 100K; SC 0.8	-- 39
2010 --	<b>tuberculosis</b> ,	ICD-10 codes A16-A19, US death rate 0.2 per 100K; SC, 0.2	-- 10
2010 --	<b>viral hepatitis</b> ,	ICD-10 codes B15-B19; US death rate 2.4 per 100K; SC, 2.2	-- 104
2011 --	<b>diarrhoea/gastroenteritis</b> ,	infectious origin; US death rate 0.9 per 100K; SC 0.7	-- 34
2011 --	<b>influenza</b> ,	ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; SC rate 0.5	-- 25
2011 --	<b>viral hepatitis</b> ,	ICD-10 codes B15-B19, US death rate 2.5 per 100K; SC, 2.4	-- 110
2012 --	<b>diarrhoea/gastroenteritis</b>	of Infectious Origin; US death rate 0.8 per 100K; SC 0.6	-- 28
2012 --	Feb 12-13,	<b>winter storm Pax</b> , CO poisoning, home fire, hypothermia, vehicular	-- 6
2013 --	<b>viral hepatitis</b> ,	ICD-10 codes B-15-B19; US death rate 2.6 per 100,000; SC 2.6	-- 123
2013 --	<b>influenza</b> ,	ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; SC rate 1.2	-- 56
2014 --	<b>diarrhoea/gastroenteritis</b>	of Infectious Origin; US death rate 0.8 per 100K; SC 0.7	-- 35
2014 --	Dec 20,	apartment <b>fire</b> (mother, adult daughter, 3 children), Spartanburg, SC	-- 5

2015 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin; US death rate 0.8 per 100K; SC 0.7	--	34
2015 --	June 17, <b>violence</b> , mass shooting, AME Church, Charleston, SC	--	9
2016 --	<b>viral hepatitis</b> , ICD-10 codes B15-B19; US death rate 2.0 per 100K; SC rate 2.0	--	98
2018 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; SC subset	--	11
2020 --	Apr 13, <b>tornadoes</b> , esp. counties of Hampton (5 deaths), Orangeburg (2), SC	--	9

**Breakout by Type of South Carolina Large Loss-of-Life Events (10 or more fatalities):**

- 205 -- **Disease**, especially communicable, especially epidemics. (Plus 129 in "Other.")
- 39 -- **Winter Weather, Cold, Hypothermia**. (Plus 6 >10 deaths.)
- 30 -- **Heat**. Plus 4 years 7-9 deaths.
- 22 -- **Hurricanes**. (Plus 4 – 6-9 deaths in 1898, 9 in 1959, 5 deaths in 1990 and 6 in 1995.)
- 18 -- **Maritime and Inland Waterways**. (1804, 1885 hurricanes cross-listed with maritime.)
- 10 -- **Tornadoes**. (Plus 2 -- one in 1973 with 7 deaths and one in 2020 with 9 deaths.)
- 9 -- **Fire, structural**. Includes two cross-listed in Explosions. Plus 3: 5/1935, 9/2007, 5/2014.)
- 7 -- **Aviation**. (Plus 6 noted with 5-9 deaths each.)
- 3 -- **Violence** (Plus two in "Other" -- with 9 (2015) and one with 7 (1876) fatalities.)
- 2 -- **Explosion**.
- 2 -- **Vehicular/Road/Highway**. (5 died in a 1958 accident.)
- 1 -- **Earthquake**.
- 1 -- **Flooding**.
- 1 -- **Rail**. (Plus one with 9 fatalities in "Other" {cross-listed in Hazmat})
- 1 -- **Structural Failure**. (Plus a cofferdam failure in 1978 killing 7 workers.)
- 1 -- **Wildfire**.
- 0 -- **Hailstorm** (3 deaths in 1784)
- 0 -- **Poisoning (unintentional)** (9 deaths in 1937 from Elixir Sulfanilamide medicine)

## SD

## South Dakota

1. 1837-38 -- **smallpox**, Upper Mid-West native tribes, especially Dakotas/MT<sup>788</sup>--10K~17,000
2. 1851 -- **cholera**, Fort Pierre and Dakota Sioux/Three Tribes -- ~340
3. 1873 -- Aug 25-Sep 15, **cholera**, Yankton, Yankton Co., Dakota Territory (SD) -- 46
4. 1879 -- June 12, cloudburst, **flash flood**, Beaver Creek, Deadwood, SD -- 11
5. 1881 -- Jan, last 3 weeks, **smallpox** outbreak, Jefferson, Dakota Territory (SD) -- 32
6. 1888 -- Jan 12, “**Schoolchildren’s Blizzard**” and **extreme cold**, SD 149-155
7. 1889-90, June 1-May 31. **diphtheria**; subset of 27,815 U.S. diphtheria deaths; SD -- 229
8. 1890 -- Dec 29, **Wounded Knee Massacre**, U.S. 7<sup>th</sup> Cavalry, SD -- 350
9. 1899 -- Feb 12, **fire**, State Insane Asylum, near Yankton, SD -- 17
10. 1900 -- **typhoid fever** (SD subset of 35,379 typhoid fever deaths nationwide) -- 73
11. 1907 -- **tuberculosis**; 76,650 US deaths; subset for SD -- 411
12. 1907 -- **typhoid fever** (subset of approximately 13,000 US deaths), SD -- 92
13. 1907 -- **whooping cough** (SD subset of 4,856 “registration” area deaths)<sup>789</sup> -- 137
14. 1910 -- **polio**, especially children, SD -- 10
15. 1918 -- Sep-Dec, **influenza** epidemic, SD --2,108
16. 1918 -- **typhoid fever** (SD subset of 9,100 U.S. Typhoid Fever deaths) -- 37
17. 1919 -- July 04, pleasure steamer **Reliance** snags and sinks, Lake Madison, SD --15-16
18. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; SD, 6.0 -- 42
19. 1931 -- summer, **excessive natural heat**; subset of 2,768 US deaths, SD -- 27
20. 1934 -- summer, **excessive natural heat**; subset of 3,250 US heat deaths; SD -- 26
21. 1936 -- July-Aug (especially), **excessive heat** (4,678-5,418 US heat deaths), SD subset-- 30
22. 1943 -- Feb 17, **plane crash**, U.S. Army Air Force B-17, near Huron, SD -- 12
23. 1943 -- May 22, **plane crash**, US Army AF B-17G, ~Army Air Base, Rapid City, SD -- 11
24. 1943 -- June 13, **planes collide**, two USAAF B-17F bombers, near Fedora, SD --10-11
25. 1943 -- Sep 06, **plane crash**, U.S. Army Air Force B-17F, near Rapid City, SD -- 10
26. 1943 -- Dec 13, **plane crash**, US Army Air Force B-17F, near Rosebud, SD -- 10
27. 1944 -- May 18, **plane crash**, USAAF B-17G, near Rapid City Army Air Base, SD -- 10
28. 1944 -- Dec 08, **planes collide**, US Army Air Force AT-18’s, Sioux Falls AAF, SD -- 10
29. 1946 -- **polio**, especially July-Nov (SD subset of 1,845 polio deaths nationwide) -- 35
30. 1948 -- **polio**, SD subset of 1,895 polio deaths nationwide -- 90
31. 1948 -- Aug 20, **USAF B-29 engine fire**, takeoff attempt, **crash**, Rapid City AFB ~Rapid City, SD--17
32. 1949 -- **polio**, especially July-Nov (SD subset of ~2,725 polio deaths nationwide) -- 28
33. 1952 -- **polio**, subset of ~3,300 US polio deaths; SC subset -- 49
34. 1954 -- Aug 27, USAF RB-36 landing approach crash 2M ~Ellsworth AFB, Rapid City, SD-- 26
35. 1957 -- **influenza**; 7,463 US deaths; SD subset -- 45
36. 1957 -- fall-spring 1958, H2N2 Asian **influenza & pneumonia** pandemic (US 116K)<sup>790</sup>-- 243
37. 1960 -- **influenza**; 7,872 US deaths/death rate 4.4 per 100K; SD death rate 5.7 -- 39
38. 1962 -- **influenza**; 3,431 US deaths/death rate 1.8 per 100K; SD death rate 1.9 -- 13

<sup>788</sup> We do not know the SD breakout. We know many thousands of natives died in the upper mid-west, including tribes residing in SD such as the Arikara and the Mandan.

<sup>789</sup> “All of the registration states showed lower mortalities for 1907 as compared with 1906, except California, South Dakota, and Vermont. In South Dakota the death rate from this disease was excessive (28.7).” (U.S. Dept. of Commerce and Labor. Bureau of the Census. *Mortality Statistics 1907 (Eighth Annual Report)*. DC: GPO, 1909.

<sup>790</sup> Communicable Disease Center, Atlanta (CDC predecessor) noted that the Dakotas were “extensively involved.”

**South Dakota (continued):**

39.	1965	--	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; SD death rate 1.8	--	13
40.	1966	--	<b>tuberculosis</b> , 7,625 US TB deaths; subset for SD	--	27
41.	1968	--	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; SD--	--	16
42.	1968	--	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; SD 4.5--	--	30
43.	1969	--	<b>influenza</b> , ICD-8 codes 470-474; 5,971 US deaths/death rate 2.96 per 100K; SD 3.2--	--	21
44.	1969	--	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; SD 2.86	--	19
45.	1970	--	<b>influenza</b> ; 3,707 US deaths/death rate 1.8 per 100K; SD 2.1	--	14
46.	1972	--	<b>influenza</b> ; 4986 US deaths/death rate 2.38 per 100K; SD 8.86 (USA State high)--	--	60
47.	1972	--	June 09, <b>Pactola Dam failure</b> , Black Hills flash <b>flood</b> , Rapid City, SD	--	236-238
48.	1973	--	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; SD 4.86	--	33
49.	1974	--	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; SD/2.5--	--	17
50.	1975	--	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; SD, 3.4--	--	23
51.	1975	--	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; SD, 2.64	--	18
52.	1976	--	<b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; SD 10.5--	--	72
53.	1977	--	<b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; SD	--	10
54.	1978	--	exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; SD <sup>791</sup>	--	10
55.	1978	--	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; SD, 4.34	--	30
56.	1978	--	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; SD, 1.74	--	12
57.	1980	--	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, SD, 2.46	--	17
58.	1981	--	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, SD, 4.20	--	29
59.	1982	--	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, SD, 1.74	--	12
60.	1983	--	exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; SD <sup>792</sup>	--	10
61.	1983	--	<b>influenza</b> , 1,431 US flu deaths/death rate 0.61 per 100K, SD, 1.88	--	13
62.	1985	--	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, SD, 1.86	--	13
63.	1986	--	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: SD, 2.59	--	18
64.	1988	--	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; SD, 3.30	--	23
65.	1989	--	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; SD, 1.87	--	13
66.	1990	--	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; SD, 2.30	--	16
67.	1993	--	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; SD	--	13
68.	1994	--	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; SD, 2.60	--	19
69.	1996	--	<b>influenza</b> , 745 US flu deaths; death rate 0.276 per 100K; SD, 1.616	--	12
70.	1998	--	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; SD, 3.35	--	25
71.	1999	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; SD, 4.931	--	37
72.	2000	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; SD, 3.047	--	23
73.	2002	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; SD, 2.237	--	17
74.	2003	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; SD, 2.619 <sup>793</sup> --	--	20
75.	2004	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; SD, 1.298	--	10
76.	2005	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; SD, 4.513	--	35
77.	2006	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; SD, 1.277	--	10
78.	2008	--	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; SD subset	--	11

<sup>791</sup> At 1.45 hypothermia deaths per 100,000 population, according to the CDC, this was the 2<sup>nd</sup> highest State hypothermia death rate in the US (average 0.29), behind Wyoming with 8 deaths and a death rate of 1.85.

<sup>792</sup> At 1.44 hypothermia deaths per 100,000 people, SD had highest death rate in the US (US average 0.22).

<sup>793</sup> Second highest State death rate, behind ND at 2.661 per 100,000.



**South Dakota (continued):**

79. 2008 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; SD, 2.13	--	17
80. 2009 --	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); SD 1.2	--	10
81. 2009 --	<b>H1N1 Swine Flu</b> , especially fall/winter, (subset of >12,000 U.S. deaths)	--	23
82. 2010 --	exposure to excessive natural <b>cold/hypothermia</b> ; 710 US deaths; SD subset	--	13
83. 2011 --	exposure to excessive natural <b>cold/hypothermia</b> ; 0.216 death rate; SD, 1.698	--	14
84. 2011 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; SD, 2.3	--	19
85. 2012 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.4 per 100K; SD, 2.5	--	21
86. 2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; SD 1.2	--	10
87. 2013 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100K; SD rate 3.6	--	30
88. 2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; SD 1.2	--	10
89. 2014 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.4 per 100K; SD rate 1.5	--	13
90. 2015 --	<b>diarrhoea/gastroenteritis</b> , infections origin; US death rate 0.8 per 100K; SD 1.2	--	10
91. 2015 --	<b>influenza</b> , ICD-10 codes J09-11.8; UD death rate 1.6 per 100K; SD rate 4.7	--	40
92. 2016 --	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths subset, SD	--	14
93. 2017 --	exposure to excessive natural <b>cold/hypothermia</b> , 804 US deaths subset, SD	--	13
94. 2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; SD rate 4.14	--	36
95. 2018 --	exposure to excessive natural <b>cold/hypothermia</b> ; subset of 1,028 US deaths	--	13
96. 2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., SD rate 5.67	--	50
97. 2019 --	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, SD rate 3.28	--	29
98. 2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); SD 1,682 per 1M pop.	--	1,488
99. 2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; SD, 2.8K per 1M	--	998
100. 2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; SD death rate 7.14	--	632

**Some Select/Notable Other South Dakota Large Loss-of-Life Events:<sup>794</sup>**

1801-1802 --	<b>smallpox</b> , Native Americans, especially Dakota and Mandan, SD <sup>795</sup>	--	?
1889-90 --	June-May, <b>croup</b> , subset of 13,862 U.S. croup deaths, SD	--	35
1889-90 --	June-May, <b>measles</b> , subset of 9,256 US measles deaths, SD	--	57
1889-90 --	June-May, <b>typhoid fever</b> ; subset of 27,058 US typhoid deaths; SD	--	138
1900 --	<b>croup</b> (upper airway contagious viral infection; subset, 12,484 US croup deaths, SD	--	39
1900 --	<b>diphtheria</b> (subset of 16,475 US diphtheria deaths in 1900); SD	--	89
1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900); SD	--	17
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths); SD	--	26
1900 --	<b>measles</b> (subset of 12,866 US measles deaths); SD	--	39
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths); SD	--	40
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths); SD	--	21
1900 --	<b>tuberculosis</b> ; leading cause of all SD deaths (3,088); 109,750 US TB deaths	--	425
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths); SD	--	53
1931 --	<b>diphtheria</b> , especially children (subset, 5,738 U.S. diphtheria deaths); SD	--	18

<sup>794</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>795</sup> We have not seen an estimate of the death toll, only that smallpox spread from the east westward. Frequently the smallpox death rate among Native populations (e.g. Mandan and Ponca, possibly Dakota in SD) was on the order of 30-50 percent. We can only guess that the deaths must have been in the hundreds, if not many hundreds.

**South Dakota (continued):**

1931 --	<b>influenza</b> (subset of 31,701 US influenza deaths); SD	--	185
1931 --	<b>polio</b> , esp. July-Oct, (subset of 2,139-2,144 U.S. polio deaths, esp. children); SD	--	13
1936 --	Feb 03-28 especially, Arctic <b>cold waves, snowstorms</b> (273 US deaths), SD	--	8
1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (subset of 1,997 U.S. diphtheria deaths); SD	--	16
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); SD death rate 5.6	--	36
1943 --	Feb 11, <b>fire</b> and suffocation (elderly), Convalescent Home, Sioux Falls, SD	--	7
1944 --	<b>influenza</b> (SD subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	--	74
1944 --	<b>measles</b> , especially Jan-June (subset of 1,923 US measles deaths); SD	--	15
1944 --	<b>whooping cough</b> (subset of 1,878 US whooping cough deaths); SD	--	13
1944 --	Dec 25, <b>USAF C-47A plane crash</b> , Roundtop Mt. near Harrisburg, PA <sup>796</sup>	--	7
1949 --	Apr 10, <b>explosion</b> , propane gas furnace leak, St. Mary's Church, Marion, SD	--	6
1950 --	<b>measles</b> ; subset of 468 US polio deaths, SD	--	6
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths, SD	--	16
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths, SD	--	9
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for SD	--	94
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for SD	--	30
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for SD	--	67
1953 --	<b>influenza</b> ; 9,500 US deaths; subset for SD	--	48
1953 --	<b>polio</b> , subset of 1,450 US polio deaths, SD	--	7
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; SD subset	--	56
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; SD subset	--	43
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; SD subset	--	34
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; SD subset	--	37
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; SD subset	--	28
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; SD subset	--	39
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; SD subset	--	32
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; SD death rate 2.9	--	28
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; SD death rate 2.9	--	20
1962 --	<b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population; SD death rate 0.8	--	6
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; SD death rate 2.9	--	21
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; SD death rate 3.1	--	23
1963 --	<b>tuberculosis</b> ; 9,311 US deaths; death rate 4.9 per 100K; SD death rate 3.7	--	27
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9 per 100K; SD death rate 1.8	--	9
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; SD death rate 3.2	--	23
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; SD death rate 3.7	--	26
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for SD	--	14
1966 --	Mar 22-24, <b>Midwest blizzard/snowstorm</b> , 41-46 US deaths; SD	--	7-8
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; SD death rate 1.51	--	10
1968 --	Mar 17, Beechcraft with HS cheerleaders <b>landing crash</b> in crosswind, Rapid City, SD--		9
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; SD 1.93--		13
1971 --	excessive natural <b>cold</b> ; ICD-8 code E901; 361 US deaths; SD	--	7
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; SD 1.04--		7
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; SD death rate 1.34	--	9

<sup>796</sup> Seven fatalities and 14 injured were from South Dakota where they were headed for Christmas furlough.

1972 --	<b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; SD	--	8
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; SD death rate 1.48	--	10
1975 --	Jan 10-12, winter storm/ <b>blizzard</b> (90 US deaths), SD	--	8
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; SD death rate 1.01	--	7
1981 --	<b>tuberculosis</b> ; 1,937 US TB deaths/death rate 0.84 per 100K; SD death rate 1.16	--	8
1983 --	<b>tuberculosis</b> , 1,779 US TB deaths, death rate 0.76 per 100K; SD death rate 1.15	--	8
1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, SD, 1.00	--	7
1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; SD, 0.86	--	6
1987 --	summer <b>excessive heat</b> , subset of approximately 388 U.S. heat deaths, SD	--	5
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; SD, 0.72	--	5
1993 --	Apr 19, <b>plane crash</b> , SD Governor Mickelson & party, near Zwingle, IA <sup>797</sup>	--	8
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; SD, 1.9	--	16
2012 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100,000; SD, 1.6	--	13
2013 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100,000; SD, 1.3	--	11
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; SD, 1.4	--	12
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; SD, 1.2	--	10
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100,000; SD, 1.3	--	11
2019 --	Nov 30, <b>Pilatus PC-12 plane crash during initial climb</b> , Chamberlain Airport, SD--	9	
2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; SD subset	--	17
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	113

#### Breakout by Type of **South Dakota** Large-Loss-of-Life Events (10 or more fatalities):

- 70 -- **Disease**, select communicable, especially epidemics. (Plus 64 in "Other.")
- 12 -- **Winter Weather/Blizzards/Cold/Hypothermia**. (Plus 5 years with 7 or 8 deaths.)
- 9 -- **Aviation** (Plus 4 events with 4-9 deaths each.)
- 3 -- **Heat**. (Plus one year with fewer than 10 deaths -- five in 1987.)
- 2 -- **Flooding and Flash Flooding** One is cross-listed in Structural (dam) Failure.
- 1 -- **Fire, structural**. Plus 1 event >10 deaths: 7 in Feb 11, 1943 fire.
- 1 -- **Structural Failure**
- 1 -- **Violence**
- 1 -- **Water Craft**.
- 0 -- **Explosion**. (There were, though, 6 deaths in a 1949 furnace gas leak explosion in Marion.)

<sup>797</sup> Though the plane crashed in IA, we cross-list here in that all the occupants were SD residents; an official SD government trip, killing not only the Governor, but other SD gov. officials and businessmen, and pilots.

## TN

## Tennessee

1. 1811 -- Dec 16-Feb 7, 1812, **New Madrid Earthquakes**, especially Reelfoot Lake area-- $\geq$ 10
2. 1828 -- Late summer to fall, **yellow fever** epidemic, Memphis, TN -- 56
3. 1830 -- Feb 24, steamboat **Helen McGregor** boiler explosion, Miss riv., Memphis, TN--33-60
4. 1832 -- Mar 27-July 12, **cholera** outbreak, Nashville, TN -- 77
5. 1833 -- **cholera**, esp. Shelbyville/109, June 26-July 16), also Nashville (70/June), etc. --  $\geq$ 220
6. 1835 -- Apr 13-July 5, **cholera**, esp. Franklin, July 2-5 (10), Memphis (35) TN Pen. (28)-- 94
7. 1835 -- May 15, steamboat **Majestic** boiler collapse/explosion, Memphis TN --38-40
8. 1836 -- ~Oct, steamer **Nicholas Biddle** boiler explosion, below Memphis TN --13-15
9. 1844 -- Dec 14, **Belle of Clarksville/Louisiana** collision, MS River, ~Memphis, TN<sup>798</sup>-31-36
10. 1849 -- **cholera** epidemic, especially Memphis (~400) and Nashville (285), TN -- 736
11. 1850 -- spring-July, **cholera**, especially Nashville ( $\geq$ 301) -- 363
12. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 11,875 TN deaths -- 652
13. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 224
14. 1851 -- **cholera**, especially Memphis; also Franklin and Clarksville, TN -- $\geq$  115
15. 1852 -- Jan 25, steamer **De Witt Clinton** snags, sinks, MS Riv. below Memphis, TN --35-40
16. 1854 -- May-Sep, **cholera**, especially Fayetteville/46, Knoxville/21, Nashville/88, TN-- 155
17. 1855 -- Summer-Fall, **yellow fever** epidemic, Memphis, TN -- 220
18. 1860 -- **croup** (contagious upper airway viral infection; subset, 15,188 US croup deaths)<sup>799</sup>-904
19. 1860 -- **scarlet fever** (TN subset of 26,402 deaths in 38 Census States & DC) -- 879
20. 1860 -- **tuberculosis** ("consumption") (TN subset of 49,082 death nationwide)<sup>800</sup> --1,440
21. 1860 -- **typhoid fever** (TN subset, 19,236 deaths in 38 "registration" States and DC) -- 918
22. 1860 -- **whooping cough** (TN subset of 8,408 whooping cough deaths nationwide) -- 291
23. 1860 -- **measles** (TN subset of 3,900 measles deaths nationwide) -- 121
24. 1860 -- **smallpox** (State subset of 1,263-1,271 smallpox deaths in reporting States) -- 10
25. 1860 -- Apr 26, steamer **Alfred T. Lacy** fire, Isl. 16, Linwood Bend, MS Riv., ~Booth Pt. TN-- 16
26. 1862 -- Nov 12, steamer **Eugene** snags wreck/sinks, Miss. River, Plum Point Bend, TN-- 15
27. 1864 -- Apr 12/13, **massacre**, Confederates kill captives, esp. Black, Fort Pillow, TN -- ~300
28. 1864 -- Nov 03, steamboat **James White**, snags/sinks, Mississippi River, Island #10, TN-- 17
29. 1865 -- Jan 26/27, steamer **Eclipse** boiler explosion, Tenn. River, Johnsonville, TN --27-36
30. 1865 -- June 09, ordnance bldg. **explosion**/fire from **train sparks**, Chattanooga, TN -- ~10
31. 1866 -- Mar 04, steamboat **Lockwood** explosion/fire, 8 miles below Memphis, TN --17-25
32. 1866 -- May 01-3, Racial riots, **Irish police lead riots against blacks**, Memphis TN<sup>801</sup>-46-48
33. 1866 -- Aug 29-Oct 09, **cholera** epidemics, Memphis (900-1000), Nashville (~800) ---~1,800
34. 1867 -- July-Aug especially, **cholera**, Memphis -- ~70
35. 1867 -- summer-fall, **yellow fever** epidemic, Memphis, TN -- 550
36. 1867 -- Jan 17, steamer **Platte Valley** hits submerged wreck, MS Riv. near Memphis TN--16-50
37. 1870 -- **croup**, especially children (TN subset of 10,692 deaths nationwide) -- 652
38. 1870 -- **diarrhoea** (445), **dysentery** (79), **enteritis** (236); U.S. Census data -- 750
39. 1870 -- **measles**, especially children (TN subset of 9,237 measles deaths nationwide) -- 335
40. 1870 -- **pneumonia** (TN subset of 40,012 pneumonia deaths nationwide) --1,298

<sup>798</sup> Besides the proximity to Memphis, the boat was a Nashville, TN boat.

<sup>799</sup> From US Census of 38 "registration" (reporting) states.

<sup>800</sup> Was the leading reported cause of death in the State and in the U.S. in 1860.

<sup>801</sup> Forty-six blacks killed by police and rioters; 2 whites killed by friendly-fire.



**Tennessee (continued):**

41. 1870 -- **smallpox** (TN subset of 4,597 smallpox deaths nationwide) -- 94
42. 1870 -- **tuberculosis** (Consumption) (TN subset of ~70,000 TB deaths nationwide) --2,377
43. 1870 -- **typhoid fever** (TN subset of 22,187 typhoid fever deaths nationwide) -- 607
44. 1870 -- **whooping cough** (TN subset of 9,008 whooping cough deaths nationwide) -- 361
45. 1870 -- Feb 19, steamer **Emma No. 3** snags, burns,<sup>802</sup> MS Riv., Isl. No. 35/Reverie, TN-- 40
46. 1870 -- July 31, steamer **Silver Spray** boiler explosion/fire, MS River, Pacific Place, TN--9-13
47. 1871 -- Jan 28, steamer **W. R. Arthur** boilers explode, MS riv., Isl. #40 ~Memphis, TN--45-66
48. 1871 -- July 3, **bridge fails** under **train**, Harpeth River, near Nashville, TN -- 15
49. 1873 -- **cholera**, esp. Chattanooga/≥86, Gallatin, Memphis/300, Nashville/~1K --2,072-2,223
50. 1873 -- Aug-Nov, **yellow fever**, Memphis, TN --2,000
51. 1878 -- Aug-Nov 18, **yellow fever**, esp. Memphis, Chattanooga and Brownsville, TN->6,200
52. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, TN set (US high), 17,966 US croup deaths--1,010
53. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) --1,020
54. 1879 -- June-May 1880, **malarial fever**, (TN subset, 20,231 US malarial deaths) -- 906
55. 1879 -- June-May 1880, **measles**, esp. children (TN subset, 8,254 US measles deaths) -- 107
56. 1879 -- June-May 1880, **meningitis** (State subset of 7,481 U.S. meningitis deaths)<sup>803</sup> -- 296
57. 1879 -- June-May 1880, **tuberculosis** (TN subset of 91,270 TB deaths nationwide) --3,623
58. 1879 -- June-May 1880, **typhoid fever** (TN subset of 23,339 U.S. Typhoid deaths) -- 903
59. 1879 -- June-May 1880, **whooping cough** (TN subset, 11,064 U.S. W.C. deaths) -- 457
60. 1879 -- July 9-Nov 10, **yellow fever**, Memphis, TN<sup>804</sup> --485-587
61. 1882 -- **smallpox**, esp. Chattanooga (248), Shelby Co., including Memphis (165) -- 535
62. 1882 -- Mar 30, steamboat **Golden City** burns, Mississippi River, Memphis, TN --28-32
63. 1883 -- **smallpox**, esp. Chattanooga (103), also Nashville (47) and elsewhere -- 257
64. 1884 -- Jan 23, **raft upset/drownings**, Upper Cumberland River, near Carthage, TN -- 9-10
65. 1889-90, June-May, **croup**, subset of 13,862 U.S. croup deaths -- 598
66. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 306
67. 1889-90, June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths --1,083
68. 1891 -- Mar 13, **fire**, Central Tennessee Insane Asylum, near Nashville, TN --10-11
69. 1895 -- Dec 20, **mine** explosion, Nelson Coal Mine, Dayton, TN -- 30
70. 1896 -- **measles**, esp. Nashville (66); also Knoxville, Memphis, Murfreesboro, TN -- ≥70
71. 1897 -- July 06, wheat thrashing machine **boiler explosion**, Hartsville area, TN -- 9-12
72. 1897 -- Oct 22-Nov 7, **yellow fever**, Memphis, TN --14-16
73. 1900 -- **croup** (upper airway contagious viral infection; subset, 12,484 US croup deaths)<sup>805</sup>-958
74. 1900 -- **dysentery** (subset, 11,710 US dysentery deaths; 5<sup>th</sup> largest loss of life by a state)-663
75. 1900 -- **influenza** (subset, 16,645 US influenza deaths; 2<sup>nd</sup> largest state flu loss, 1900)--1,019
76. 1900 -- **malarial fever** (14,874 US malarial fever deaths; 6<sup>th</sup> largest loss by a state) -- 987
77. 1900 -- **measles** (subset of 12,866 US measles deaths; 6<sup>th</sup> largest state measles loss) -- 794
78. 1900 -- **meningitis** (subset, 19,423 US meningitis deaths), TN -- 595
79. 1900 -- **tuberculosis** (30,572 TN deaths all causes) (109,750 US TB deaths), TN --4,451
80. 1900 -- **typhoid fever** (subset of 35,379 typhoid fever deaths nationwide), TN --1,709

<sup>802</sup> Cross-listed in fire in that the fire forced crew and passengers into the water where many drowned.

<sup>803</sup> In terms of deaths per State, TN was 4<sup>th</sup>, following KY with 350, NY with 314 and PA with 305 deaths each.

<sup>804</sup> National Board of Health notes in its 1879 *Annual Report* that over half the estimated 40,000 pop. fled Memphis.

<sup>805</sup> The only state with a larger loss of life to croup in 1900 was PA with 1,064.

**Tennessee (continued):**

81. 1900 -- **whooping cough**; subset, 9,958 US whooping cough deaths; 6<sup>th</sup> highest in US-- 425
82. 1901 -- May 27, **mine** dust explosion, New Richland Coal Mine, Dayton, TN --20-21
83. 1902 -- Mar 28-30, **flooding**, esp. Pulaski, Harriman, Lewisburg, McMinnville TN --22-25
84. 1902 -- Mar 31, **mine** explosion, Nelson Coal Mine, Dayton Coal/Iron Co., Dayton, TN-- 22
85. 1902 -- May 19, **mine** explosion, Fraterville Coal Mine, Coal Creek, TN --184-227
86. 1903 -- Dec 18, **fire**, Women's Dormitory, Walden University, Nashville, TN -- 9-15
87. 1904 -- Sep 24, **trains collide head-on**, New Market, TN -- 62
88. 1905 -- **tuberculosis**, Memphis & Nashville; 56,770 census deaths (10 states/135 cities)<sup>806</sup>-- 558
89. 1906 -- Sep 21, **explosion, carload of dynamite**, ~Southern **Rail Depot**, Jellico TN -- 7-20
90. 1909 -- Apr 29, **tornadoes**, multiple counties, esp. Giles, Lincoln, Decatur counties --77-85
91. 1909 -- Oct 14, storm & **tornadoes**., seven counties (esp. Hardin and McNairy), TN --42-50
92. 1910 -- **smallpox** (TN subset of 403-415 US smallpox deaths in 1910) -- 10
93. 1911 -- Mar 15, **structural collapse**, J.H. Fall & Co. Bldg., 3<sup>rd</sup> Ave., Nashville, TN -- 13
94. 1911 -- June 24, flue collapse, **City of St. Joseph**, Miss. River, Presidents Island, TN --20-22
95. 1911 -- Dec 09, **mine** explosion, Cross Mountain Coal Mine, Briceville, TN -- 100
96. 1913 -- Mar 13, **tornadoes**, (4), TN -- 26
97. 1916 -- June 05, **tornado**, packet-boat **Eleonore** capsizes, MS River ~Memphis, TN --12-30
98. 1916 -- Aug 02-03, Cloudburst, **Mill Dam fails, flash flood**, ~New Tazewell, TN --27-38
99. 1917 -- **influenza**; 12,974 US influenza deaths/death rate 17.2 per 100K; TN, 24.5 -- 565
100. 1917 -- **polio**, esp. June-Sep, especially children (TN subset, ≥1,182 US polio deaths)-- 25
101. 1917 -- May 27, **tornado**, Miss. Co., AR, Lauderdale/Dyer/Gibson/Weakley, TN -- 18
102. 1917 -- May 27, **tornadoes** (3), 12 counties, TN -- 13
103. 1917 -- Dec 20, **mine** explosion, No. 3 Coal Mine, Catoosa, TN -- 11
104. 1918 -- Sep-1919, **influenza and pneumonia** Epidemic, TN --7,721
105. 1918 -- July 09, **trains collide**, "**Great Nashville Train Collision**," Nashville, TN -- 101
106. 1920 -- **diphtheria & croup** (TN subset of 13,395 deaths in 34 registration states) -- 389
107. 1920 -- **influenza and pneumonia**, especially Memphis and Nashville, TN --1,353
108. 1920 -- **malaria**, TN subset, 6<sup>th</sup> highest, 3,136 malaria deaths, 34 registration states -- 183
109. 1920 -- **measles** (TN subset of 7,712 measles deaths in 34 registration states) -- 250
110. 1920 -- **tuberculosis**, esp. Chattanooga/Knoxville/Memphis/Nashville (US/99,916) --3,405
111. 1920 -- **typhoid fever**; TN subset, 6,805 typhoid fever deaths, 34 registration states -- 434
112. 1920 -- **whooping cough**; TN subset, 10,968 whooping cough deaths, 34 reg. states -- 295
113. 1921 -- Jan 24, **gasoline explosion, parked rail tank car**, Memphis, TN -- 13
114. 1923 -- Mar 11, **tornado**, Chester and Madison Counties, TN -- 20
115. 1923 -- May 11, **tornado**, Chester and Madison Counties, TN -- 20
116. 1925 -- **diphtheria** (subset, 8,058 US diphtheria deaths); TN -- 186
117. 1925 -- **dysentery** (TN subset, 3,257 US dysentery deaths) -- 207
118. 1925 -- **excessive natural heat** (TN subset, 1587 US excessive heat deaths) -- 25
119. 1925 -- **influenza** (TN subset, 7<sup>th</sup> highest, 30,538 US influenza deaths) --1,344
120. 1925 -- **malaria** (TN subset, 7<sup>th</sup> highest loss by state, of 2,132 malaria deaths in 1925)--155
121. 1925 -- **measles** (TN subset of 2,404 measles deaths in 40 "registration" states) -- 60
122. 1925 -- **meningococcus meningitis** (TN subset, 1,095 US meningitis deaths) -- 33
123. 1925 -- **tuberculosis** (TN subset, 7<sup>th</sup> highest of 89,268 US tuberculosis deaths) --3,368

<sup>806</sup> Census average

**Tennessee (continued):**

124.	1925 --	<b>typhoid/paratyphoid fever</b> (TN subset, 8,287 US Typhoid Fever deaths) <sup>807</sup> --	653
125.	1925 --	<b>whooping cough</b> (TN subset, 6,948 US whooping cough deaths)	-- 185
126.	1925 --	Mar 18, <b>tornadoes</b> , especially Sumner County (27), also Rutherford Co.	-- 30
127.	1925 --	May 08, US steamer <b>Norman</b> capsizes/sinks, Miss. River, Coahoma, MS <sup>808</sup>	--16-23
128.	1925 --	July 23, <b>mine</b> explosion, Rockwood Coal Mine, Rockwood, TN	-- 10
129.	1926 --	Oct 04, <b>mine</b> explosion, Rockwood Coal Mine, Rockwood, TN	-- 27
130.	1931 --	<b>epidemic cerebrospinal meningitis</b> ; subset, 2,832 US meningitis deaths; TN	-- 143
131.	1931 --	<b>diphtheria</b> , especially children (TN subset, 5,738 U.S. diphtheria deaths)	-- 277
132.	1931 --	<b>influenza</b> (TN subset of 31,701 influenza deaths nationwide)	--1,033
133.	1931 --	<b>malaria</b> (TN subset, 2,536 malaria deaths nationwide)	-- 144
134.	1931 --	<b>measles</b> , especially children (TN subset, 3,576 measles deaths nationwide)	-- 110
135.	1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; TN, 6.9	-- 181
136.	1931 --	summer, <b>heat</b> , excessive heat deaths (TN subset, 2,768 U.S. deaths)	-- 22
137.	1932 --	Jan 14, <b>tornado</b> , Gibson County, TN	-- 10
138.	1932 --	Mar 21, <b>tornadoes</b> , TN	-- 22
139.	1933 --	Mar 14, <b>tornado outbreak</b> , esp. Nashville, Pruden, Kingsport area, TN	--45-52
140.	1933 --	May 10, <b>tornado</b> , Overton, Pickett Counties, TN	-- 35
141.	1934 --	summer, <b>excessive natural heat</b> ; subset of 3,250 US heat deaths; TN	-- 51
142.	1936 --	Apr 05, <b>tornadoes</b> , Hardin, Lewis, Lincoln, Maury, Wayne Counties, TN	-- 16
143.	1936 --	July-Aug, esp., <b>excessive heat</b> (4,678-5,418 US heat deaths), TN subset	-- 41
144.	1937 --	Jan 25-Feb 08 (generally), <b>flooding</b> , OH and MS River Valley areas	--18-23
145.	1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec; subset of 1,997 US diphtheria deaths, TN--	91
146.	1939 --	<b>influenza and pneumonia</b> (TN subset, 99,097 US flu/pneumonia deaths)	--2,987
147.	1939 --	<b>malaria</b> (TN subset of 1,761 malaria deaths nationwide)	-- 96
148.	1939 --	<b>tuberculosis</b> (TN subset of 61,609 tuberculosis deaths nationwide)	--2,127
149.	1939 --	<b>whooping cough</b> (TN subset of 3,026 whooping cough deaths nationwide)	-- 104
150.	1940 --	<b>influenza and Pneumonia</b> (TN subset, 92,525 US flu & pneumonia deaths)	--3,010
151.	1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); TN death rate 24.5	-- 423
152.	1940 --	<b>tuberculosis</b> (TN subset of 55,576 tuberculosis deaths nationwide)	--2,020
153.	1940 --	<b>whooping cough</b> ; 2,926 US WC deaths/death rate 2.2 per 100K, TN, 3.8	-- 110
154.	1941 --	<b>measles</b> , esp. children (TN subset 5 <sup>th</sup> highest, 2,279 US measles deaths)	-- 133
155.	1942 --	Mar 16, <b>tornadoes</b> , McNairy, Chester, Henderson, Decatur, other counties, TN--	25
156.	1943 --	Mar 27, <b>USAAF C-47 explosion</b> , structural failure, crash, Oliver Springs TN--	11
157.	1943 --	May 05, NuRex Coal <b>Mine</b> explosion, LaFollette, TN	-- 10
158.	1943 --	June 05, <b>Army truck</b> crashes through bridge over railroad near Nashville, TN--	19
159.	1943 --	Oct 15, <b>plane crash</b> , American Airlines Flight #63, near Centerville, TN	--11-15
160.	1944 --	<b>cerebrospinal meningitis</b> , TN (2,812 US cerebrospinal meningitis deaths)	-- 81
161.	1944 --	<b>influenza</b> (TN subset, 17,320 US influenza deaths), esp. Jan-Apr, Dec	-- 663
162.	1944 --	<b>measles</b> , especially Jan-June (TN subset of 1,923 US measles deaths)	-- 68
163.	1944 --	<b>tuberculosis</b> (TN subset of 54,731 tuberculosis deaths nationwide)	--1,881
164.	1944 --	<b>whooping cough</b> (TN subset of 1,878 whooping cough deaths nationwide)	-- 61
165.	1944 --	Feb 10, <b>plane crash</b> , American Air Flight 2, Miss. River near Memphis, TN--	24

<sup>807</sup> Second highest state loss of life to typhoid fever in 1925 in US behind KY with 668 typhoid fever deaths.

<sup>808</sup> Cross-listed in TN and MS. Coahoma is ~16 mi so. of Memphis, TN. Most victims lived in TN, esp., Memphis.

**Tennessee (continued):**

166.	1944 -- May 29, <b>USAAF B-17G plane crash</b> , near Ridgely, TN	-- 10
167.	1944 -- July 06, <b>troop train derailment</b> , Jellico, TN	-- 35
168.	1945 -- Jan 24, <b>two USAAF B-17Fs in flight of five collide/crash</b> ~5M NE of Dyersburg, TN-16	
169.	1945 -- Apr 08, <b>USAAF B-17F</b> flies into mountain at night near Tellico Plains, TN --all 10	
170.	1946 -- Jun 12, <b>USAAF B29 plane crash</b> /fire, Collins Gap, ~Clingman's Dome, TN--	12
171.	1947 -- Dec 11, <b>USAF C-47 airport approach crash</b> near Memphis, TN	--all 20
172.	1949 -- Apr 24, <b>train</b> hits family <b>truck</b> at railroad crossing, 8M south of Carthage, TN--	10
173.	1950 -- <b>measles</b> , esp. children; 468 US measles deaths, TN subset (6 <sup>th</sup> highest)	-- 25
174.	1950 -- July 23, <b>USAF C46 with 31 TN NG</b> , loses aileron on takeoff, crashes, Myrtle Beach, SC <sup>809</sup> --	39
175.	1951 -- <b>diphtheria</b> ; 302 US deaths; 13 States in double digits; subset for TN	-- 10
176.	1951 -- <b>measles</b> , 688 US deaths; subset for TN	-- 18
177.	1951 -- <b>polio</b> , especially July-Nov (TN subset of 1,551-1,555 US polio deaths)	-- 35
178.	1951 -- <b>tuberculosis</b> , 31,163 US deaths, subset for TN, 8 <sup>th</sup> highest US state loss	--1,083
179.	1951 -- <b>whooping cough</b> ; 960 US deaths; subset for TN	-- 20
180.	1951 -- Jan 27-Feb 6, <b>cold-waves/winter storms/ice/sleet/snow</b> (175-200 US deaths) TN-	11
181.	1952 -- <b>influenza</b> ; 5,649 US deaths; subset for TN (9 <sup>th</sup> highest US state loss)	-- 223
182.	1952 -- <b>measles</b> , 621 US deaths; 24 states double digits; TN (tied with AL for 3 <sup>rd</sup> high)--	40
183.	1952 -- <b>tuberculosis</b> (respiratory); 22,700 US deaths; TN (7 <sup>th</sup> highest US state loss) --	828
184.	1952 -- <b>whooping cough</b> (pertussis); 406 US deaths; TN (5 <sup>th</sup> highest US state loss) --	20
185.	1952 -- Mar 21, <b>tornadoes</b> , Hardman, Chester, Henderson, Decatur, other counties --	72-75
186.	1953 -- <b>excessive natural heat</b> (code E931), 576 US heat deaths, esp. Aug 22-Sep 5--	18
187.	1953 -- <b>influenza</b> ; 9,500 US deaths; TN subset (6 <sup>th</sup> highest in the US)	-- 414
188.	1953 -- <b>measles</b> , 483 US deaths/23 States double digits; TN 13 <sup>th</sup> highest State	-- 15
189.	1953 -- <b>tuberculosis</b> (respiratory); 17,954 US deaths; TN subset (6 <sup>th</sup> high US state) --	642
190.	1953 -- <b>whooping cough</b> ; 271 US deaths, 11 States double digits; TN subset	-- 11
191.	1954 -- <b>excessive heat</b> (especially July), subset of 978-984 heat-related deaths; TN	-- 12
192.	1954 -- <b>dysentery</b> , infectious, all forms (codes 045-048), 655 US deaths; TN subset --	23
193.	1954 -- <b>influenza</b> , 2,696 US deaths, esp. TX/228 and AL/180; TN 6 <sup>th</sup> highest US loss--	120
194.	1954 -- <b>measles</b> ; 524 US deaths; 21 states double digits; TN subset	-- 11
195.	1954 -- <b>polio</b> , acute; 1,400 US deaths; TN	-- 30
196.	1954 -- <b>tuberculosis</b> (respiratory); 15,146 US deaths; TN had 7 <sup>th</sup> highest US state loss--	503
197.	1954 -- <b>whooping cough</b> /pertussis; 375 US deaths, 17 states double digits, TN subset--	12
198.	1955 -- <b>influenza</b> ; 2,755 US deaths; TN had 6 <sup>th</sup> highest US state loss of life	-- 136
199.	1955 -- <b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); TN subset	-- 10
200.	1955 -- <b>tuberculosis</b> (respiratory); 13,676 US TB deaths; TN subset (in top 10 states)--	469
201.	1955 -- <b>whooping cough</b> /pertussis, 476 US deaths/15 states in double digits; TN	-- 24
202.	1955 -- Aug 22, school <b>bus</b> hit by <b>train</b> , Spring City, TN	-- 11
203.	1956 -- <b>influenza</b> , 2,323 US deaths; TN had 7 <sup>th</sup> highest US state loss of life in 1956 --	96
204.	1956 -- <b>measles</b> , 530 US deaths/21 states in double digits; TN 10 <sup>th</sup> highest US state loss--	19
205.	1956 -- <b>tuberculosis</b> (respiratory), 12,978 US deaths; TN 9 <sup>th</sup> highest US state loss	-- 429
206.	1956 -- <b>whooping cough</b> /pertussis, 266 US deaths; 8 states double digit deaths, TN subset--	10
207.	1957 -- <b>influenza</b> ; 7,463 US deaths; TN subset (7 <sup>th</sup> highest US state loss of life)	-- 294
208.	1957 -- <b>measles</b> ; 389 US deaths; 15 states double digit deaths; TN subset	-- 14

<sup>809</sup> Cross-listed in TN in that the C-46 was taking at least 31 Nashville area TN Air National Guardsmen home.



**Tennessee (continued):**

209.	1957 --	tuberculosis	(respiratory); 12,384 US deaths; TN subset (8 <sup>th</sup> high US state)	--	430
210.	1957 --	fall-spring 1958, H2N2 Asian influenza/pneumonia	pandemic (US 116K)	--	1,351
211.	1958 --	influenza	; 4,442 US deaths; TN subset (4 <sup>th</sup> highest in the US)	--	230
212.	1958 --	measles	; 552 US deaths; 23 States in double digits, including TN	--	16
213.	1958 --	tuberculosis	; 12,361 US TB deaths; TN subset (9 <sup>th</sup> largest US State loss)	--	384
214.	1959 --	influenza	; 2,845 US deaths; TN subset (2 <sup>nd</sup> highest State death toll)	--	133
215.	1959 --	polio	(acute, as opposed to late effects of); 454 US deaths; TN subset	--	20
216.	1959 --	tuberculosis	; 11,456 US TB deaths; subset for TN	--	362
217.	1959 --	whooping cough	(pertussis); 269 US deaths, especially children; TN subset	--	10
218.	1959 --	Jan 08, Southeast Air 308	, flies into Mt. Holston, Tri-City AP approach, TN	--all	10
219.	1960 --	influenza	; 7,872 US deaths/death rate 4.4 per 100K; TN death rate 7.7	--	275
220.	1960 --	measles	, especially children; 380 US deaths; TN	--	13
221.	1960 --	tuberculosis	; 10,866 deaths/death rate 6.1 per 100K; TN death rate 10.0	--	357
222.	1960 --	Feb 12-15 snowstorms	, Gulf to East Coast & Northeast; 91-94 US deaths, TN	--	11
223.	1960 --	Oct 04, explosion	, Tenn. Eastman Chemical, Aniline plant, Kingsport, TN	--	15
224.	1961 --	influenza	; 2,137 US deaths/death rate 1.2 per 100K; TN death rate 2.2	--	80
225.	1961 --	scarlet fever	and streptococcal sore throat, 130 deaths, esp. CA/TN/TX (10)	--	10
226.	1961 --	tuberculosis	; 9,938 US deaths/death rate 5.4 per 100k; TN death rate 8.0	--	289
227.	1961 --	Mar 28, residential fire (lightning?)	, Alex Whitehead home, Dotsonville TN	--	12
228.	1962 --	influenza	; 3,431 US deaths/death rate 1.8 per 100K; TN death rate 5.0	--	183
229.	1962 --	measles	, 408 US deaths/death rate 0.2 per 100,000 population; TN rate 0.5	--	17
230.	1962 --	tuberculosis	; 9,508 US deaths/death rate 5.1 per 100K pop.; TN rate 8.4	--	305
231.	1963 --	influenza	; 7,083 US deaths/death rate 3.8; TN death rate 9.3	--	343
232.	1963 --	tuberculosis	; 9311 US deaths; death rate 4.9 per 100K; TN death rate 8.0	--	297
233.	1964 --	dysentery	; 283 US deaths; TN subset	--	10
234.	1964 --	influenza	; 1,687 US deaths/death rate 0.9; TN death rate 1.4	--	53
235.	1964 --	measles	; 421 US deaths/death rate 0.2; TN death rate 0.5	--	20
236.	1964 --	tuberculosis	; US deaths 8,303/death rate 4.3 per 100K; TN death rate 7.0	--	264
237.	1964 --	July 09, plane fire/crash	, United Airlines Flight 823, near Parrottsville, TN	--	39
238.	1965 --	influenza	; 2,295 US deaths/death rate 1.2 per 100K; TN death rate 1.8	--	69
239.	1965 --	tuberculosis	; 7,934 US deaths, death rate 4.1 per 100K; TN death rate 6.4	--	248
240.	1966 --	excessive natural heat	, subset of 613 US heat deaths, TN	--	20
241.	1966 --	measles	, 276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; TN	--	10
242.	1966 --	meningococcal infections	, 876 US deaths, esp. CA/109, TX/59, OH/50; TN	--	19
243.	1966 --	tuberculosis	; 7,625 US TB deaths; subset for TN	--	233
244.	1968 --	excessive natural cold	; ICD-8 code E901; subset of 494 of US cold deaths; TN	--	22
245.	1968 --	excessive natural heat	, ICD-8 code E900; subset of 231 US heat deaths; TN	--	11
246.	1968 --	influenza	, ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; TN 4.8	--	182
247.	1968 --	tuberculosis	; 6,292 US deaths/death rate 3.15 per 100K; TN death rate 4.70	--	180
248.	1968 --	Dec 01-Mar 8, A2 "Hong Kong" influenza-pneumonia	epidemic, 4 cities <sup>810</sup>	--	305
249.	1969 --	excessive natural cold	; ICD-8 code E901; 424 US deaths; TN	--	11
250.	1969 --	influenza	, ICD-8 codes 470-474; 5,971 deaths/death rate 2.96 per 100K; TN 4.8	--	186

<sup>810</sup> CDC MMWR 122 cities reporting included data only for Chattanooga, Knoxville, Memphis and Nashville. U.S. influenza epidemic death toll was 33,800.

**Tennessee (continued):**

251.	1969 --	tuberculosis; 5,567 US deaths/death rate 2.76 per 100K; TN death rate 4.20--	163
252.	1970 --	excessive natural cold; ICD-8 code E901; 466 US deaths; TN	-- 10
253.	1970 --	influenza; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; TN 4.5--	175
254.	1970 --	tuberculosis; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; TN 3.5--	137
255.	1970 --	Jan 08-11, cold wave, snow, icy roads, TN	--13-15
256.	1971 --	excessive natural cold; ICD-8 code E901; 361 US deaths; TN	-- 10
257.	1971 --	tuberculosis; 4,501 US TB deaths/death rate 2.18 per 100K; TN rate 3.49	-- 140
258.	1972 --	excessive natural cold, ICD-8 code E901, 490 US deaths; TN	-- 16
259.	1972 --	influenza, ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; TN 2.45--	100
260.	1972 --	tuberculosis; 4,376 US deaths, death rate 2.09 per 100K; TN death rate 3.72--	152
261.	1972 --	May 03, TN Air National Guard C124 crash 40M from Zanderij IAP, Suriname--	11
262.	1972 --	May 13, Greyhound bus/13 passing a car hits truck, US 11W, Bean Station, TN--	14
263.	1973 --	influenza; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; TN 3.09	-- 128
264.	1973 --	tuberculosis; 3,875 US deaths/death rate 1.84 per 100K; TN 2.85 per 100K	-- 118
265.	1974 --	influenza, ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; TN/1.8--	76
266.	1974 --	tuberculosis; 3,513 US TB deaths/death rate 1.65 per 100K; TN rate 2.63	-- 110
267.	1974 --	Apr 03, tornadoes, multiple counties, esp. Cookeville, Putnam, Co., TN	--44-50
268.	1975 --	influenza, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; TN/3.1--	133
269.	1975 --	tuberculosis; 3,333 US TB deaths/death rate 1.55 per 100K; TN, 2.72 <sup>811</sup>	-- 116
270.	1976 --	influenza; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; TN 3.7-	159
271.	1976 --	tuberculosis; 3,130 US TB deaths/death rate 1.44 per 100K; TN, 2.15	-- 93
272.	1977 --	cold/hypothermia, exposure to excessive natural; 634 US deaths; TN	-- 20
273.	1977 --	influenza; 1,305 US flu deaths/death rate 0.59 per 100K; TN, 0.91	-- 40
274.	1977 --	tuberculosis; 2,968 US TB deaths/death rate 1.35 per 100K; TN, 2.79	-- 123
275.	1977 --	June 26, fire, Maury County Jail, Columbia, TN	-- 42
276.	1978 --	exposure to excessive natural cold/hypothermia; 652 US deaths; TN	-- 18
277.	1978 --	tuberculosis, 2,914 US TB deaths/death rate 1.31 per 100K; TN, 1.66	-- 74
278.	1978 --	Feb 24, train derails Feb 22, LPG tank car leaks/explodes 24 <sup>th</sup> , Waverly, TN--	16
279.	1979 --	tuberculosis, 2,007 US TB deaths/death rate 0.89 per 100K; TN, 1.34	-- 61
280.	1980 --	tuberculosis; 1,978 US TB deaths/death rate 0.87 per 100K; TN, 1.35	-- 62
281.	1980 --	June-Aug (esp.), heat, esp. counties of Shelby, Hamilton, and Davidson	--172-192
282.	1981 --	exposure to excessive natural cold/hypothermia; 289 US deaths; TN	-- 13
283.	1981 --	influenza, 3,006 US flu deaths/death rate 1.31 per 100K, TN, 2.42	-- 112
284.	1981 --	tuberculosis; 1,937 US TB deaths/death rate 0.84 per 100K; TN, 1.30	-- 60
285.	1981 --	Dec 08, Grundy coal mine No. 21 methane gas explosion, Whitwell, TN	-- 13
286.	1982 --	exposure to excessive natural cold/hypothermia; 402 US deaths; TN	-- 17
287.	1982 --	influenza, 727 US flu deaths/death rate 0.31 per 100K, TN, 0.32	-- 15
288.	1982 --	tuberculosis, 1,807 US TB deaths/death rate 0.78 per 100K, TN, 1.40	-- 65
289.	1982 --	Jan 10-18, winter weather; especially extreme cold and snow storms, TN <sup>812</sup> -	6-13
290.	1983 --	exposure to excessive natural cold/hypothermia; 510 US deaths; TN	-- 15
291.	1983 --	tuberculosis, 1,779 US TB deaths/death rate 0.76 per 100K; TN, 1.03	-- 48

<sup>811</sup> Only the District of Columbia (at 3.80) and KY (at 2.74) had higher death rates.

<sup>812</sup> Includes one snow-sled hit by car accident, one indoors hypothermia death, two outdoor hypothermia deaths, one apparent hypothermia death preceded by a fall and trauma to the head, and one vehicular accident on icy road.

**Tennessee (continued):**

292.	1983 --	May 27, <b>explosion</b> , illegal fireworks factory, Webb's Bait Farm ~Benton, TN--	11
293.	1983 --	summer <b>heat</b> (esp. July 15-28), 15 Counties, TN (subset of 596 deaths)	-- 29
294.	1983 --	Dec 19-31, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	-- 10
295.	1984 --	exposure to excessive natural <b>cold/hypothermia</b> ; 359 US deaths; TN	-- 14
296.	1984 --	<b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, TN rate 0.49	-- 23
297.	1984 --	<b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; TN rate 0.98	-- 46
298.	1985 --	exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; TN	-- 18
299.	1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, TN, 1.02	-- 48
300.	1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; TN, 1.06	-- 50
301.	1985 --	Jan 20-23, <b>winter weather, exposure/hypothermia</b> , TN	--12-20
302.	1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: TN, 0.82	-- 39
303.	1986 --	<b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; TN, 1.20	-- 57
304.	1986 --	summer <b>excessive heat</b> , TN (subset of >400 U.S. heat-related fatalities)	-- 19
305.	1987 --	<b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, TN, 1.11	-- 53
306.	1988 --	exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; TN	-- 14
307.	1988 --	<b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K; TN, 1.24	-- 60
308.	1988 --	Mar 08, <b>US Army Blackhawks collide</b> mid-air, Fort Campbell, KY/TN <sup>813</sup>	-- 17
309.	1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; TN, 1.23	-- 60
310.	1989 --	Dec 24, <b>fire</b> , John Seiver Retirement Hotel, Johnson City, TN	-- 16
311.	1990 --	exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; TN	-- 11
312.	1990 --	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; TN, 0.90	-- 44
313.	1990 --	Dec 11, <b>fog</b> , multiple-vehicle <b>collisions</b> , I-75 near Calhoun, TN	-- 12
314.	1991 --	exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; TN	-- 12
315.	1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K; TN, 0.52	-- 26
316.	1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, TN, 0.80	-- 40
317.	1992 --	exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; TN	-- 10
318.	1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; TN, 1.03	-- 52
319.	1993 --	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; TN	-- 16
320.	1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; TN, 0.95	-- 49
321.	1993 --	Mar 12-13 Eastern Seaboard " <b>Superstorm of 1993</b> ," subset for TN	-- 15
322.	1993 --	summer esp., <b>excessive natural heat</b> (TN subset of 311 U.S. heat deaths)	-- 18
323.	1994 --	exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; TN	-- 16
324.	1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; TN, 0.55	-- 29
325.	1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; US death rate 0.56 per 100K, TN, 0.75	-- 39
326.	1995 --	<b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, TN, 0.263	-- 14
327.	1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths/death rate 0.5 per 100K; TN, 0.73	-- 39
328.	1995 --	summer esp., <b>heat</b> (TN subset of 1,563-1,601 U.S. heat-related deaths)	-- 13
329.	1996 --	exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; TN	-- 19
330.	1996 --	<b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; TN, 0.37	-- 20
331.	1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, TN, 0.85	-- 47
332.	1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; TN, 0.81	-- 45
333.	1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; TN, 0.54	-- 30

<sup>813</sup> The collision occurred over western KY-TN border, with one Blackhawk falling on KY side, the other in TN. Cross-listing in both KY and TN. The total number of deaths was 17 -- all on-board the two helicopters.

**Tennessee (continued):**

334.	1999 --	tuberculosis	, ICD-10 code A16-19, death rate 0.333 per 100K; TN, 0.408	--	23
335.	1999 --	summer esp., heat	, esp. July 21-Aug 1, (subset, 1,050 US heat deaths)	--	30
336.	2000 --	exposure to excessive natural cold/hypothermia	; 742 US deaths; TN	--	16
337.	2000 --	exposure to excessive natural heat	, 494 US deaths, subset for TN	--	12
338.	2000 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.627 per 100K; TN, 0.738	--	42
339.	2000 --	tuberculosis	, ICD-10 code A16-19; US death rate 0.276 per 100K; TN, 0.334	--	19
340.	2001 --	exposure to excessive natural cold/hypothermia	; 599 US deaths; TN	--	12
341.	2001 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.268 per 100K; TN, 0.365	--	21
342.	2002 --	exposure to excessive natural heat	, 626 US deaths, subset for TN	--	10
343.	2002 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.253 per 100K; TN, 0.29	--	17
344.	2002 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.273 per 100K; TN, 0.380	--	22
345.	2002 --	Nov 10, tornadoes	, esp. Coffee, Cumberland, Morgan, Montgomery counties	--	15
346.	2003 --	influenza	, ICD-10 code J09-11.8; US death rate 0.618 per 100K; TN, 1.094	--	64
347.	2003 --	tuberculosis	, ICD-10 code A16-19, death rate 0.25 per 100K; TN rate 0.38	--	22
348.	2003 --	May 04, tornadoes	, especially Denmark area, Madison County	--	11
349.	2003 --	Sep 25, fire	, National Healthcare Center Nursing Home, Nashville, TN	--	16
350.	2004 --	influenza	, ICD-10 code J09-11.8; US death rate 0.376 per 100K; TN, 0.643	--	38
351.	2004 --	tuberculosis	, ICD-10 code A16-19, death rate 0.22 per 100K; TN rate 0.25	--	15
352.	2005 --	exposure to excessive natural cold/hypothermia	; 700 US deaths; TN	--	10
353.	2005 --	influenza	, ICD-10 code J09-11.8; US death rate 0.613 per 100K; TN, 0.868	--	52
354.	2005 --	exposure to excessive natural heat	; 939 US deaths, subset for TN	--	14
355.	2006 --	exposure to excessive natural cold/hypothermia	; 519 US deaths; TN	--	10
356.	2006 --	exposure to excessive natural heat	; 1,104 US deaths, subset for TN	--	14
357.	2006 --	tuberculosis	, ICD-10 code A16-19, death rate 0.22 per 100K; TN, 0.30	--	18
358.	2006 --	Apr 02, tornadoes	, northwestern Tennessee, Dyer and Gibson Counties	--	24
359.	2007 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.14 per 100K; TN, 0.21	--	13
360.	2007 --	tuberculosis	, death rate 0.184 per 100K; TN, 0.389	--	24
361.	2007 --	excessive natural heat	, esp. Aug 5-25, esp. Shelby County (14), TN	--	24
362.	2008 --	exposure to excessive natural cold/hypothermia	; 641 US deaths; TN	--	10
363.	2008 --	exposure to excessive natural heat	; 502 US deaths, subset for TN	--	12
364.	2008 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.57 per 100K; TN, 0.66	--	41
365.	2008 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.19 per 100K; TN, 0.22	--	14
366.	2008 --	Feb 5-6, tornadoes	, Fayette/Hardin/Macon/Madison/Shelby/Sumner/Trousdale Co's. <sup>814</sup>	--	36-37
367.	2009 --	exposure to excessive natural cold/hypothermia	; 616 US deaths; TN	--	11
368.	2009 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.9 per 100K; TN 1.1	--	70
369.	2009 --	exposure to excessive natural heat	; 555 US deaths, subset for TN	--	16
370.	2009 --	H1N1 swine flu	, especially fall/winter, (subset of >12,000 U.S. deaths)	--	57
371.	2010 --	exposure to excessive natural cold/hypothermia	; 710 US deaths; TN	--	24
372.	2010 --	influenza	, ICD-10 codes J09-J11.8; <sup>815</sup> US death rate 0.2 per 100K; TN, 0.3	--	20
373.	2010 --	viral hepatitis	, ICD-10 code B15-19; US death rate 2.4 per 100K; TN, 3.7	--	235
374.	2010 --	May 01-02, severe storms, flooding	, tornadoes, esp. Davidson Co., TN <sup>816</sup>	--	23-25

<sup>814</sup> The range has to do with one NWS source noting seven deaths in Sumner County, TN, and another noting eight.

<sup>815</sup> 500 US Flu deaths. ICD-10 code for 2010 influenza/pneumonia (J09-J18) has 50,097 deaths (death rate of 16.2).

<sup>816</sup> Twenty-two flood-related deaths and one tornado-related death.



**Tennessee (continued):**

375.	2010 --	June-Aug especially, <b>excessive natural heat</b> , especially Shelby County, TN--	45
376.	2011 --	exposure to excessive natural <b>cold/hypothermia</b> ; 0.216 death rate; TN, 0.187--	12
377.	2011 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; TN 1.1--	69
378.	2011 --	exposure to <b>excessive natural heat</b> , 1,060 US deaths, subset for TN	-- 20
379.	2011 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; TN, 0.6 --	36
380.	2011 --	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; TN, 4.4 --	281
381.	2011 --	Apr 27, <b>tornadoes</b> , esp. Counties of Bradley, Greene, Hamilton, Bledsoe, TN	-- 34
382.	2012 --	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K; TN 1.0--	66
383.	2012 --	exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for TN	-- 25
384.	2012 --	<b>fungal meningitis due to tainted steroid injections</b> , TN	-- 16
385.	2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100K; TN, 4.2 --	270
386.	2013 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, TN 1.1--	69
387.	2013 --	exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; TN	-- 13
388.	2013 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100K; TN, 3.8 --	246
389.	2013 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.2 per 100,000; TN rate 1.4 --	92
390.	2014 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, TN 0.9--	56
391.	2014 --	exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; TN	-- 32
392.	2014 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.4 per 100,000; TN, 2.4 --	159
393.	2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; TN, 3.7 --	239
394.	2015 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, TN 0.9--	61
395.	2015 --	exposure to excessive natural <b>cold/hypothermia</b> , 815 US deaths; TN	-- 21
396.	2015 --	exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for TN	-- 24
397.	2015 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100,000; TN, 1.8 --	118
398.	2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; TN, 3.6 --	236
399.	2016 --	<b>diarrhoea/gastroenteritis</b> , infectious origin, US death rate 0.7 per 100K, TN 1.0--	65
400.	2016 --	exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; TN	-- 11
401.	2016 --	exposure to <b>excessive natural heat</b> , 786 US deaths, subset for TN	-- 20
402.	2016 --	<b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.0 per 100K; TN, 3.2 --	214
403.	2016 --	Nov 28, <b>Chimney Tops 2 arson wildfire</b> hits Gatlinburg, Sevier County, TN--	14
404.	2017 --	exposure to excessive natural <b>cold/hypothermia</b> ; 804 US deaths subset, TN--	24
405.	2017 --	exposure to <b>excessive natural heat</b> ; 817 US deaths, subset for TN	-- 15
406.	2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; TN death rate 2.07 --	139
407.	2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; TN rate 2.07 --	139
408.	2018 --	exposure to excessive natural <b>cold/hypothermia</b> ; subset of 1,028 US deaths--	30
409.	2018 --	exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for TN	-- 20
410.	2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; TN death rate 1.74 --	118
411.	2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., TN rate 4.18 --	283
412.	2019 --	exposure to excessive natural <b>cold/hypothermia</b> ; subset of 1,115 US deaths--	21
413.	2019 --	<b>exposure to excessive natural heat deaths</b> ; 915 US deaths; subset for TN	-- 14
414.	2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; TN rate 1.7--	116
415.	2019 --	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, TN rate 2.36--	161
416.	2020 --	<b>Covid-19</b> ; 354,215 US Covid deaths (1,070 per 1M); TN 1,011 per 1M pop.--	6,907
417.	2020 --	<b>excessive heat</b> , natural sources; 1,184 US deaths; subset for TN	-- 12
418.	2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; TN rate 1.83 --	126

419.	2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; TN death rate 2.58	--	178
420.	2020 --	Mar 02 (late)-3 <sup>rd</sup> (early), <b>tornadoes</b> , Central TN, esp. Putnam County/19, TN--		24
421.	2021 --	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; TN, 3K per 1M --		13,973
422.	2021 --	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; TN set--		23
423.	2021 --	exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for TN	--	18
424.	2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; TN death rate 1.79	--	125
425.	2021 --	<b>influenza</b> ; 608 US deaths/death rate 0.18; TN death rate 0.60	--	42
426.	2021 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 602 US deaths/death rate 0.18; TN 0.20--		18
427.	2021 --	Feb 13-19, <b>winter storms and cold wave</b> , U.S. $\geq$ 135, TN	--	10
428.	2021 --	Aug 21; 15-17 inch rain/24-hrs., flooding, Humphreys County/Waverly, TN--		20
429.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; TN death rate 11.22	--	7,665
430.	2022 --	exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for TN	--	46
431.	2023 --	exposure to <b>excessive natural heat</b> ; 2,155 US deaths, subset for TN	--	18
432.	2023 --	Mar 31, <b>tornadoes</b> ; deaths in McNairy/9 and Tipton/1 counties, Memphis/3	--	15
433.	2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	1,637
434.	2024 --	Jan 15-22, <b>winter storms/cold</b> , esp. Shelby Co. (15) and Knox County (9)	--	36

#### Some Select/Notable Other **Tennessee** Large Loss-of-Life Events:<sup>817</sup>

1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571--	174
1850 --	<b>scarlet fever</b> ; subset 9,584 such deaths 36 States/Territories/DC (avg. 266)	-- 172
1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Territory), TN--	33
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65, TN--	61
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931), TN --	879
1870 --	<b>diphtheria</b> ; subset of 6,303 US diphtheria deaths, TN	-- 96
1870 --	<b>scarlet fever</b> (TN subset of 20,339 scarlet fever deaths nationwide)	-- 29
1870 --	<b>typhus</b> (TN subset of 1,770 typhus deaths nationwide)	-- 36
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (TN subset, 16,388 U.S. S.F. deaths)	-- 80
1881 --	<b>diphtheria</b> , especially Memphis (27) and Nashville (9)	-- 37
1885 --	<b>diphtheria and croup</b> , especially children, Nashville, TN	-- 47
1887 --	July 12, <b>lightning</b> , people seeking shelter under a tree, ~Mt. Pleasant, TN	-- 9
1888 --	Aug 09, <b>fire</b> , wall collapse, Caldwell & Griffith block, Chattanooga, TN	-- 5-7
1889 --	June 1-May 31, 1890, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; TN	-- 169
1890 --	Jan-Feb, <b>influenza</b> (La Grippe/Russian Flu), esp. Chattanooga, Nashville, TN	-- 186
1894 --	<b>diphtheria</b> , TN subset of $\geq$ 14,606 US diphtheria deaths	-- 27
1897 --	<b>typhoid fever</b> , subset of $\geq$ 9,192 US typhoid deaths; Nashville/41, Memphis/32	-- 95
1897 --	July 02-10, <b>heat</b> (608-616 US Heat deaths), Chattanooga, Memphis, Nashville	-- 9
1898 --	<b>typhoid fever</b> (TN subset of >4,627 deaths), esp. 2 <sup>nd</sup> , 3 <sup>rd</sup> , 6 <sup>th</sup> TN Vol. Infantry <sup>818</sup>	-- 72
1900 --	<b>diphtheria</b> (TN subset of 16,475 US diphtheria deaths in 1900)	-- 198
1900 --	<b>scarlet fever</b> (TN subset, 6,333 US scarlet fever deaths)	-- 37
1900 --	<b>smallpox</b> (TN subset, 8,484 US smallpox deaths)	-- 94
1900 --	summer <b>heat</b> ; excessive natural heat exposure, coded "sunstroke" in Census doc.	-- 9

<sup>817</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>818</sup> At least 51 soldiers died of Typhoid in TN, especially Camp Poland at Knoxville and at Chattanooga. Twenty-one men of the three Tennessee Volunteer Infantry regiments died of typhoid mostly at various military camps.

**Tennessee (continued):**

1901 --	<b>smallpox</b> , Memphis	--	10
1907 --	<b>tuberculosis</b> ; 76,650 US deaths; subset for Memphis (235) and Nashville (264)	--	499
1907 --	<b>typhoid fever</b> , Memphis and Nashville, TN; subset of ~13,000 US deaths	--	145
1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5 <sup>819</sup>	--	102
1913 --	Sep 01, Labor Day race <b>wreck</b> , State Fair Grounds Nashville, TN	--	4
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; 5 city TN rate 10.8	--	40
1919 --	<b>diphtheria</b> (TN subset, 9,160 US diphtheria deaths)	--	21
1920 --	<b>scarlet fever</b> (TN subset of 4,004 scarlet fever deaths in 34 registration states)	--	53
1920 --	<b>smallpox</b> (TN subset of 508 smallpox deaths reported in 34 registration states)	--	12
1921 --	<b>polio</b> (Acute) esp. late summer-fall (TN subset, 1,597 U.S. polio deaths)	--	30
1922 --	June 27, Holston marble <b>quarry</b> explosion, Strawberry plains ~Knoxville, TN	--	9
1925 --	<b>polio</b> (TN subset, 1,518 US polio deaths)	--	35
1925 --	<b>scarlet fever</b> (TN subset of 2,762 US scarlet fever deaths, 48 states)	--	34
1927 --	<b>polio</b> (Acute) esp. late Summer and Fall (TN subset, 2,013 U.S. polio deaths)	--	39
1930 --	Apr 27, <b>plane buzzes spectators, crashes</b> at Air Show near Fayetteville, TN	--	9
1931 --	<b>polio</b> , esp. July-Oct, (TN subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	22
1937 --	Oct 12-Oct 24, <b>Elixir Sulfanilamide medicine unintentional poisoning</b> , TN	--	6
1939 --	summer, <b>excessive natural heat</b> (subset of 527-1,073 heat deaths nationwide)	--	6
1940 --	Aug 13-14, remnant rain/ <b>flash floods/slides/debris flows</b> , mts of NC/34 TN/4 VA/5	--	5
1946 --	<b>polio</b> , July-Nov especially; subset of 1,845 U.S. polio deaths)	--	18
1948 --	<b>polio</b> , July-Nov especially; 1,895 US polio deaths; subset for TN	--	31
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	--	33
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths, TN	--	34
1950 --	Feb 13, <b>tornado</b> , Hurricane Hill community, Lauderdale County	--	9
1950 --	Sep 01, <b>USAF C-119 Flying Boxcar crash</b> 7 miles NW of Parsons, TN	--	7
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for TN	--	29
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths, TN	--	30
1952 --	<b>typhoid fever</b> (code 040); 79 US deaths; subset for TN	--	5
1953 --	<b>polio</b> , especially children (TN subset of 1,450 polio deaths nationwide)	--	19
1962 --	Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	--	5-7
1963 --	<b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; TN death rate 0.2	--	7
1963 --	Jan 23-29, <b>cold waves and snow, ice</b> (TN subset of 315-352 US deaths)	--	6-8
1965 --	June 08, <b>lightning</b> hits farmer's dwelling, <b>fire</b> starts; children die, Jackson, TN	--	6
1965 --	July 24, heavy rain and flash <b>flooding</b> , Northeast TN, especially Clinchmore, TN	--	7
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for TN	--	78
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; TN 0.70--	28	
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; TN death rate 1.50	--	67
1979 --	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; TN death rate 0.24	--	11
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, TN, 0.78	--	36
1982 --	Aug 31, <b>USAF C-141 transport plane crash</b> , John's Knob, Cherokee Nat., TN	--	9
1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, TN, 0.43	--	20
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; TN, 1.42	--	68

<sup>819</sup> Census data in 1910 from TN was available only for three cities: Knoxville with 12 deaths, Memphis with 36 and death rate of 27.4, and Nashville with 54 and a death rate of 48.9.

**Tennessee (continued):**

1987 -- Dec 19, <b>trampling</b> , Municipal Auditorium, Nashville, TN	--	2
1987 -- summer <b>excessive heat</b> , State substate of approximately 388 U.S. heat deaths	--	7
1988 -- <b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; TN, 2.18	--	105
1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; TN, 0.58	--	28
1988 -- summer, exposure to <b>excessive natural heat</b> , TN	--	8
1988 -- Dec 23, propane <b>tanker</b> hits wall <b>explodes</b> ; parts hit house, cars, Memphis TN	--	9
1989 -- <b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; TN, 2.90	--	141
1989 -- <b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; TN, 0.37	--	18
1989 -- Apr 01, Hatchie River <b>Bridge collapse</b> , near Covington, TN	--	8
1990 -- <b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; TN, 0.80	--	39
1992 -- <b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, TN, 0.28	--	14
1993 -- <b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; TN, 0.25	--	13
1994 -- Jan 14-21, <b>extreme winter cold and snow</b> (TN subset of 78-110 US deaths)	--	7
1996 -- <b>tuberculosis</b> , 1,202 US TB deaths; death rate 0.45 per 100K; TN, 0.42	--	23
1996 -- Jan 29, <b>USN Tomcat unauthorized vertical climb, lost control/crashed</b> into houses, Nashville TN	--	5
1997 -- <b>influenza</b> , code 487.0; US death rate 0.264 per 100K (720 US deaths); TN, 0.236	--	13
1999 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; TN, 0.532	--	30
2005 -- <b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.22 per 100K; TN, 0.17	--	10
2006 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; TN, 0.279	--	17
2006 -- Mar 11, <b>fire</b> , two-story home, Evensville, Rhea County, TN	--	9
2009 -- <b>influenza</b> (avian), ICD-10 code J09 (US death rate 0.5 per 100K); TN rate 0.3	--	22
2010 -- <b>diarrhoea/gastroenteritis</b> of infectious origin, US & TN death rate 0.9 per 100K	--	54
2010 -- <b>tuberculosis</b> , ICD-10 codes A16-A19, US death rate 0.2 per 100K; TN, 0.2	--	14
2012 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; TN, 0.4	--	28
2012 -- <b>tuberculosis</b> , ICD-10 code A16-A19; US and TN death rate was 0.2 per 100,000	--	12
2013 -- Oct 02, church <b>bus</b> tire blowout, crash into SUV and tractor-trailer, I-40 eastern TN	--	8
2015 -- Dec 23, <b>tornado</b> fatalities, Maury (3), Perry (2) and Rhea (1) Counties	--	6
2016 -- <b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; TN, 1.7	--	112
2016 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.9 per 100,000; TN had 0.9	--	57
2016 -- <b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.2 per 100,000, TN, 0.2	--	13
2016 -- Nov 21, Woodmore Elementary school <b>bus</b> crash, Brainerd ~Chattanooga, TN	--	5
2018 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; TN subset	--	13
2020 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; TN subset	--	10
2020 -- May 29, JL&GL Prod. <b>Cessna Citation takeoff crash</b> , Lake Percy Priest, Smyrna AP, TN	--	7
2023 -- Mar 27, <b>shooting</b> , The Covenant Church elementary school, Nashville, TN	--	6

**Breakout by Type of Tennessee Large Loss-of-Life Events (10 or more fatalities):**

- 250 -- **Disease**, especially communicable, especially epidemics. (Plus 71 in "Other.")
- 44 -- **Winter Weather, Cold, Hypothermia**. (Plus 3 events 5-8 deaths each.)
- 33 -- **Heat**. (Plus 5 years 6-9 deaths.)
- 24 -- **Tornadoes**. (Plus 2 noted <10 deaths: one with 9 in 1950, one with six in 2015.)
- 19 -- **Maritime/In-Land Water Craft**
- 13 -- **Aviation** (July 23, 1950 crash was in SC, but killed 31 TN ANG; plus 5 events with 5-9 deaths.)



**Tennessee (continued):**

- 10 -- **Mining**. (Plus 1 event <10 deaths: 9 in 1922.)
- 9 -- **Rail** – 3 cross-listed in explosions, one in structural failure (bridge), one with road.
- 7 -- **Explosions** – four are rail-related and thus cross-listed under “Rail.”<sup>820</sup>
- 6 -- **Fire-Structural** (Plus three – one with 9 death, one with 5-7, one with 6.)
- 5 -- **Flooding** (Plus 2 events 4 deaths in 1940 and 7 in 7-24-1965 flash flood.)
- 5 -- **Vehicular** -- road/highway. (Plus 3: 9 deaths in 1988, 8 in 2013, one with 5 in 2016.)
- 3 -- **Structural Failure**. (1 cross-listed under rail, in that it was a trestle failure under train.)
- 2 -- **Violence** (Plus one with 6 deaths in 2023.)
- 1 -- **Earthquake**.
- 1 -- **Wildfire**.
- 1 -- **Tampered/Tainted Medication**
- 0 -- **Lightning**. (9 died in 1887, lightning hit tree where people sought shelter; 6 in 1965.)
- 0 -- **Poisoning (unintentional)** Six deaths in 1937 from Elixir Sulfanilamide med. poisoning.

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<sup>820</sup> July 6, 1897 boiler explosion caused nine immediate deaths. Reported that 2-3 injured were expected to die.

## TX

## Texas

1. 1527 -- Nov, **hurricane**, Matagorda Bay, TX -- 200
2. 1553 -- **hurricane**, lower coast of TX --1,700
3. 1554 -- April, **hurricane**, today's Brownsville, TX --50-100
4. 1818 -- Sep 12-13, **hurricane**, Galveston Island and ships in the area (14 lost), TX --<1,000
5. 1833 -- May 16-Aug 13 (esp.), **cholera**, esp. Wheeling/153, Kanawha Salines/74, TX -- ≥268
6. 1834 -- July-Aug, **cholera**, especially Goliad (91), TX -- ≥94
7. 1835 -- Sep 18, **hurricane**, Corpus Christi, TX -- 14
8. 1836 -- Feb 23-Mar 06, fall of the **Alamo**, Texans Revolt from Mexico, TX -- 257
9. 1836 -- Mar 27, Mexican Pres. Santa Anna orders **execution of TX prisoners**, Goliad, TX--342
10. 1838 -- Oct 08, **massacre** of Surveying Party near Dawson, Navarro County, TX -- 18
11. 1839 -- Sep 30-Oct 11, **yellow fever** epidemic, esp. Galveston (250), also Houston, TX-- 255
12. 1840 -- Mar 19, Council House Fight, **peace party Comanches** (35), San Antonio, TX-- 42
13. 1840 -- Mar, Retaliation for Council House Comanche peace envoy deaths; **prisoners killed**-- 13
14. 1840 -- Aug 6-7, Council House Retaliation; **Comanches raid Victoria & vicinity**, TX-15-23
15. 1840 -- Aug 12, **Battle**, TX militia catch-up with Comanche raiders; attack ~Plum Creek TX-25-40
16. 1840 -- Oct 24, TX volunteers **ambush** Comanche camp, Red Fork Col. River, TX --110-140
17. 1843 -- Sep 25, steamer **Sarah Barnes** sinks in Gulf, gale, west of Sabine Pass, TX --17-18
18. 1844 -- July 05, beginning, **yellow fever** epidemic, Galveston, TX -- 400
19. 1844 -- Aug 06, **hurricane**, today's Brownsville, TX area, esp. Brazos Santiago, TX -- 70
20. 1846 -- Oct 12, steamer **Colonel Harney** strands, breaks up, mouth of Rio Grande, TX-- 15
21. 1847 -- Oct 01-Nov 26, **yellow fever** epidemic, Galveston, also Houston, Matamoras-- 206
22. 1848 -- Dec 20-Jan 2, **cholera**, Port Lavaca, TX -- 127
23. 1849 -- **cholera**, esp. San Antonio, also Brownsville, Port Isabel, Port Lavaca, etc. --1,274-1,365
24. 1850 -- spring, **cholera** outbreak (18 on Coffee Plantation vicinity, Brazos River), TX-- 78
25. 1852 -- Nov-Dec, **cholera** outbreak, esp. Polk County, TX --55-67
26. 1853 -- Mar 23, steamer **Farmer** boiler explosion, was racing, Galveston Bay, TX --32-36
27. 1853 -- Aug 16-Dec 23, **yellow fever** epidemic, especially Galveston/536-608 TX<sup>821</sup> -- 871
28. 1854 -- Aug 09-Nov 05, **yellow fever** epidemic, Galveston, TX -- 404
29. 1854 -- Sep 17/18, **hurricane**, steamer **Kate Ward** lost, Matagorda Bay, TX -- 14
30. 1856 -- Aug 08-10, steamer **Nautilus** founders, Hurricane off TX Coast<sup>822</sup> --20-30
31. 1857 -- May 31, steamboat **Louisiana** burns, off Galveston, TX --35-66
32. 1858 -- summer-fall, **yellow fever** outbreak, Brownsville, Galveston, Indianola, TX -- 685
33. 1859 -- **yellow fever** outbreak, esp. Galveston/186, Houston/22 and Edinburgh/13, TX-- 246
34. 1860 -- **measles** (subset of 3,900 measles deaths nationwide), TX -- 135
35. 1860 -- **typhoid fever** (subset, 19,236 deaths, 38 "registration" States and DC; TX -- 702
36. 1862 -- Aug 10, Rebel cav. **attacks** fleeing Germans, Nueces Riv., Kenney Co., TX<sup>823</sup> -- 9-28
37. 1862 -- Fall esp., **yellow fever**, esp. Matagorda/120, Sabine/150, Confederate troops -- ≥328
38. 1864 -- **yellow fever** outbreak, Galveston, TX -- 259
39. 1866 -- July 22-Sep, **cholera**, esp. San Antonio (500), Brownsville (65) Galveston (24)--≥722
40. 1867 -- July-Dec, **yellow fever**, multiple locations, especially Galveston/Houston, TX--5,713

<sup>821</sup> Also Brownsville, Cincinnati, Cypress City, Houston, Indianola, Lavaca, Liverpool, Richmond, and elsewhere.

<sup>822</sup> Cross-listed in Hurricane. Francaviglia (*From Sail to Steam...Texas Maritime History*, 1998, 175) dates the loss at Aug 8 off the coast of Texas. Other accounts have it off the Louisiana coast.

<sup>823</sup> The range is meant to distinguish between execution of nine captured wounded and 19 others killed in the attack.

## Texas (continued):

41. 1867 -- Oct 1-3 or 7-8, **hurricane**, east TX Coast, esp. Brownsville & Matamoros -->25-100  
 42. 1868 -- July 15 time-frame, **White vs. Black conflict**, Millican, Brazos Co., TX -- 6-15  
 43. 1869 -- Feb 12, steamer **Mittie Stephens** fire, Caddo Lake ~Swanson's Landing, TX --61-69  
 44. 1870 -- **diarrhoea** (399), **dysentery** (93), **enteritis** (199); U.S. Census data -- 631  
 45. 1870 -- **measles** (TX subset of 9,237 measles deaths nationwide) -- 368  
 46. 1870 -- **smallpox** (State subset of 4,597 smallpox deaths nationwide) -- 125  
 47. 1871 -- Oct 03-05, **hurricane**, TX Coast, steamer **C. K. Hall** lost off Cedar Point, TX -- >15  
 48. 1873 -- Feb 15, steamer **Henry A. Jones** burns, Galveston, TX -- 21  
 49. 1873 -- **yellow fever**, Calvert (125), Columbus (101), Marshall (36), Galveston, TX -- 265  
 50. 1873 -- Sep 20-Oct 10, **cholera epidemic**, Denison, Grayson County, TX -- 81  
 51. 1875 -- Sep 15-18, **hurricane**, Sabine Pass to Matagorda Bay, esp. Indianola, TX -- ≥270  
 52. 1875 -- Nov 09, steamship **City of Waco** burns off Galveston Bar, TX --49-70  
 53. 1879 -- **smallpox**, San Antonio, TX -- 125  
 54. 1879 -- June-May 1880, **croup**, esp. Oct-Dec, esp. children (17,966 US croup deaths) -- 641  
 55. 1879 -- June-May 1880, **malarial fever**, (TX subset, 20,231 such deaths U.S.) -- 889  
 56. 1879 -- June-May 1880, **measles**, esp. children (TX subset, 8,254 US measles deaths) -- 261  
 57. 1879 -- June-May 1880, **smallpox** (TX subset, ~1,270 US smallpox deaths)<sup>824</sup> -- 517  
 58. 1879 -- June-May 1880, **typhoid fever** (TX subset of 23,339 U.S. Typhoid deaths) --1,081  
 59. 1879 -- June-May 1880, **whooping cough** (TX subset, 11,064 U.S. W.C. deaths) -- 584  
 60. 1880 -- May 28, **tornado**, Fannin County, TX -- 40  
 61. 1881 -- Jan-Apr, **smallpox**, Brownsville (65), also Austin (2, Dec 18-24), TX -- 67  
 62. 1882 -- Aug 23-24, **flooding**, Concho Rivers, Ben Ficklin & vicinity, TX --65->100  
 63. 1883 -- **smallpox**, San Antonio (7) Dennison (1), Galveston (2), cases elsewhere -- ≥10  
 64. 1883 -- Apr 07, **structural failure** and **fire**, Ende Hotel, Greenville, TX --13-15  
 65. 1884 -- Nov 13, **sabotage**, **Houston & TX Central train derails**, ~Hempstead, TX -- 9-12  
 66. 1886 -- Aug 19-20, **tropical cyclone**, TX, especially Indianola, TX -- 38  
 67. 1886 -- Oct 12-13, **east Texas hurricane**, TX -- 150  
 68. 1886 -- Dec 31, **trains collide**/fire, Southern Pacific Railroad, ~Devil's River, TX -- ~10  
 69. 1887 -- Sep 21, **hurricane**, mid-TX coast to Brownsville, US tender **Mignonette** lost/16-- 16  
 70. 1888 -- June 4, **fire**, Mundine Hotel, Rockdale, TX -- 11  
 71. 1889-90 -- June-May, **croup**, subset of 13,862 U.S. croup deaths, TX -- 463  
 72. 1889-90 -- June-May, **measles**, subset of 9,256 US measles deaths, TX -- 468  
 73. 1889-90 -- June-May, **smallpox**, subset of 398 US smallpox deaths, TX -- 88  
 74. 1889-90 -- June-May, **typhoid fever**, subset of 27,058 US typhoid deaths, TX --1,072  
 75. 1892 -- May 31, **tornado**, Bell and Falls Counties, TX -- 10  
 76. 1893 -- Apr 28, **tornado**, Eastland County, TX -- 23  
 77. 1894 -- Mar 18, **tornadoes** (2), Harrison and Nacogdoches Counties, TX --10-16  
 78. 1896 -- May 15, **tornado**, Sherman, (Denton and Grayson Counties) TX -- 73  
 79. 1897 -- Sep 13, **hurricane**, SE TX, especially Port Arthur and Sabine Pass, TX --10-13  
 80. 1899 -- Feb 1-15 especially, **cold waves, snow, wind, exposure** deaths -- 15  
 81. 1899 -- May, **flood**, Brazos River, Central and East TX -- 40  
 82. 1899 -- June 17-July 6, Central/So. Central TX rain/**flooding**, esp. Brazos Riv., TX --100-284  
 83. 1900 -- **croup** (upper airway contagious viral infection; TX subset, 12,484 US croup deaths)-- 649

<sup>824</sup> There is overlap here with the calendar year 1879 report of 125 smallpox deaths in San Antonio.

**Texas (continued):**

84.	1900	--	<b>diphtheria</b> (TX subset of 16,475 US diphtheria deaths in 1900)	--	345
85.	1900	--	<b>dysentery</b> (subset, 11,710 US dysentery deaths; 2 <sup>nd</sup> highest loss of life by state)	--	794
86.	1900	--	<b>influenza</b> (subset, 16,645 US influenza deaths)	--	397
87.	1900	--	<b>malarial fever</b> (14,874 US malarial fever deaths; 2 <sup>nd</sup> highest loss by a state)	--	1,331
88.	1900	--	<b>measles</b> (12,866 US measles deaths; TX had largest US measles loss in 1900)	--	1,412
89.	1900	--	<b>meningitis</b> (subset, 19,423 US meningitis deaths)	--	523
90.	1900	--	<b>scarlet fever</b> ; subset, 6,333 US scarlet fever deaths; 3 <sup>rd</sup> largest loss by a state	--	707
91.	1900	--	<b>smallpox</b> (subset, 8,484 US smallpox deaths)	--	146
92.	1900	--	<b>tuberculosis</b> (34,169 TX deaths all causes) (109,750 US TB deaths)	--	2,951
93.	1900	--	<b>typhoid fever</b> (TX subset of 35,379 typhoid fever deaths nationwide)	--	2,013
94.	1900	--	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths; 3 <sup>rd</sup> highest in US)	--	565
95.	1900	--	Apr 07, heavy rain, Austin (McDonald) <b>dam failure/flooding</b> , Austin, TX	--	≥24
96.	1900	--	exposure to <b>excessive natural heat</b> , coded "sunstroke" in Census document	--	35
97.	1900	--	Sep 09, <b>hurricane</b> , Galveston and southeast coastal area, TX	--	7,200-12,000
98.	1901	--	Sep 25, cloudburst, flash <b>flood</b> , Prospectors Drown, Presidio County, TX	--	13
99.	1902	--	Mar 07, passenger <b>train derails</b> (broken rail), burns, ~Maxon Station, TX	--	15
100.	1902	--	May 18, <b>tornado</b> outbreak, esp. Goliad, TX	--	118
101.	1903	--	July 02, cloudburst/ <b>flooding</b> , Beeville, Mineral City, Normanna, Pettus, TX	--	11-14
102.	1905	--	<b>tuberculosis</b> , San Antonio subset, 56,770 Census deaths (10 states/135 cities) <sup>825</sup>	--	387
103.	1905	--	April 29, <b>severe storm</b> or <b>tornado</b> , Laredo, TX	--	16
104.	1905	--	July 05, <b>tornado</b> , Montague Country, TX	--	18
105.	1906	--	Apr 26, <b>tornado</b> , Clay and Montague Counties, TX	--	17
106.	1907	--	May 25, <b>tornadoes</b> (3), Mason, San Saba, Van Zandt, Rains Counties, TX	--	12
107.	1909	--	Mar 23, <b>tornado</b> , Denton, TX	--	10
108.	1909	--	May 30, <b>tornado</b> , Brown County, TX	--	34
109.	1909	--	June 10, <b>tornadoes</b> , Jones and Haskell Counties, TX	--	10
110.	1909	--	June 11, <b>wind storm</b> , Haskell, Lueders, Sweetwater, Wichita Falls, TX	--	11-12
111.	1909	--	July 21, <b>hurricane</b> , Velasco/Freeport, Brazoria Co., TX landfall; also LA/2	--	40-42
112.	1910	--	Jan-Feb especially, <b>smallpox</b> , especially Bee and Denton Counties, TX	--	67
113.	1910	--	July 29-30, <b>racial rioting</b> , Whites attack Blacks, Slocum, TX and vicinity	--	18-28
114.	1911	--	Oct-Jun 1, 1912, <b>meningitis</b> epidemic, especially Dallas, Ft. Worth, Waco, TX	--	393
115.	1911	--	<b>smallpox</b> , especially El Paso County (25), TX	--	51
116.	1911	--	Feb 8, <b>engine boiler explos.</b> , MO, KS & TX <b>Rail Roundhouse</b> , Smithville TX	--	12
117.	1912	--	<b>smallpox</b> , multiple locations, especially Tarrant County (≥59), TX	--	126-128
118.	1912	--	Jan 06-13 especially, <b>cold wave and snow storms</b> (subset of 228 US deaths)	--	10
119.	1912	--	Mar 18, <b>train engine boiler explosion</b> , So. Pacific Yard, San Antonio TX	--	36
120.	1913	--	Dec 2-10, Texas <b>floods</b> , Brazos, Other Valleys, Cent., East, Coast TX	--	177-190
121.	1915	--	Apr 23, flash <b>flood</b> , Austin, TX	--	35
122.	1915	--	Aug 16-17, <b>hurricane</b> , SE Coast, Islands, Mainland, Maritime, TX	--	356-402
123.	1916	--	<b>diphtheria</b> , especially children, TX	--	306
124.	1916	--	<b>polio</b> , especially children, Statewide, TX	--	35
125.	1916	--	Feb 16, <b>gas explosion</b> , Opera House collapses on Hitt Restaurant, Mexia, TX	--	9-10
126.	1916	--	Mar 06, <b>jail fire</b> , "El Holocausto," or the "Jail Holocaust," El Paso, TX	--	18-30

<sup>825</sup> San Antonio had TB death rate of 632.9 per 100,000 population. Census area average was 168.2 death rate.



**Texas (continued):**

127.	1916 -- Aug 16, storm, steamer <b>Admiral Clark</b> founders off San Antonio, TX	-- 20
128.	1916 -- Aug 18, <b>hurricane</b> , south Texas, especially greater Corpus Christi area, TX	--15-20
129.	1917 -- Aug 23, 24 <sup>th</sup> Infantry (Black)/Camp Logan <b>mutiny/racial riot</b> , Houston, TX--	20
130.	1917 -- Oct 10-Mar 08, 1918, <b>smallpox</b> epidemic, Eagle Pass, Maverick Co., TX	-- 33
131.	1918 -- <b>typhoid fever</b> , TX subset (highest in US), 9,100 US typhoid fever deaths	--1,057
132.	1918 -- Jan 14, <b>train derailment and collision</b> , Hammond, TX	-- 17
133.	1918, Sep-Dec, 1919 -- <b>influenza and pneumonia</b> epidemic, TX	--15,271
	1918--Sep-Dec, <b>influenza and pneumonia</b> epidemic, TX	--14,121
	1919--Jan-Dec, <b>influenza</b> epidemic, Dallas, El Paso, Houston, San Antonio--	1,150
134.	1919 -- Apr 08, <b>tornado</b> , F4, Collin and Fannin Counties, TX	-- 18
135.	1919 -- Apr 09, <b>tornadoes</b> , TX	-- 56
136.	1919 -- Sep 14, <b>hurricane</b> , Aransas & Nueces Bays, esp. Corpus Christi vicinity-600-1000	
137.	1920 -- <b>influenza and pneumonia</b> , "registration" cities, TX	--1,384
138.	1920 -- <b>malaria</b> (there were 3,136 malaria deaths in 34 registration states) <sup>826</sup>	-- 104
139.	1921 -- Apr 13, <b>tornado</b> , F4, Collin County, TX	-- 11
140.	1921 -- Apr 15, <b>tornadoes</b> , Marion, Cass, Bowie Counties, TX	-- 10
141.	1921 -- Sep 06-07, <b>hurricane</b> , South TX	-- 51
142.	1921 -- Sep 08-10, <b>flooding</b> , esp. San Antonio & Milam, Williamson Counties TX	-- ≥224
143.	1922 -- Apr 08, <b>tornado</b> , F3, Runnels, Coleman and Callahan Counties, TX	-- 12
144.	1922 -- May 04, <b>tornado</b> , Travis County, TX	-- 12
145.	1922 -- Dec 13, <b>trains collide</b> , Humble, TX	-- 22
146.	1923 -- May 09, <b>fire</b> , J.K. Hughes Develop. Co, McKie Oil Well, Corsicana, TX	-- 12
147.	1923 -- May 14, <b>tornado</b> , F5, Howard and Mitchell Counties, TX	-- 23
148.	1926 -- Apr 11, tanker <b>Gulf of Venezuela</b> explosion, Port Arthur, TX	-- 26
149.	1927 -- Jan 22, Baylor Univ. basketball team <b>bus</b> hit by <b>train</b> , Round Rock, TX	-- 10
150.	1927 -- Apr 12, <b>tornado</b> , Rock Springs, (Edwards and Real Counties) TX	-- 74
151.	1927 -- May 09, <b>tornadoes</b> , esp. Nevada area (19), Garland (15) and Hunt Co. (6), TX--	40
152.	1930 -- Jan 28, tug <b>Edgar F. Coney</b> sinks/storm, Gulf of Mex. ~70m off Sabine Pass TX--	14
153.	1930 -- May 06, <b>tornadoes</b> , TX	-- 81
154.	1931 -- <b>measles</b> , especially children (subset, 3,576 U.S. measles deaths), El Paso, TX--	20
155.	1931 -- <b>polio</b> , esp. July-Oct, (TX subset of 2,139-2,144 US polio deaths, esp. children)--	48
156.	1932 -- polio, esp. late summer and fall; TX subset of 885 US polio deaths	-- 57
157.	1932 -- Aug 13-14, <b>hurricane</b> , Brazoria County (≥41) and Galveston Co. (5), TX	--46-47
158.	1933 -- Mar 30, <b>tornado outbreak</b> , esp. Angelina, Shelby, San Augustine counties	-- 18
159.	1933 -- Sep 4-5, SW TX <b>hurricane</b> , Brownsville, Fort Ringgold, Harlingen, Rio Hondo--	37-40
160.	1934 -- July 24-26, <b>hurricane</b> , Brazoria, Matagorda, Jackson, Galveston counties, TX--	11
161.	1934 -- summer, <b>excessive natural heat</b> ; subset of 3,250 US heat deaths; TX	-- 66
162.	1935 -- Feb 08, <b>tornado</b> , Leon and Houston Counties, TX	-- 12
163.	1936 -- July-Aug (especially), <b>heat</b> (4,678-5,418 US heat deaths), TX subset	-- 97
164.	1937 -- Mar 18, <b>natural gas explosion</b> , consolidated school, New London, TX	--311-319
165.	1938 -- June 10, <b>tornado</b> , F5, Callahan County, TX	-- 14
166.	1939 -- <b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (TX subset, 1,997 US diphtheria deaths)--	188
167.	1939 -- <b>influenza</b> and Pneumonia (State subset, 99,097 U.S. flu/pneumonia deaths)	--5,346

<sup>826</sup> Though TX was not a reporting state, Beaumont, Dallas, El Paso, Galveston, Houston, San Antonio reported.

**Texas (continued):**

168.	1939 --	<b>malaria</b> ; TX subset (4 <sup>th</sup> highest State) of 1,761 US malaria deaths	--	170
169.	1939 --	<b>tuberculosis</b> (subset of 61,609 US tuberculosis deaths); TX	--	3,684
170.	1939 --	<b>whooping cough</b> (TX subset of 3,026 whooping cough deaths nationwide)	--	233
171.	1939 --	summer, <b>excessive heat</b> (subset of 527-1,073 heat deaths nationwide)	--	42
172.	1940 --	<b>influenza</b> and Pneumonia (State subset, 92,525 U.S. flu/pneumonia deaths)	--	5,356
173.	1940 --	<b>polio</b> (TX subset of 1,026 polio deaths nationwide)	--	40
174.	1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); TX death rate 14.6	--	928
175.	1940 --	<b>tuberculosis</b> (State subset of 55,576 tuberculosis deaths nationwide)	--	3,571
176.	1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, TX, 3.9	--	250
177.	1940 --	Mar 14, <b>train</b> hits farm workers <b>truck</b> , Highway 83 Crossing, Alamo, TX	--	29
178.	1941 --	<b>measles</b> , especially children (TX subset of 2,279 measles deaths nationwide)	--	79
179.	1941 --	Feb 07, <b>fire</b> , Salvation Army homeless shelter/lodging, Akard St., Dallas	--	13
180.	1942 --	Apr 28, <b>tornado</b> , F4, Foard County, TX	--	11
181.	1942 --	Jun 28, US freighter <b>Tillie Lykes</b> sunk by sub ~100m so. Santo Domingo, Dom. Rep.	<sup>827</sup> --	33
182.	1943 --	Feb 26, <b>plane crash</b> , U.S. Army Air Force B-17, Biggs Field, El Paso, TX	--	10
183.	1943 --	Mar 22, <b>plane crash</b> , USAAF AT-18, Army Air Field, Harlingen, TX	--	10
184.	1943 --	Apr 03, Gulf Oil tanker <b>Gulfstate</b> sunk by sub ~50m south Marathon Key, FL	<sup>828</sup> --	43
185.	1943 --	Apr 26, <b>plane crash</b> , U.S. Army Air Force B-24D, near Ballinger, TX	--	10
186.	1943 --	May 07, <b>plane crash</b> , USAAF B-17F, Army Air Base, Dalhart, TX	--	11
187.	1943 --	May 13, <b>planes collide</b> mid-air, USAAF B-24's, ~ Biggs Field, El Paso, TX	--	15
188.	1943 --	July 27, SE TX coast <b>hurricane</b> , USACE <b>dredge Galveston</b> sinks/11	--	20
189.	1943 --	July 28, <b>plane crash</b> , USAAF B-24E, 12 miles No. Biggs Field, El Paso, TX	--	11
190.	1943 --	Aug 18, <b>plane crash</b> , USAAF B-24, Gulf of Mexico, off Corpus Christi, TX	--	10
191.	1943 --	Sep 07, <b>fire</b> , Gulf Hotel (and inexpensive rooming house), Houston, TX	--	55
192.	1943 --	Sep 10, <b>mid-air plane collision</b> , two USAAF B-17's, off Galveston, TX	--	22
193.	1944 --	<b>cerebrospinal meningitis</b> (subset 2,812 US cerebrospinal meningitis deaths)	--	97
194.	1944 --	<b>influenza</b> (TX subset of 17,320 U.S. influenza deaths), esp. Jan-Apr, Dec	--	1,161
195.	1944 --	<b>measles</b> , especially Jan-June (TX subset, 1,923 measles deaths nationwide)	--	181
196.	1944 --	<b>polio</b> , especially July-Nov, TX (1,070 polio deaths nationwide)	--	51
197.	1944 --	<b>tuberculosis</b> (TX subset of 54,731 tuberculosis deaths nationwide)	--	3,126
198.	1944 --	<b>whooping cough</b> , TX subset (3 <sup>rd</sup> highest), 1,878 US whooping cough deaths	--	95
199.	1944 --	Jan 13, <b>USAAF B-17F plane crash</b> , near Army Air Field, Fort Worth, TX	--	10
200.	1944 --	Mar 20, <b>USAAF RB-24E plane crash</b> , near Biggs Field, El Paso, TX	--	10
201.	1944 --	May 10, <b>USAAF plane crash</b> near Biggs Field, El Paso, TX	--	10
202.	1944 --	Oct 08, <b>USAAF B-29 plane crash</b> , near Love Field, Dallas, TX	--	15
203.	1944 --	Nov 21, butane gas <b>truck and car</b> collide, <b>vapor explosion</b> , Denison, TX	--	10
204.	1945 --	Jan 8, <b>USAAF B-26 bombers collide</b> ~Brownsville/9; <b>A-20 Havoc crash</b> SW San Anton./1--	10	
205.	1945 --	Apr 16, <b>USAAF Beech AT-11s collide</b> , bombing training near Big Spring, TX	--	10
206.	1945 --	Apr 20, <b>USAAF C-47</b> structural failure in thunderstorm/crash ~Sweetwater, TX	--	25
207.	1945 --	Apr 27, <b>USAAF C-46 plane crash</b> , Palo Duro Canyon, south of Claude, TX	--	all 11
208.	1945 --	June 30, <b>USAAF B-29 night navigation crash</b> into mt., 8M ~Guadalupe Peak, TX	--	12
209.	1945 --	July 14, <b>USAAF TB-25C</b> engine-related <b>crash</b> , 1 mile NW of Weldon, TX	--	11

<sup>827</sup> Listed here because the *Tillie Lykes* was Galveston homeported and at least 14 of the crew lived thereabouts.

<sup>828</sup> Cross-listed in Texas in that 31 of the 43 fatalities lived in Port Arthur, TX area.

**Texas (continued):**

210. 1945 -- Aug 17, **two USAAF B-29s collide at night**, 3M west of Weatherford, TX -- 18  
 --9 USAAF Boeing B-29 Superfortress, 42-93895  
 --9 USAAF Boeing B-29 Superfortress, 44-86276
211. 1945 -- Sep 01, **USAAF B-24J takeoff crash**, near Hondo Army Air Field, TX --11-12
212. 1945 -- Oct 18, **USAAF TB-24J engine fire** just after takeoff, crash ~Hondo AAF, TX--13
213. 1945 -- Oct 18, **USAAF TB-24J plane fire/crash**, near Hondo Army AF, TX -- 13
214. 1945 -- Nov 08, **US Navy PBM Mariners collide mid-air**, Corpus Christi Bay, TX-- 22
215. 1946 -- **polio**, especially July-Nov, TX (1,845 polio deaths nationwide) -- 102
216. 1946 -- Jan 04, TX **tornadoes**, esp. Clawson/3, Nacogdoches/10, Palestine/15 areas, east TX--30
217. 1946 -- June 21, **explosion** (postulated as natural gas), Baker Hotel, Dallas, TX -- 10
218. 1947 -- Apr 09, **tornado**, Gray, Roberts, Hemphill, Lipscomb Counties, TX --68-69
219. 1947 -- Apr 16-17, **ammonium nitrate explosion**, **Grandcamp**, Texas City, TX --581-600
220. 1947 -- Aug 05, worker/gasoline **trucks collide** and burn, near Waxahachie, TX -- 19
221. 1948 -- **polio**, especially May-Dec with 177), TX (1,895 polio deaths nationwide) -- 190
222. 1949 -- **polio**, especially July-Nov, TX (~2,725 polio deaths nationwide) -- 183
223. 1949 -- May 16-17, downpour/**flooding**, Hico/1, esp. Trinity Riv. at Fort Worth/10, TX--11
224. 1949 -- Nov 29, **American Airlines 157 landing crash** and fire, Dallas-Love Field, TX--28
225. 1950 -- **measles**, especially children (468 US measles deaths); subset for TX -- 14
226. 1950 -- **polio**, especially July-Nov (TX subset of 1,904 polio deaths nationwide) -- 204
227. 1950 -- Dec 22, **fire**, Walker Convalescent Home (for elderly), near Amarillo TX -- 10
228. 1951 -- **diphtheria**; 302 US deaths; 13 States in double digits; TX (US high state) -- 31
229. 1951 -- **measles**, 688 US deaths; subset for TX (highest US state loss by far) -- 102
230. 1951 -- **polio**, esp. July-Nov; subset (highest in US) of ~1,555 US polio deaths -- 183
231. 1951 -- **tuberculosis**, 31,163 US deaths, subset for TX, 4<sup>th</sup> highest US state loss --1,912
232. 1951 -- **typhoid fever** (code 40), *Vital Statistics-Mortality 1951*; 84 US deaths, esp. TX--12
233. 1951 -- **whooping cough**; 960 US deaths; subset for TX (highest US state loss by far)--110
234. 1951 -- Jan 27-Feb 2, **cold waves/storms/ice/sleet/snow** (175-200 US deaths), TX -- 24
235. 1951 -- June 3, **USAF C-82** Flying Boxcar hit by lightning/crashed, New Boston, TX--all 10
236. 1952 -- **diphtheria** (225 US deaths; 7 states in double digits), subset for TX -- 21
237. 1952 -- **dysentery**, infections (all forms); 949 US deaths; TX (highest US loss) -- 239
238. 1952 -- **influenza**; 5,649 US deaths; subset for TX (highest US state loss for the flu)-- 433
239. 1952 -- **polio**, esp. children, TX subset of ~3,300 US polio deaths; Harris Co./33 --240-313
240. 1952 -- **scarlet fever and streptococcal sore throat**; 352 US deaths; TX (6<sup>th</sup> highest)-- 16
241. 1952 -- **tuberculosis** (respiratory): 22,700 US deaths; TX (5<sup>th</sup> highest US state loss) --1,195
242. 1952 -- **whooping cough** (pertussis); 406 US deaths; TX (highest state loss of life) -- 57
243. 1952 -- Mar 12, two **USAF B-29's flying blind collide** ~Sequin and San Antonio, TX-- 15  
 --8 USAF TB-29 Superfortress 44-62223  
 --7 USAF TB-29 Superfortress 55-87774
244. 1952 -- Mar 21, **USN PB4Y-2 crash** after takeoff, off Corpus Christi NAS, TX --all 10
245. 1952 -- Apr 1-10, "Exercise Longhorn," military **plane crashes** & parachuting deaths, TX-10
246. 1952 -- Aug 04, **head-on Greyhound buses collide/fire**, Waco, TX -- 28
247. 1953 -- **excessive natural heat** (ICD code E931), 576 US deaths, esp. Aug 22-Sep 5-- 41
248. 1953 -- **diphtheria**, 158 US deaths (6 states in double digits), TX subset (3<sup>rd</sup> highest)-- 15
249. 1953 -- **dysentery**, infectious, all forms (codes 045-048), 886 US deaths; TX highest -- 268

**Texas (continued):**

250. 1953 -- **influenza**; 9,500 US deaths; TX subset (highest in the US) -- 716
251. 1953 -- **measles**, 483 US deaths/23 States double digits; TX, highest state loss in US-- 56
252. 1953 -- **polio**, especially children (TX subset of 1,450 polio deaths nationwide) -- 57
253. 1953 -- **scarlet fever** and streptococcal sore throat; 296 US deaths, TX subset (US high)-23
254. 1953 -- **tuberculosis** (respiratory); 17,954 US deaths; TX subset (5<sup>th</sup> US state high) -- 948
255. 1953 -- **whooping cough**; 271 US deaths, 11 States double digits; TX/highest US loss-- 19
256. 1953 -- Mar 13, **tornado**, northwest Haskell County to southern Knox County, TX -- 17
257. 1953 -- Apr 29, Randolph Field **USAF B29** in-flight fire and crash, ~San Antonio, TX-- 10
258. 1953 -- May 11, **tornadoes**, Tom Green and McLennan Counties (**Waco/114**), TX -- 127
259. 1953 -- May 17, **Delta Airlines 318** flies into severe turbulence, crashes ~Marshall TX-- 19
260. 1953 -- July 17, USMC **plane crash**, Rice Univ. ROTC students killed, Milton, FL<sup>829</sup>-- 10
261. 1954 -- **excessive heat** (esp. July); 978-984 US heat-related deaths; subset for TX -- 95
262. 1954 -- **dysentery**, infectious, all forms (codes 045-048), 655 US deaths; TX led US-- 172
263. 1954 -- **encephalitis**, acute infectious (viral); 407 US deaths, esp. NY/52 PA/31; TX-- 26
264. 1954 -- **influenza**, 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; TX -- 228
265. 1954 -- **measles**; 524 US deaths; 21 states double digits; TX tied with NY highest loss-- 36
266. 1954 -- **polio**, acute; 1,400 US deaths; TX (largest loss of life of any state in 1954) -- 138
267. 1954 -- **scarlet fever**/streptococcal sore throat; 263 US deaths; TX had highest US loss--19
268. 1954 -- **tuberculosis** (respiratory); 15,146 US deaths; TX had 5<sup>th</sup> highest US state loss--843
269. 1954 -- **whooping cough**/pertussis; 375 US deaths, 17 states double digits, TX subset-- 24
270. 1954 -- June 25-26, **Hurricane Alice** hits so. of Brownsville; **flash flooding**, Ozona, TX/19--21
271. 1955 -- **diphtheria**, 150 US deaths; esp. AL/25, GA/18, TX/13, SC/11 -- 13
272. 1955 -- **influenza**; 2,755 US deaths; TX had 4<sup>th</sup> highest US state loss of life -- 169
273. 1955 -- **measles**, 345 US deaths (7 states double digits); TX (highest US state loss) -- 35
274. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); TX subset -- 76
275. 1955 -- **tuberculosis** (respiratory); 13,676 US TB deaths; TX (among top ten states)-- 736
276. 1955 -- **whooping cough**/pertussis, 476 US deaths/15 states in double digits; TX -- 59
277. 1955 -- May 25, **USAF B-36J** breaks-up in severe thunder storm ~Sterling City, TX--all 15
278. 1956 -- **influenza**, 2,323 US deaths; TX had 2<sup>nd</sup> highest US state death toll in 1956 -- 153
279. 1956 -- **measles**, 530 US deaths/21 states in double digits; TX 2<sup>nd</sup> highest US state toll-- 31
280. 1956 -- **polio**/acute, 566 US deaths/15 states in double-digits; TX highest US state toll-- 76
281. 1956 -- **diphtheria**, 103 US deaths, esp. TX, only state with double digit death toll -- 19
282. 1956 -- **scarlet fever/streptococcal sore throat**; 240 US deaths; TX, highest US toll-- 21
283. 1956 -- **tuberculosis** (respiratory), 12,978 US deaths; TX 5<sup>th</sup> highest US state loss -- 729
284. 1956 -- **whooping cough**/pertussis, 266 US deaths; 8 states double digit deaths, (US high)-- 44
285. 1956 -- Feb 01-05, **ice/snow/blizzard/cold**, especially. northern & central TX --16-23
286. 1956 -- July 29, **fire/explosion**, McKee tank farm, Shamrock Oil & Gas, Dumas, TX-- 19
287. 1957 -- **influenza**; 7,463 US deaths; TX subset (highest US state loss of life) -- 494
288. 1957 -- **diphtheria**, 81 US deaths, especially TX (11), GA (8), AL (6), FL and NY (5)-- 11
289. 1957 -- **measles**; 389 US deaths; 15 states double digit deaths; TX subset (US high) -- 32
290. 1957 -- **polio**, acute; 221 US deaths; six double digit states; TX had highest loss with -- 38
291. 1957 -- **scarlet fever**/streptococcal sore throat; 213 US deaths/5 states double digits, TX--15
292. 1957 -- **tuberculosis** (respiratory); 12,384 US deaths; TX subset (4<sup>th</sup> high US state) -- 733

<sup>829</sup> Rice is in Houston. There were 44 fatalities in all, including 23 students from the University of Oklahoma.



## Texas (continued):

293.	1957 --	whooping cough/pertussis; 183 US deaths; 6 states double digits; TX subset--	25
294.	1957 --	Apr 02, tornado, Dallas County, TX	-- 10
295.	1957 --	Apr-mid to June, rainstorms, flooding, flash floods, rain-slick road accidents--	23
296.	1957 --	May 15, tornadoes, Lockney, Floyd County/1; Silverton, Briscoe Co./20, TX--	21
297.	1957 --	Jun 27, Hurricane Audrey, schooner <i>Keturah</i> down off Galveston, 2 mainland--	9-11
298.	1957 --	fall-spring 1958, H2N2 Asian influenza/pneumonia pandemic (US 116K)	--3,033
299.	1958 --	influenza; 4,442 US deaths; TX subset (US high)	-- 415
300.	1958 --	measles; 552 US deaths; 23 States in double digits, including TX (US high)	-- 50
301.	1958 --	polio (acute); 255 US deaths; 11 states in double digit deaths; TX 20 (2 <sup>nd</sup> high)--	20
302.	1958 --	scarlet fever and streptococcal sore throat; 138 US deaths; TX subset (US high)--	12
303.	1958 --	tuberculosis; 12,361 US TB deaths; TX subset (5 <sup>th</sup> highest US State loss)	-- 721
304.	1958 --	whooping cough (pertussis); 177 US deaths; highest US death toll was in TX--	24
305.	1958 --	Feb 06-12, coldwave and ice/sleet storms, TX	-- 12
306.	1958 --	Mar 27, USAF C-119 & USAF C-124C collide mid-air, ~Bridgeport, TX	--all 18
307.	1959 --	influenza; 2,845 US deaths; TX subset (highest in the US)	-- 191
308.	1959 --	measles, especially children; 385 US deaths; subset for TX	-- 27
309.	1959 --	polio (acute, as opposed to late effects of); 454 US deaths; TX subset	-- 22
310.	1959 --	scarlet fever and streptococcal sore throat; 130 US deaths, esp. KY & TX--	12
311.	1959 --	tuberculosis; 11,456 US TB deaths; TX subset (5 <sup>th</sup> highest of US States)	-- 633
312.	1959 --	whooping cough (pertussis); 269 US deaths, esp. children; TX subset (US high)--	48
313.	1959 --	Sep 29, plane break-up, Braniff Air Flight 542, near Buffalo, TX	-- 34
314.	1959 --	Nov 25, M/V <i>National Pride</i> capsizes Gulf of Mexico off Galveston, TX	-- 11
315.	1960 --	diphtheria, 69 US deaths, especially TX, only State in double digits	-- 20
316.	1960 --	influenza; 7,872 US deaths/death rate 4.4 per 100K; TX death rate 6.5	-- 619
317.	1960 --	measles, especially children; 380 US deaths; most lives lost were in TX	-- 52
318.	1960 --	polio (acute, as opposed to late effects of); 230 US deaths, TX	-- 14
319.	1960 --	scarlet fever and streptococcal sore throat; 108 US deaths; TX	-- 13
320.	1960 --	tuberculosis; 10,866 deaths/death rate 6.1 per 100K; TX death rate 6.2	-- 590
321.	1960 --	whooping cough (pertussis); 118 US deaths, esp. TX, only double digit State--	22
322.	1960 --	June 23-29, tropical storm, so. TX; remnant flooding; deaths TX/12, AR/3	-- 12
323.	1960 --	Oct 28, torrential rains, flash flooding, south central TX, esp. Austin area, TX--	11
324.	1961 --	diphtheria, 68 US deaths, especially TX (only State in double digits)	-- 23
325.	1961 --	scarlet fever and streptococcal sore throat, 130 deaths, esp. CA/TN/TX (10)--	10
326.	1961 --	tuberculosis, 9,938 US deaths/death rate 5.4 per 100k; TX death rate 5.8	-- 567
327.	1961 --	Sep 11, Hurricane Carla and tornadoes, Central Texas Coast	-- 34
328.	1961 --	Nov 07, collision, M/V <i>Union Reliance</i> , M/V <i>Berean</i> , Houston Channel, TX--	12
329.	1962 --	measles, 408 US deaths/death rate 0.2 per 100,000 population; TX 0.6	-- 59
330.	1962 --	polio (acute, not long term effects), 60 US deaths; TX subset (highest in US)--	13
331.	1962 --	scarlet fever and streptococcal sore throat, 102 US deaths, especially TX	-- 10
332.	1962 --	Jan 09-12, snow, sleet, extreme cold-wave; 153-219 US deaths; TX subset	--30-38
333.	1963 --	dysentery; 294 US deaths/death rate 0.2 per 100K pop.; TX death rate 0.6	-- 65
334.	1963 --	excessive heat; 196 US deaths; TX	-- 26
335.	1963 --	measles; 364 US deaths/death rate 0.2 per 100K; TX death rate 0.7	-- 25
336.	1963 --	scarlet fever and streptococcal sore throat; 102 US deaths; TX	-- 12

## Texas (continued):

337.	1963 --	<b>whooping cough</b> (pertussis); 115 US deaths; TX (only State in double-digits)--	18
338.	1963 --	Jan 18-28, <b>cold waves, snow</b> (TX subset of 315-352 US deaths)	--16-19
339.	1963 --	Sep 02, <b>two-car</b> collision, TX State Highway 146 near Dayton, TX	-- 10
340.	1964 --	<b>diphtheria</b> , especially Texas (10)	-- 42
341.	1964 --	<b>dysentery</b> ; 283 US deaths; Texas subset largest loss-of-life in the US	-- 59
342.	1964 --	<b>measles</b> ; 421 US deaths/death rate 0.2; TX death rate 0.5	-- 68
343.	1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; TX death rate 4.7	-- 492
344.	1964 --	<b>whooping cough</b> (pertussis); 93 US deaths; TX deaths	-- 11
345.	1964 --	June 27-Oct 3, <b>St. Louis Encephalitis</b> epidemic, Houston, TX	-- 33
346.	1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; TX death rate 1.6	-- 167
347.	1965 --	<b>measles</b> , 276 US deaths/death rate 0.1 per 100K, TX rate 0.4 (highest State loss)--	42
348.	1965 --	June 11, intense rain west of Sanderson, <b>flash-flood</b> (dawn), Sanderson, TX--	26
349.	1966 --	<b>dysentery</b> , 172 US deaths, esp. TX (31), GA (12), CA (11), MS (11), NM (10)--	31
350.	1966 --	<b>excessive natural heat</b> , subset of 613 US heat deaths, TX	-- 18
351.	1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for TX	-- 116
352.	1966 --	<b>measles</b> , 276 US deaths, especially TX/36, IL/27, CA/19, SC/14, NY/12; TX--	36
353.	1966 --	<b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; TX--	59
354.	1966 --	<b>polio</b> , acute/9, late effects of acute poliomyelitis/139 (148 deaths); TX	-- 12
355.	1966 --	<b>scarlet fever</b> and streptococcal sore throat, 65 US deaths, esp. TX/12, NY/10--	12
356.	1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for TX	-- 404
357.	1966 --	Apr 24, 28-30, May 4, TX flash flooding, esp. northeast, esp. north Dallas, TX--	25
358.	1966 --	Aug 01, Charles Whitman killing spree, Univ. TX- <b>Austin Tower Sniper</b> <sup>830</sup>	--16-17
359.	1967 --	Feb 15, <b>explosion</b> , Lone Star Army Ammunition Plant, ~Texarkana, TX	-- 11
360.	1967 --	Sep 20-22, <b>Hurricane Beulah</b> , <b>flooding</b> , tornadoes, Brownsville & SW TX--	12-18
361.	1968 --	<b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; TX--	15
362.	1968 --	<b>diphtheria</b> (ICD-8 code 032), 30 US diphtheria deaths; TX	-- 11
363.	1968 --	<b>excessive natural heat</b> , ICD-8 code E900; subset of 231 US heat deaths; TX--	11
364.	1968 --	<b>polio</b> ; ICD-8 codes 040-044; 130 US polio deaths; TX	-- 12
365.	1968 --	May 03, <b>air turbulence/crash</b> , Braniff Air Flight 352, Near Dawson, TX	-- 85
366.	1968 --	Nov 03-Mar 15, A2 Hong Kong <b>influenza-pneumonia</b> epidemic, TX <sup>831</sup>	-- 468
367.	1969 --	<b>excessive natural cold</b> ; ICD-8 code E901; 424 US deaths; TX	-- 13
368.	1969 --	<b>excessive natural heat</b> , ICD-8 code E900; 271 US deaths; TX (US high)	-- 28
369.	1970 --	<b>excessive natural cold</b> ; ICD-8 code E901; 466 US deaths; TX	-- 10
370.	1970 --	<b>excessive natural heat</b> , ICD-8 code E900; 179 US deaths; TX	-- 16
371.	1970 --	<b>influenza</b> ; codes 470-474; 3,707 deaths/death rate 1.8 per 100K; TX 2.1 (US high)--	230
372.	1970 --	<b>measles</b> /rubeola; ICD-8 code 055; 89 US deaths, especially TX	-- 17
373.	1970 --	Apr 17-18, <b>tornadoes</b> , TX Panhandle, esp. Sherwood Shores, Donley Co., TX--	22-23
374.	1970 --	May 11, <b>tornado</b> , F5, Lubbock, TX	-- 26
375.	1970 --	Aug 03, <b>Hurricane Celia</b> , South TX, especially Corpus Christi area, TX	-- 15
376.	1971 --	excessive natural <b>cold</b> ; ICD-8 code E901; 361 US deaths; TX	-- 10
377.	1972 --	excessive natural <b>cold</b> , ICD-8 code E901, 490 US deaths; TX	-- 10
378.	1972 --	<b>excessive natural heat</b> ; ICD-8 code E900; 234 US deaths; TX	-- 22

<sup>830</sup> Whitman killed his wife and mother in Austin and then 14 people at the University, prior to his being killed.

<sup>831</sup> Just the CDC reporting cities of: Austin, Dallas, El Paso, Fort Worth, Houston, and San Antonio.

## Texas (continued):

379.	1972	--	<b>influenza</b>	, ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; TX 2.43--286	
380.	1972	--	<b>tuberculosis</b>	; 4,376 US deaths, death rate 2.09 per 100K; TX rate 2.16	-- 152
381.	1972	--	Feb 01, <b>gas explosion</b>	(lightning?), tanker <b>V.A. Fogg</b> , off Galveston, TX	-- 39
382.	1972	--	May 11-12, downpour, <b>flash flooding</b>	, New Braunfels and vicinity, TX	-- 18
383.	1973	--	<b>chickenpox</b>	; 138 US deaths; TX (more than double any other State)	-- 21
384.	1973	--	<b>excessive natural cold</b>	; ICD-8 code E901; 381 US deaths; subset for TX	-- 13
385.	1974	--	<b>cold</b>	; ICD-8 code E901, exposure to excessive natural cold; 348 US deaths; TX--	11
386.	1975	--	exposure to excessive natural <b>heat</b>	; ICD-8 code E900; 190 US deaths; TX	-- 10
387.	1975	--	Apr 29, Surtigas, S.A. LPG tank <b>truck crash/explosion/fire</b>	, ~Eagle Pass, TX--	16
388.	1976	--	exposure to <b>excessive natural cold/hypothermia</b>	; 424 US deaths; TX	-- 10
389.	1976	--	<b>influenza</b>	; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; TX 4.1--	539
390.	1976	--	<b>tuberculosis</b>	; 3,130 US TB deaths/death rate 1.44 per 100K; TX rate 1.46	-- 188
391.	1976	--	Apr 15, oil platform <b>Ocean Express</b>	capsizes under tow in storm, Gulf, off TX--	13
392.	1977	--	<b>heat</b>	(esp. summer), ICD-8 E900 excessive natural/US death rate 0.14, TX, 0.16--	21
393.	1977	--	<b>tuberculosis</b>	; 2,968 US TB deaths/death rate 1.35 per 100K; TX, 1.36	-- 180
394.	1977	--	Dec 27, <b>dust explosion</b>	, Farmers Export Grain Elevator, Galveston, TX	-- 18
395.	1978	--	exposure to <b>excessive natural cold/hypothermia</b>	; 652 US deaths; TX	-- 23
396.	1978	--	<b>heat</b>	(esp. summer), ICD-8 E900 excessive natural heat, US death rate 0.12, TX 0.32--	43
397.	1978	--	<b>tuberculosis</b>	, 2,914 US TB deaths; TX had 5 <sup>th</sup> highest loss of life to TB	-- 163
398.	1978	--	July 30-Aug 4, <b>Tropical Storm Amelia &amp; remnants, flash flooding</b>	, TX	--33-34
399.	1979	--	exposure to <b>excessive natural cold/hypothermia</b>	; 356 US deaths; TX	-- 12
400.	1979	--	Apr 10, <b>tornadoes</b>	, Red River Valley (especially Wichita Falls), TX	--53-54
401.	1979	--	summer (esp.) <b>heat</b>	(ICD-9, E900 excessive heat and hyperthermia code); TX--	15
402.	1979	--	Nov 01, tanker <b>Burmah Agate</b>	collides with freighter <b>Mimosa</b> , Galveston, TX--	32
403.	1980	--	exposure to <b>excessive natural cold/hypothermia</b>	; 302 US deaths; TX	-- 13
404.	1980	--	June-Aug (esp.) <b>heat</b>	, especially greater Dallas and Tarrant County, TX	-- 140
405.	1980	--	June 05, Central Texas Charter tour <b>bus goes off Highway 7</b>	, ~Jasper, AR <sup>832</sup> --	20
406.	1981	--	<b>tuberculosis</b>	; 1,937 US TB deaths/death rate 0.84 per 100K; TX rate 0.91	-- 134
407.	1981	--	June-Aug (especially), <b>heat</b>	(ICD-9 E900 code for excessive natural heat), TX--	23
408.	1981	--	May 24, intense rain, flash <b>flood</b>	, Austin, TX	-- 13
409.	1982	--	exposure to <b>excessive natural cold/hypothermia</b>	; 402 US deaths; TX <sup>833</sup>	-- 17
410.	1982	--	Jan 11-13, <b>winter weather</b>	, especially extreme cold and ice, TX <sup>834</sup>	-- 12
411.	1982	--	Mar 07, <b>fire</b>	, Westchase Hilton Hotel, Houston, TX	-- 12
412.	1982	--	Apr 02, <b>tornado</b>	, Lamar, Red River Counties, TX	-- 11
413.	1982	--	summer <b>heat</b>	(ICD-9 E900 code, excessive heat/hyperthermia) subset of 196--	≥28
414.	1982	--	July 28, Last Days Ministries sight-seeing takeoff <b>plane crash</b>	, Lindale, TX--	12
415.	1983	--	exposure to excessive natural <b>cold/hypothermia</b>	; 510 US deaths; TX	-- 21
416.	1983	--	<b>tuberculosis</b>	, 1,779 US TB deaths, death rate 0.76 per 100K; TX rate 0.81	-- 128
417.	1983	--	summer <b>heat</b>	, esp. July-Aug, 18 counties, esp. Dallas/8; 596 US deaths	-- 35
418.	1983	--	Aug 18, <b>Hurricane Alicia</b>	, Galveston, greater Houston & Southeast Texas	-- 21

<sup>832</sup> Cross-listed in Texas because the victims were from a group of elderly Texans on an Ozark Mts. tour.

<sup>833</sup> At least two of these deaths probably stem from the Jan 11-13, 1982 extreme cold and ice event.

<sup>834</sup> Includes a fall through ice-covered pond, 2 cold weather related fire deaths, a heart attack cutting ice on pond in 10<sup>o</sup> weather, 2 home hypothermia deaths, 1 vehicular cold/CO poisoning death, 4 highway deaths due to icy roads.

## Texas (continued):

419.	1983 -- Dec 15-31, <b>winter weather</b> , severe cold/exposure deaths, snow, icy roads	--	28
420.	1983 -- Dec 23, <b>collision</b> , activity bus and semitrailer, near Devers, TX	--	10
421.	1984 -- <b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, TX rate 0.78	--	125
422.	1984 -- <b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; TX rate 0.76	--	121
423.	1984 -- summer <b>heat</b> (ICD-9 E900 code, excessive heat/hyperthermia) subset of 228--		23
424.	1985 -- Apr 27-28, <b>thunderstorms, flash flooding</b> , drownings/9, Tornadoes, TX	--	10
425.	1985 -- summer <b>heat</b> (ICD-900 code for excessive heat/hyperthermia) subset of 227--		17
426.	1985 -- Aug 2, Delta Flight 191 wind shear <b>plane crash</b> , Dallas-Fort Worth IAP, TX--		137
427.	1986 -- <b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; TX rate 0.82	--	136
428.	1986 -- summer, <b>excessive natural heat</b> ; subset of >400 US heat-related fatalities; TX--		38
429.	1987 -- <b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; TX death rate 5.67	--	944
430.	1987 -- <b>tuberculosis</b> ; 1,755 US TB deaths, death rate 0.72 per 100K, TX, 0.75	--	125
431.	1987 -- May 22, <b>tornado</b> , F4, Saragosa, Reeves County, TX	--	30
432.	1987 -- June 22, <b>US Army helicopter reservist training flight crash</b> , Ft. Hood TX--all		10
433.	1987 -- summer <b>heat</b> ; approximately 388 U.S. heat deaths <sup>835</sup> ; subset for TX	--	23
434.	1987 -- July 02, illegals die in 120-degree <b>locked railroad car</b> , Sierra Blanca, TX	--	18
435.	1987 -- July 17, <b>flash flood</b> , church youth <b>bus &amp; van</b> swept into river ~Comfort, TX--		10
436.	1987 -- Nov 15, <b>tornadoes</b> , Anderson, Burleson, Cherokee, Madison, Smith counties--		10
437.	1988 -- <b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; TX, 6.98	--1,	165
438.	1988 -- exposure to <b>excessive natural heat</b> summer especially, TX	--	35
439.	1988 -- Feb 25, <b>US Army Chinook helicopter engine failure and crash</b> , Chico, TX--		10
440.	1988 -- July 07, La Tienda Amigo Dept. <b>store collapse</b> , heavy rain, Brownsville, TX--		14
441.	1988 -- Aug 31, <b>Delta Air flight 1141 takeoff crash/fire</b> , Dallas/Fort Worth AP, TX--		14
442.	1989 -- exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; TX	--	19
443.	1989 -- <b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K pop.; TX, 8.83	--1,	486
444.	1989 -- <b>measles</b> , especially children, Houston area	--	10
445.	1989 -- Jan 31, <b>USAF SAC Tanker plane crash</b> , , Dyess AF Base, TX	--	19
446.	1989 -- Feb 3-7, <b>Arctic cold, ice and snow</b> (76-91 US deaths); accidents & exposure--		18
447.	1989 -- June-Aug (esp.), <b>heat</b> , ICD-9 E900 code, excessive heat and hyperthermia	--	23
448.	1989 -- June 26, <b>Tropical Storm Allison</b> , Southeast TX	--	11
449.	1989 -- Aug 01, <b>Hurricane Chantal</b> , High Island, TX	--	13
450.	1989 -- Oct 3, F/V <b>Northumberland</b> ruptures NG pipeline/ <b>explosion</b> /fire ~Sabine Pass, TX <sup>836</sup>	--	11
451.	1989 -- Oct 23, <b>explosion</b> , Phillips Petroleum Co., Pasadena, TX	--	23
452.	1990 -- <b>chickenpox</b> , 120 US deaths, death rate 0.05 per 100K; TX, 0.06	--	10
453.	1990 -- exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; TX	--	25
454.	1990 -- <b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; TX, 1.51	--	256
455.	1990 -- <b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; TX rate 0.77	--	131
456.	1990 -- summer esp., <b>heat</b> , ICD-9 E900 excessive heat and hyperthermia code	--	29
457.	1991 -- exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; TX	--	21
458.	1991 -- summer (esp.), <b>heat</b> , ICD-9 E900 excessive natural heat and hyperthermia	--	25
459.	1991 -- Sep 11, <b>Continental Express 2574 breakup</b> and crash, near Eagle Lake, TX--		14
460.	1991 -- Oct 16, violence, <b>rampage shooting</b> , Luby's Restaurant, Killeen, TX <sup>837</sup>	--23-	24

<sup>835</sup> Does not include the 18 illegal immigrants who died in 120° locked railroad car in Sierra Blanca noted below.

<sup>836</sup> Cross-listed in LA though explosion/fire was on Texas side of border. Most victims were Louisiana residents.



## Texas (continued):

461.	1992 --	chickenpox	, 100 US deaths, death rate 0.04 per 100K, esp. TX rate 0.07	--	12
462.	1992 --	exposure to excessive natural	cold/hypothermia; 558 US deaths; TX	--	21
463.	1992 --	summer	heat, esp. July-Aug, TX set (2 <sup>nd</sup> highest), 155 US heat deaths	--	20
464.	1993 --	exposure to excessive natural	cold/hypothermia; 641 US deaths; TX	--	16
465.	1993 --	meningococcal meningitis	; US deaths 260, death rate 0.10 per 100K; TX, 0.13--	24	
466.	1993 --	tuberculosis	; 1,631 US TB deaths, death rate 0.63 per 100K; TX, 0.88	--	159
467.	1993 --	Feb 28, shootout, Large ATF force attempts to serve	David Koresh, Waco, TX <sup>838</sup> --	10	
468.	1993 --	Apr 19, FBI/ATF attack	Branch Davidian compound/fire near Waco, TX	--	75
469.	1993 --	summer esp.,	excessive natural heat (TX subset of 311 U.S. heat deaths)	--	26
470.	1994 --	chickenpox	(subset of 124 US chickenpox deaths)	--	11
471.	1994 --	exposure to excessive natural	cold/hypothermia; 633 US deaths; TX	--	14
472.	1994 --	influenza	, 1,229 US deaths; death rate 0.47 per 100K; TX, 0.50 per 100K	--	93
473.	1994 --	meningococcal meningitis	, ICD-9 code 36.0; death rate 0.10 per 100K; TX 0.16--	29	
474.	1994 --	tuberculosis	; 1,478 US TB deaths; US death rate 0.56 per 100K, TX, 0.73	--	135
475.	1994 --	summer esp.,	excessive heat, TX subset (4 <sup>th</sup> highest) of 221 US heat deaths	--	33
476.	1994 --	July 03,	tractor trailer broadsides pickup truck near Snyder, west TX <sup>839</sup>	--	11
477.	1994 --	July 03,	tractor trailer rear-ends Family Van, I-20, Weatherford, TX	--	14
478.	1994 --	Oct 16-20 and 22,	flash flooding/flooding, esp. Southeast TX	--	19-22
479.	1995 --	chickenpox	(more than any other State; PA only other State with >9 deaths )--	12	
480.	1995 --	tuberculosis	; 1,336 US TB deaths; death rate 0.5 per 100K; TX, 0.60	--	113
481.	1995 --	May 05, Th-Storm,	flash flooding, roof collapse, lightning, Dallas area, TX <sup>840</sup> --	20-24	
482.	1995 --	summer	excessive heat (TX subset of 1,563-1,601 U.S. heat-related deaths)	--	41
483.	1996 --	exposure to excessive natural	cold/hypothermia; 685 US deaths; TX	--	25
484.	1996 --	tuberculosis	, 1,202 US TB deaths; death rate 0.45 per 100K; TX 0.54	--	104
485.	1996 --	summer (July 1-9 especially),	heat, especially Tarrant and Dallas counties	--	39
486.	1997 --	exposure to excessive natural	cold/hypothermia; 501 US deaths; TX	--	19
487.	1997 --	tuberculosis	, ICD-9 code 010-018, death rate 0.43 per 100K, TX, 0.61	--	121
488.	1997 --	May 27,	tornadoes, Jarrell (Williamson Co.); Lakeway (Travis Co.) TX	--	28-29
489.	1997 --	summer especially,	excessive heat (TX subset of 182 U.S. heat deaths)	--	22
490.	1998 --	exposure to excessive natural	cold/hypothermia; 420 US deaths; TX	--	18
491.	1998 --	infectious colitis	, enteritis, gastroenteritis, ICD-9 code 009.0, TX death rate 0.14 per 100K--	28	
492.	1998 --	tuberculosis	, ICD-9 code 010-018, death rate 0.40 per 100K; TX, 0.54	--	108
493.	1998 --	summer	heat, especially July, esp. Dallas and Harris counties, TX	--	120
494.	1998 --	Aug 21-24,	Tropical Storm Charley, SW, Central TX, esp. Del Rio, TX	--	16-19
495.	1998 --	Oct 17-18,	flash floods, Central TX	--	29
496.	1999 --	exposure to excessive natural	cold/hypothermia; 598 US deaths; TX	--	21
497.	1999 --	tuberculosis	, ICD-10 code A16-19, death rate 0.333 per 100K; TX, 0.443	--	91
498.	1999 --	summer,	heat, esp. Harris County, TX (subset of 1,050 US heat deaths)	--	63
499.	1999 --	Nov 17,	bonfire collapse, Texas A&M University, College Station, TX	--	12
500.	2000 --	exposure to excessive natural	cold/hypothermia; 742 US deaths; TX	--	26

<sup>837</sup> Twenty-three killed by the shooter, George Hennard, who killed himself after being wounded by police.

<sup>838</sup> Four ATF agents, six Davidians. See 4-19-1993 for FBI/ATF attack, wherein 75 Davidians (25 children) died.

<sup>839</sup> This and next event are indeed separate events. Approximately 37 people died on TX roads on July 3.

<sup>840</sup> Includes two lightning deaths and two crushing deaths when a building roof collapsed from weight of water.

## Texas (continued):

501.	2000	-- exposure to <b>excessive natural heat</b> , 494 US deaths, subset for TX	-- 135
502.	2000	-- <b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.276 per 100K; TX, 0.321	-- 67
503.	2000	-- Dec 25-27, <b>snow and ice storm</b> , especially North Texas	-- 22
504.	2001	-- exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; TX	-- 21
505.	2001	-- <b>excessive natural heat</b> ; 538 US deaths; subset for TX, esp. Harris County/24--	59
506.	2001	-- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.268 per 100K; TX 0.399	-- 85
507.	2001	-- June 8-10, <b>Tropical Storm Allison flooding</b> , especially Houston, TX	--23-24
508.	2002	-- exposure to <b>excessive natural cold/hypothermia</b> ; 646 US deaths; TX	-- 28
509.	2002	-- <b>excessive natural heat</b> ; 626 US deaths; esp. El Paso/10, Harris/14 counties, TX--	62
510.	2002	-- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.273 per 100K; TX, 0.350	-- 76
511.	2003	-- exposure to <b>excessive natural cold/hypothermia</b> ; 620 US deaths; TX	-- 19
512.	2003	-- exposure to <b>excessive natural heat</b> ; 426 US deaths; subset for TX	-- 64
513.	2003	-- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.25 per 100K; TX rate 0.33	-- 72
514.	2003	-- May 13-14 illegal immigrants <b>suffocate</b> , hot/airless milk trailer, Victoria TX--	19
515.	2004	-- exposure to <b>excessive natural cold/hypothermia</b> ; 676 US deaths; TX	-- 21
516.	2004	-- exposure to <b>excessive natural heat</b> ; $\geq 335$ US deaths, subset for TX	-- 55
517.	2004	-- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; TX, 0.26	-- 58
518.	2004	-- Sep 20, <b>tractor-trailer</b> crosses median, hits pickup & SUV, ~Sherman TX	-- 10
519.	2005	-- exposure to <b>excessive natural cold/hypothermia</b> ; 700 US deaths; TX	-- 16
520.	2005	-- <b>excessive natural heat</b> , esp. Harris/34, Montgomery/13, Dimmit/12, counties, TX--	112
521.	2005	-- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.22 per 100K; TX, 0.28	-- 64
522.	2005	-- Mar 23, <b>explosion</b> , Texas City BP Refinery, Texas City, TX	-- 15
523.	2005	-- Sep 23-25, <b>Hurricane Rita</b> , (esp. Harris Co., mostly evacuation-related)	--105-118
524.	2006	-- exposure to <b>excessive natural cold/hypothermia</b> ; 519 US deaths; TX	-- 28
525.	2006	-- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; TX rate 0.32	-- 74
526.	2006	-- Mar 12, <b>wildfire</b> (fire/evac. accidents, 7 direct 5 indirect), Northeastern TX	-- 12
527.	2006	-- June-Aug esp., <b>heat</b> , esp. counties of Brooks (19), Dallas (22), Dimmit (16)	-- 106
528.	2007	-- exposure to <b>excessive natural cold/hypothermia</b> ; 711 US deaths; TX	-- 28
529.	2007	-- <b>tuberculosis</b> , death rate 0.184 per 100K; TX, 0.210	-- 50
530.	2007	-- exposure to <b>excessive natural heat</b> ; 582 US deaths, subset for TX	-- 29
531.	2007	-- Aug 16-18, <b>Tropical Storm Erin</b> , Lamar, TX landfall	--10-11
532.	2008	-- exposure to <b>excessive natural cold/hypothermia</b> ; 641 US deaths; TX	-- 19
533.	2008	-- exposure to <b>excessive natural heat</b> ; 502 US deaths, esp. Dallas County, TX--	66
534.	2008	-- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.19 per 100K; TX, 0.28	-- 69
535.	2008	-- Aug 08, chartered tour <b>bus crash</b> off Bridge, US Highway 75, Sherman, TX--	17
536.	2008	-- Sep 13, <b>Hurricane Ike</b> , esp. Galveston and Harris Counties, TX	--50-51
537.	2009	-- exposure to <b>excessive natural cold/hypothermia</b> ; 616 US deaths; TX	-- 17
538.	2009	-- exposure to <b>excessive natural heat</b> ; 555 US deaths, subset for TX	-- 79
539.	2009	-- <b>H1N1 swine flu</b> , especially fall/winter, (subset of >12,000 U.S. deaths)	-- 231
540.	2009	-- <b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.2 per 100K; TX rate 0.3--	65
541.	2009	-- Nov 05, violence, <b>mass killing</b> , Fort Hood, TX	-- 13
542.	2010	-- <b>influenza</b> , ICD-10 codes J09-J11; <sup>841</sup> US death rate 0.2 per 100K; TX, 0.3	-- 71
543.	2010	-- exposure to <b>excessive natural cold/hypothermia</b> ; 710 US deaths; TX	-- 30

<sup>841</sup> 500 US Flu deaths. ICD-10 code for 2010 influenza/pneumonia (J09-J18) has 50,097 deaths (death rate of 16.2).

## Texas (continued):

544.	2010 -- exposure to <b>excessive natural heat</b> ; 874 US deaths, subset for TX	--	94
545.	2010 -- <b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; TX, 0.3	--	66
546.	2010 -- <b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.4 per 100K; TX, 2.5	--	626
547.	2011 -- <b>excessive natural cold/hypothermia</b> ; 0.216 death rate; TX death rate 0.11	--	28
548.	2011 -- <b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.5 per 100K; TX, 2.6	--	677
549.	2011 -- Mar 08-Summer <b>heat</b> , esp. Dallas area; 1,060 US heat deaths; TX	--	183
550.	2012 -- exposure to <b>excessive natural cold/hypothermia</b> ; 501 US deaths; TX	--	14
551.	2012 -- exposure to <b>excessive natural heat</b> ; 879 US deaths; subset for TX	--	62
552.	2012 -- July 22, pickup <b>truck</b> with 23 illegals crashes, US Hwy. 59 ~Goliad, TX	--	14
553.	2013 -- exposure to <b>excessive natural cold/hypothermia</b> ; 725 US deaths; TX	--	18
554.	2013 -- exposure to <b>excessive natural heat</b> ; 651 US deaths, subset for TX	--	57
555.	2013 -- Apr 17, <b>explosion</b> , Adair Grain and West Fertilizer Co., West, TX	--	15
556.	2014 -- exposure to <b>excessive natural cold/hypothermia</b> ; 930 US deaths; TX	--	24
557.	2014 -- exposure to <b>excessive natural heat</b> ; 360 US heat-related deaths; subset TX	--	38
558.	2014 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 1.4 per 100,000; TX had 1.6--	418	
559.	2015 -- exposure to excessive natural <b>cold/hypothermia</b> ; 815 US deaths; TX	--	28
560.	2015 -- <b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.1 per 100K, TX, 0.2	--	61
561.	2015 -- Jan 14, TX Corrections Dept. prison <b>bus</b> skids off icy I-20, hits train ~Penwell, TX--	10	
562.	2015 -- May 21-26, storms, heavy rain, <b>flooding</b> , esp. Hays and Harris counties	--	30
563.	2015 -- exposure to <b>excessive natural heat</b> ; 567 US deaths; subset for TX	--	64
564.	2015 -- Dec 26, <b>tornadoes</b> , north TX, Blue Ridge, Copeville, and esp. Garland, TX	--	11
565.	2016 -- <b>HIV/AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; TX, 2.2	--	625
566.	2016 -- May 26-June 2, <b>flash flooding/flooding</b> , esp. Fort Hood (June 2), TX	--	16
567.	2016 -- exposure to <b>excessive natural cold/hypothermia</b> ; 731 US deaths; TX	--	19
568.	2016 -- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for TX	--	86
569.	2016 -- July 30, <b>hot air balloon</b> hits power lines/burns/crashes, near Lockhart TX	--	16
570.	2017 -- exposure to <b>excessive natural cold/hypothermia</b> ; 804 US deaths; TX	--	26
571.	2017 -- exposure to <b>excessive natural heat</b> ; 817 US deaths, subset for TX	--	40
572.	2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; TX death rate 2.20	--	622
573.	2017 -- <b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; TX 0.17--	49	
574.	2017 -- Mar 29, pickup <b>truck</b> hits church bus head-on, Hwy 83 ~Concan, TX	--	13
575.	2017 -- July 23, <b>migrants die</b> , hot semi-trailer in parking lot, San Antonio, TX	--	10
576.	2017 -- Aug 25-30, <b>Hurricane/tropical storm Harvey</b> , Southeast TX, esp. Houston--	≥88	
577.	2017 -- Nov 05, <b>mass shooting</b> , First Baptist Church, Sutherland Springs, TX	--	26
578.	2018 -- exposure to <b>excessive natural cold/hypothermia</b> ; 1,028 US deaths; TX	--	38
579.	2018 -- exposure to <b>excessive natural heat</b> ; 1,012 US deaths; subset for TX	--	89
580.	2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; TX death rate 1.99	--	570
581.	2018 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; TX 0.17--	50	
582.	2018 -- May 18, school <b>shooting</b> , Santa Fe High School, Santa Fe (~Houston), TX	--	10
583.	2019 -- <b>adenovirus</b> , ICD-10 code B34.0; 78 US deaths, TX subset <sup>842</sup>	--	10
584.	2019 -- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K; TX 1.37 <sup>843</sup>	--	396
585.	2019 -- exposure to <b>excessive natural cold/hypothermia</b> ; subset, 1,115 US deaths, TX--	48	

<sup>842</sup> Both the US and TX death rate was 0.02 per 100,000 population. No other State had as many as ten deaths.

<sup>843</sup> Second highest State loss of life behind CA with 560.

586.	2019 --	<b>excessive natural heat</b> ;	915 US deaths/death rate 0.27; TX 0.35	--	101
587.	2019 --	<b>HIV/AIDS</b> ;	5,054 US deaths/death rate of 1.54 per 100,000 pop.; TX rate 1.8--	523	
588.	2019 --	<b>tuberculosis</b> ;	526 US TB deaths; TX subset 2 <sup>nd</sup> highest, behind CA/112	--	54
589.	2019 --	June 30, <b>plane crash</b>	into AP hangar on takeoff, near no. Dallas, Addison, TX--	10	
590.	2019 --	Aug 3, white supremacist lone gunman <b>mass shooting</b> ,	Walmart, El Paso, TX--	22	
591.	2020 --	<b>excessive heat</b> ,	natural sources; 1,184 US deaths; subset for TX	--	85
592.	2020 --	<b>HIV</b> ;	ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; TX 1.7	--	503
593.	2020 --	<b>tuberculosis</b> ,	ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; TX 0.22--	66	
594.	2020 --	<b>COVID-19</b> ;	354,215 US Covid deaths (1,070 per 1M); TX, 973 per 1M pop.	--	28,227
595.	2021 --	<b>COVID-19</b> ;	437,984 US deaths/2.59K deaths per 1M pop.; TX rate 2.63K	--	7,916
596.	2021 --	exposure to excessive <b>natural cold</b> ;	1,179 US deaths/death rate 0.36; TX set--	98	
597.	2021 --	exposure to <b>excessive natural heat</b> ;	1,912 US heat deaths; subset for TX	--	92
598.	2021 --	<b>HIV/AIDS</b> ;	4,977 deaths/death rate 1.50 per 100K; TX death rate 1.82	--	537
599.	2021 --	<b>influenza</b> ;	608 US deaths/death rate 0.18; TX death rate 0.26	--	78
600.	2021 --	<b>tuberculosis</b> ,	ICD-10 codes A16-A19; 602 US deaths/death rate 0.18; TX 0.20--	58	
601.	2021 --	Feb 13-19, <b>winter storms and cold wave</b> ,	much of U.S. $\geq$ 175; TX	--	$\geq$ 123
602.	2021 --	Nov 5, <b>crushing/trampling</b> ,	Travis Scott Astroworld festival concert, Houston TX--	10	
603.	2022 --	exposure to <b>excessive natural heat</b> ;	2,159 US deaths; subset for TX	--	203
604.	2022 --	May 24, Robb Elementary <b>School shooting</b>	(19 students 2 teachers killed) Uvalde TX-21		
605.	2022 --	June 27, tractor trailer found with <b>dead/dying migrants</b>	inside, San Antonio TX--	53	
606.	2022 --	<b>COVID-19</b> ;	217,370 US deaths/death rate 6.50; TX death rate 5.58	--	16,187
607.	2023 --	<b>COVID-19</b> ,	subset of 71,691 US deaths	--	3,228
608.	2023 --	exposure to <b>excessive natural heat</b> ;	2,155 US deaths, subset for TX	--	440

#### Some Select Other/Notable **Texas** Other Large Loss-of-Life Events:<sup>844</sup>

1801-02 --	<b>smallpox</b> ,	Native Americans <sup>845</sup>	--	?
1850 --	<b>croup</b> ;	subset, 10,706 deaths/36 States/DC/Territories, and 8,057 TX deaths	--	90
1850 --	<b>scarlet fever</b> ;	subset 9,584 such deaths 36 States/Territories/DC (avg. 266)	--	89
1850 --	<b>smallpox</b> ;	subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	--	22
1850 --	<b>tuberculosis</b> ;	subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	--	112
1850 --	<b>whooping cough</b> ,	subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	--	49
1860 --	<b>croup</b>	(contagious upper airway viral infection), TX subset, 15,188 US deaths	--	298
1860 --	<b>scarlet fever</b>	(TX subset of 26,402 deaths in 38 Census States & DC)	--	221
1860 --	<b>whooping cough</b>	(TX subset of 8,408 whooping cough deaths nationwide)	--	154
1870 --	<b>tuberculosis</b>	(consumption) (TX subset of ~70,000 TB deaths nationwide)	--	680
1870 --	<b>typhoid fever</b>	(TX subset of 22,187 typhoid fever deaths nationwide)	--	464
1870 --	<b>typhus</b>	(TX subset of 1,770 typhus deaths nationwide)	--	16
1870 --	<b>whooping cough</b>	(TX subset of 9,008 whooping cough deaths nationwide)	--	207
1870 --	May-Dec, <b>yellow fever</b> ,	especially DeWitt County/6, Galveston/?, Houston/1	--	$\geq$ 7
1872 --	<b>yellow fever</b> ,	Galveston, TX	--	10

<sup>844</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>845</sup> Have not seen estimate of death toll, only that smallpox spread from the east westward, specifically noting the Caddo tribe of east Texas. Smallpox death rates among Native populations could reach 30-50%. Deaths could have been in the hundreds, if not many hundreds.



**Texas (continued):**

1879 -- June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	-- 223
1879 -- June-May 1880, <b>meningitis</b> (TX subset of 7,481 meningitis deaths nationwide)	-- 107
1879 -- June-May 1880, <b>scarlet fever</b> , esp. children (TX subset, 16,388 U.S. S.F. deaths)	-- 83
1879 -- June-May 1880, <b>tuberculosis</b> ; 91,270 US deaths; TX	--1,602
1889-90 -- June 1-May 31, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; TX	-- 165
1890 -- Jan, <b>influenza</b> (La Grippe/Russian Flu), San Antonio, TX	-- 75
1898 -- <b>typhoid fever</b> (TX subset of >4,627 deaths), Dallas and 1 <sup>st</sup> and 2 <sup>nd</sup> TX Vols.	-- 34
1907 -- <b>tuberculosis</b> ; 76,650 US deaths; subset for Galveston (77) and San Antonio (264)	-- 469
1907 -- <b>typhoid fever</b> , Galveston/15, San Antonio/43; ~13K US Census-area TX deaths	-- 58
1908 -- Apr 23, <b>tornadoes</b> (3), Lamar, Red River, Rice and Wood counties	-- 8
1909 -- May 17, <b>hailstorm</b> , near Uvalde, TX	-- 1
1910 -- <b>typhoid fever</b> ; subset, 12,673 US deaths/21 states; Galveston/12, San Antonio/49	-- 61
1911 -- Oct, <b>tuberculosis</b> , TX	-- 256
1912 -- Jan, <b>tuberculosis</b> , TX	-- 303
1912 -- Oct 30, <b>fire</b> , St. John's Orphanage, San Antonio, TX	-- 7-8
1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; 3 cities TX rate 9.8	-- 20
1916 -- Mar 26, <b>fire</b> , San Antonio Country Club, San Antonio, TX	-- 6
1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; several cities	-- 131
1931 -- <b>diphtheria</b> , Dallas, El Paso, Fort Worth, Houston, San Antonio, TX (5,735 in US)	-- 72
1931 -- <b>influenza</b> , Dallas, El Paso, Fort Worth, Houston, San Antonio (31,701 US deaths)	-- 382
1931 -- <b>whooping cough</b> , 4,619 US deaths; Dallas/15, Fort Worth/5, Houston/9, San Ant.	-- 35
1937 -- Oct 06-Oct 20, <b>Elixir Sulfanilamide</b> medicine unintentional <b>poisoning</b> , TX	-- 7-9
1945 -- Mar 13, <b>USAAF C-47</b> flew into terrain in thunderstorm, 35M SW of George West TX	--6
1945 -- June 12, <b>USAAF B-29 crash</b> after takeoff 10 miles northeast of Randolph Field, TX	-- 7
1945 -- Aug 09, <b>USAAF AT-7C Navigator</b> from Foster Field, crash 6M no. of Smiley, TX	-- all 6
1945 -- Dec 18, <b>Coast Guard PBY-5A</b> Catalina engine loss and spin down to crash ~Ft. Worth	--7
1947 -- Dec 2, private <b>Beechcraft D17 runs out of fuel</b> , crashes in ravine near Goodnight TX	--5
1948 -- Dec 22, private <b>Stinson 108</b> , runs out of fuel/hits power lines/crashes, Orange Grove, TX	--5
1949 -- Mar 12, <b>smallpox</b> , Elsa, TX	-- 1
1949 -- Sep 15, two propellers switch to reverse thrust on <b>USAF B-36</b> takeoff/crash, Lake Worth, TX	--5
1949 -- Oct 23, <b>USAF TB-26C Invader crash</b> 20 miles southeast of Midland, TX	-- all 5
1950 -- Feb 11-12, <b>tornadoes</b> , Harris, Cass and Bowie counties on 11 <sup>th</sup> , Polk, Shelby, 12 <sup>th</sup>	-- 8
1950 -- Oct 19, <b>USAF B-29 Superfortress bomber plunges to ground</b> near Seguin, TX	-- 8
1952 -- <b>measles</b> , 621 US deaths; 24 states double digits; subset for TX	-- 20
1952 -- <b>typhoid fever</b> (code 040); 79 US deaths; subset for TX	-- 7
1953 -- <b>malaria</b> , 33 deaths in US (one to three deaths in 16 States, 9 in Texas)	-- 9
1953 -- <b>smallpox</b> , Texas	-- 1
1953 -- <b>typhoid fever</b> , <i>Vital Statistics-Mortality 1953</i> ; 53 IS deaths, esp. TX/8 and AR/7	-- 8
1953 -- Apr 29, <b>lightning</b> hits oil tank, explosion, nearby homes catch <b>fire</b> , Kilgore, TX	-- 5
1953 -- Dec 11, <b>USAF Consolidated B-36</b> CF flies into Mount Franklin near El Paso, TX	-- all 9
1957 -- Dec 09, USN P5M Marlin <b>Seaplane</b> engine explosion/ <b>crash</b> near Corpus Christi, TX	-- 9
1958 -- <b>diphtheria</b> ; 74 US deaths; TX subset (2 <sup>nd</sup> highest in US behind GA (9))	-- 8
1960 -- Dec 07-10, <b>snow and ice storms</b> , TX	-- 9
1961 -- <b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; TX death rate 1.0	-- 96

**Texas (continued):**

1961 --	<b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; TX death rate 0.2	--	21
1962 --	<b>diphtheria</b> , 41 US deaths, especially Texas	--	9
1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; TX death rate 1.6	--	156
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; TX death rate 5.0	--	506
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; TX death rate 3.4	--	346
1963 --	<b>tuberculosis</b> ; 9,311 US deaths; death rate 4.9 per 100K pop.; TX death rate 4.9	--	506
1963 --	Jan 09-14, <b>cold wave</b> , exposure and fire deaths (subset of 81-92 US deaths); TX	--	6
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9; TX death rate 0.9	--	91
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; TX death rate 4.1	--	436
1966 --	<b>diphtheria</b> , 20 US deaths, especially TX (6)	--	6
1966 --	<b>whooping cough</b> , subset of US 49, esp. West South Central (18), especially TX (9)--		9
1968 --	<b>chickenpox</b> ; ICD-8 code 052; 99 US polio deaths; TX	--	9
1968 --	<b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; TX 3.4	--	366
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; TX death rate 2.94	--	319
1969 --	<b>diphtheria</b> (ICD-8 code 032), 25 US deaths, TX	--	8
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 deaths/death rate 2.96 per 100K; TX 2.42	--	268
1969 --	<b>polio</b> ; ICD-8 codes 040-044; 110 US deaths; TX	--	7
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; TX death rate 2.76	--	305
1970 --	<b>chickenpox</b> ; ICD-8 code 052; 93 US deaths, TX	--	9
1970 --	<b>diphtheria</b> (ICD-8 code 032); 30 US deaths, TX	--	6
1970 --	<b>rubella</b> (German measles), ICD-8 code 056, 31 US deaths, especially TX/6	--	6
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; TX 2.47	--	277
1971 --	<b>chickenpox</b> ; ICD-8 code 052; 98 US deaths; TX	--	9
1971 --	excessive natural <b>heat</b> , ICD-8 code E900, 112 US deaths; TX	--	8
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; TX 0.5	--	57
1971 --	<b>measles</b> /rubeola; ICD-8 code 055; 90 US deaths; TX	--	8
1971 --	<b>polio</b> ; ICD-8 codes 040-044; 108 US deaths; TX	--	8
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; TX death rate 2.08	--	240
1973 --	<b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; TX rate 1.95	--	234
1973 --	<b>polio</b> ; ICD-8 codes 040-044; 93 US polio deaths; TX	--	6
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; TX death rate 1.84	--	221
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; TX/0.88	--	108
1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; TX rate 1.65	--	203
1975 --	<b>chickenpox</b> (Varicella); 83 US deaths/death rate 0.039 per 100K; TX rate 0.048	--	6
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; TX rate 1.61	--	202
1975 --	<b>measles</b> /rubeola; ICD-8 code 055; 20 US deaths/death rate 0.009 per 100K; TX, 0.024	--	3
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; TX death rate 1.42	--	178
1975 --	<b>whooping cough</b> (pertussis; ICD-8 code 033.0); 8 US deaths/death rate 0.004; TX--		1
1976 --	<b>chickenpox</b> ; 106 US chickenpox deaths/death rate 0.05 per 100K; TX rate 0.07	--	9
1976 --	May 11, HAZMAT (ammonia) <b>truck</b> hits I-610 ramp, falls onto Freeway, Houston, TX--		6
1977 --	<b>chickenpox</b> , 89 US chickenpox deaths/death rate 0.04 per 100K, TX, 0.06	--	8
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; TX, 0.51	--	68
1977 --	<b>polio</b> (acute Poliomyelitis); 100 polio deaths/death rate 0.05 per 100K; TX, 0.05	--	7
1978 --	<b>chickenpox</b> , 91 US chickenpox deaths/death rate 0.04 per 100K, TX, 0.06	--	8

**Texas (continued):**

1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; TX, 1.58	--	213
1978 --	<b>polio</b> (acute poliomyelitis, ICD-8 codes 040-045), death rate 0.04 per 100K, TX, 0.04--		6
1979 --	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; TX, 0.21	--	29
1979 --	<b>chickenpox</b> , 103 US chickenpox deaths/death rate 0.05 per 100K, TX, 0.06	--	8
1979 --	<b>tuberculosis</b> , 2,007 US TB deaths/death rate 0.89 per 100K; TX, 0.77	--	107
1980 --	<b>chickenpox</b> , 78 US chickenpox deaths/death rate 0.03 per 100K; TX, 0.06	--	8
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, TX, 0.49	--	70
1980 --	<b>tuberculosis</b> ; 1,978 US TB deaths/death rate 0.87 per 100K; TX, 0.74	--	105
1980 --	Aug 6-10, <b>Hurricane Allen</b> , south Texas coastal area (Galveston, Corpus Christi)--		7
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, TX, 0.89	--	132
1982 --	<b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, TX, 0.20	--	30
1982 --	<b>tuberculosis</b> , 1,807 US TB deaths/death rate 0.78 per 100K, TX, 0.76	--	117
1983 --	<b>chickenpox</b> , 57 US chickenpox deaths, death rate 0.02 per 100K, TX rate 0.03	--	5
1983 --	<b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, TX rate 0.42	--	67
1984 --	<b>chickenpox</b> , 53 US chickenpox deaths, death rate 0.02 per 100K, TX rate 0.04	--	7
1985 --	<b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, TX death rate 0.47	--	77
1985 --	<b>tuberculosis</b> , 1,752 US TB deaths, death rate 0.74 per 100K; TX rate 0.70	--	114
1985 --	Jan 12-13, West and South-Central <b>snowstorm</b> , TX	--	5
1985 --	Jan 19-23, <b>winter weather, exposure/hypothermia</b> , TX	--	2-8
1985 --	Dec 31, <b>plane fire/crash</b> (Ricky Nelson), Century Equip. C-47, ~DeKalb, TX	--	7
1986 --	<b>chickenpox</b> ; 47 US deaths, death rate 0.02 per 100K population; TX rate 0.04	--	7
1986 --	<b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K population: TX, 0.34	--	56
1986 --	<b>measles</b> (ICD-9 056 (rubella) code; subset of 3 US measles deaths in 1986)	--	1
1986 --	Apr 4, IAI <b>Westwind II plane upset</b> by thunderstorm turbulence/crash, Redwater TX--		7
1987 --	<b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K population; TX, 0.25	--	42
1988 --	<b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K population; TX, 0.74	--	123
1988 --	<b>meningococcal meningitis</b> ; 87 US deaths/death rate 0.04 per 100K; TX, 0.05	--	8
1988 --	<b>tuberculosis</b> , 1,921 US TB deaths, death rate 0.78 per 100K pop.; TX, 0.76	--	127
1989 --	<b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K population; TX, 0.52	--	88
1989 --	<b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K pop.; TX rate 0.77	--	130
1989 --	Dec 22-24, <b>cold wave</b> (hypothermia and weather-related fire deaths), TX	--	6
1989 --	Oct 06, <b>Westchester Air Cessna Caravan hits tree</b> just after takeoff, Uncertain, TX--		5
1990 --	Feb 14, <b>Williams Aviation Co. Marquise plane crash</b> (icing and pilot error) ~Putnam TX-5		
1990 --	Nov 8, <b>GT Contractors Piper landing approach crash</b> , adverse weather, Nacogdoches TX-5		
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate of 0.45 per 100K pop.; TX rate 0.29	--	51
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate of 0.68 per 100K pop., TX rate 0.61--		103
1991 --	Feb 15, <b>Piper PA-32-300 takeoff crash</b> (drugs, insufficient airspeed), Falfurrias, TX--		5
1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K population, TX, 0.21	--	37
1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate of 0.66 per 100K pop.; TX rate 0.61--		103
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate of 0.40 per 100K pop.; TX rate 0.24	--	43
1994 --	Jan 02, <b>homebuilt Hawk and Cessna collide while landing</b> at AP, Pearland, TX--		all 5
1995 --	<b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K pop., TX rate 0.137	--	26
1995 --	Feb 09, <b>private Piper crashes</b> .5M short of runway at night in fog, Conroe, TX	--	5
1995 --	Apr 24, <b>Army Chinook helicopter crash, post-maintenance test flight</b> , Fort Hood TX--		5

## Texas (continued):

1995 -- Sep 28, <b>American Airpower Museum Marauder too-slow flight stall/spin</b> , Odessa, TX--	5
1996 -- <b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; TX rate 0.171--	33
1997 -- <b>influenza</b> , code 487.0; US death rate 0.264 per 100K (720 US deaths); TX, 0.137--	27
1998 -- <b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K pop.; TX, 0.15	-- 31
1999 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K pop; TX, 0.277 --	57
2000 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; TX, 0.470	-- 98
2000 -- Mar 29, <b>hailstorm</b> , man hit in head by softball-sized hail, Fort Worth, TX	-- 1
2001 -- Sep 15, <b>Queen Isabella Causeway collapse</b> , Port Isabel, TX	-- 8
2002 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; TX, 0.166	-- 36
2003 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; TX, 0.403	-- 96
2003 -- Feb 01, <b>Columbia Space Shuttle re-entry break-up</b> over TX	-- 7
2004 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.376 per 100K; TX 0.125	-- 28
2004 -- June 28, Union Pacific <b>train crash</b> , fatal chlorine release, Macdona, TX	-- 3
2005 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; TX, 0.277	-- 63
2006 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; TX, 0.253	-- 59
2007 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.14 per 100K; TX, 0.12	-- 28
2007 -- Jan 12-15, <b>ice and winter storm</b> , TX (subset of 69 deaths in 9 States)	-- 7
2008 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.57 per 100K; TX, 0.41	-- 100
2009 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.9 per 100K; TX 0.7	-- 173
2009 -- <b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); TX, 0.5	-- 133
2009 -- Jan 26-28, <b>ice and snow storms</b> , TX (subset of 91 deaths in 12 States)	-- 7
2010 -- <b>diarrhoea &amp; gastroenteritis</b> of infectious origin, US death rate 0.9 per 100K, TX 0.7--	168
2011 -- <b>diarrhoea &amp; gastroenteritis</b> of Infections Origin, US death rate 0.9 per 100K, TX 0.6	-- 153
2011 -- <b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; TX rate 0.4	-- 103
2011 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100K, TX rate 0.2	-- 58
2012 -- <b>diarrhoea/gastroenteritis</b> of infectious origin, US death rate 0.8 per 100K, TX 0.6	-- 153
2012 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; TX rate 0.2	-- 49
2012 -- <b>tuberculosis</b> , ICD-10 code A16-A19; US and TX death rate was 0.2 per 100,000	-- 63
2012 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100K; TX rate 2.5	-- 643
2013 -- <b>diarrhoea &amp; gastroenteritis</b> of infectious origin; US death rate 0.8; TX, 0.7	-- 193
2013 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100K; TX rate 2.4	-- 636
2013 -- <b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; TX rate 1.0	-- 273
2013 -- <b>tuberculosis</b> , ICD-10 code A16-A19, US and TX death rate was 0.2 per 100,000	-- 61
2014 -- <b>diarrhoea/gastroenteritis</b> of infectious origin, US death rate 0.8 per 100K, TX 0.6	-- 155
2014 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; TX rate 2.3	-- 619
2014 -- <b>tuberculosis</b> , ICD-10 code A16-A19; US, and TX, death rate 0.2 per 100,000	-- 49
2014 -- Feb 11, <b>winter weather, vehicular accidents</b> , Dallas, Tom Green Co., elsewhere	-- 7
2015 -- <b>diarrhoea/gastroenteritis</b> of infectious origin, US death rate 0.8 per 100K, TX, 0.6	-- 152
2015 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100,000; TX rate 0.9	-- 252
2015 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; TX rate 2.3	-- 642
2015 -- May 17, violence, biker-gangs/police <b>shoot-out</b> , Twin Peaks Restaurant, Waco	-- 9
2016 -- <b>diarrhoea/gastroenteritis</b> of infectious origin, US death rate 0.7 per 100K, TX 0.6	-- 159
2016 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.9 per 100,000; TX rate 0.4	-- 119
2016 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; US death rate 0.2 per 100K, TX rate 0.2	-- 55



2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; TX rate 2.0	--	549
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; TX death rate 1.40	--	395
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., TX death rate 2.52	--	722
2018 --	Jan 17, <b>deep freeze</b> , exposure/hypothermia, Dallas and Houston areas, TX	--	5
2019 --	Aug 31, <b>shooting</b> rampage (7 killed by shooter), Midland-Odessa area, TX	--	8
2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; TX death rate 1.32	--	387
2021 --	Feb 10-11, <b>winter snow/ice</b> , road accidents/deaths, esp. Dallas-Ft. Worth TX	--	9
2023 --	May 6, <b>mass shooting</b> , Allen Premium Outlets Mall, Allen, TX (includes gunman)--		9
2023 --	May 7, <b>SUV</b> driven into 18 migrant pedestrians at a bus-stop, Brownsville, TX	--	8

### Breakout by Type of **Texas** Large Loss-of-Life Events (10 or more fatalities):

- 255 **Disease**, especially communicable, especially epidemics. (Plus 147 in “Other.”)
- 60 **Heat**. (Additionally there were 8 deaths in 1971.)
- 56 **Winter Weather, Cold, Hypothermia**. (Plus 10 events 5-9 deaths.)
- 44 **Aviation**. (Plus 22 events noted with 5-9 deaths each.)
- 41 **Tornadoes**. (Plus two noted with 8 deaths each in 1908 and 1950.)
- 40 **Hurricanes and Tropical Storms**. (Plus one with 7 fatalities in “Other.”)
- 27 **Violence**. (Plus 3, 8-9 deaths: 9 deaths in 2015 and 2023, and 8 in 2019.)
- 26 **Flooding and Flash Flooding**.
- 20 **Maritime/In-Land Water Craft**.
- 17 **Road/Highway – Vehicular**. (Includes a Flash Flood cross-listing; plus one with 8 deaths.)
- 11 **Explosions, facilities/pipelines**.<sup>846</sup>
- 9 **Rail**. (Plus one Hazardous Material accident with 3 deaths in “Other.”)
- 8 **Fire-Structural**. (Plus two -- one with 7-8 and one with 6 fatalities in “Other.”)
- 4 **Structural Failures**.
- 4 **Wind Storms/Severe Thunderstorms**. (Two are cross-listed – flooding, tornado.)
- 1 **Wildfire/Forest Fire/Prairie Fire**.
- 0 **Hail**. (Two hailstorms >10 deaths: 1 death in 1909, 1 death 3-39-2000, Fort Worth.)
- 0 **Lightning** (But 5 deaths from fires started by lightning strike 4-29-1953.)
- 0 **Poisoning (unintentional)**. (7-9 Elixir Sulfanilamide medicine poisoning deaths in 1937.)

<sup>846</sup> The ammonium nitrate explosion on the *Grandcamp* is cross-listed here and in Maritime events because it was docked at a pier and led to large loss of life on shore. Other cross-listings are within Aviation, Maritime and Rail.

## UT

## Utah

1. 1849 -- summer-autumn, **cholera**, UT -- 76
2. 1857 -- Sep 11, Mt. Meadows **massacre**, Mormons/Paiutes attack Wagon Train, UT--120-140  
1863 -- Jan 29, US Army massacre Shoshone, camp on Bear Riv., Utah Terr., (ID) --250-493
3. 1867 -- **avalanche**, mining camps, Wasatch Range, Alta, UT --60-65
4. 1870 -- **diarrhoea** (46), **dysentery** (4), **enteritis** (52); U.S. Census data -- 102
5. 1879 -- June-May 1880, **typhoid fever** (UT subset of 23,339 U.S. Typhoid deaths) -- 55
6. 1883 -- Jan 30, **avalanche**, American Fork Canyon, UT -- 10
7. 1884 -- Mar 07, **avalanche**, New Emma Mine, Alta, Little Cottonwood, UT -- 12
8. 1885 -- Feb 13, **avalanche**, Alta, UT -- 30
9. 1889-90, June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths -- 95
10. 1900 -- **typhoid fever** (UT subset of 35,379 typhoid fever deaths nationwide) -- 73
11. 1900 -- May 01, powder / dust explosions, Winter Quarters 1 & 4 coal **mine**, Scofield UT -- ~231
12. 1902 -- July 15, Daly-West lead/silver **mine** explosion/asphyxiations, Park City, UT -- 34
13. 1907 -- **typhoid fever**, Salt Lake City (subset of ~13,000 deaths nationwide) -- 58
14. 1910 -- **typhoid fever**; subset, 12,673 US deaths/21 states/death rate 23.5; UT, 37.0 -- 139
15. 1910 -- June 01, **quarry** explosion, Union Limestone Quarry, Devils Slide, UT -- 25
16. 1913 -- **measles**, 8,108 US “registration area” (65.1%) deaths; UT<sup>847</sup> -- 128
17. 1914 -- Sep 17, **mine** cave-in, Centennial-Eureka Gold Mine, Eureka, UT -- 11
18. 1918-1919 -- **influenza and pneumonia** epidemic, UT --2,859-3,313  
1918 -- **influenza and pneumonia** epidemic, UT --1,828-2,282  
1919 -- **influenza and pneumonia** epidemic, UT --1,031
19. 1920 -- **influenza and pneumonia**, UT -- 414
20. 1920 -- **smallpox** (UT subset of 508 smallpox deaths reported in 34 registration states)-- 13
21. 1920 -- **whooping cough** (subset, 10,968 whooping cough deaths, 34 reg. states)<sup>848</sup> -- 112
22. 1921 -- June 12, **lightning**, gasoline storage tank **explosion**, Salt Lake City, UT -- 15
23. 1924 -- Mar 08, Castle Gate #2 coal **mine** gas & dust explosions, Castle Gate, UT -- 172
24. 1925 -- **meningococcus meningitis** (UT subset, 1,095 US meningitis deaths) -- 27
25. 1926 -- Feb 17, **avalanche**, Sap Gulch, Bingham, UT --39-40
26. 1930 -- Feb 06, **mine** explosion, Standard Coal Mine, Standardville, UT -- 23
27. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; UT, 5.5 -- 28
28. 1937 -- Oct 17, **United Airlines 1 Transport plane crash**, Humpy Ridge, UT -- 19
29. 1938 -- Dec 01, RR crossing crash, **train** hits Jordan High **school bus**, Midvale, UT -- 26
30. 1940 -- Nov 04, **United Air NC16086 plane crash**, Centerville, UT -- 10
31. 1942 -- May 01, **United Air NC18146 plane crash**, Salt Lake City, UT -- 17
32. 1942 -- Dec 15, **Western Airlines NC16060 plane crash**, Fairfield, UT -- 17
33. 1943 -- Aug 29, **USAAF B-24E plane crash**, near Wendover Field, UT -- 10
34. 1943 -- Dec 29, **two USAAF B-24’s collide**, Box Elder Ct., near Lakeside, UT -- 25
35. 1944 -- Dec 31, **fog, Southern Pacific mail-express hits passenger train**, ~Bagley, UT-- 48
36. 1945 -- May 09, Sunnyside No. 1 coal **mine** methane explosion, Sunnyside, UT -- 23
37. 1947 -- Oct 24, **United 608 fire and emer. lndg. attempt crash** ~Bryce Canyon AP, UT--52
38. 1951 -- **polio**, especially July-Nov, UT (1,551-1,555 polio deaths nationwide) -- 43
39. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K)<sup>849</sup> -- 218

<sup>847</sup> At 31.6 deaths per 100,000 population, UT had highest death rate in US “registration area,” which had 12.08.

<sup>848</sup> At 24.7 deaths per 100K pop., UT had 2<sup>nd</sup> highest death rate for whooping cough. CO had 26.4; avg. was 12.5.

**Utah (continued):**

40. 1963 -- June 10, brakes fail, **truck** with Boy Scouts goes off hill ~Hole-in-the-Rock, UT-- 13
41. 1963 -- Aug 27, Texas Gulf Sulphur Co., Potash **Mine** gas explosion, near Moab, UT -- 18
42. 1965 -- **influenza**, 2,295 US deaths/death rate 1.2 per 100K; UT death rate 1.4 -- 14
43. 1965 -- Nov 11, **United 227 plane crash on approach**, Salt Lake City Airport, UT -- 43
44. 1965 -- Nov 27, **Edde Airlines** flies into rising terrain after takeoff in snow, Salt Lake City, UT-13
45. 1971 -- **influenza**, ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; UT 1.7-- 19
46. 1975 -- **influenza**, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; UT, 2.9-- 36
47. 1976 -- **influenza**; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; UT 4.1-- 52
48. 1980 -- Dec 18, **fire**, Avalon apartment building, Salt Lake City, UT -- 12
49. 1982 -- **influenza**, 727 US flu deaths/death rate 0.31 per 100K, UT, 0.64 -- 10
50. 1984 -- Dec 19, **mine fire**, Emery Mining, Wilberg Mine Orangeville, UT -- 27
51. 1985 -- **influenza**, 2,054 US flu deaths, death rate 0.86 per 100K, UT, 0.97 -- 16
52. 1986 -- **influenza**; 1,838 US flu deaths; death rate 0.76 per 100K: UT, 0.84 -- 14
53. 1987 -- Jan 15, **Sky West N163SW plane crash**, Salt Lake City, UT -- 10
54. 1989 -- **influenza**, 1,593 US flu deaths, death rate 0.64 per 100K; UT, 1.17 -- 20
55. 1990 -- **influenza**, 2,098 US flu deaths; death rate 0.84 per 100K; UT, 1.10 -- 19
56. 1992 -- Oct 29, **USAF Pave Hawk helicopter crash** ~Antelope Island, Great Salt Lake UT--12
57. 2006 -- exposure to excessive natural **cold/hypothermia**; 519 US deaths; UT -- 13
58. 2006 -- **influenza**, ICD-10 codes J09-11; US death rate 0.285 per 100K; UT, 0.436 -- 11
59. 2007 -- exposure to excessive natural **cold/hypothermia**; 711 US deaths; UT -- 10
60. 2008 -- exposure to excessive natural **cold/hypothermia**; 641 US deaths; UT -- 11
61. 2008 -- **influenza**, ICD-10 codes J09-11; US death rate 0.57 per 100K; UT, 0.79 -- 21
62. 2008 -- Aug 22, **Red Canyon Aesthetics & Medical Spa plane crash**, near Moab, UT-- 10
63. 2009 -- exposure to excessive natural **cold/hypothermia**; 616 US deaths; UT -- 10
64. 2009 -- **influenza (avian)**, ICD-10 code J09 (US death rate 0.5 per 100K); UT, 0.7 -- 20
65. 2009 -- **H1N1 "Swine" Flu**, especially fall/winter, (subset of >12,000 U.S. deaths) -- 48
66. 2011 -- exposure to excessive natural **cold/hypothermia**; 0.216 death rate; UT, 0.39 -- 11
67. 2012 -- exposure to excessive natural **cold/hypothermia**; 501 US deaths; UT -- 11
68. 2013 -- exposure to excessive natural **cold/hypothermia**; 725 US deaths; UT -- 11
69. 2013 -- **influenza**, ICD-10 codes J09-J11; US death rate 1.2 per 100,000; UT rate 1.5 -- 43
70. 2015 -- exposure to excessive natural **cold/hypothermia**, 815 US deaths; UT -- 12
71. 2015 -- Sep 14, **flash flood**; Hildale & Keyhole Canyon, Zion National Park, UT -- 21
72. 2016 -- exposure to excessive natural **cold/hypothermia**; 731 US deaths; UT -- 10
73. 2016 -- **influenza**, ICD-10 codes J09-11; US death rate 0.9 per 100,000; UT rate 1.4 -- 47
74. 2019 -- **influenza**; subset of 5,902 US deaths, 1.08 death rate per 100K, UT rate 1.68 -- 54
75. 2020 -- **COVID-19**; 354,215 US Covid deaths (1,070 per 1M); UT 396 per 1M pop. --1,269
76. 2021 -- **COVID-19**; 437,984 US deaths/2.6K deaths per 1M pop.; UT, 2.4K per M --2,418
77. 2022 -- **COVID-19**; 217,370 US deaths/death rate 6.50; UT death rate 4.68 --1,500

<sup>849</sup> "...in early September...New Mexico, Utah, and Arizona suffered explosive school and community outbreaks." (Communicable Disease Center. *Asian Influenza 1957-1960*. 1960, p. 13.)

Some Select/Notable Other **Utah** Large Loss-of-Life Events:<sup>850</sup>

1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	--	23
1870 --	<b>tuberculosis</b> (Consumption) (Utah subset of ~70,000 TB deaths nationwide)	--	63
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	71
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	737
1879 --	June-May 1880, <b>measles</b> , especially children, UT subset, 8,254 US measles deaths--		24
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (UT subset, 16,388 U.S. S.F. deaths)	--	25
1881 --	<b>diphtheria</b> , Salt Lake City	--	47
1889 --	June-May 1890, <b>croup</b> , subset of 13,862 U.S. croup deaths	--	80
1889 --	June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; UT	--	212
1897 --	<b>typhoid fever</b> , subset of ≥9,192 US typhoid deaths; Salt Lake City, UT	--	25
1900 --	<b>croup</b> (upper airway contagious viral infection; UT subset 12,484 US croup deaths)--		21
1900 --	<b>diphtheria</b> (UT subset of 16,475 US diphtheria deaths in 1900)	--	26
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths)	--	35
1900 --	<b>measles</b> (subset of 12,866 US measles deaths)	--	15
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths)	--	59
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	62
1900 --	<b>tuberculosis</b> (3,079 UT deaths all causes) (109,750 US TB deaths)	--	143
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	--	61
1906 --	Jan 20, <b>avalanche</b> , Alta Mining Camp, Salt Lake, UT	--	7
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; UT rate 2.9	--	12
1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; UT, 10.1	--	45
1918 --	<b>typhoid fever</b> (UT subset of 9,100 U.S. Typhoid Fever deaths)	--	39
1920 --	<b>diphtheria and croup</b> (subset of 13,395 deaths in 34 registration states); UT	--	33
1920 --	<b>measles</b> (UT subset of 7,712 measles deaths in 34 registration states)	--	16
1920 --	<b>scarlet fever</b> (UT subset of 4,004 scarlet fever deaths in 34 registration states)	--	7
1920 --	<b>typhoid fever</b> (UT subset of 6,805 typhoid fever deaths, 34 registration states)	--	31
1925 --	<b>diphtheria</b> (UT subset, 8,058 US diphtheria deaths)	--	49
1925 --	<b>influenza</b> (UT subset, 30,538 US influenza deaths)	--	128
1925 --	<b>tuberculosis</b> (UT subset, 89,268 US tuberculosis deaths)	--	149
1925 --	<b>typhoid/paratyphoid fever</b> (subset of 8,287 US typhoid fever deaths); UT	--	26
1925 --	<b>whooping cough</b> (UT subset, 6,948 US whooping cough deaths)	--	35
1927 --	<b>polio</b> (acute) esp. late Summer and Fall (UT subset, 2,013 U.S. polio deaths)	--	22
1931 --	<b>epidemic cerebrospinal meningitis</b> (subset of 2,832 US meningitis deaths); UT	--	51
1931 --	<b>influenza</b> (UT subset of 31,701 influenza deaths nationwide)	--	105
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); UT death rate 7.2	--	27
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, UT, 2.0	--	11
1944 --	<b>cerebrospinal meningitis</b> , subset of 2,812 US cerebrospinal meningitis deaths; UT--		16
1944 --	Feb 07, <b>USAAF Consolidated B24plane crash</b> , 8 miles NW Wendover Field, UT--		9
1945 --	July 08, <b>U.S. Army guard machine-guns</b> sleeping German POWs, Salina, UT	--	9
1948 --	<b>polio</b> , July-Nov especially; 1,895 US polio deaths; subset for UT	--	12
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths for UT	--	9
1949 --	Mar 05, <b>USAF Beechcraft T-7 crash</b> into mountains side neat Great Salt Lake, UT--all		5

<sup>850</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.



**Utah (continued):**

1949 -- Oct 10, <b>USAF B-17 crash</b> near Hill, UT	--	5
1950 -- <b>measles</b> ; subset of 468 US polio deaths for UT	--	6
1950 -- July 16, U.S. and Lark <b>Mine</b> (lead-zinc) and smelting refining co. <b>fire</b> , Lark, UT	--	5
1951 -- <b>tuberculosis</b> , 31,163 US deaths, subset for UT	--	58
1952 -- <b>influenza</b> ; 5,649 US deaths; subset for UT	--	14
1952 -- <b>polio</b> , esp. children, esp. Salt Lake City, UT; subset of ~3,300 US polio deaths	--	21
1952 -- <b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for UT	--	39
1953 -- <b>influenza</b> ; 9,500 US deaths; UT subset	--	19
1953 -- <b>polio</b> ; 1,450 US polio deaths; subset for UT	--	12
1953 -- <b>tuberculosis</b> (respiratory); 17,954 US deaths; UT subset	--	32
1954 -- <b>tuberculosis</b> (respiratory); 15,146 US deaths; UT subset	--	27
1955 -- <b>tuberculosis</b> (respiratory); 13,676 US TB deaths; UT subset	--	29
1956 -- <b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; UT subset	--	30
1957 -- <b>influenza</b> ; 7,463 US deaths; UT subset	--	37
1957 -- <b>tuberculosis</b> (respiratory); 12,384 US deaths; UT subset	--	25
1958 -- <b>tuberculosis</b> ; 12,361 US TB deaths; UT subset	--	23
1959 -- <b>tuberculosis</b> ; 11,456 US TB deaths; UT subset	--	31
1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; UT death rate 2.2	--	20
1960 -- <b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; UT death rate 2.0	--	18
1961 -- <b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; UT death rate 3.1	--	28
1961 -- Sep 17, thunderstorm, <b>flash flooding</b> , Zions Narrows/5; Glen Canyon/1, UT	--	6
1962 -- <b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; UT death rate 1.7	--	16
1963 -- <b>influenza</b> , 7,083 US deaths/death rate 3.8 (distinct from 63,638 pneumonia deaths); UT 1.1--11	--	11
1963 -- <b>tuberculosis</b> ; 9,311 US deaths; death rate 4.9 per 100K; UT death rate 2.5	--	25
1963 -- Jan 12, <b>cold wave</b> , <b>fire</b> from overheated stove/outdoor temp. -25°, Bonanza, UT	--	5
1963 -- Dec 16, Carbon No. 2 <b>coal mine</b> methane gas/coal dust explosion, Helper, UT	--	9
1964 -- <b>influenza</b> ; 1,687 US deaths/death rate 0.9; UT death rate 1.4	--	7
1964 -- <b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; UT death rate 1.6	--	16
1965 -- <b>tuberculosis</b> , 7,934 US deaths/death rate 4.1 per 100K; UT death rate 1.4	--	13
1965 -- June 11, heavy rain on heavy snowpack, flash <b>flooding</b> , Sheep Canyon area, UT	--	7
1966 -- <b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for UT	--	19
1966 -- <b>tuberculosis</b> , 7,625 US TB deaths; subset for UT	--	14
1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7,062 US deaths/death rate 3.5 per 100K; UT 2.7	--	27
1968 -- Dec 29-Feb 1, A2 Hong Kong <b>influenza-pneumonia</b> epidemic, Ogden and SLC <sup>851</sup> --	--	35
1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5,971 deaths/death rate 2.96 per 100K; UT 2.12--	--	22
1970 -- <b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; UT 1.2	--	11
1971 -- <b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; UT death rate 1.18	--	13
1971 -- Sep 15, <b>fire</b> /suffocation, Lil-Haven Nursing Home, Salt Lake City, UT	--	6
1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4,986 US deaths/death rate 2.38 per 100K; UT 0.88--	--	10
1972 -- <b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; UT death rate 0.88	--	10
1973 -- <b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; UT 1.54	--	18
1974 -- <b>influenza</b> , ICD-8 codes 470-474; 2,201 US deaths/death rate 1.0 per 100K; UT/0.999--	--	12
1977 -- <b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; UT, 0.53	--	7

<sup>851</sup> U.S. influenza epidemic death toll was 33,800.

**Utah (continued):**

1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; UT, 1.39	--	19
1979 --	<b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; UT, 0.56	--	8
1980 --	<b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K population, UT, 0.68	--	10
1981 --	<b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K population, UT, 0.79	--	12
1987 --	<b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K population; UT, 1.97	--	33
1988 --	<b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; UT, 2.01	--	34
1989 --	<b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; UT, 2.46	--	42
1991 --	Jan 18, three fans <b>crushed to death</b> , AC/DC Concert, Salt Lake, UT	--	3
1992 --	Sep 23, <b>lightning</b> , Juab County, UT	--	2
2003 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; UT rate 0.551	--	13
2007 --	Aug 06, Crandall Canyon Coal <b>Mine</b> wall collapse (3 rescuers die Aug 16), Emery Co., UT	--	9
2008 --	Jan 06, <b>motorcoach</b> runs off road, rolls over, U.S. Rt. 163, Mexican Hat, UT	--	9
2009 --	<b>diarrhoea/gastroenteritis</b> of infections origin; US death rate 0.9 per 100K; UT, 0.6	--	17
2010 --	<b>diarrhoea/gastroenteritis</b> of infections origin; US death rate 0.9 per 100K, UT, 0.8	--	21
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; UT rate 1.4	--	38
2011 --	<b>diarrhoea/gastroenteritis</b> of infections origin; US and UT death rate 0.9 per 100K	--	24
2011 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; UT rate 0.5	--	15
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.5 per 100K; UT rate 1.5	--	42
2012 --	<b>diarrhoea/gastroenteritis, infections origin</b> ; US death rate 0.8 per 100K; UT, 0.6	--	17
2012 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100K; UT rate 1.5	--	42
2013 --	<b>diarrhoea/gastroenteritis of infections origin</b> , US and UT death rate 0.8 per 100K	--	22
2013 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100K; UT rate 1.3	--	39
2013 --	July 3-4, 22, Aug 15, <b>heat</b> , Capital Reef Nat. Park, Coyote Buttes, Spooky Gulch, UT	--	5
2014 --	<b>diarrhoea/gastroenteritis of infections origin</b> , US death rate 0.8 per 100K, UT, 0.7	--	21
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; UT, 1.4	--	16
2014 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 1.4 per 100,000; UT rate 1.3	--	38
2015 --	<b>diarrhoea/gastroenteritis of infections origin</b> , US death rate 0.8 per 100K, UT, 0.7	--	21
2015 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 1.6 per 100,000; UT rate 1.2	--	36
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; UT rate 1.3	--	48
2016 --	<b>diarrhoea/gastroenteritis of infections origin</b> , US death rate 0.7 per 100K, UT, 0.6	--	19
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; UT death rate 1.4	--	19
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; UT rate 0.9	--	28
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; UT death rate 1.64	--	51
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; UT subset	--	17
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., UT rate 2.02	--	64
2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; UT subset	--	12
2020 --	<b>influenza</b> ; <sup>852</sup> 5,943 US deaths/death rate 1.8 per 100K; UT death rate 1.26	--	41
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; UT subset	--	12
2021 --	July 25, <b>dust storm</b> and I-15 <b>vehicular pileup</b> near Kanosh, UT	--	8
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	266

<sup>852</sup> Distinct from 47,601 pneumonia deaths in 2020 (ICD codes J12-J18).

**Breakout by Type of Utah Large Loss-of-Life Events (10 or more fatalities):**

- 35 -- **Disease**, especially communicable, especially epidemics. (Plus 108 in “Other.”)
- 12 -- **Aviation**. (Plus 4 events noted less than 10 deaths two with 5, one with 9 fatalities.)
- 9 -- **Mines and Quarries** (Plus 3 - two with 9 deaths each, and one with five.)
- 9 -- **Winter Weather and Hypothermia**.
- 5 -- **Avalanche**. (Plus one with 7 fatalities in “Other.”)
- 2 -- **Rail**.
- 2 -- **Vehicular/Road/Highway**. (Plus pileup in 2021 with 8 deaths)
- 1 -- **Explosion**
- 1 -- **Fire, structural**. (Plus 3 events 5-6 deaths: 5 in 1950 and 1963, 6 in 1971.)
- 1 -- **Flooding** (Plus two events noted with 6 and 7 drowning death.)
- 1 -- **Lightning**. (Sets off explosion; plus one event with 2 fatalities.)
- 1 -- **Violence**. (Plus two – one event with 9 fatalities and crushing event with 3 in “Other.”)
- 0 -- **Dust Storm**. (But 8 deaths in dust-storm related I-15 pileup on 7-25-2021.)
- 0 -- **Heat**. (But one with 5 deaths in 2013 in “Other.”)

## VT

## Vermont

1. 1795 -- **dysentery** epidemic, especially children, Norwich, Rutland County, VT -- 60
2. 1796 -- **scarlet fever** epidemic (especially children), statewide, VT --681-846
3. 1798 -- sum-fall, **dysentery**, VT, esp. Norwich/Pomfret/Salem/Sandgate, Shays' Stlmt., VT--≥141
4. 1802 -- summer-fall, **dysentery**, Bridport, VT -- 16
5. 1803 -- summer-fall, **dysentery**, esp. children, esp. Stockbridge (≥10?) & Stowe (>40)-- ≥51
6. 1804 -- "Canker Rash" (**scarlet fever**), 40 cases, Reading, Windsor County, VT -- 15
7. 1804 -- summer-fall (2 month period), **dysentery** (especially children), Orwell, VT -- 60
8. 1811 -- Jan-April (esp.), "**spotted fever**" (**meningitis?**), esp. Woodstock (60-65) VT --93-98
9. 1812 -- Feb-March (esp.) "**spotted fever**" (**meningitis?**), esp. Bennington, Pomfret-127-- 170
10. 1812 -- Oct-June 1813 (esp.), Peripneumony/**lung fever** (pneumonia), VT, esp. Burlington--4,350-6,400
11. 1814 -- summer-Fall, **epidemic fever** (referred to as **typhus**), Wardsborough, VT --23-26
12. 1830 -- July 26, **flooding**, Middlebury, New Haven and Lincoln, VT -- 14
13. 1832 -- June 17-Aug 24, **cholera**, especially Burlington, VT -- 10
14. 1849 -- summer-autumn, **cholera**, VT -- 30
15. 1850 -- **dysentery**; subset 20,556 dysentery deaths 36 States/Territories/DC; avg. 571 -- 300
16. 1860 -- **scarlet fever** (VT subset of 26,402 deaths in 38 Census States & DC -- 244
17. 1860 -- **smallpox** (subset of 1,263-1,271 smallpox deaths in reporting States); VT -- 11
18. 1860 -- **tuberculosis**/consumption, VT subset (leading cause in VT), 49,082 US deaths-- 779
19. 1860 -- **typhoid fever** (subset of 19,236 deaths in 38 "registration" States and DC) -- 210
20. 1867 -- Dec 11, **train goes into river**, Central VT Railroad, near Northfield, VT --15-20
21. 1870 -- **diarrhoea** (35), **dysentery** (103), **enteritis** (59); U.S. Census data -- 197
22. 1870 -- **tuberculosis** (consumption); VT subset, ~70,000 US TB deaths; Census data -- 715
23. 1870 -- **typhoid fever** (VT subset of 22,187 typhoid fever deaths nationwide) -- 221
24. 1863 -- **diphtheria**, VT -->1,300
25. 1874 -- **scarlet fever**, VT -- 400
26. 1879 -- June-May 1880, **measles**, esp. children (VT subset, 8,254 U.S. measles deaths)-- 49
27. 1879 -- June-May 1880, **typhoid fever** (VT subset of 23,339 U.S. Typhoid deaths) -- 118
28. 1887 -- Feb 05, **train derails** (broken rail) into White River, burns, near Hartford, VT-- 37
29. 1889-90 -- June-May, **diphtheria**; subset of 27,815 U.S. diphtheria deaths; VT<sup>853</sup> -- 223
30. 1889-90 -- June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths -- 124
31. 1894 -- Mid-Jun-Aug, **polio** outbreak, esp. children, esp. Rutland & Wallingford<sup>854</sup> -- 18
32. 1896 -- **measles**, Swanton (6), Charlotte (2), Bennington, Manchester and Orwell (1 ea)--≥11
33. 1905 -- Oct 06, **rock-fall**, Vermont Slate Co. Briar Hill **Quarry**, Pawlet, VT -- 8-10
34. 1907 -- **tuberculosis**; 76,650 US deaths; subset for VT -- 376
35. 1908 -- Oct 07, **explosion** and **fire**, Grain Elevator, Richford, VT -- 17
36. 1909 -- Oct 30, **fire**, Business District, St. Johnsbury, VT --10-11
37. 1911 -- **polio**; subset of 1,060 "registration area" deaths (63.1% pop.), VT -- 11
38. 1913 -- **measles**, 8,108 US "registration area" (65.1%) deaths; VT<sup>855</sup> -- 73
39. 1914 -- July-Oct, **polio**, acute, especially children, subset of 720 US polio deaths, VT<sup>856</sup>-- 54

<sup>853</sup> While U.S. average diphtheria death rate was 33.06 deaths per 1000, VT was at 42.62.

<sup>854</sup> This was the first recorded incidence of polio in the U.S. in epidemic form. The striking down of so many children in such a sparsely populated rural community over a fairly short time-span by a mysterious malady which left many survivors paralyzed, was viewed with alarm and reported in the *Boston Daily Globe* and elsewhere.

<sup>855</sup> At 20.4 deaths per 100,000 pop., VT had 3<sup>rd</sup> highest death rate in US "registration area," which had 12.08.



## Vermont (continued):

40.	1915 -- Aug-Nov, <b>polio</b> , especially children (VT subset of 791 US polio deaths)	--	18
41.	1916 -- Aug-Oct (esp.), <b>polio</b> , esp. children, multiple places, VT (~7,000 US deaths)	--	12
42.	1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; VT, 41.6	--	152
43.	1917 -- <b>polio</b> , esp. June-Sep, especially children; VT subset, $\geq 1,182$ U.S. polio deaths	--	18
44.	1918-1919 -- <b>influenza and pneumonia</b> epidemic, VT	--	2,228-2,319
	1918 -- <b>influenza and pneumonia</b> epidemic, VT	--	1,709-1,800
	1919 -- <b>influenza and pneumonia</b> epidemic, VT	--	519
45.	1918 -- June 05, <b>trains collide</b> , near Burlington, VT	--	10
46.	1920 -- Mar 14, <b>trains collide</b> , near Riverside, VT	--	10
47.	1924 -- Feb 15, <b>fire</b> , Lawrence Building, Main Street, Montpelier, VT	--	11
48.	1927 -- Nov 2-4, <b>flooding</b> , New England, especially Winooski River area, VT	--	84-85
49.	1931 -- <b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; VT death rate 6.9	--	25
50.	1947 -- June 14, off-course <b>USAAF B-29 hits top of Hawks Mountain</b> at night, VT	--	12
51.	1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--	134
52.	1959 -- <b>tuberculosis</b> ; 11,456 US TB deaths; VT subset	--	31
53.	1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; VT death rate 6.7	--	26
54.	1961 -- <b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; VT death rate 6.3	--	25
55.	1962 -- <b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; VT death rate 3.3	--	13
56.	1962 -- <b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; VT rate 5.6	--	22
57.	1963 -- <b>influenza</b> , 7,083 US deaths/death rate 3.8; VT death rate 4.6	--	18
58.	1965 -- <b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; VT death rate 3.3	--	13
59.	1965 -- <b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; VT death rate 5.3	--	21
60.	1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; VE 15.0	--	65
61.	1969 -- <b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; VT 3.19	--	14
62.	1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; VT 7.6 <sup>857</sup>	--	34
63.	1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; VT 3.89	--	18
64.	1975 -- <b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; VT, 2.9	--	14
65.	1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; VT 8.3	--	40
66.	1977 -- <b>Legionella pneumophila</b> (Legionnaires'), esp. summer to fall (32 US deaths)	--	17
67.	1978 -- <b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; VT rate 2.61	--	13
68.	1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, VT rate 1.95	--	10
69.	1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, VT rate 3.29	--	17
70.	1983 -- <b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, VT rate 1.91	--	10
71.	1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: VT rate 3.93	--	21
72.	1993 -- <b>influenza</b> , 1,044 US deaths, death rate of 0.40 per 100K; VT, 2.42 per 100K	--	14
73.	1998 -- <b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; VT rate 1.83	--	11
74.	1999 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; VT, 2.315	--	14
75.	2002 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.253 per 100K; VT, 1.950	--	12
76.	2005 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; VT, 1.771	--	11
77.	2006 -- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.285 per 100K; VT, 1.605	--	10
78.	2010 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; VT, 3.2	--	20

<sup>856</sup> Dr. C. S. Caverly, VT Dept. of Health, wrote in 1916 that "The epidemic of 1914, in the number of cases [over 300 paralytic cases], as well as in mortality, was the severest that has ever occurred in the state."

<sup>857</sup> Though the number of deaths was not large, the influenza death rate in VT in 1970 was the highest in the U.S.

79.	2012	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; VT rate 1.6	--	10
80.	2012	--	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100K; VT, 2.9	--	18
81.	2013	--	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100K; VT, 2.7	--	17
82.	2013	--	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; VT, 1.6	--	10
83.	2014	--	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; VT, 2.6	--	16
84.	2015	--	<b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, VT 1.6	--	10
85.	2015	--	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100,000; VT, 4.6	--	134
86.	2018	--	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., VT rate 5.59	--	35
87.	2019	--	<b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K, VT 4.33 <sup>858</sup>	--	27
88.	2020	--	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); VT, 218 per 1M pop.	--	136
89.	2021	--	<b>COVID-19</b> ; 437,984 US deaths/2.6K deaths per 1M pop.; VT, .76K per M	--	335

### Some Select/Notable Other **Vermont** Large Loss-of-Life Events:<sup>859</sup>

1796	--	<b>dysentery</b> , Castleton, Rutland, and Stockbridge (8), VT	--	≥10
1850	--	<b>croup</b> ; subset, 10,706 deaths/36 States/DC/Territories, and 8,129 VT deaths	--	31
1850	--	<b>measles</b> ; subset 2,988 US measles deaths (average was 83 per State/Ter.), VT	--	13
1850	--	<b>scarlet fever</b> ; subset 9,584 such deaths 36 States/Territories/DC (avg. 266)	--	49
1850	--	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	--	12
1850	--	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931)	--	751
1850	--	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)	--	33
1860	--	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths	--	78
1860	--	<b>measles</b> (subset of 3,900 US measles deaths); VT	--	10
1860	--	<b>whooping cough</b> (VT subset of 8,408 whooping cough deaths nationwide)	--	32
1879	--	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	60
1879	--	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	296
1879	--	June-May 1880, <b>malarial fever</b> , (VT subset, 20,231 such deaths nationwide)	--	30
1879	--	June-May 1880, <b>meningitis</b> (VT subset of 7,481 meningitis deaths nationwide)	--	25
1879	--	June-May 1880, <b>scarlet fever</b> , esp. children (VT subset, 16,388 U.S. S.F. deaths)	--	65
1879	--	June-May 1880, <b>tuberculosis</b> (VT subset of 91,270 TB deaths nationwide)	--	813
1890	--	<b>diphtheria and croup</b> (VT subset of 41,677 diphtheria and croup deaths, U.S.)	--	231
1898	--	<b>typhoid fever</b> (VT subset of >4,627 deaths), First VT Vol. Infantry, US Camps	--	38
1889-90	--	June-May, <b>croup</b> , subset of 13,862 U.S. croup deaths	--	53
1889-90	--	June-May, <b>measles</b> , subset of 9,256 US measles deaths	--	20
1900	--	<b>croup</b> (upper airway contagious viral infection; VT subset 12,484 US croup deaths)	--	21
1900	--	<b>diphtheria</b> (VT subset of 16,475 US diphtheria deaths in 1900)	--	42
1900	--	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	--	33
1900	--	<b>influenza</b> (subset, 16,645 US influenza deaths)	--	129
1900	--	<b>measles</b> (subset of 12,866 US measles deaths)	--	21
1900	--	<b>meningitis</b> (subset, 19,423 US meningitis deaths)	--	121
1900	--	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	14
1900	--	<b>tuberculosis</b> (5,829 VT deaths all causes) (109,750 US TB deaths)	--	524
1900	--	<b>typhoid fever</b> , VT subset of 35,379 US typhoid fever deaths	--	107

<sup>858</sup> Vermont had the highest influenza death rate of any State in the country in 2019.

<sup>859</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

**Vermont (continued):**

1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	--	40
1901 --	June-July (especially), <b>heat waves</b> (subset of 4,012 US heat deaths)	--	8
1904 --	<b>epidemic cerebrospinal meningitis</b> ; 3,284 such deaths in US	--	19
1905 --	<b>epidemic cerebrospinal meningitis</b> ; 5,114 such deaths in US	--	31
1905 --	<b>tuberculosis</b> , subset, 56,770 registration area deaths (10 states/135 cities)	--	427
1906 --	<b>epidemic cerebrospinal meningitis</b> ; 3,258 in US registration area; VT	--	17
1907 --	<b>influenza</b> (VT subset of over 10,066 deaths in “registration” areas) <sup>860</sup>	--	181
1907 --	<b>typhoid Fever</b> , VT subset ~13,000 US Census-area typhoid fever deaths	--	38
1910 --	<b>polio</b> , especially children, (VT subset of 1,635 US Census reported polio deaths)	--	10
1910 --	<b>typhoid Fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; VT rate 14.0	--	50
1916 --	<b>diphtheria</b> , especially children (VT subset >8,999-17,000 US diphtheria deaths)	--	23
1918 --	<b>typhoid fever</b> (VT subset of 9,100 U.S. Typhoid Fever deaths)	--	31
1919 --	<b>diphtheria</b> (VT subset, 9,160 US diphtheria deaths)	--	14
1920 --	<b>diphtheria and croup</b> ; subset of 13,395 deaths in 34 registration states; VT	--	24
1920 --	<b>influenza and pneumonia</b> epidemic, VT	--	124
1920 --	<b>measles</b> (VT subset of 7,712 measles deaths in 34 registration states)	--	18
1920 --	<b>scarlet fever</b> (VT subset of 4,004 scarlet fever deaths in 34 registration states)	--	15
1920 --	<b>typhoid fever</b> (VT subset of 6,805 typhoid fever deaths, 34 registration states)	--	37
1920 --	<b>whooping cough</b> (VT subset, 10,968 whooping cough deaths in 34 reg. states)	--	27
1921 --	<b>polio</b> (Acute) esp. late Summer-Fall (VT subset, 1,597 U.S. polio deaths)	--	10
1925 --	<b>diphtheria</b> (VT subset, 8,058 US diphtheria deaths)	--	26
1925 --	<b>influenza</b> (VT subset, 30,538 US influenza deaths)	--	171
1925 --	<b>polio</b> (VT subset, 1,518 US polio deaths)	--	13
1925 --	<b>scarlet fever</b> (VT subset of 2,762 US scarlet fever deaths, 48 states)	--	15
1925 --	<b>tuberculosis</b> (VT subset, 89,268 US tuberculosis deaths)	--	251
1925 --	<b>typhoid/paratyphoid fever</b> (subset of 8,287 US typhoid fever deaths); VT	--	10
1925 --	<b>whooping cough</b> (VT subset, 6,948 US whooping cough deaths)	--	17
1931 --	<b>influenza</b> (VT subset of 31,701 influenza deaths nationwide)	--	102
1931 --	<b>polio</b> , esp. July-Oct, 2,139-2,144 US polio deaths; subset for VT	--	10
1939 --	<b>whooping cough</b> (VT subset of 3,026 whooping cough deaths nationwide)	--	19
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); Vermont death rate 7.2	--	26
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K; VT rate 1.4	--	5
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths, VT	--	5
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for VT	--	73
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for VT	--	21
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for VT	--	52
1953 --	<b>influenza</b> ; 9,500 US deaths; VT subset	--	10
1953 --	<b>polio</b> , subset of 1,450 US polio deaths, VT	--	6
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; VT subset	--	39
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; VT subset	--	41
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; VT subset	--	41
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; VT subset	--	37
1957 --	<b>influenza</b> ; 7,463 US deaths; VT subset	--	20

<sup>860</sup> With death rate of 51.5 per 100,000 population, this was the highest death rate of all “registration” States.

1957 --	tuberculosis (respiratory); 12,384 US deaths; VT subset	--	38
1958 --	tuberculosis; 12,361 US TB deaths; VT subset	--	24
1960 --	tuberculosis; 10,866 deaths/death rate 6.1 per 100K; VT death rate 4.9	--	19
1963 --	tuberculosis; 9311 US deaths; death rate 4.9 per 100K; VT death rate 4.9	--	19
1964 --	tuberculosis; US deaths 8,303/death rate 4.3 per 100K; VT death rate 3.2	--	13
1966 --	tuberculosis, 7,625 US TB deaths; subset for VT	--	12
1966 --	Dec 28, family farmhouse fire, Panton, VT	--	6
1968 --	tuberculosis, 6,292 US deaths/death rate 3.15 per 100K; VT death rate 3.00	--	13
1968 --	Mar 19, Beechcraft plane crash in foggy weather, Terrible Mt., near Weston, VT	--	7
1969 --	influenza, ICD-8 codes 470-474; 5,971 deaths/death rate 2.96 per 100K; VT 2.96	--	13
1971 --	tuberculosis; 4,501 US TB deaths/death rate 2.18 per 100K; VT/1.98	--	9
1974 --	influenza, ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; VT/1.48	--	7
1974 --	tuberculosis; 3,513 US TB deaths/death rate 1.65 per 100K; VT, 1.69	--	8
1988 --	HIV AIDS, 16,602 deaths/US death rate 6.8 per 100K population; VT rate 1.09	--	6
2011 --	viral hepatitis, ICD-10 code B15-19; US death rate 2.5 per 100K; VT rate 2.2	--	14
2012 --	diarrhoea/gastroenteritis, infectious origin; US & VT death rate 0.8 per 100K	--	11
2015 --	viral Hepatitis, ICD-10 code B15-B19; US death rate 2.3 per 100K; VT rate 2.1	--	13
2016 --	viral Hepatitis, ICD-10 code B15-B19; US death rate 2.0 per 100K; VT rate 1.9	--	12
2017 --	influenza; 6,515 US deaths/death rate 2.0 per 100K pop.; VT subset	--	16
2020 --	influenza; 5,943 US deaths/death rate 1.8 per 100K; VT subset	--	16
2022 --	COVID-19; 217,370 US deaths/death rate 6.50; VT death rate 5.12	--	320
2023 --	COVID-19, subset of 71,691 US deaths	--	138

#### Breakout by Type of Vermont Large Loss-of Life Events (10 or more fatalities):

78 --	Diseases, especially communicable, especially epidemics. (Plus 91 in "Other.")
4 --	Rail.
3 --	Fire, structural. (Includes cross-listing of 1908 event; plus 6 deaths in 1966 fire.)
2 --	Flooding
1 --	Aviation (Plus 1 crash in 1968 with 7 deaths.)
1 --	Explosion
1 --	Landslide/Rock-fall.
1 --	Mining/Quarrying. (Cross-listed with Landslide/Rock-fall.)
0 --	Heat. (Though there were 8 heat deaths in 1901.)



## VA

## Virginia

1. 1607 -- July-Dec, **disease** and **starvation/famine**, Jamestown Colony, VA<sup>861</sup> -- 66
2. 1609-10 -- hard winter, **starvation**, **disease**, **attack**, Jamestown Colony, VA<sup>862</sup> >400-440
3. 1616 -- George Yeardley, Dep. Governor Virginia Colony, **attacks** Chickahominy --12-40
4. 1622 -- Mar 22, Jamestown **massacre**, Jamestown Colony, VA, -- 347
5. 1623 -- May 12, Cpt. Tucker VA party **poison/kill** Powhatans, Patawomeck, VA --150-200
6. 1644 -- Apr 18 (or Mar 18), Powhatans attack English colonists along James River, VA --400-500
7. 1667 -- **smallpox** epidemic, Native Americans, VA, especially eastern shore VA -->300
8. 1675 -- July or Sep, VA **militiamen** looking for Doeg Natives Kill Susquehannocks, VA--14
9. 1677 -- leaders of **Bacon's Rebellion hanged** (colonists vs. Gov. Berkeley) in VA --22-23
10. 1747 -- Sep 15, **hurricane**, immigrants **ship sunk** Rappahannock River, VA -- >50
11. 1771 -- May 27, **flooding**, esp. James, Rappahannock Rivers, Richmond & Henrico Co., VA ~150
12. 1793 -- **influenza** epidemic, 5 counties, 4 week period, VA -- 500
13. 1800 -- **yellow fever** outbreak, Norfolk, VA -- 250
14. 1800 -- Aug 30, **Gabriel's Rebellion/slave uprising/mass hanging**, Richmond, VA -- 35
15. 1811 -- Dec 26, theatre **fire**, Richmond, VA --61-75
16. 1814-15 -- winter, **"putrid sore throat"?** epidemic, eastern VA, esp. Northern Neck -->100
17. 1821 -- Aug-Nov 1, **yellow fever** epidemic, Norfolk, VA -- ~160
18. 1831 -- Aug 21-23, **Nat Turner Slave Revolt**/Massacre of Whites, Southampton Co., VA-55-65
19. 1831 -- Aug 23-31, **White response to Turner revolt**, Blacks killed without trial, VA<sup>863</sup>--22- ~44
20. 1832 -- July 24-Nov 06, **cholera**, esp. Norfolk, Portsmouth, Richmond, VA --1,133-1,249
21. 1834 -- Esp. Oct-Nov, **cholera**, especially Petersburg, VA -- 27
22. 1837 -- Aug 11, **trains collide**, Portsmouth & Roanoke Line, near Suffolk, VA -- 13
23. 1839 -- Mar 18, Black Heath Coal **Mine** methane gas explosion, ~Richmond, VA --40-53
24. 1844 -- June 15, Powder and gas explosions, Black Heath coal **mine** ~Richmond VA -- 11
25. 1849 -- Summer-Autumn (especially), **cholera**, VA -- 749
26. 1850 -- **croup**; subset, 10,706 deaths/36 States/DC/Territories, and 19,059 VA deaths -- 434
27. 1850 -- **measles**; subset 2,988 US measles deaths (average was 83 per State/Ter.), VA-- 222
28. 1850 -- **tuberculosis**; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) --1,616
29. 1850 -- **whooping cough**, subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147)-- 216
30. 1854 -- May 19, coal **mine** explosion, Chesterfield Coal Mine, New Richmond, VA -- 19
31. 1854 -- June 19-Aug, **cholera**, esp. Blue Ridge Tunnel, Richmond/Scottsville, VA --300-325
32. 1855 -- June-Oct, **yellow fever**, Norfolk and Portsmouth, VA --3,000
33. 1855 -- Mar 19, coal **mine** explosion, Midlothian Coal Mine, Coalfield, VA -- 55
34. 1859 -- Oct 16-18, **John Brown Insurrection**, Harper's Ferry, VA -- 20
35. 1860 -- **croup** (contagious upper airway viral infection), subset, 15,188 US croup deaths)-- 618
36. 1860 -- **measles** (VA subset, 3,900 measles deaths in 38 "registration" areas and DC) -- 140
37. 1860 -- **scarlet fever** (VA subset of 26,402 deaths in 38 registration areas & DC) -- 601
38. 1860 -- **tuberculosis**; leading cause of VA death; 49,082 US deaths, 38 registration areas --2,109
39. 1860 -- **whooping cough** (VA subset of 8,408 whooping cough deaths nationwide) -- 921
40. 1860 -- **typhoid fever** (subset, 19,236 deaths in 38 "registration" States and DC; VA --1,036
41. 1862 -- Aug 13, USS **George Peabody & West Point** collide, Potomac River, VA --70-76

<sup>861</sup> The sources utilized do not breakout starvation/famine from disease deaths.

<sup>862</sup> Sources utilized do not breakout causes of death, but do give impression that starvation was substantial.

<sup>863</sup> See, also, NC, which borders on Southampton County, and wherein approximately ten blacks were killed.

## Virginia (continued):

42. 1863 -- Mar 13, **explosion**, Confederate States Ordnance Lab., Brown's Isl., Richmond VA--40-50
43. 1863 -- Nov 30, coal **mine** explosion, Raccoon mine, Clover Hill, Winterpock, VA -- 17
44. 1863 -- **smallpox**, especially Prisoner-of-War Camps and in Richmond, VA<sup>864</sup>-- >15
45. 1863 -- Nov 23-Mar 27 1865 (16 mo.), **dysentery**,<sup>865</sup> Union POWs, prison hosp., Danville VA--592
46. 1864 -- **smallpox**, especially Smallpox Hospitals, greater Alexandria, VA -- 112
47. 1864 -- July 30, Federal Powder **explosion** underneath Rebel redoubt, Petersburg, VA-- 278
48. 1864 -- July 30, Rebels **kill wounded/surrendered/trapped** black soldiers, Petersburg, VA- ~500
49. 1864 -- Aug 19, Rebels **kill Fifth MI Cavalry** soldiers after surrender ~Berryville, VA-- ≥10
50. 1864 -- Oct 03, Confederates **murder** wounded Union soldiers, Saltville, VA --24-70
51. 1866 -- Aug 12-Oct, **cholera** epidemic, Richmond, VA -- 164
52. 1867 -- Apr 03, **mine** explosion, Bright Hope Mine, Chesterfield Co., Winterpock VA--69-75
53. 1870 -- **croup** (VA subset of 10,692 deaths nationwide) -- 292
54. 1870 -- **diarrhoea** (494), **dysentery** (293), **enteritis** (239); U.S. Census data --1,026
55. 1870 -- **diphtheria** (VA subset of 6,303 deaths nationwide) -- 239
56. 1870 -- **tuberculosis** (Consumption) (VA subset of ~70,000 TB deaths nationwide) --2,005
57. 1870 -- **typhoid fever**; subset of 22,187 US typhoid fever deaths for VA -- 676
58. 1870 -- **whooping cough** (VA subset of 9,008 whooping cough deaths nationwide) -- 284
59. 1870 -- **measles**, VA subset (6<sup>th</sup> highest), 9,237 US measles deaths -- 407
60. 1870 -- Apr 29, **structural failure, Court House Gallery collapse**, Richmond, VA -- ~ 60
61. 1870 -- Dec 25, **fire**, Spotswood Hotel, Richmond, VA -- 9-12
62. 1873 -- Aug 08, steamer **Wawaset** burns, Potomac River, off Aquia Creek, VA --15-75
63. 1875 -- July 06, steamer **Isaac Bell** & tug **Lumberman** collide, Hampton Roads, VA -- 10
64. 1876 -- Mar 06, **bridge fails under train**, Valley Division, B&O, Shenandoah Co., VA-- 15
65. 1878 -- Oct 23, **hurricane, A.S. Davis** grounds near Virginia Beach, VA -- 19
66. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) -- 540
67. 1879 -- June-May 1880, **measles**, esp. children; subset, 8,254 US measles deaths; VA -- 373
68. 1879 -- June-May 1880, **tuberculosis** (VA subset of 91,270 TB deaths 38 states) --2,760
69. 1879 -- June-May 1880, **typhoid fever** (VA subset of 23,339 U.S. Typhoid deaths) -- 641
70. 1879 -- June-May 1880, **whooping cough** (VA subset, 11,064 U.S. W.C. deaths) -- 415
71. 1879 -- Aug 18, **hurricane**, maritime disaster, esp. schooner **Stephen Bennett** -- 19
72. 1881 -- Mar 26-Dec 24, **smallpox**, Richmond, VA -- 148
73. 1881 -- Dec 26, steamer **West Point** gas explosion/fire, York River, VA -- 19
74. 1882 -- Jan-June especially, **smallpox**, especially Richmond (96), VA -- 110
75. 1882 -- Feb 03, Midlothian Coal **Mine** explosion, Coalfield, VA -- 32
76. 1884 -- Mar 13, Laurel Coal **Mine** explosion, Pocahontas, VA -- 112
77. 1884 -- Dec 12, storm, **oyster boats capsize**, Men Drown, Rappahannock River, VA -- 27
78. 1888 -- March 11-14, **blizzard, maritime losses**, VA -- 16
79. 1888 -- July 12, **Fat Nancy Trestle Failure, train wreck**, ~Orange Court House, VA -- 9-10
80. 1888 -- July 22, **trains collide**, Forest Depot, near Lynchburg, VA --13-20
81. 1889 -- Apr 07, **nor'easter, maritime** and mainland drownings, esp. Chesapeake Bay-- 8-12
82. 1889-90, June-May, **croup**, subset of 13,862 U.S. croup deaths -- 293
83. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 344

<sup>864</sup> We suspect the toll could be in the dozens, scores, or hundreds, esp. in Richmond and Belle Isle Prison Camp.

<sup>865</sup> "Diarrhoea and Dysentery."

## Virginia (continued):

84.	1889-90, June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths	-- 757
85.	1889 -- July 2, <b>flash flood, washout/train derailment</b> , fire, near Thaxton, VA	-- 17
86.	1891 -- Feb 26, gale, <b>craft lost</b> , lower James Ri. ~Warwick Ri. mouth, Newport News, VA--20-24	
87.	1894 -- Apr 07, <b>fireworks factory explosion</b> , Petersburg, VA	-- 10
88.	1895 -- Apr 22, Storm/ <b>flooding</b> , Rappahannock Riv., Middlesex Co., ~Burham's Wharf, VA--	10
89.	1896 -- Sep 29, <b>hurricane</b> , Alexandria/4, Rockingham Co./3, Staunton/5, Waynesboro/1--	13
90.	1896 -- <b>measles</b> (reporting cities) Richmond (11), Lynchburg (4), Abington (2), VA	-- ≥17
91.	1899 -- Mar 07, steamer <b>James Bowen</b> founders off Hog Island, VA	-- 10
92.	1900 -- <b>croup</b> (upper airway contagious viral infection; VA subset, 12,484 US croup deaths)--	362
93.	1900 -- <b>dysentery</b> (subset, 11,710 US dysentery deaths in 1900)	-- 426
94.	1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths; 6 <sup>th</sup> largest state flu loss, 1900)	-- 754
95.	1900 -- <b>malarial fever</b> (subset of 14,874 US malarial fever deaths)	-- 409
96.	1900 -- <b>measles</b> (subset of 12,866 US measles deaths)	-- 297
97.	1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths)	-- 414
98.	1900 -- <b>smallpox</b> (subset, 8,484 US smallpox deaths; 4 <sup>th</sup> highest loss of any state)	-- 263
99.	1900 -- <b>tuberculosis</b> , leading cause VA deaths (25,252 all causes); 109,750 US TB deaths	--3,223
100.	1900 -- <b>typhoid fever</b> ; subset of 35,379 US typhoid fever deaths; VA	-- 914
101.	1900 -- <b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	-- 292
102.	1900 -- Sum. <b>heat</b> ; excessive natural heat exposure, coded "sunstroke" in Census doc.--	30
103.	1901 -- Nov 14 & 22, fire, Baby and West <b>Mines</b> , Pocahontas Coal, Pocahontas, VA--	17
104.	1903 -- May 5, <b>fog</b> , steamer <b>Saginaw</b> sinks, liner <i>Hamilton</i> collision ~Hog Island, VA--	15
105.	1903 -- July 07, <b>trains collide</b> , Rockfish Depot, 20 miles S of Charlottesville, VA	--23-24
106.	1903 -- Sep 15-17, fishing schooner <b>Beatrice</b> lost, <b>hurricane</b> , N of Chincoteague, VA--	30
107.	1903 -- Sep 27, <b>train derails</b> at trestle, Southern Railway Train #97, Danville, VA	-- 11
108.	1905 -- <b>tuberculosis</b> , 3-city subset, 56,770 census area deaths (10 states/135 cities) <sup>866</sup> --	444
109.	1905 -- Aug 17, <b>train</b> goes into Elizabeth River, Atlantic Coast Line, Bruce, VA	-- 15
110.	1906 -- Oct 03, coal <b>mine</b> explosion, Pocahontas Coal Mine, Pocahontas, VA	-- 36
111.	1907 -- <b>tuberculosis</b> ; 76,650 US deaths; 4 cities: Lynchburg, Norfolk, Petersburg, Richmond-580	
112.	1907 -- Mar 16, coal <b>mine</b> explosion, Bond & Bruce Coal Mine, Tacoma, VA	-- 11
113.	1907 -- June 11, Battleship <b>Minnesota launch is run-down</b> , Hampton Roads, VA	-- 11
114.	1910 -- Mar 15, tug USS <b>Nina</b> lost, presumably in Gale, Chesapeake Capes, VA <sup>867</sup>	-- 33
115.	1910 -- July 10, <b>artillery explosion</b> , Fort Monroe, VA	-- 11
116.	1911 -- June 12, storm, <b>fishing boats capsize</b> , James River & Hampton Roads, VA	-- 15
117.	1912 -- <b>smallpox</b> , VA subset, 301-307 US smallpox deaths; 4 <sup>th</sup> highest state loss	-- 19
118.	1913 -- <b>heat</b> ; 1,226 "registration area" (65% of US) deaths; subset for VA	-- 20
119.	1913 -- <b>measles</b> , 8,108 US "registration area" (65.1%) deaths; VA <sup>868</sup>	-- 363
120.	1913 -- <b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, VA--	44
121.	1913 -- Jan 03, <b>fog</b> , <b>Julia Luckenbach</b> collision/sinks, near Tangier Island, VA	-- 16
122.	1914 -- <b>polio</b> , late summer-fall, esp. children (subset of 720 US polio deaths), VA	-- 42
123.	1914 -- Jan 30, steamers <b>Monroe &amp; Nantucket</b> collide, <b>fog</b> off Hog Island, VA	-- 41

<sup>866</sup> Census-area TB death rate was 168.2 per 100K population. Norfolk/179 deaths had 315.5, Petersburg/60, had 275.1 death rate, and Richmond/205 deaths, showed 236.0 – all well above average. VA was not State census area.

<sup>867</sup> *Lowell Sun* (MA) has date Feb 6 in "Shipping Disasters: Summary of the Accidents That Occurred Last Year."

<sup>868</sup> Fifth highest measles death rate in US "registration area," at 17.1 per 100K pop., compared to US 12.08.

## Virginia (continued):

124.	1915 --	polio	; 691 registration area deaths (67.1% population); subset for VA	--	37
125.	1915 --	Apr 03,	steamer <b>Edward Luckenbach</b> founders, False Capes, VA	--	15
126.	1916 --	May 10,	<b>explosion, fire, trampling</b> , theater, Wallaceton, VA	--	13-26
127.	1916 --	late summer-fall,	polio, esp. children, VA (~6,700->7,000 U.S. polio deaths)--	59	
128.	1917 --	influenza	; 12,974 US influenza deaths/death rate 17.2 per 100K; VA, 21.0	--	464
129.	1917 --	polio	, esp. June-Sep, esp. children; VA subset (4 <sup>th</sup> highest), ≥1,182 US polio deaths--	69	
130.	1918 --	Mar 09,	last sighting, Collier USS <b>Cyclops</b> , north of Virginia Capes, VA	--	290-324
131.	1918 --	Apr 1919,	influenza and pneumonia epidemic, VA	--	17,138
		1918 --	influenza and pneumonia epidemic, VA	--	11,961
		1919 --	Jan-Apr, influenza and pneumonia epidemic, VA	--	5,177
132.	1920 --	influenza & pneumonia	; subset 141,609-220,798 Census Bur. deaths; VA	--	1,426
133.	1920 --	measles	; VA subset of 7,712 measles deaths in 34 registration states	--	75
134.	1920 --	smallpox	, VA subset, 508 smallpox deaths reported in 34 registration states	--	12
135.	1920 --	typhoid fever	(VA subset of 6,805 typhoid deaths, 34 registration states)	--	260
136.	1920 --	whooping cough	, VA subset (6 <sup>th</sup> highest), 10,968 WC deaths, 34 reg. states	--	463
137.	1922 --	Feb 07,	fire, Lexington Hotel, Richmond, VA	--	12
138.	1922 --	Feb 21,	air crash, dirigible <b>Roma</b> , Hampton Roads Naval Base, VA	--	34
139.	1924 --	Oct 20,	USS <b>Trenton</b> gun turret powder bag explosion, off Norfolk, VA	--	14
140.	1924 --	Dec 24,	Mathieson Alkali Works " <b>Muck</b> " dam fails, Palmertown/Saltville, VA--	19	
141.	1925 --	cold	(excessive), VA subset of 239 US excessive cold deaths	--	14
142.	1925 --	diphtheria	(VA subset, 8,058 US diphtheria deaths)	--	205
143.	1925 --	dysentery	(VA subset, 6 <sup>th</sup> highest, 3,257 US dysentery deaths)	--	196
144.	1925 --	excessive natural heat	(SC subset, 1587 US excessive heat deaths)	--	17
145.	1925 --	influenza	(VA subset, 10 <sup>th</sup> highest, 30,538 US influenza deaths)	--	1,054
146.	1925 --	measles	(VA subset of 2,404 measles deaths in 40 "registration" states)	--	76
147.	1925 --	tuberculosis	(VA subset, 89,268 US tuberculosis deaths)	--	2,715
148.	1925 --	typhoid/paratyphoid fever	(VA subset, 8,287 US Typhoid Fever deaths)	--	302
149.	1925 --	whooping cough	(VA subset, 6,948 US whooping cough deaths)	--	253
150.	1929 --	May 02,	tornadoes, VA	--	22
151.	1931 --	epidemic cerebrospinal meningitis	(2,832 US meningitis deaths), VA	--	48
152.	1931 --	diphtheria	, especially children (VA subset, 5,738 U.S. diphtheria deaths)	--	227
153.	1931 --	influenza	(subset of 31,701 US influenza deaths); VA	--	1,036
154.	1931 --	measles	, especially children (subset, 3,576 US measles deaths); VA	--	87
155.	1931 --	whooping cough	, 4,619 US deaths/death rate 3.9 per 100K; VA, 6.8	--	166
156.	1931 --	summer,	excessive natural heat; subset, 2,768 U.S. deaths; VA	--	26
157.	1932 --	Feb 27,	coal mine explosion, Boissevain Coal Mine, Boissevain, VA	--	38
158.	1932 --	June 13,	coal mine explosion, Splashdam No. 6 Coal Mine, Splashdam, VA--	10	
159.	1933 --	Aug 23,	Potomac-Chesapeake hurricane, VA	--	16-18
160.	1934 --	Mar 24,	fire, Federal Transient Bureau Lodging, Lynchburg, VA	--	22
161.	1934 --	summer,	excessive natural heat; subset of 3,250 US heat deaths; VA	--	22
162.	1934 --	Aug 6,	Derby No. 3 Coal Mine explosion, Big Stone Gap, VA	--	17
163.	1935 --	Dec 22,	bus goes off Appomattox River drawbridge, Hopewell, VA	--	14
164.	1936 --	July-Aug	(especially), heat (4,678-5,418 US heat deaths), VA subset	--	16
165.	1938 --	Apr 22,	mine explosion, Keen Mountain Coal Mine, Red Jacket, Hanger, VA--	45	



**Virginia (continued):**

166. 1939 -- **diphtheria**, esp. Jan-Mar, Sep-Dec (VA subset of 1,997 US diphtheria deaths)-- 99
167. 1939 -- **influenza and pneumonia** (VA subset, 99,097 US flu/pneumonia deaths) --2,444
168. 1939 -- **tuberculosis** (VA subset of 61,609 tuberculosis deaths nationwide) --1,452
169. 1939 -- **whooping cough**, VA subset, 5<sup>th</sup> highest, 3026 US whooping cough deaths -- 158
170. 1939 -- summer, **excessive heat** (subset of 527-1,073 heat deaths nationwide) -- 10
171. 1940 -- **influenza and pneumonia**; VA subset, 92,525 US flu & pneumonia deaths --2,586
172. 1940 -- **polio**, especially children; VA subset of 1,026 polio deaths nationwide -- 27
173. 1940 -- **syphilis**, US death rate 14.4 per 100,000 pop. (19K US); VA death rate 17.1-- 475
174. 1940 -- **tuberculosis**; VA subset of 55,576 tuberculosis deaths nationwide --1,424
175. 1940 -- **whooping cough**; 2926 US WC deaths/death rate 2.2 per 100K, VA, 5.0 -- 132
176. 1940 -- Aug 31, Pennsylvania Central **plane crash**, Lovettsville, VA -- 25
177. 1941 -- **measles**, esp. children, VA subset, highest in US, of 2,279 measles deaths -- 170
178. 1942 -- Mar 31, tug **Menominee** shelled/sunk by U-boat ~9.5m off Metompkin Inlet, VA-16
179. 1942 -- Apr 2, US freighter **David H Atwater** shelled/sunk, U-boat off Chincoteague Isl. VA-23-24
180. 1942 -- Apr 03, US freighter **Otho** sunk by U-boat ~200M east of Cape Henry, VA --31-32
181. 1943 -- Apr 21, **USAAF B-24D plane lost**, ~210 miles off Virginia Beach, VA -- 10
182. 1943 -- June 01, MM **John Morgan** and tanker **Montana** collide off Cape Henry, VA-- 86  
--67 freighter **John Morgan** (42 merchant marine crew, 15 Naval Armed Guard)  
--19 tanker **Montana** (9 crew and 10 Naval Armed Guard)
183. 1943 -- Sep 17, **depth charge explosion**, Naval Air Station, Norfolk, VA --26-30
184. 1944 -- **cerebrospinal meningitis**, VA (2,812 US cerebrospinal meningitis deaths) -- 95
185. 1944 -- **influenza** (VA subset, 17,320 US influenza deaths), esp. Jan-Apr, Dec -- 531
186. 1944 -- **measles**, especially Jan-June (VA subset of 1,923 US measles deaths) -- 50
187. 1944 -- **polio**, especially July-Nov; 1,070 US polio deaths; subset for VA -- 58
188. 1944 -- **tuberculosis** (VA subset of 54,731 tuberculosis deaths nationwide) --1,344
189. 1944 -- **whooping cough** (VA subset, 2<sup>nd</sup> highest, 1,878 US whooping cough deaths)-- 102
190. 1944 -- Mar 15, **USAAF bomber crashes**, Bull Mountain, ~Stuart, southwest VA -- 11
191. 1944 -- May 30, **USN PB4Y1 Liberator emer. landing crash**, NAAS Chincoteague VA--11
192. 1944 -- Nov 07, **USN PB4Y-1 Liberator plane crash**, off Fort Monroe, VA -- 12
193. 1945 -- Feb 23, **American Air 9** flying too-low VFR crash, Glade Mt. ~Rural Retreat VA--17
194. 1945 -- July 22, **USAAF B-24M engine problem, crash**, James River ~Newport News, VA--11
195. 1946 -- Apr 18, **Great Valley Coal Mine** methane gas explosion, McCoy, VA -- 12
196. 1946 -- May 16, **Viking Air Transport engine problems/pilot error crash**, Richmond VA-- 27
197. 1947 -- Jan 12, **Eastern Air Flight 665** too-low/off-course crash, 10M NE Galax, VA-- 18
198. 1947 -- Feb 04, **USN R-4D-5S (DC3), crashed** during storm, off Chincoteague Isl., VA--10
199. 1947 -- July 29, butane **gas explosion/fire** Pauline's Beauty School, Harrisonburg, VA-- 11
200. 1948 -- May 31, US Navy Carrier **Kearsarge** launch swamped, Hampton Roads VA--30-32
201. 1949 -- Nov 01, **Eastern Air 537 & P-38 Lightning collide**, south of National AP, VA--55
202. 1950 -- **polio**, especially July-Nov; 1,904 US polio deaths; subset for VA -- 63
203. 1951 -- **measles**, 688 US deaths; subset for VA (10<sup>th</sup> highest US state loss) -- 22
204. 1951 -- **tuberculosis**, 31,163 US deaths, subset for VA -- 816
205. 1951 -- **whooping cough**; 960 US deaths; subset for VA (5<sup>th</sup> highest US state loss) -- 48
206. 1951 -- May 14, collier **Thomas Tracy & USS Valcour collide/Valcour** fire off Cape Henry VA--36
207. 1952 -- **diphtheria** (225 US deaths; 7 states in double digits), subset for VA -- 11

**Virginia (continued):**

208. 1952 -- **influenza**; 5,649 US deaths; subset for VA (6<sup>th</sup> highest US state loss) -- 239
209. 1952 -- **measles**, 621 US deaths; 24 states double digits; VA (6<sup>th</sup> highest US state loss)-- 24
210. 1952 -- **scarlet fever and streptococcal sore throat**; 352 US deaths; VA (9<sup>th</sup> highest)-- 13
211. 1952 -- **whooping cough** (pertussis); 406 US deaths; VA (tied with KY & PA 8<sup>th</sup> high)-- 16
212. 1953 -- **heat**, excessive natural (code E931), 576 US heat deaths, esp. Aug 22-Sep 5-- 31
213. 1953 -- **polio**, especially children (VA subset of 1,450 polio deaths nationwide) -- 34
214. 1954 -- **dysentery**, infectious, all forms (codes 045-048), 655 US deaths; VA subset-- 15
215. 1954 -- **influenza**, 2,696 US deaths, esp. TX/228; VA and SC tied for 10<sup>th</sup> high US loss--88
216. 1954 -- **measles**; 524 US deaths; 21 states double digits; VA tied for 7<sup>th</sup> US state high-- 25
217. 1954 -- **whooping cough**/pertussis; 375 US deaths, 17 states double digits, VA subset-- 20
218. 1954 -- Oct 15-16, **Hurricane Hazel**, VA -- 13
219. 1955 -- **whooping cough**/pertussis, 476 US deaths/15 states in double digits; VA -- 19
220. 1956 -- **measles**, 530 US deaths/21 states in double digits; VA 8<sup>th</sup> highest US state toll-- 23
221. 1956 -- **polio**/acute, 566 US deaths/15 states in double-digits; subset for VA -- 10
222. 1957 -- Feb 04, Pocahontas Fuel Co. **coal mine** No. 34 gas explosion, Bishop, VA/WV-- 37
223. 1957 -- Apr 02, USN **Neptune explodes** after Chincoteague NAS takeoff, ~Atlantic VA--11
224. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) --1,504
225. 1957 -- Dec 27, Pocahontas Fuel Co. **coal mine** 31 methane gas explos., McDowell Co., WV<sup>869</sup>-- 11
226. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including VA -- 16
227. 1958 -- **polio** (acute); 255 US deaths; 11 states in double digit deaths; VA -- 10
228. 1958 -- Feb 11-19, **coldwave and snowstorms**, VA -- 14
229. 1959 -- **measles**, especially children; 385 US deaths; VA subset -- 13
230. 1959 -- **polio** (acute, as opposed to late effects of); 454 US deaths; VA subset -- 12
231. 1959 -- **tuberculosis**; 11,456 US TB deaths; VA subset -- 255
232. 1959 -- **whooping cough** (pertussis); 269 US deaths, especially children; VA subset-- 12
233. 1959 -- Sep 30, **Hurricane Gracie tornadoes**, Albemarle, County, Central VA -- 12
234. 1959 -- Oct 30, **plane crash**, Piedmont 349, Bucks Elbow Mt., Charlottesville, VA -- 26
235. 1960 -- **influenza**; 7,872 US deaths/death rate 4.4 per 100K; VA death rate 6.6 -- 260
236. 1960 -- **tuberculosis**; 10,866 deaths/death rate 6.1 per 100K; VA death rate 6.3 -- 250
237. 1960 -- Jan 18, **plane crash**, Capital Airlines Flight 20, near Charles City, VA -- 50
238. 1960 -- Mar 02-03, **snowstorm and cold**; 186-193 US deaths; VA -- 12
239. 1961 -- **measles**; 434 US deaths/death rate 0.2 per 100K; VA death rate 0.3 -- 13
240. 1961 -- Nov 8, **Imperial Airlines** (military charter), engine failure/crash/fire, Richmond VA--77
241. 1963 -- **influenza**, 7,083 US flu deaths/death rate 3.8; VA death rate 7.7 -- 333
242. 1963 -- **tuberculosis**; 9,311 US deaths; death rate 4.9 per 100K; VA death rate 5.1 -- 219
243. 1966 -- **meningococcal infections**, 876 US deaths, esp. CA/109, TX/59, OH/50; VA-- 23
244. 1966 -- **tuberculosis**, 7,625 US TB deaths; subset for VA -- 180
245. 1966 -- Jan 26-27, 29-30, **coldwave, snow, ice**; 251-258 US deaths Jan 26-Feb 1; VA-- 33
246. 1968 -- **excessive natural cold**; ICD-8 code E901; subset of 494 of US cold deaths; VA-- 24
247. 1968 -- **influenza**, ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; VA 4.3-- 194
248. 1968 -- **tuberculosis**, 6,292 US deaths/death rate 3.15 per 100K; VA death rate 3.66-- 166
249. 1968 -- Dec 22-Mar 9, A2 Hong Kong **influenza**-pneumonia epidemic, Norfolk, Richmond-153

<sup>869</sup> The explosion was underground near Amonate VA, near WV border. WV Department of Mines investigated in that the shaft where coal was taken out was in WV. Six victims lived in VA, leaving six widows and 19 children.

## Virginia (continued):

250. 1969 -- **excessive natural cold**; ICD-8 code E901; 424 US deaths; VA -- 16
251. 1969 -- **tuberculosis**; 5,567 US deaths/death rate 2.76 per 100K; VA death rate 2.98-- 137
252. 1969 -- Aug 19-20, **Camille remnant** flash **flooding/mudslides**, esp. Nelson Co./125--~153
253. 1970 -- **excessive natural cold**; ICD-8 code E901; 466 US deaths; VA -- 18
254. 1970 -- **influenza**; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; VA 2.1-- 96
255. 1970 -- **tuberculosis**; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; VA 3.0--139
256. 1971 -- **excessive natural cold**; ICD-8 code E901; 361 US deaths; VA -- 18
257. 1972 -- **excessive natural cold**, ICD-8 code E901, 490 US deaths; VA -- 22
258. 1972 -- **excessive natural heat**; ICD-8 code E900; 234 US deaths; VA -- 10
259. 1972 -- June 21-23, **Tropical Storm Agnes**, **flooding**, VA (138-140 US deaths) -- 17
260. 1973 -- **excessive natural cold**; ICD-8 code E901; 381 US deaths; VA subset -- 17
261. 1973 -- **tuberculosis**; 3,875 US deaths/death rate 1.84 per 100K; VA 1.90 per 100K-- 93
262. 1973 -- Mar 02, **structural collapse**, Skyline Plaza apt. bldg., Bailey's Crossroads, VA--14
263. 1974 -- exposure to excessive natural **cold**; ICD-8 code E901; 348 US deaths; VA -- 13
264. 1974 -- **influenza**, ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; VA/1.2--59
265. 1974 -- **tuberculosis**; 3,513 US TB deaths/death rate 1.65 per 100K; VA, 1.73 -- 86
266. 1974 -- Dec 01, **plane crash**, TWA flight 514 flies into Mt. Weather, VA -- 92
267. 1975 -- exposure to excessive natural **cold** (ICD-8 E901); 359 US deaths; VA -- 20
268. 1975 -- **tuberculosis**; 3,333 US TB deaths/death rate 1.55 per 100K; VA, 1.56 -- 79
269. 1976 -- exposure to **excessive natural cold/hypothermia**; 424 US deaths; VA -- 20
270. 1976 -- **tuberculosis**; 3,130 US TB deaths/death rate 1.44 per 100K; VA, 1.50 -- 77
271. 1977 -- **cold/hypothermia**, exposure to excessive natural; 634 US deaths; VA -- 34
272. 1977 -- **tuberculosis**; 2,968 US TB deaths/death rate 1.35 per 100K; VA, 1.38 -- 72
273. 1978 -- exposure to excessive natural **cold/hypothermia**; 652 US deaths; VA -- 33
274. 1978 -- Oct 20, USCG Cutter **Cuyahoga & MV Santa Cruz II** collide ~Smith Point, MD<sup>870</sup>-11
275. 1980 -- **tuberculosis**; 1,978 US TB deaths/death rate 0.87 per 100K; VA, 0.90 -- 48
276. 1980 -- June-Aug (especially), **heat** (ICD-9 E900 code for excessive natural heat), VA-- 12
277. 1981 -- exposure to **excessive natural cold**; 289 US deaths; VA (highest US State loss)--20
278. 1981 -- Feb 18, commuter **bus** crash, I-95, into Chopawamsic Creek near Quantico -- 11
279. 1982 -- exposure to **excessive natural cold/hypothermia**; 402 US deaths; VA<sup>871</sup> -- 26
280. 1982 -- Jan 09-18, **winter weather**, especially extreme cold, snow, VA<sup>872</sup> -- 16
281. 1983 -- exposure to **excessive natural cold/hypothermia**; 510 US deaths; VA -- 29
282. 1983 -- **influenza**, 1,431 US flu deaths, death rate 0.61 per 100K, VA rate 0.72 -- 40
283. 1983 -- Feb 12, gale, collier **Marine Electric** (34 crew) capsizes/sinks off Chincoteague, VA-31
284. 1983 -- summer **excessive natural heat**, especially Norfolk (6) -- 12
285. 1984 -- exposure to **excessive natural cold/hypothermia**; 359 US deaths; VA -- 14
286. 1985 -- exposure to **excessive natural cold/hypothermia**; 519 US deaths; VA -- 35
287. 1985 -- Sep 23, Henson Airlines 1517 **approach crash**, Hall Mt. (~Staunton), VA -- 14

<sup>870</sup> Cross-listing in VA in that the *Cuyahoga* homeported at Yorktown and five of the eleven fatalities resided in VA.

<sup>871</sup> See the Jan 9-18 winter weather event below wherein at least five died from cold weather hypothermia.

<sup>872</sup> Six accidents (one sledding, two drownings or hypothermia when two males attempted to swim away from ice-mired boat, two drowning or hypothermia deaths when two tried walking on ice from stuck boat, and one young girl drowning death from falling through ice on a creek), one ill-defined "cold-related illness" death, four home hypothermia deaths, one backyard hypothermia death, and one snowstorm and one icy road related vehicular deaths.

**Virginia (continued):**

288.	1985 -- Nov 4-5, <b>flooding</b> , <b>Hurricane Juan remnants</b> , multiple counties (71-74 total)--	22
289.	1986 -- exposure to <b>excessive natural cold/hypothermia</b> ; 301 US deaths; VA	-- 13
290.	1986 -- <b>tuberculosis</b> , 1,782 US deaths, death rate 0.74 per 100K; VA, 0.84	-- 49
291.	1987 -- excessive natural <b>cold/hypothermia</b> ; 326 US deaths; VA (highest state toll)--	28
292.	1987 -- summer, <b>excessive heat</b> , VA subset of approximately 388 U.S. heat deaths	-- 14
293.	1988 -- exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; VA	-- 23
294.	1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; VA rate 1.11	-- 67
295.	1989 -- exposure to excessive natural <b>cold/hypothermia</b> ; 524 US deaths; VA	-- 36
296.	1989 -- Oct 05, <b>fire</b> , Hillhaven Rehabilitation and Convalescent Center, Norfolk, VA--	12
297.	1990 -- exposure to excessive natural <b>cold/hypothermia</b> ; 596 US deaths; VA	-- 12
298.	1991 -- exposure to excessive natural <b>cold/hypothermia</b> ; 588 US deaths; VA	-- 16
299.	1992 -- exposure to excessive natural <b>cold/hypothermia</b> ; 558 US deaths; VA	-- 25
300.	1993 -- exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; VA	-- 26
301.	1993 -- Mar 12-13 Eastern Seaboard winter "Superstorm of 1993," subset for VA	-- 13
302.	1994 -- exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; VA	-- 28
303.	1994 -- June 18, Mexican charter <b>Learjet crash</b> Dulles IAP approach, Chantilly, VA--	12
304.	1995 -- exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; VA	-- 22
305.	1995 -- summer <b>excessive heat</b> (VA subset of 1,563-1,601 U.S. heat-related deaths)--	18
306.	1995 -- Sep 10, <b>plane crash</b> , Peninsula Sky Diving Club, West Point, VA	-- 12
307.	1996 -- exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; VA	-- 25
308.	1996 -- <b>influenza</b> , subset of 745 US flu deaths/US death rate 0.276 per 100K; VA, 0.28--	19
309.	1996 -- <b>tuberculosis</b> , subset 1,202 US TB deaths/death rate 0.45 per 100K; VA, 0.47	-- 32
310.	1996 -- Jan 06-07, <b>snow storm</b> (Blizzard of '96), VA	-- 18
311.	1997 -- exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; VA	-- 15
312.	1997 -- <b>influenza</b> , code 487.0; US death rate 0.26 per 100K (720 US deaths); VA, 0.278--	19
313.	1998 -- exposure to excessive natural <b>cold/hypothermia</b> ; 420 US deaths; VA	-- 26
314.	1999 -- exposure to excessive natural <b>cold/hypothermia</b> ; 598 US deaths; VA	-- 25
315.	1999 -- exposure to <b>excessive natural heat</b> ; 1,050 US deaths; subset for VA	-- 11
316.	2000 -- exposure to excessive natural <b>cold/hypothermia</b> ; 742 US deaths; VA	-- 17
317.	2001 -- exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; VA	-- 18
318.	2001 -- Mar 03, USAF C-23 <b>plane crash</b> (VA NG/18) FL ANG/3), Unadilla, GA <sup>873</sup> --	21
319.	2001 -- Sep 11, <b>American Airlines hijacked</b> , flown into Pentagon, Arlington, VA	-- 189
320.	2002 -- exposure to excessive natural <b>cold/hypothermia</b> ; 646 US deaths; VA	-- 22
321.	2002 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.253 per 100K; VA, 0.261	-- 19
322.	2003 -- exposure to excessive natural <b>cold/hypothermia</b> ; 620 US deaths; VA	-- 20
323.	2003 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; VA, 0.923	-- 68
324.	2003 -- Sep 18, <b>Hurricane Isabel</b> , multiple counties and independent cities, VA	-- 36
325.	2004 -- exposure to excessive natural <b>cold/hypothermia</b> ; 676 US deaths; VA	-- 21
326.	2004 -- <b>influenza</b> , ICD-10 codes J09-11; US death rate 0.376 per 100K; VA, 0.655	-- 49
327.	2004 -- <b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; VA rate 0.32	-- 24
328.	2004 -- Oct 24, <b>plane crash</b> , Hendrick Motorsports N501RH, Martinsville, VA	-- 10
329.	2005 -- exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; VA	-- 22
330.	2005 -- exposure to <b>excessive natural heat</b> ; 939 US deaths, subset for VA	-- 12

<sup>873</sup> Though the plane crashed in Georgia, 18 of the 21 victims were members of the Virginia National Guard.



**Virginia (continued):**

331.	2005 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.22 per 100K; VA, 0.29	--	22
332.	2006 --	exposure to excessive natural	cold/hypothermia; 519 US deaths; VA	--	17
333.	2006 --	exposure to excessive natural	heat; 1,104 US deaths, subset for VA	--	15
334.	2006 --	influenza	, ICD-10 codes J09-11; US death rate 0.285 per 100K; VA, 0.433	--	34
335.	2007 --	exposure to excessive natural	cold/hypothermia; 711 US deaths; VA	--	21
336.	2007 --	influenza	, ICD-10 codes J09-11; US death rate 0.14 per 100K; VA, 0.21	--	16
337.	2007 --	Apr 16, Virginia Tech	mass shooting, 32 killed/1 suicide Blacksburg VA	--32-33	
338.	2008 --	exposure to excessive natural	cold/hypothermia; 641 US deaths; VA	--	10
339.	2008 --	exposure to excessive natural	heat; 502 US deaths, subset for VA	--	15
340.	2008 --	influenza	, ICD-10 codes J09-11; US death rate 0.57 per 100K; VA, 0.69	--	54
341.	2009 --	exposure to excessive natural	cold/hypothermia; 616 US deaths; VA	--	10
342.	2009 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.9 per 100K; VA 1.0--	81	
343.	2009 --	H1N1 swine flu	, especially fall/winter, (subset of >12,000 U.S. deaths)	--	37
344.	2010 --	exposure to excessive natural	cold/hypothermia; 710 US deaths; VA	--	26
345.	2010 --	exposure to excessive natural	heat; 874 US deaths, subset for VA	--	14
346.	2011 --	exposure to excessive natural	cold/hypothermia; 0.216 death rate; VA, 0.26--	21	
347.	2011 --	exposure to excessive natural	heat, 1,060 US deaths, subset for VA	--	12
348.	2011 --	influenza	, ICD-10 codes J09-J11; US death rate 0.5 per 100,000; VA 0.7	--	57
349.	2011 --	Apr 27, tornadoes	, VA	--	11
350.	2012 --	exposure to excessive natural	cold/hypothermia; 501 US deaths; VA	--	16
351.	2012 --	exposure to excessive natural	heat; 879 US deaths; subset for VA	--	24
352.	2012 --	June 29, derecho	, esp. Mid-Atlantic, DC/KY/MD/OH/NJ/VA (20-24). VA	--	13
353.	2013 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100K; VA 0.9--	74	
354.	2013 --	exposure to excessive natural	cold/hypothermia; 725 US deaths; VA	--	27
355.	2014 --	exposure to excessive natural	cold/hypothermia; 930 US deaths; VA	--	36
356.	2014 --	influenza	, ICD-10 Codes J09-11; US death rate 1.4 per 100K; VA rate 1.5	--	127
357.	2015 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.8 per 100k: VA 0.9--	78	
358.	2015 --	exposure to excessive natural	cold/hypothermia; 815 US deaths; VA	--	21
359.	2015 --	tuberculosis	, ICD-10 Codes A16-19; US death rate 0.1 per 100K; VA, 1.2	--	16
360.	2015 --	exposure to excessive natural	heat; 567 US deaths; subset for VA	--	14
361.	2016 --	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.7 per 100K; VA 0.8--	68	
362.	2016 --	exposure to excessive natural	cold/hypothermia; 731 US deaths; VA	--	25
363.	2016 --	exposure to excessive natural	heat, 786 US deaths, subset for VA	--	10
364.	2016 --	Jan 20-23, Winter Storm Jonas	, heart attacks/5, hypothermia/5, vehicular/2--	12	
365.	2017 --	exposure to excessive natural	cold/hypothermia, 804 US deaths; VA	--	18
366.	2018 --	exposure to excessive natural	cold/hypothermia; 1,028 US deaths; VA	--	32
367.	2018 --	exposure to excessive natural	heat; 1,012 US deaths; subset for VA	--	18
368.	2019 --	exposure to excessive natural	cold/hypothermia; 1,115 US deaths; VA	--	21
369.	2019 --	exposure to excessive natural	heat, subset of 915 US heat deaths, VA	--	16
370.	2019 --	influenza	; subset of 5,902 US deaths, 1.08 death rate per 100K; VA rate 1.79--	153	
371.	2019 --	May 31, workplace	shooting, Municipal Cen. Bldg. No. 2, Virginia Beach, VA--	12	
372.	2020 --	COVID-19	; 354,215 US Covid deaths (1,070 per 1M); VA, 590 per 1M pop. --	5,032	
373.	2020 --	exposure to excessive natural	heat; 1,184 US deaths; subset for VA	--	11

374.	2021 --	<b>COVID-19</b> , 437,984 US deaths/2.6K deaths per 1M pop.; VA 1.8K per M	--10,555
375.	2021 --	exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; VA 0.43	-- 37
376.	2021 --	exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for VA	-- 16
377.	2021 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 602 US deaths/death rate 0.18; VA 0.25	--22
378.	2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; VA death rate 8.50	--7,100
379.	2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--1,061

#### Some Select/Notable Other **Virginia** Large Loss-of-Life Events:<sup>874</sup>

1850 --	spring, <b>cholera</b> , PA	-- 18
1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571	-- 543
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65	-- 46
1860 --	<b>smallpox</b> (VA subset of 1,263-1,271 smallpox deaths in registration areas & DC)	-- 24
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	-- 468
1879 --	June-May 1880, <b>malarial fever</b> , (VA subset, 20,231 such deaths 38 states)	-- 471
1879 --	June-May 1880, <b>meningitis</b> (VA subset of 7,481 meningitis deaths nationwide)	-- 162
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children; 16,388 US deaths; subset for VA	-- 257
1881 --	<b>diphtheria</b> , especially Norfolk (44) and Richmond (13), VA	-- 61
1889-90,	June 1-May 31, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; VA	-- 488
1897 --	<b>typhoid fever</b> , subset of ≥9,192 US typhoid deaths, Lynchburg/Norfolk/Richmond	-- 31
1898 --	<b>typhoid fever</b> (subset of >4,627 deaths), esp. 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , VA Vol. Inf., <sup>875</sup> VA	-- 139
1899 --	July 21-Aug 1, <b>yellow fever</b> , Hampton, Soldiers' Home (Spanish-American War)	-- 8
1900 --	<b>diphtheria</b> (VA subset of 16,475 US diphtheria deaths in 1900)	-- 275
1900 --	<b>scarlet fever</b> (VA subset, 6,333 US scarlet fever deaths)	-- 53
1901 --	June-July (especially), <b>heatwaves</b> (subset of 4,012 US heat deaths)	-- 5
1907 --	<b>typhoid fever</b> , Alexandria/10, Lynchburg/24, Norfolk/55, Petersburg/12, Richmond/46	-- 149
1910 --	<b>polio</b> outbreak, especially children (VA subset, 1,635 US polio deaths)	-- 15
1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5	-- 109
1911 --	<b>polio</b> ; subset of 1,060 "registration area" deaths (63.1% pop.), VA	-- 13
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; VA rate 5.4	-- 116
1916 --	<b>diphtheria</b> , especially children (VA subset >8,000-17,000 US diphtheria deaths)	-- 244
1919 --	<b>diphtheria</b> (VA subset, 9,160 US diphtheria deaths)	-- 230
1920 --	<b>diphtheria and croup</b> (VA subset of 13,395 deaths in 34 registration states)	-- 334
1920 --	<b>malaria</b> (VA subset of 3,136 malaria deaths reported in 34 registration states)	-- 51
1920 --	<b>scarlet fever</b> (VA subset of 4,004 scarlet fever deaths in 34 registration states)	-- 32
1920 --	Aug 13, premature dynamite explosion; Boxley <b>Quarry</b> ; Pounding Mill, VA	-- 9
1921 --	<b>polio</b> (Acute) esp. late Summer-Fall (VA subset, 1,597 U.S. polio deaths)	-- 28
1925 --	<b>malaria</b> (VA subset of 2,132 US malaria deaths in 1925)	-- 45
1925 --	<b>meningococcus meningitis</b> (VA subset, 1,095 US meningitis deaths)	-- 25
1925 --	<b>polio</b> (VA subset, 1,518 US polio deaths)	-- 29
1925 --	<b>scarlet fever</b> (VA subset of 2,762 US scarlet fever deaths, 48 states)	-- 41
1925 --	<b>scurvy</b> (vitamin C deficiency), VA subset, 2 <sup>nd</sup> highest, 58 scurvy deaths, 24 States	-- 6

<sup>874</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>875</sup> Sixty soldiers of the mentioned units plus the 2<sup>nd</sup> Army Hospital Corps (Camp Alger) died of typhoid at various military posts. Seventy-nine soldiers of various regiments died in Virginia.

**Virginia (continued):**

1927 --	<b>polio</b> (acute) esp. late Summer and Fall; VA subset, 2,013 polio deaths nationwide--	33
1931 --	<b>polio</b> , esp. July-Oct (VA subset of 2,139-2,144 U.S. polio deaths, esp. children)	-- 20
1935 --	Mar 19, head-on <b>auto/truck</b> collision, Naruna, Campbell County, VA	-- 5
1939 --	Aug 11, <b>USAAF B1B takeoff plane crash</b> , Langley Field, VA	-- 9
1940 --	Aug 13-14, remnant rain/ <b>flash floods/slides/debris flows</b> , mts of NC/34 TN/4 VA/5--	5
1942 --	Feb 22, <b>train</b> hits <b>car</b> at railroad crossing, near Abingdon, VA	-- 8
1943 --	Aug 10, <b>lightning kills soldiers</b> , drill field, Fort Belvoir, VA	-- 6
1943 --	Nov 16, <b>mines explode</b> , warehouse, Naval Mine Depot, Yorktown, VA	-- 7-8
1946 --	<b>polio</b> , July-Nov especially; subset of 1,845 US polio deaths)	-- 14
1946 --	Oct 11, <b>USAAF B-25 crash</b> in dense fog 6M W of Alexandria VA (Franconia)	-- 5
1947 --	Dec 16, <b>USN PBX-5 Catalina</b> collides in midair with USN Corsair over Norfolk, VA--7	
	--6 USN PBX-51 Catalina (one survivor)	
	--1 Pilot of USN Corsair fighter	
1948 --	<b>polio</b> , July-Nov especially; 1,895 US polio deaths; subset for VA	-- 29
1948 --	May 20, <b>coal mine No. 2 roof/bump</b> , Dante, VA	-- 6
1948 --	June 30, <b>US Navy Beechcraft transport plane crash</b> 5M north of Fredericksburg VA--5	
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	-- 17
1950 --	<b>measles</b> ; subset of 468 US polio deaths	-- 8
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths	-- 11
1951 --	Feb 7, <b>USMC C-119 Flying Boxcar crash</b> , structural failure/bad weather, Eastville, VA--all 9	
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for VA	-- 26
1952 --	<b>polio</b> , subset of ~3,300 US polio deaths	-- 35
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for VA	-- 577
1953 --	<b>influenza</b> ; 9,500 US deaths; VA subset	-- 311
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; VA subset	-- 444
1954 --	<b>excessive heat</b> (especially July), 978-984 US heat-related deaths; subset for VA	-- 8
1954 --	<b>polio</b> , acute; 1,400 US deaths; subset for VA	-- 10
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; subset for VA	-- 401
1955 --	<b>influenza</b> ; 2,755 US deaths; VA subset	-- 80
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; subset for VA	-- 326
1955 --	Feb 01, home <b>fire</b> , all children, Chuckatuck, VA	-- 6
1956 --	<b>influenza</b> , 2,323 US deaths; subset for VA	-- 67
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; VA subset	-- 292
1957 --	<b>influenza</b> ; 7,463 US deaths; VA subset	-- 205
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; VA subset	-- 279
1958 --	<b>influenza</b> ; 4,442 US deaths; VA subset	-- 92
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; VA subset	-- 279
1958 --	Jan 16, <b>gas explosion</b> , Merchants Ice and Cold Storage Co., Richmond, VA	-- 7
1959 --	Mar 29, <b>fire</b> , residence, children killed, Danielstown, Brunswick County, VA	-- 7
1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; VA death rate 1.2	-- 47
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; VA death rate 4.5	-- 184
1962 --	<b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; VA death rate 1.5	-- 61
1962 --	<b>measles</b> , 408 US deaths/death rate 0.2 per 100,000 population; VA death rate 0.2	-- 10
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; VA death rate 4.7	-- 197

**Virginia (continued):**

1964 --	<b>influenza</b> ;	1,687 US deaths/death rate 0.9; VA death rate 0.5	--	23
1964 --	<b>tuberculosis</b> ;	US deaths 8,303/death rate 4.3 per 100K; VA death rate 3.9	--	172
1965 --	<b>influenza</b> ;	2,295 US deaths/death rate 1.2 per 100K; VA death rate 1.2	--	53
1965 --	<b>tuberculosis</b> ;	7,934 US deaths, death rate 4.1 per 100K; VA death rate 3.5	--	155
1966 --	<b>influenza</b> ;	2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for VA	--	49
1969 --	<b>influenza</b> ;	ICD-8 codes 470-474; 5,971 deaths/death rate 2.96 per 100K; VA 2.50--	115	
1971 --	<b>influenza</b> ;	ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; VA 0.63--	30	
1971 --	<b>tuberculosis</b> ;	4,501 US TB deaths/death rate 2.18 per 100K; VA death rate 2.17	--	103
1972 --	<b>influenza</b> ;	ICD-8 codes 470-74; 4,986 US deaths/death rate 2.38 per 100K; VA 1.78	--	86
1972 --	<b>tuberculosis</b> ;	4,376 US deaths, death rate 2.09 per 100K; VA 1.78	--	86
1973 --	<b>influenza</b> ;	ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; VA 2.08	--	102
1975 --	<b>influenza</b> ;	ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; VA, 1.50	--	76
1975 --	Jan 09, <b>USAF Convair/7</b> and <b>Cessna/2 collide</b>	4 miles west of Newport News, VA--all 9		
1976 --	<b>influenza</b> ;	ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; VA 2.6--	131	
1977 --	<b>heat</b> (esp. summer), ICD-8 E900 excessive natural/US	death rate 0.14, VA, 0.15	--	8
1977 --	<b>influenza</b> ;	1,305 US flu deaths/death rate 0.59 per 100K; VA death rate 0.44	--	23
1978 --	<b>chickenpox</b> ;	91 US chickenpox deaths/death rate 0.04 per 100K, VA, 0.09	--	5
1978 --	<b>influenza</b> ;	4,052 US flu deaths/death rate 1.82 per 100K; VA, 1.25	--	66
1978 --	<b>tuberculosis</b> ;	2,914 US TB deaths/death rate 1.31 per 100K; VA, 1.14	--	60
1979 --	<b>tuberculosis</b> ;	2,007 US TB deaths/death rate 0.89 per 100K; VA, 0.83	--	44
1980 --	<b>influenza</b> ;	2,702 US flu deaths/death rate 1.19 per 100K, VA, 0.95	--	51
1981 --	<b>influenza</b> ;	3,006 US flu deaths/death rate 1.31 per 100K, VA, 0.92	--	50
1981 --	<b>tuberculosis</b> ;	1,937 US TB deaths/death rate 0.84 per 100K; VA, 0.79	--	43
1982 --	<b>influenza</b> ;	727 US flu deaths/death rate 0.31 per 100K, VA, 0.18	--	10
1982 --	<b>tuberculosis</b> ;	1,807 US TB deaths/death rate 0.78 per 100K pop., VA, 0.69	--	38
1983 --	<b>tuberculosis</b> ;	1,779 US TB deaths/death rate 0.76 per 100K pop.; VA, 0.57	--	32
1983 --	Dec 24-27, <b>winter weather, extreme cold</b> /	exposure deaths, snow, icy roads, VA	--	7
1984 --	<b>influenza</b> ;	1,096 US flu deaths, death rate 0.46 per 100K population, VA, 0.25	--	14
1984 --	<b>tuberculosis</b> ;	1,729 US TB deaths, death rate 0.73 per 100K pop.; VA, 0.53	--	30
1985 --	<b>influenza</b> ;	2,054 US flu deaths, death rate 0.86 per 100K population, VA, 0.44	--	25
1985 --	<b>tuberculosis</b> ;	1,752 US TB deaths, death rate 0.74 per 100K pop.; VA, 0.58	--	33
1985 --	Jan 19-23, <b>winter weather, exposure/hypothermia</b> ,	VA	--	5
1986 --	<b>influenza</b> ;	1,838 US flu deaths; death rate 0.76 per 100K population: VA, 0.62	--	36
1987 --	<b>HIV AIDS</b> ;	13,468 deaths/US death rate 5.55 per 100K population; VA rate 3.28	--	195
1987 --	<b>influenza</b> ;	632 US flu deaths, death rate 0.26 per 100K population; VA rate 0.22	--	13
1987 --	<b>tuberculosis</b> ;	1,755 US TB deaths, death rate 0.72 per 100K pop., VA, 0.51	--	30
1988 --	<b>HIV AIDS</b> ;	16,602 deaths/US death rate 6.8 per 100K population; VA, 4.25	--	257
1988 --	<b>tuberculosis</b> ;	1,921 US TB deaths, death rate 0.78 per 100K pop.; VA, 0.61	--	37
1988 --	summer <b>heat</b> (exposure to excessive natural heat/hyperthermia),	VA	--	9
1989 --	<b>HIV AIDS</b> ;	22,082 US deaths, death rate 8.9 per 100K population; VA, 5.03	--	308
1989 --	<b>influenza</b> ;	1,593 US flu deaths, death rate 0.64 per 100K pop.; VA, 0.34	--	21
1989 --	<b>tuberculosis</b> ;	1,970 US TB deaths, death rate 0.80 per 100K pop.; VA, 0.38	--	23
1989 --	Aug 28, <b>Bay Land Aviation Piper Chieftain crash</b> ,	3 <sup>rd</sup> Indg. attempt, Lynchburg AP VA--5		
1989 --	Sep 22-23, <b>Hurricane Hugo</b> ,	VA	--	6



**Virginia (continued):**

1990 --	<b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K pop.; VA, 0.58	--	36
1990 --	<b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; VA, 0.42	--	26
1990 --	May 10, <b>Professional Pilot Services Cessna</b> loses wing, crashes ~Shady Grove Corner VA--6		
1991 --	<b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; VA, 0.38	--	24
1991 --	<b>tuberculosis</b> , 1,713 US TB deaths, death rate 0.68 per 100K, VA, 0.41	--	26
1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, VA, 0.36	--	23
1992 --	<b>tuberculosis</b> , 1,705 US TB deaths, death rate 0.66 per 100K; VA, 0.45	--	29
1992 --	June 19, <b>USN Sea Stallion</b> explosion/crash after refueling, Lynnhaven Bay, VA Beach VA--7		
1992 --	July 20, <b>experimental Osprey crash</b> , Potomac Riv. during rotor transition, Quantico MAS, VA--7		
1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate 0.40 per 100K; VA, 0.31	--	20
1993 --	<b>tuberculosis</b> ; 1,631 US TB deaths, death rate 0.63 per 100K; VA, 0.51	--	33
1993 --	Jan 25, CIA HQ <b>shootings</b> , Aimal Kasi, Route 123, Langley, VA	--	2
1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; VA, 0.23	--	15
1994 --	<b>tuberculosis</b> ; 1,478 US TB deaths; death rate 0.56 per 100K, VA, 0.32	--	21
1994 --	June 16, <b>lightning</b> , Lake Moomaw, Bath County, VA	--	5
1994 --	Aug 16, <b>private piper flies into cloud shrouded mountain</b> 11.5M so. of Front Royal VA--5		
1995 --	<b>tuberculosis</b> ; 1,336 US TB deaths; death rate 0.5 per 100K; VA, 0.37	--	25
1996 --	Sep 05-06, <b>Hurricane Fran</b> , VA	--	6
1996 --	Dec 22, <b>Airborne Express DC-8 crash after testing stall and recover test</b> , near Narrows VA-6		
1997 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.43 per 100K, VA, 0.18	--	12
1998 --	<b>influenza</b> , ICD-9 code 487.0; US death rate 0.62 per 100K; VA, 0.29	--	20
1998 --	<b>tuberculosis</b> , ICD-9 code 010-018, death rate 0.40 per 100K; VA, 0.30	--	21
1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; VA, 0.543	--	38
1999 --	<b>tuberculosis</b> , ICD-10 code A16-A19, US death rate 0.333 per 100K; VA, 0.286	--	20
1999 --	Sep 16, <b>Hurricane Floyd</b> , VA	--	4-5
2000 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.627 per 100K; VA, 0.452	--	32
2000 --	<b>tuberculosis</b> , ICD-10 code A16-A19; US death rate 0.276 per 100K; VA, 0.155	--	11
2001 --	<b>tuberculosis</b> , ICD-10 code A16-A19, US death rate 0.268 per 100K; VA, 0.208	--	15
2002 --	<b>tuberculosis</b> , ICD-10 code A16-A19, US death rate 0.273 per 100K, VA, 0.302	--	22
2003 --	<b>tuberculosis</b> , ICD-10 code A16-A19, US death rate 0.25 per 100K; VA rate 0.16	--	12
2004 --	Aug 30, <b>Hurricane Gaston</b> , esp. Richmond and nearby counties, VA	--	9
2005 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.613 per 100K; VA rate 0.528	--	40
2006 --	<b>tuberculosis</b> , ICD-10 code A16-A19, death rate 0.22 per 100K; VA rate 0.14	--	11
2009 --	<b>influenza (avian)</b> , ICD-10 code J09; US death rate 0.5 per 100K; VA rate 0.3	--	22
2009 --	<b>tuberculosis</b> , ICD-10 code A16-A19; US death rate 0.2 per 100K; VA rate 0.2	--	12
2010 --	<b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.9 per 100K, VA 0.7	--	57
2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; VA rate 1.5	--	123
2011 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin; US death rate 0.9 per 100K; VA, 0.8	--	67
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.5 per 100K; VA rate 1.6	--	133
2011 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.2 per 100K, VA rate 0.2	--	18
2011 --	Apr 16, <b>tornadoes</b> , strong winds and flash flooding, multiple counties	--	6
2012 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin; US and VA death rate 0.8 per 100K	--	65
2012 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; VA rate 0.3	--	27
2012 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; VA rate 1.7--138		

2012 --	<b>fungal meningitis due to tainted steroid injections</b> , VA	--	5
2012 --	June 29, <b>thunderstorms</b> , tree falls, Albemarle and Fairfax Counties	--	6
2013 --	<b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; VA, 1.8	--	145
2013 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; VA rate 0.8	--	70
2013 --	<b>tuberculosis</b> , ICD-10 Code A16-A19, US and VA death rate 0.2 per 100,000	--	13
2014 --	<b>diarrhoea/gastroenteritis</b> of Infectious Origin; US and VA death rate 0.8 per 100K	--	63
2014 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100K; VA rate 2.0	--	168
2014 --	<b>tuberculosis</b> , ICD-10 Code A16-A19; US death rate 0.2 per 100K, VA rate 0.1	--	10
2015 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US and VA death rate 1.6 per 100,000	--	134
2015 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; VA rate 1.7	--	139
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; VA rate 1.4	--	120
2016 --	<b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.9 per 100,000; VA rate 0.5	--	41
2016 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.2 per 100K, VA rate 0.1	--	10
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; VA rate 1.5	--	128
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; VA rate 1.25	--	106
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; VA rate 1.62	--	137
2017 --	<b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; VA subset	--	15
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; VA death rate 1.44	--	123
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., VA rate 2.57	--	219
2018 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 542 US deaths/death rate 0.17; VA subset	--	11
2018 --	Oct 11-12, <b>Hurricane Michael</b> , VA subset of 57-59 US deaths	--	6
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; VA rate 1.20	--	102
2019 --	<b>tuberculosis</b> , ICD-10 codes A16-A19 (526 US TB deaths); VA subset	--	11
2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; VA death rate 1.25	--	107
2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; VA death rate 1.33	--	114
2020 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; VA subset	--	15
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; VA death rate 1.48	--	0.83

#### Breakout by Type of **Virginia** Large Loss-of-Life Events (10 or more fatalities):

- 170 -- **Disease**, select communicable, especially epidemics. (Plus **151** in "Other.")
- 61 -- **Winter Weather, Cold, Hypothermia**. (Plus 2 events with 5-7 deaths each.)
- 31 -- **Maritime/In-land water craft**.
- 25 -- **Heat**. Plus 4 years 5-9 deaths: 5 in 1901, 8 in 1954, 8 in 1977, 9 in 1988.
- 23 -- **Aviation**. (Plus **12** events noted with 5-9 deaths each.)
- 18 -- **Mining**. (Plus **2** noted with 6 and 9 fatalities.)
- 17 -- **Violence** (including 1 cross-listed under Winter Weather and in Violence {Jamestown})
- 11 -- **Hurricanes**. (5 <10 deaths: 6/1989, 6/1986, 4-5/1989, 9/2004, 6/2018.)
- 8 -- **Rail** (including two trestle failures cross-listed in Structural Failures).
- 7 -- **Explosions**. (Plus two explosions, 1943 and 1958 with 7-8 deaths.
- 6 -- **Fire-Structural**. (Plus **two** -- one with 7 and one with 6 deaths in "Other.")
- 6 -- **Flooding** (Three cross-listed with Hurricanes and Tropical Storm remnants; 1 <10).
- 5 -- **Structural Failures** (including two cross-listed in Rail).
- 3 -- **Tornadoes** (including one cross-listed in Hurricanes).
- 2 -- **Road/Highway/Vehicular**. (Plus **2** events 5-8 deaths: 5 dead in 1935; 8 deaths in 1942.)
- 2 -- **Starvation/Famine**

**Virginia (continued):**

**1 -- Windstorm (Derecho)**

**0 -- Lightning.** (However, one event in 1943 with seven deaths and one in 1995 with five.

**0 -- Tainted medication.** (Five died of fungal meningitis in 2012 due to tainted steroid shots.)

## WA

## Washington

1. 1829-33 -- **malaria?** epidemic, Native Americans, two Fort Vancouver villages<sup>876</sup> -- >400
2. 1847 -- fall, **measles** epidemic, Cayuse Indians, Southwestern WA -- >200
3. 1847 -- Nov 29, Whitman **massacre**, Missionaries, ~Walla Walla, WA -- 15
4. 1853 -- **smallpox** epidemic, Native Americans, Pacific Northwest<sup>877</sup> --2,000-3000
5. 1853 -- Jan 09, bark **Vandalia** found bottom-up off McKenzies Head ~North Head WA -- 9-12
6. 1855 -- Oct 27-28, white/native **conflict**, Puget Sound area, White River val., WA --10-11
7. 1860 -- Nov 10, gale, American ship **John Marshall** lost, Strait of Juan de Fuca ~Cape Flattery WA~10-12
8. 1875 -- Nov 04, steamship **Pacific** sinks, collision with **Orpheus** off N. WA Coast --200-300
9. 1875 -- Nov 18, OR schooner **Sunshine** found bottom-up, Cape Disappointment, WA<sup>878</sup>-- 25
10. 1878 -- Jan 18 last sighting, American ship **Grace Darling**, gale off Cape Flattery, WA-- 15
11. 1880 -- May 04, squall, **fishing boats capsize**, Columbia River mouth, OR and WA<sup>879</sup>--15-20
12. 1881 -- Oct-Dec, **smallpox** epidemic, Columbia County, especially Dayton, WA -- 21
13. 1886 -- ~Sep 20 Amer. ship **Sierra Nevada**, Seattle for San Fran., founders off Cape Flattery WA--13
14. 1886 -- Dec 14, gale, American ship **Harvey Mills** sinks ~50m SW of Cape Flattery WA--17-21
15. 1887 -- Early Apr, Amer. ship **St. Stephens** (Seattle-SF CA), lost in gale off Cape Flattery WA--22-27
16. 1887 -- Apr 01, ship **Eldorado** sinks (Seattle to S.F., CA) in storm off Cape Flattery, WA--12
17. 1888 -- Feb 05, British ship **Abercorn** grounds in fog, west, off Aberdeen, WA --22-23
18. 1889-90 --June-May, **typhoid fever**, subset of 27,058 US typhoid deaths, WA -- 232
19. 1890 -- Jan 23, bark **Nellie May** (Port Madison WA for SF CA) lost, gale? off Cape Flattery WA-13
20. 1890 -- Sep 06, **dynamite explosion**, No. Pacific Freight Yard, Spokane Falls, WA -- 15
21. 1892 -- May 10, Roslyn Coal **Mine** No. 2 gas explosion, Roslyn, WA --all 45
22. 1892 -- Aug 26, **William A. Campbell** sinks in storm (out of Port Townsend, WA) --11-14
23. 1893 -- Jan 29, American bark **Cowlitz** left Port Gamble, WA for SF, never seen again-- 14
24. 1894 -- Aug 24, Franklin Coal **Mine** fire and asphyxiations, Franklin, WA -- 37
25. 1894 --~Sep 30, American ship **Ivanhoe** from Seattle lost in storm off Columbia Riv.?, WA-23
26. 1894 -- Oct 25, last comm. from WA seal schooner **George R. White**, Unalaska, AK<sup>880</sup>-- 15
27. 1894 -- Dec 07-8, steamer **Keweenaw** lost in gale, Pacific, Cape Flattery, WA vicinity --29-31
28. 1894 -- Dec 7-8, steamer **Montserrat** lost in gale, Pacific, Cape Flattery, WA vicinity -- 29
29. 1895 -- Apr 08, coal **mine** explosion, Blue Canyon Coal Mine, Lake Whatcom, WA -- 23
30. 1896 -- Mar 08, Seattle schooner **Lincoln** departs for Kodiak, AK, lost, storm, Pacific --25-43
31. 1898 -- Feb 05, gale, Seattle schmr. **Clara Nevada** grounds/sinks ~Eldred Rock, AK<sup>881</sup>-82-104
32. 1898 -- May 22, Seattle schooner **Jane Grey**, leaks, sinks, W of Cape Flattery, WA -- 34
33. 1899 -- Jan 14/15, sailing ship **Andelana** sinks while moored at Tacoma, WA --17-20

<sup>876</sup> The number 400 applies only to two villages near Fort Vancouver. There were more deaths. This was a part of a broader Pacific Coast states epidemic, and there were deaths along the Columbia River shoreline on both shores.

<sup>877</sup> Cross-listed in Oregon since the epidemic was on the coast and both sides of the Columbia River.

<sup>878</sup> Cross-listed in Oregon in that while the remains of the *Sunshine* were found at Cape Disappointment which is on the extreme southwest coast of Washington opposite the Columbia River from Oregon, this Oregon schooner had sailed from Coos Bay, OR, to San Francisco and was on return trip. Whatever happened probably happened along the Oregon coast and the vessel was carried northward past Coos Bay to the north side of the Columbia River.

<sup>879</sup> Cross-listed in Oregon in that fisherman from both sides of the river were out fishing and were drowned.

<sup>880</sup> The *White* was built at Port Madison, WA in 1890. Ownership was in La Conner, WA. Departed Seattle, WA on July 4, 1894. Last communication was a letter written by the captain at Unalaska noting intent on following seal heads south to the tropics and then back north – the *White* was never seen again.

<sup>881</sup> Cross-listed in WA where the *Clara Nevada* was registered, owned, sailed from, and was on the way back to.



**Washington (continued):**

34. 1899 -- Dec 09, coal **mine** explosion, Carbon Hill No. 7, Carbonado, WA -- 31
35. 1900 -- July 04, **trolley car derails**, Tacoma, WA -- 43
36. 1902 -- Sep 9-15, **forest fires**, esp. Clark/Cowlitz counties. WA (also NW OR)<sup>882</sup> --55-62
37. 1902 -- Oct 01, Lawson Coal **Mine** disaster, Black Diamond, WA -- 11
38. 1902 -- Dec 21, last sighting of American ship **Florence**, Tacoma, WA for Honolulu -- ~15
39. 1903 -- Jan 2, bark **Prince Arthur** grounds/breaks on rocks 12m so. of Ozette River, WA-- 18
40. 1903 -- Jan 20, **trains collide**, Great Northern RR, ~Chiwaukum, Chelan County, WA-- ≥12
41. 1903 -- Nov 02, storm, WA steamer **Discovery** founders, off Lituya Bay, SE coast AK<sup>883</sup>-26-30
42. 1904 -- Jan 8/9, storm, steamer **Clallam** floods/sinks, Strait of Juan de Fuca (east), WA-- 56
43. 1904 -- Dec 07, coal **mine** explosion, No. 5 Coal Mine, Burnett, WA -- 17
44. 1905 -- Nov 13~, storm?, WA fish schnr. **Nellie Coleman** lost off Cape Yakataga, AK<sup>884</sup>-- ≥30
45. 1906 -- Nov 18, steamers **Dix and Jeanie** collide, **Dix sinks**, Puget Sound, WA --42-45
46. 1907 -- Sep 05, **fire**, Webb Hotel, Shelton, WA -- 11
47. 1909 -- Oct 03, coal **mine** explosion, Northwestern Coal Mine, Roslyn, WA -- 10
48. 1909 -- Dec 23, schooner **Susie M. Plummer** abandoned, Cape Flattery, WA -- 10
49. 1910 -- **polio**, especially children, WA -- 81
50. 1910 -- **smallpox** (WA subset of 403-415 smallpox deaths in 23 reporting States) -- 14
51. 1910 -- **typhoid fever**; subset, 12,673 US deaths/21 states/death rate 23.5; WA, 28.0 -- 324
52. 1910 -- Mar 01, **avalanche, two trains derailed**, Stevens Pass, Wellington, WA --96-118
53. 1910 -- Mar 03, **flooding**, Colfax, WA -- 12
54. 1910 -- Nov 06, coal **mine** explosion, Lawson Coal Mine, Black Diamond, WA. -- 16
55. 1913 -- Aug 17, steamer **State of California** hits rock, Gambier Bay, Admiralty Is. AK<sup>885</sup> --31-32
56. 1914 -- Aug 26, **fog**, steamers collide, **Admiral Sampson** sinks, Puget Sound, off Pt. No Pt., WA-16
57. 1915 -- Nov 16, **mine** dust explosion, Pacific Northwestern coal mine, Ravensdale WA-- 31
58. 1918 -- Aug 28, coal **mine** explosion, Burnett Coal Mine, Burnett, WA -- 12
59. 1918-1920-- **influenza and pneumonia** epidemic, WA --8,115-8,953
- 1918 -- **influenza and pneumonia** epidemic, WA --4,943-5,781
- 1919 -- **influenza and pneumonia** epidemic, WA -- 1,910
- 1920 -- **influenza and pneumonia**, "registration" cities, WA-- 1,262
60. 1919 -- Feb 06, **fire**, Tokyo Rooming House, South Weller St., Seattle, WA -- 10
61. 1920 -- Nov 26, gale, schooner-barge **W. J. Pirrie** driven onto rocks ~Cake Rock, WA--18-20
62. 1921 -- **polio**, esp. late Summer-Fall, WA subset/3<sup>rd</sup> highest state loss, 1,597 US deaths-- 122
63. 1923 -- Dec 05, steamer **T.W. Lake** lost in storm, near San Juan Islands, WA --13-14
64. 1925 -- **meningococcus meningitis** (WA subset, 9<sup>th</sup> highest, 1,095 US meningitis deaths)-- 41
65. 1927 -- **polio** (Acute) esp. late Summer and Fall (WA subset, 2,013 U.S. polio deaths)-- 65
66. 1929 -- Oct 17, **fire**, Portland Hotel Rooming House, First Avenue, Seattle, WA -- 10
67. 1930 -- Apr 12, coal **mine** explosion, Carbonado Coal Mine, Carbonado, WA -- 17
68. 1930 -- Sep 01, Seattle halibut schooner **Orient** hit by freighter, sinks ~Vancouver Isl., B.C.-10

<sup>882</sup> Death toll noted here is only for WA. We do not know the OR total, but note 3 specific deaths in Narrative doc.

<sup>883</sup> Cross-listed in WA in that the *Discovery* was registered in Port Townsend, owned by Port Townsend company, and captained by M. R. Walters of Port Townsend.

<sup>884</sup> Cross-listed in WA in that we consider this to also be a WA loss. The *Nellie Coleman* was registered and owned in Seattle, where she sailed from on this cod-fishing voyage, and was returning to afterwards.

<sup>885</sup> Cross-listed herein in that at least 10 of the fatalities were from Washington, especially Seattle.

**Washington (continued):**

69. 1933 -- Dec 20-25, storms, **slides** and **flooding**, Pacific Northwest (WA subset)<sup>886</sup> --10-11
70. 1934 -- Oct 21, **windstorm**, WA -- 21
71. 1936 -- Jan 12, steamer SS **Iowa** grounds and sinks, Heavy Sea, Peacock Spit, WA -- 34
72. 1939 -- Mar 18, Boeing Stratoliner **test flight crash**, near Adler, Mt. Rainier, WA -- 10
73. 1940 -- **polio**, especially children (WA subset of 1,026 polio deaths nationwide) -- 36
74. 1942 -- Sep 13, last sighting, Seattle halibut schooner **Helgeland** off Kodiak Isl., AK --10-11
75. 1943 -- Jan 31, **fire**, Lake Forest Park Sanitarium, Lake Forest Park, WA -- 32
76. 1943 -- Feb 11, **plane crash**, U.S. Army AF Bomber, Near Wala Walla, WA -- 10
77. 1943 -- Feb 18, **plane crash**, Boeing Aircraft XB-29, Frye Packing, Seattle, WA --32-34
78. 1943 -- Mar 29, **plane crash**, U.S. Army Air Force B-17 42-5313, Ephrata AFB, WA -- 11
79. 1943 -- May 16, **planes collide** on runway, USAAF B-17's, Ephrata Army Air Base, WA--10
80. 1943 -- July 24, **plane crash**, USAAF B-17A, near Army Air Base, Ephrata, WA -- 13
81. 1944 -- June 22, **plane crash**, USAAF B-24J, near Walla Walls Army Air Field, WA -- 10
82. 1944 -- July 19, **plane crash**, USAAF Consolidated Liberator 42-51617, Touchet WA-- 12
83. 1945 -- Feb 17, **fire** from welding in candy co., Maefair Apartments, Tacoma, WA -- 19
84. 1945 -- Nov 26, school **bus** goes into Lake Chelan in snowstorm, Chelan, WA -- 16
85. 1946 -- **polio**, July-Nov especially; subset of 1,845 U.S. polio deaths) -- 34
86. 1946 -- Dec 10, **USMC R5C-1 transport** flies into So. Tahoma Glacier, Mt. Rainier, WA--32
87. 1948 -- **polio**, July-Nov especially, subset of 1,895 US polio deaths -- 42
88. 1949 -- Jan 02, **Seattle Air Charter** (Yale students) takeoff crash, Seattle-Boeing Field, WA--14
89. 1949 -- Nov 01, **planes collide**, Eastern Air 537/Lockheed P-38, Wash. Nat. AP, WA -- 55
90. 1951 -- Jan 16, **Northwest Orient Flight 115 uncontrolled dive to ground** near Reardan, WA--10
91. 1951 -- Jan 30, **McClary Convalescent Home (for aged) fire** (incinerator), Hoquiam WA-- 21
92. 1951 -- Aug 13, **USAF B-50 plane crash/6**, Lester Apartments/5, Beacon Hill, WA -- 11
93. 1952 -- Jan 09, SS **Pennsylvania** (of Tacoma) founders ~455M off Cape Flattery WA -- 46
94. 1952 -- Apr 15, **USAF B-36 takeoff crash** and fire, near Fairchild AFB, Spokane, WA-- 15
95. 1952 -- Nov 12, **US Navy P4Y-2 Privateer plane crash**, 10M W of Shelton, WA --all 11
96. 1952 -- Nov 28, USAF Douglas C-54 aborted **approach crash** ~McChord AFB/Tacoma, WA--37
97. 1952 -- Dec 20, USAF Globemaster **takeoff crash**, Moses Lake near Larson AFB, WA--87
98. 1953 -- **measles**, 483 US deaths/23 States double digits; WA subset -- 13
99. 1953 -- Jan 28, **USN PB4Y**, in poor weather & visibility, flies into Black Peak, WA --all 10
100. 1953 -- Sep 01, **Regina Cargo Air (military contract) flies into mt. ridge** ~Vail, WA-- 21
101. 1955 -- **polio** (acute); 1,043 deaths (all states, double digits in 23); WA subset -- 18
102. 1955 -- Nov 17, Peninsular Air Transport (mil. charter) **takeoff crash**, Seattle-Boeing Field, WA--28
103. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) -- 996
104. 1958 -- Sep 08, USAF **B-52s collide** on Fairchild AFB approach ~Airway Heights, WA--13
105. 1959 -- **polio** (acute, as opposed to late effects of); 454 US deaths; WA subset -- 15
106. 1961 -- **influenza**, 2,137 US deaths/death rate 1.2 per 100K; WA death rate 1.3 -- 37
107. 1961 -- May 24, USAF **Globemaster** power loss **crash** after takeoff, McChord AFB, WA--18
108. 1962 -- **influenza**; 3,431 US deaths/death rate 1.8 per 100K; WA death rate 2.1 -- 64
109. 1962 -- Mar 21, **USN P2V Neptune crash** mt. ridge 2M south of Elk Mountain, WA --all 10
110. 1962 -- Sep 10, **USAF SAC tanker crash**/Fairchild approach, Mt. Kit Carson ~Spokane, WA--44

<sup>886</sup> Have identified cause of death for 16 of 24 of Pacific NW deaths. Of the 10-11 in WA with identified cause of deaths, 1-2 were a car going off bridge, 3 due to falling trees, 4 due to non-vehicular drownings, and 2 due to slides.

**Washington (continued):**

111.	1962 -- Oct 11-12, <b>wind storms</b> , western WA	-- 9-11
112.	1964 -- <b>influenza</b> ; 1,687 US deaths/death rate 0.9; WA death rate 3.8	-- 114
113.	1966 -- <b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for WA--	154
114.	1966 -- <b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; WA--	15
115.	1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; WA 4.9--	167
116.	1968 -- Dec 29-Mar 01, A2 Hong Kong <b>influenza-pneumonia</b> epidemic, 3 cities <sup>887</sup> --	139
117.	1969 -- <b>influenza</b> , ICD-8 codes 470-474; 5971 deaths/death rate 2.96 per 100K; WA 5.8--	196
118.	1969 -- Feb 05, Angeles Flying Service takeoff <b>plane crash</b> , Clallam Co. AP, Port Angeles WA-	10
119.	1970 -- <b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; WA 2.5--	85
120.	1970 -- Mar 20, <b>arson fire</b> , Ozark Hotel (“flopouse”), Seattle, WA	-- 20
121.	1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; WA 1.9--	66
122.	1971 -- Apr 25, <b>fire</b> , Seventh Avenue Apartments building, Seattle, WA	-- 12
123.	1972 -- <b>excessive natural cold</b> , ICD-8 code E901, 490 US deaths; WA	-- 12
124.	1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; WA 2.79--	96
125.	1973 -- <b>influenza</b> ; ICD-8 codes 470-74; 5,131 US deaths/death rate 2.43; WA 7.23 --	251
126.	1974 -- <b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; WA/1.3--	45
127.	1975 -- <b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; WA/4.3--	154
128.	1975 -- Mar 20, USAF Transport <b>plane crash</b> , Olympic Nat. Park, Mt. Constance, WA--	16
129.	1976 -- exposure to excessive natural <b>cold/hypothermia</b> ; 424 US deaths; WA	-- 12
130.	1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; WA 9.9-	365
131.	1977 -- <b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; WA	-- 11
132.	1977 -- <b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; WA rate 1.03	-- 49
133.	1977 -- Mar 27, <b>KLM &amp; Pan Am collide</b> , fog, Tenerife Airport, Canary Is., <b>WA dead</b> --	12
134.	1978 -- exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; WA	-- 10
135.	1978 -- <b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; WA rate 2.70	-- 105
136.	1978 -- Feb 10, <b>plane crash</b> , Columbia Pacific Air N199EA, Richland, WA	-- 17
137.	1979 -- <b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; WA rate 0.85	-- 34
138.	1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, WA rate 2.54	-- 105
139.	1980 -- May 18, <b>volcano eruption</b> , Mount St. Helens (includes 34 WA residents)	--55-67
140.	1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, WA rate 1.37	-- 58
141.	1981 -- June 21, <b>ice fall/avalanche</b> , Ingraham Glacier climbers, Mt. Rainier, WA	-- 11
142.	1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, WA rate 1.05	-- 45
143.	1983 -- <b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, WA rate 1.79	-- 77
144.	1983 -- Feb 19, <b>shooting</b> deaths (13 of 14), Wah Mee Club, Seattle “Chinatown”	-- 13
145.	1983 -- Aug 21, Landry Aviation <b>plane with skydivers stalls/crashes</b> , Silvana, WA--	11
146.	1984 -- <b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, WA rate 1.36	-- 59
147.	1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, WA rate 2.11	-- 93
148.	1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: WA rate 1.46	-- 65
149.	1987 -- <b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; WA rate 0.53	-- 24
150.	1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; WA rate 1.72	-- 80
151.	1989 -- <b>influenza</b> , 1,593 US flu deaths, death rate 0.64 per 100K; WA rate 1.14	-- 54
152.	1990 -- <b>influenza</b> , 2,098 US flu deaths; death rate 0.84 per 100K; WA rate 1.25	-- 61
153.	1991 -- <b>influenza</b> , 1,137 US flu deaths, death rate 0.45 per 100K; WA rate 0.56	-- 28

<sup>887</sup> CDC MMWR reporting cities of Seattle, Spokane, Tacoma. U.S. influenza epidemic death toll was 33,800.

**Washington (continued):**

154.	1992 --	<b>influenza</b> , 1,006 US flu deaths, death rate 0.39 per 100K, WA rate 0.45	--	23
155.	1993 --	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; WA	--	11
156.	1993 --	<b>influenza</b> , 1,044 US flu deaths, death rate of 0.40 per 100K; WA rate 0.87	--	46
157.	1994 --	exposure to excessive natural <b>cold/hypothermia</b> ; 633 US deaths; WA	--	13
158.	1994 --	<b>influenza</b> , 1,229 US flu deaths; death rate 0.47 per 100K; WA rate 0.93	--	50
159.	1994 --	Aug 21, <b>SUV</b> crosses center-line, hits sedan, Hwy Alt 97 ~Wenatchee, WA	--	11
160.	1995 --	exposure to excessive natural <b>cold/hypothermia</b> ; 553 US deaths; WA	--	10
161.	1995 --	<b>influenza</b> , ICD-9 code 487.0, US death rate 0.227 per 100K, WA, 0.456	--	25
162.	1996 --	exposure to excessive natural <b>cold/hypothermia</b> ; 685 US deaths; WA	--	18
163.	1996 --	<b>influenza</b> , subset, 745 US flu deaths/US death rate 0.276 per 100K; WA, 0.54	--	30
164.	1996 --	Dec 26-Jan 3, '97, <b>winter storms</b> , snow/heavy rain/snowmelt/flooding, WA <sup>888</sup>	--	11
165.	1997 --	<b>influenza</b> , code 487.0; US death rate 0.26 per 100K (720 US deaths); WA, 0.564	--	32
166.	1998 --	exposure to excessive natural <b>cold/hypothermia</b> ; 420 US deaths; WA	--	12
167.	1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; WA, 0.822	--	48
168.	2001 --	exposure to excessive natural <b>cold/hypothermia</b> ; 599 US deaths; WA	--	18
169.	2001 --	Apr 01-02, fishing boat <b>Arctic Rose</b> (homeport Seattle, WA) sinks, Bering Sea--	--	15
170.	2002 --	exposure to excessive natural <b>cold/hypothermia</b> ; 646 US deaths; WA	--	16
171.	2002 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.253 per 100K; WA, 0.413	--	25
172.	2003 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.618 per 100K; WA, 1.081	--	66
173.	2004 --	exposure to excessive natural <b>cold/hypothermia</b> ; 676 US deaths; WA	--	17
174.	2005 --	exposure to excessive natural <b>cold/hypothermia</b> ; 700 US deaths; WA	--	24
175.	2005 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.613 per 100K; WA, 0.879	--	55
176.	2006 --	exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; WA	--	18
177.	2006 --	exposure to <b>excessive natural heat</b> ; 1,104 US deaths, subset for WA	--	11
178.	2006 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.285 per 100K; WA, 0.361	--	23
179.	2006 --	Dec 13-22, <b>windstorm</b> , <b>carbon monoxide poisonings</b> (8), esp. Kings Co. WA <sup>889</sup>	--	15
180.	2007 --	exposure to excessive natural <b>cold/hypothermia</b> ; 711 US deaths; WA	--	19
181.	2007 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.14 per 100K; WA, 0.29	--	19
182.	2007 --	Oct 7, <b>plane crash</b> , Kapowsin Air Sports (skydiving), near Naches, WA	--	10
183.	2008 --	exposure to excessive natural <b>cold/hypothermia</b> ; 641 US deaths; WA	--	20
184.	2009 --	<b>diarrhoea/gastroenteritis</b> , Infectious Origin; US death rate 0.9 per 100K; WA	--	65
185.	2009 --	exposure to excessive natural <b>cold/hypothermia</b> ; 616 US deaths; WA	--	18
186.	2009 --	exposure to <b>excessive natural heat</b> ; 555 US deaths, subset for WA	--	15
187.	2009 --	<b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); WA, 0.8	--	51
188.	2009 --	<b>H1N1 Swine Flu</b> , especially fall/winter; subset of >12,000 US deaths; WA	--	98-99
189.	2010 --	exposure to excessive natural <b>cold/hypothermia</b> ; 710 US deaths; WA	--	26
190.	2010 --	<b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.4 per 100K; WA, 3.8	--	253
191.	2011 --	exposure to excessive natural <b>cold/hypothermia</b> ; 0.216 death rate; WA, 0.23	--	16
192.	2011 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; WA, 0.6	--	43
193.	2011 --	<b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.5 per 100K; WA, 3.5	--	240

<sup>888</sup> WA subset of storms with snow and heavy rain in Pacific northwest, including northern CA causing at least 19 deaths. WA deaths we have been able to identify (10 of 11) were due to roof collapse (1), tree branch falls (3), and vehicular accidents in adverse winter weather driving conditions.(6)

<sup>889</sup> Carbon monoxide poisoning (8), wind-driven debris (4), drowning, electrocution and fire (one each).



**Washington (continued):**

194.	2012	-- exposure to excessive natural <b>cold/hypothermia</b> ; 501 US deaths; WA	--	17
195.	2012	-- <b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.4 per 100K; WA, 0.5	--	32
196.	2012	-- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100K; WA 3.9	--	267
197.	2013	-- exposure to excessive natural <b>cold/hypothermia</b> ; 725 US deaths; WA	--	24
198.	2013	-- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100K; WA 3.2	--	222
199.	2013	-- <b>tuberculosis</b> , ICD-10 Code A16-A19, US death rate 0.2 per 100K; WA 0.3	--	18
200.	2014	-- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.8 per 100K, WA 0.9	--	67
201.	2014	-- exposure to excessive natural <b>cold/hypothermia</b> ; 930 US deaths; WA	--	16
202.	2014	-- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100k; WA, 3.8	--	269
203.	2014	-- Mar 22, <b>mudslide</b> , State Route 530, near Oso, Snohomish Co., WA <sup>890</sup>	--	43-44
204.	2015	-- exposure to excessive natural <b>cold/hypothermia</b> ; 815 US deaths; WA	--	33
205.	2015	-- <b>influenza</b> , (ICD-10 codes J09J11; US death rate 1.6 per 100K; WA rate 2.0	--	141
206.	2015	-- <b>tuberculosis</b> , ICD-10 Codes A16-19; US death rate 0.1 per 100K, WA 0.2	--	12
207.	2015	-- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100K; WA 3.4	--	243
208.	2016	-- exposure to excessive natural <b>cold/hypothermia</b> ; 731 US deaths; WA	--	25
209.	2016	-- exposure to <b>excessive natural heat</b> , 786 US deaths, subset for WA	--	11
210.	2016	-- <b>influenza</b> , ICD-10 codes J09-J11.8; US death rate 0.9; WA rate 1.5	--	106
211.	2016	-- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; WA, 2.8	--	202
212.	2017	-- exposure to excessive natural <b>cold/hypothermia</b> ; 804 US deaths; WA <sup>891</sup>	--	39
213.	2017	-- <b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; WA rate 4.24	--	314
214.	2018	-- exposure to excessive natural <b>cold/hypothermia</b> ; 1,028 US deaths; WA	--	25
215.	2018	-- <b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., WA rate 3.74	--	282
216.	2018	-- <b>tuberculosis</b> , ICD-10 codes A16-19; 542 US deaths/death rate 0.17; WA 0.27	--	20
217.	2019	-- exposure to excessive natural <b>cold/hypothermia</b> ; 1,115 US deaths; WA	--	46
218.	2019	-- <b>influenza</b> ; subset of 5,902 US deaths, 1.08 death rate per 100K; WA rate 3.09	--	235
219.	2020	-- <b>COVID-19</b> ; 354,215 US Covid deaths; 1,070 per 1M; WA, 468 per 1M pop.	--	3,564
220.	2021	-- <b>COVID-19</b> , 437,984 US deaths/2.6K deaths per 1M pop.; 1.3K per M	--	6,344
221.	2021	-- exposure to excessive <b>natural cold</b> ; 1,179 US deaths/death rate 0.36; WA 0.63	--	49
222.	2021	-- exposure to <b>excessive natural heat</b> ; 1,912 US heat deaths; subset for WA	--	170
223.	2022	-- Sep 04, <b>floatplane crash</b> in Puget Sound off Whidbey Island, WA	--	all 10
224.	2022	-- <b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; WA death rate 6.74	--	5,130
225.	2022	-- exposure to <b>excessive natural heat</b> ; 2,159 US deaths; subset for WA	--	25
226.	2023	-- <b>COVID-19</b> , subset of 71,691 US deaths	--	1,113
227.	2023	-- exposure to <b>excessive natural heat</b> ; 2,155 US deaths, subset for WA	--	11

**Some Select/Notable Other Washington Large Loss-of-Life Events:<sup>892</sup>**

1801-1802 -- **smallpox**, western Washington natives<sup>893</sup> -- ?

<sup>890</sup> Forty-three mudslide victims. A nephew of two victims, who assisted in search, committed suicide April 13-15.

<sup>891</sup> At 0.527 deaths per 100K population, WA had 2<sup>nd</sup> highest state death rate (US avg. 0.247), and 2<sup>nd</sup> highest toll.

<sup>892</sup> We include in "Other" two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or "Registration Area" average death rate.

<sup>893</sup> Have not seen death toll estimate. Specifically mentioned were the Colville, Kalispel (or Pend d'Oreille), Salish and Spokane. Frequently Native smallpox death rates were on the order of 30-50%. We speculate that deaths could be in the hundreds, if not many hundreds.

Some Select/Notable Other **Washington** Large Loss-of-Life Events (continued):

1879 -- June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	--	14
1879 -- June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (38,143 U.S. deaths)	--	111
1879 -- June-May 1880, <b>measles</b> , esp. children (WA subset, 8,254 U.S. measles deaths)	--	11
1879 -- June-May 1880, <b>scarlet fever</b> , esp. children (WA subset, 16,388 US S.F. deaths)	--	15
1879 -- June-May 1880, <b>typhoid fever</b> (WA subset of 23,339 U.S. typhoid deaths)	--	15
1889 -- June-May 1890, <b>croup</b> , subset of 13,862 U.S. croup deaths, WA	--	61
1889-90, June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; WA	--	129
1889-90, June-May, <b>measles</b> , subset of 9,256 US measles deaths, WA	--	47
1894 -- Nov 28, Commencement Bay <b>tsunami</b> , Puyallup River delta, Tacoma WA	--	2
1897 -- <b>typhoid fever</b> , subset of $\geq 9,192$ US typhoid deaths, Seattle/11, Spokane/2	--	13
1900 -- <b>croup</b> , upper airway contagious viral infection; WA subset, 12,484 US croup deaths--	45	
1900 -- <b>diphtheria</b> (WA subset of 16,475 US diphtheria deaths in 1900)	--	98
1900 -- <b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	--	32
1900 -- <b>influenza</b> (subset, 16,645 US influenza deaths)	--	53
1900 -- <b>measles</b> (subset of 12,866 US measles deaths)	--	11
1900 -- <b>meningitis</b> (subset, 19,423 US meningitis deaths)	--	95
1900 -- <b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	--	53
1900 -- <b>smallpox</b> (subset, 8,484 US smallpox deaths)	--	17
1900 -- <b>tuberculosis</b> , leading cause of WA death (4,910 total WA deaths), 109,750 US TB deaths--	563	
1900 -- <b>typhoid fever</b> (WA subset of 35,379 typhoid fever deaths nationwide)	--	171
1900 -- <b>whooping cough</b> (WA subset, 9,958 US whooping cough deaths)	--	34
1903 -- <b>smallpox</b> , Seattle/3, Spokane/7; subset of $\geq 1,457$ US smallpox deaths	--	10
1907 -- <b>tuberculosis</b> ; 76,650 US deaths; Seattle (149), Spokane (75), Tacoma (66), WA	--	300
1907 -- <b>typhoid fever</b> , Seattle, Spokane, Tacoma (WA subset of $\sim 13,000$ U.S. deaths)	--	167
1910 -- Aug 20-Sep 9, <b>wildfires</b> , deaths in Newport vicinity and in Spokane	--	3
1911 -- <b>polio</b> ; subset of 1,060 "registration area" deaths (63.1% pop.), WA	--	19
1913 -- <b>measles</b> , 8,108 US "registration area" (65.1%) deaths; WA, 5 <sup>th</sup> lowest US state rate--	108	
1913 -- <b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, WA	--	11
1914 -- <b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; WA rate 3.6	--	51
1914 -- <b>polio</b> , Aug-Oct, especially children (subset of 720 US polio deaths), WA	--	11
1916 -- <b>diphtheria</b> , especially children (WA subset, $> 8,000$ -17,000 US diphtheria deaths)--	35	
1916 -- Jan 22, <b>avalanche</b> hits <b>Cascade Limited train</b> , Cascades, ~Corea Station, WA	--	7-8
1916 -- Nov 05, labor <b>violence</b> , IWW workers/local law enforcement, Everett, WA	--	7
1917 -- <b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; WA, 7.4	--	117
1918 -- <b>typhoid fever</b> (WA subset of 9,100 U.S. Typhoid Fever deaths)	--	98
1919 -- <b>diphtheria</b> (WA subset, 9,160 US diphtheria deaths)	--	120
1919 -- Nov 11, <b>violence</b> , Armistice Day Parade, Amer. Legion/IWW, Centralia, WA	--	6
1920 -- <b>diphtheria and croup</b> (WA subset of 13,395 deaths in 34 registration states)	--	126
1920 -- <b>scarlet fever</b> (WA subset of 4,004 scarlet fever deaths in 34 registration states)	--	59
1920 -- <b>smallpox</b> (WA subset of 508 smallpox deaths reported in 34 registration states)	--	18
1920 -- <b>typhoid fever</b> (subset of 6,805 typhoid fever deaths, 34 registration states); WA	--	76
1920 -- <b>whooping cough</b> (subset, 10,968 whooping cough deaths in 34 reg. states); WA	--	102
1925 -- <b>anthrax</b> (WA subset of 22 US anthrax deaths)	--	1
1925 -- <b>diphtheria</b> (WA subset, 8,058 US diphtheria deaths)	--	97

Some Select Other **Washington** large loss of life events (continued):

1925 --	<b>dysentery</b> (WA subset, 3,257 US dysentery deaths)	-- 24
1925 --	<b>influenza</b> (WA subset, 30,538 US influenza deaths)	-- 342
1925 --	<b>polio</b> (subset, 1,518 US polio deaths); WA	-- 34
1925 --	<b>scarlet fever</b> (subset of 2,762 US scarlet fever deaths, 48 states); WA	-- 26
1925 --	<b>tuberculosis</b> ; WA subset, 89,268 US TB deaths (87 per 100K pop. avg. US; WA 80)	--1,195
1925 --	<b>typhoid/paratyphoid fever</b> (subset, 8,287 US Typhoid Fever deaths); WA	-- 53
1925 --	<b>whooping cough</b> (subset, 6,948 US whooping cough deaths); WA	-- 88
1931 --	<b>epidemic cerebrospinal meningitis</b> ; subset, 2,832 US meningitis deaths; WA	-- 31
1931 --	<b>diphtheria</b> , especially children (subset, 5,738 US diphtheria deaths); WA	-- 35
1931 --	<b>influenza</b> (subset of 31,701 US influenza deaths); WA	-- 415
1931 --	<b>measles</b> , especially children (subset, 3,576 US measles deaths); WA	-- 35
1931 --	<b>polio</b> , esp. July-Oct, (WA subset of 2,139-2,144 U.S. polio deaths, esp. children)	-- 16
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; WA, 3.2	-- 50
1932 --	Nov 24, <b>violence</b> , Julian Marcelino rampage with knives, Seattle, WA	-- 6
1939 --	<b>diphtheria</b> , esp. Jan-Mar, Sep-Dec (WA subset of 1,997 U.S. diphtheria deaths)	-- 12
1939 --	<b>influenza and pneumonia</b> (WA subset, 99,097 US influenza/pneumonia deaths)	--1,029
1939 --	<b>tuberculosis</b> (WA subset of 61,609 tuberculosis deaths nationwide)	-- 605
1940 --	<b>influenza and pneumonia</b> (WA subset of 92,525 US flu and pneumonia deaths)	--1,148
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); WA death rate 13.8	-- 240
1940 --	<b>tuberculosis</b> (WA subset of 55,576 tuberculosis deaths nationwide)	-- 633
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, WA, 1.1	-- 19
1940 --	Nov 28, <b>natural gas explosion</b> & fire, Richey Gilbert Warehouse, Toppenish, WA--	8
1942 --	May 12, <b>USAAF Lockheed C-40A</b> landing gear failure <b>crash</b> , Paine Field ~Everett--	5
1943 --	Aug 10, Walla Walla-based USAAF <b>bomber crashes</b> , Columbia riv. ~Paterson WA--	7
1944 --	<b>cerebrospinal meningitis</b> , WA (2,812 U.S. cerebrospinal meningitis deaths)	-- 32
1944 --	<b>influenza</b> (WA subset of 17,320 influenza deaths nationwide), esp. Jan-Apr, Dec	-- 241
1944 --	<b>measles</b> , especially Jan-June (WA subset of 1,923 measles deaths nationwide)	-- 15
1944 --	<b>tuberculosis</b> (WA subset of 54,731 tuberculosis deaths nationwide)	-- 702
1944 --	<b>whooping cough</b> (WA subset of 1,878 whooping cough deaths nationwide)	-- 14
1945 --	Aug 02, <b>USN PV-2 Harpoon crash</b> into mountain, night flare attack, ~Port Angeles--	6
1945 --	Oct 19, <b>USAAF C-45 Expeditor crash</b> into small hill at night 11M ESE of Spokane, WA--	5
1946 --	<b>polio</b> , especially July-Nov (WA subset of 1,845 polio deaths nationwide)	-- 34
1946 --	Apr 26, <b>private Cessna US-78 (T-50)</b> , Seattle to Spokane, crash near Cedar Lake WA--	6
1946 --	Sep 16, <b>USN PBY-6A</b> hits trees at low altitude/crashes, Mt. Dolberg ~Granite Falls WA--	8
1947 --	July 22, <b>USN Consolidated PB4Y-2 Privateer approach crash</b> near Ault Field, WA--	5
1947 --	Nov 13, <b>USAF B-29</b> , flying too-low in fog and snow, flies into Mount Spokane. WA--	5
1947 --	Nov 30, <b>Alaska Air</b> DC-4 too far from runway front touchdown crash, Seattle-Tacoma IAP--	9
1948 --	Mar 21, <b>USAF C-47</b> engine failure/emerg. lndg. attempt at night, 11M NE Woodland WA--	6
1948 --	May 22-June 11, Pacific NW <b>flooding</b> , 50-55 deaths, esp. Portland/Vanport, OR/23, Can./11, WA--	9
1949 --	<b>polio</b> , especially July-Nov (WA subset of ~2,725 polio deaths nationwide)	-- 35
1949 --	Apr 13, <b>earthquake</b> , Puget Sound-area, WA	-- 8
1949 --	Nov 22, <b>USAF C-54 (DC-4) crash</b> on Mount St. Helens, WA	-- all 6
1950 --	<b>polio</b> , especially July-Nov (WA subset of 1,904 polio deaths nationwide)	-- 30
1950 --	Jan 13-14, <b>winter storm</b> , snow/blizzard conditions, deep cold	-- 8-9

Some Select Other **Washington** large loss of life events (continued):

1950 --	Sep 19, <b>USN PB4Y-2 Privateer plane crash</b> , Puget Sound, Saratoga Passage, WA--	7
1951 --	<b>measles</b> , 688 US deaths; subset for WA	-- 13
1951 --	<b>polio</b> , esp. July-Nov; subset of ~1,555 US polio deaths	--17-18
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for WA	-- 363
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for WA	-- 42
1952 --	<b>polio</b> , especially children; 3,000-3,300 US polio deaths; subset for WA	-- 63
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for WA	-- 238
1953 --	<b>influenza</b> ; 9,500 US deaths; WA subset	-- 73
1953 --	<b>polio</b> (WA subset of 1,450 polio deaths nationwide)	-- 17
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; WA subset	-- 173
1954 --	<b>polio</b> , acute; 1,400 US deaths; WA subset	-- 16
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; WA subset	-- 156
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; WA subset	-- 146
1956 --	<b>influenza</b> , 2,323 US deaths; WA subset	-- 21
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; WA subset	-- 115
1957 --	<b>influenza</b> ; 7,463 US deaths; WA subset	-- 107
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; WA subset	-- 115
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; WA subset	-- 111
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; WA subset	-- 86
1959 --	May 11, <b>USN P2V plane crash</b> , Whidbey Island Naval Air Station, WA	-- 9
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; WA death rate 4.1	-- 118
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; WA death rate 3.2	-- 90
1960 --	Feb 11, <b>USN P5M</b> rocket under wing explodes, Puget Sound ~NAS Whidbey Isl., WA--	9
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; WA death rate 2.9	-- 83
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; WA 2.9	-- 67
1963 --	<b>influenza</b> , 7,083 US deaths/death rate 3.8; WA death rate 2.0	-- 61
1963 --	<b>tuberculosis</b> ; 9,311 US deaths; death rate 4.9 per 100K; WA death rate 2.8	-- 84
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; WA death rate 2.3	-- 69
1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; WA death rate 0.8	-- 25
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; WA death rate 1.9	-- 58
1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for WA	-- 63
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; WA death rate 1.71	-- 58
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; WA death rate 1.71	-- 58
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; WA 1.14--	39
1971 --	<b>tuberculosis</b> ; 4,501 US TB deaths/death rate 2.18 per 100K; WA death rate 1.42	-- 49
1972 --	<b>tuberculosis</b> ; 4,376 US deaths, death rate 2.09 per 100K; WA death rate 0.99	-- 34
1972 --	Jan 05, <b>fire</b> , Washington Hotel (transients and the elderly), Toppenish, WA	-- 8-9
1972 --	Apr 05, <b>tornado</b> , Vancouver, WA	-- 6
1973 --	<b>tuberculosis</b> ; 3,875 US deaths/death rate 1.84 per 100K; WA 1.15 per 100K	-- 40
1974 --	<b>tuberculosis</b> ; 3,513 US TB deaths/death rate 1.65 per 100K; WA death rate 0.82	-- 29
1975 --	<b>tuberculosis</b> ; 3,333 US TB deaths/death rate 1.55 per 100K; WA death rate 0.88	-- 32
1976 --	<b>tuberculosis</b> ; 3,130 US TB deaths/death rate 1.44 per 100K; WA death rate 1.03	-- 38
1977 --	<b>tuberculosis</b> ; 2,968 US TB deaths/death rate 1.35 per 100K; WA death rate 0.77	-- 29
1978 --	<b>tuberculosis</b> , 2,914 US TB deaths/death rate 1.31 per 100K; WA death rate 0.77	-- 30



**Washington (continued):**

1979 --	tuberculosis	, 2,007 US TB deaths/death rate 0.89 per 100K; WA death rate 0.45	--	18
1980 --	tuberculosis	; 1,978 US TB deaths/death rate 0.87 per 100K; WA death rate 0.29	--	12
1981 --	tuberculosis	; 1,937 US TB deaths/death rate 0.84 per 100K; WA death rate 0.40	--	17
1981 --	Jan 20,	Cascade Airways Airliner	flies into terrain on approach, 5M SW Spokane IAP, WA--	7
1981 --	Nov 13-13,	Pacific Northwest windstorm	, WA subset	-- 5
1982 --	tuberculosis	, 1,807 US TB deaths/death rate 0.78 per 100K, WA, 0.28	--	12
1983 --	chickenpox	, 57 US chickenpox deaths, death rate 0.02 per 100K, WA rate 0.09	--	4
1983 --	tuberculosis	, 1,779 US TB deaths, death rate 0.76 per 100K; WA, 0.44	--	19
1983 --	Dec 17-29,	winter weather, extreme cold/exposure	deaths, snow, icy roads	-- 9
1984 --	Feb 04,	home fire	, boy playing with lighter, victims 1-8 years old, Tacoma WA	-- 9
1985 --	tuberculosis	, 1,752 US TB deaths, death rate 0.74 per 100K; WA death rate 0.30	--	13
1986 --	tuberculosis	, 1,782 US deaths, death rate 0.74 per 100K; WA, 0.45	--	20
1987 --	HIV AIDS	, 13,468 deaths/US death rate 5.55 per 100K; WA, 3.26	--	148
1987 --	tuberculosis	; 1,755 US TB deaths, death rate 0.72 per 100K, WA, 0.46	--	21
1987 --	July 11-12,	man shoots	wife, 2 children, parents, in-laws, self, Federal Way, WA	-- 8
1987 --	Mar 13,	USAF KC135 tanker	hits B52 turbulence, loses 2 engines/crashes, Spokane AFB WA-7	
1988 --	HIV AIDS	, 16,602 deaths/US death rate 6.8 per 100K population; WA, 4.42	--	205
1988 --	tuberculosis	, 1,921 US TB deaths, death rate 0.78 per 100K; WA, 0.47	--	22
1989 --	HIV AIDS	; 22,082 US deaths, death rate 8.9 per 100K population; WA, 5.85	--	278
1989 --	tuberculosis	; 1,970 US TB deaths, death rate 0.80 per 100K; WA, 0.38	--	18
1989 --	Feb 1-8,	winter weather, snow, hard freeze, cold	(subset, 76-91 US deaths)	-- 6
1989 --	Dec 26,	North Pacific Airlines approach crash	(icing), Pasco-Tri-Cities Airport, WA-6	
1990 --	tuberculosis	, 1,810 US TB deaths, death rate 0.73 per 100K; WA, 0.25	--	12
1990 --	Nov 30,	Aero Air plane crash	, flying below minimums into mt., Ryderwood, WA--	5
1991 --	tuberculosis	, 1,713 US TB deaths, death rate 0.68 per 100K, WA, 0.28	--	14
1991 --	Oct 16,	wildfires	, Spokane Area Urban Interface, WA	-- 2
1991 --	Dec 07,	planes collide	, Cessna (2 deaths) and Piper (5 deaths) near Snohomish WA--	7
1992 --	tuberculosis	, 1,705 US TB deaths, death rate 0.66 per 100K; WA, 0.35	--	18
1992 --	Nov 21,	Beechcraft Duke crash	due to icing an engine power loss, Snoqualmie Pass, WA--6	
1992 --	Dec 17,	fire	, four-family apartment building, Auburn, WA	-- 5
1993 --	tuberculosis	; 1,631 US TB deaths, death rate 0.63 per 100K; WA, 0.28	--	15
1993 --	Jan 20,	Inauguration Day winter wind storm	, WA State	-- 5
1994 --	tuberculosis	; 1,478 US TB deaths; US death rate 0.56 per 100K, WA, 0.30	--	16
1995 --	tuberculosis	; 1,336 US TB deaths/death rate 0.5 per 100K; WA, 0.24	--	13
1996 --	tuberculosis	, 1,202 US TB deaths/death rate 0.45 per 100K; 0.31 WA	--	17
1997 --	tuberculosis	, ICD-9 code 010-018, death rate 0.43 per 100K, WA, 0.35	--	20
1998 --	influenza	, ICD-9 code 487.0; US death rate 0.62 per 100K; WA, 0.40	--	23
1998 --	tuberculosis	, ICD-9 code 010-018, death rate 0.40 per 100K; WA, 0.24	--	14
1998 --	Apr 27,	fire, arson?	Arlington Manor elderly/disabled boarding home, Arlington, WA <sup>894</sup> --	8
2000 --	influenza	, ICD-10 codes J09-11.8; US death rate 0.627 per 100K; WA rate 0.49	--	29
2001 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.268 per 100K; WA, 0.200	--	12
2001 --	July 10,	wildfire	, Okanagan National Forest, US Forest Service firefighters	-- 4
2002 --	tuberculosis	, ICD-10 code A16-19, US death rate 0.273 per 100K; WA, 0.182	--	11

<sup>894</sup> Believed to have been set by suicidal patient with schizophrenia, who had set a fire at another location.

**Washington (continued):**

2004 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.376 per 100K; WA rate 0.291	--	18
2006 --	<b>tuberculosis</b> , ICD-10 code A16-19, death rate 0.22 per 100K; WA rate 0.19	--	12
2006 --	Mar 26, <b>mass-shooting</b> , rave afterparty, Capitol Hill community, Seattle, WA <sup>895</sup>	--	7
2007 --	<b>tuberculosis</b> , death rate 0.184 per 100K; WA rate 0.155	--	10
2007 --	Dec 01-04, <b>winter storm</b> (The Great Coastal Gale of 2007) WA	--	8
2007 --	Dec 02, <b>avalanche</b> , Union Creek Basin, NE Crystal Mt. WA	--	3
2008 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 0.57 per 100K; WA rate 0.47	--	31
2009 --	<b>tuberculosis</b> , ICD-10 code A16-19; US death rate 0.2 per 100K; WA rate 0.1	--	10
2010 --	<b>diarrhoea &amp; gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K; WA 0.8	--	52
2010 --	<b>influenza</b> , ICD-10 codes J09-J11; <sup>896</sup> US death rate 0.2 per 100K; WA rate 0.1	--	10
2010 --	<b>tuberculosis</b> , ICD-10 code A16-19, US death rate 0.2 per 100K; WA rate 0.2	--	11
2010 --	Apr 02, <b>explosion (heat exchanger)</b> , Tesoro Refinery, Anacortes, WA	--	7
2011 --	<b>diarrhoea &amp; gastroenteritis</b> , infectious origin, US death rate 0.9 per 100K; WA 0.8	--	50
2011 --	<b>tuberculosis</b> , ICD-10 Codes A16-A19; US death rate 0.2 per 100,000, WA, 0.2	--	11
2012 --	<b>diarrhoea and gastroenteritis</b> , infectious origin, US death rate 0.8 per 100K, WA 0.7	--	47
2013 --	<b>diarrhoea and gastroenteritis</b> of infectious origin, US & WA death rate 0.8 per 100K	--	54
2013 --	<b>influenza</b> , ICD-10 codes J09-J11; US death rate 1.2 per 100,000; WA rate 1.1	--	76
2014 --	<b>influenza</b> , ICD-10 codes J09-11; US death rate 1.4 per 100,000; WA rate 1.3	--	90
2015 --	<b>diarrhoea/gastroenteritis</b> of infectious origin, US death rate 0.8 per 100K; WA 0.7	--	53
2016 --	<b>diarrhoea/gastroenteritis</b> of infectious origin, US & WA death rate 0.7 per 100K	--	50
2016 --	<b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; WA death rate 0.8	--	60
2016 --	<b>tuberculosis</b> , ICD-10 codes A16-A19; US and WA death rate 0.2 per 100,000	--	12
2017 --	<b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; WA death rate 0.70	--	52
2017 --	<b>tuberculosis</b> , IDC-10 code A16-19; 515 US deaths/death rate 0.16; WA subset	--	18
2018 --	<b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; WA death rate 0.98	--	74
2019 --	<b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; WA rate 0.85	--	65
2019 --	<b>tuberculosis</b> , ICD-10 codes A16-A19 (526 US TB deaths); WA	--	14
2020 --	<b>excessive heat</b> , natural sources; 1,184 US deaths; subset for WA	--	7
2020 --	<b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; WA death rate 0.53	--	41
2020 --	<b>influenza</b> ; 5,943 US deaths/death rate 1.8 per 100K; WA death rate 1.61	--	124
2021 --	<b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; WA death rate 0.83	--	64
2024 --	Jan 15-19, <b>winter storms/cold</b> , homeless exposure deaths	--	5

**Breakout by Type of Washington Large Loss-of-Life Events (10 or more fatalities):**

- 85 -- **Disease**, especially communicable, especially epidemics. (Plus 160 in "Other.")
- 38 -- **Maritime and in-land water craft**.
- 31 -- **Aviation**. (Plus 20 events noted with 5-9 deaths each.)
- 29 -- **Winter Weather, cold, hypothermia**. (Plus 6 events 5-9 deaths each.)
- 11 -- **Mining**.
- 8 -- **Fire, structural**. Plus 4: 5-9 deaths: 8-9 in 1972, 9 in 1984, 8 in 1998, 5 in 1992.
- 6 -- **Heat**. Plus 1 year with 7 deaths.

<sup>895</sup> The shooter murdered six people aged 14, 15, 21, 22, 26 and 32. Committed suicide when police arrived.

<sup>896</sup> 500 US Flu deaths. ICD-10 code for 2010 influenza/pneumonia (J09-J18) has 50,097 deaths (death rate of 16.2).

**Washington (continued):**

- 4 -- **Violence.** (Plus 6 >10 deaths: 7/1916, 6/1919, 6 in 1932, 8 in 1987, 8 in 1998, 7 in 2006.)
- 3 -- **Rail.**
- 3 -- **Wind Storm.** (Plus 5 deaths in Nov 13-15, 1981 windstorm.)
- 2 -- **Avalanche.**
- 2 -- **Flooding.** (Plus 2 events noted 5-9 deaths.)
- 2 -- **Vehicular.**
- 1 -- **Explosion.** (Plus two in "Other" -- one with 8 fatalities in 1940 and one with 7 in 2010.)
- 1 -- **Fog as contributing factor.**
- 1 -- **Mudslide.**
- 1 -- **Volcano eruption.**
- 1 -- **Wildfire.** (Plus 4 fires <10 deaths: 3 in 1910, 2 in 1991 and 4 in 2001 wildfires.)
- 0 -- **Carbon Monoxide Poisoning.** (Though there were 8 deaths after Dec 2006 windstorm.)
- 0 -- **Earthquake.** (There were 8 deaths in Apr 13, 1949 Puget Sound area earthquake.)
- 0 -- **Tornado.** (6 deaths in 4-5-1972 Vancouver F2.)
- 0 -- **Tsunami.** (But 2 deaths in Nov 8, 1894 Commencement Bay tsunami.)

## WV

## West Virginia

1. 1758 -- Apr 28, **massacre** of settlers by Shawnee, Fort Sybert/Seybert, WV -- >40
2. 1774 -- Apr 30, Greathouse VA force **murder** Mingos, Yellow Creek/OH Riv., OH/WV<sup>897</sup> ~10
3. 1830 -- Apr 01, **Tri-Color** explosion, Ohio River, Wheeling, WV -- 15
4. 1832 -- Aug 20-Oct 27, **cholera**, esp. Charlestown, Harpers Ferry area, Wheeling --28-44
5. 1833 -- **cholera** epidemic, especially Bridgeport and Wheeling, WV -- 36
6. 1836 -- Aug 09, steamer **Motto** boiler explosion, OH River, Blennerhasset's Island WV-- 12
7. 1850 -- **cholera**, Harpers Ferry, WV -- ≥100
8. 1851 -- Mar 24, boats collide, **Lowell** sinks, OH Riv., Captina Island ~Moundsville, WV-- 15
9. 1852 -- Dec 14, steamer **Magnet** boiler explosion, OH River, Grandview Island, WV -- 10
10. 1854 -- Late Sep-early Oct (3 days), **cholera**, Martinsburg; July 20-31, Wheeling, WV-- 120
11. 1870 -- **diarrhoea** (128), **dysentery** (55), **enteritis** (50); U.S. Census data, WV -- 233
12. 1870 -- **tuberculosis** (Consumption) (subset of ~70,000 TB deaths nationwide), WV -- 709
13. 1870 -- Sep 30, **flooding**, Shenandoah River, Virginus Island, Harpers Ferry WV -- 42
14. 1873 -- June 09-Sep, **cholera** outbreak, primarily Wheeling, WV --22-25
15. 1877 -- Oct 02, steamer **Comfort** boiler explosion, OH Riv. near Pipe Creek, WV side-- 10
16. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) -- 510
17. 1883 -- **smallpox**, Mercer and Wyoming counties, WV -- 38
18. 1883 -- Jan 23, **train derails**, Georges Creek & Cumberland Rd., (~Cumberland), WV-- 15
19. 1886 -- Jan 21, coal **mine** explosion, Newburg Coal Mine, Newburg, WV -- 39
20. 1888 -- July 18-19, **flooding**, WV, especially Wheeling --20-30
21. 1889-90, June-May, **measles**, subset of 9,256 US measles deaths -- 109
22. 1889-90, June-May, **typhoid fever**, State subset of 27,058 US typhoid deaths -- 429
23. 1889 -- July 18, **flooding**, Morristown, Rockport and Parkersburg vicinities, WV --19-23
24. 1889 -- Dec 28, C&O **train derails**, Jary's Run, near White Sulphur Springs, WV --10-11
25. 1891 -- July 04, **train cars** go through fire-damaged trestle near Charleston, WV --14-18
26. 1892 -- July 25, **flash flooding**, Cloudburst, Wheeling and vicinity, WV --10-12
27. 1900 -- **croup** (upper airway contagious viral infection; WV subset 12,484 US croup deaths)-- 326
28. 1900 -- **typhoid fever** (WV subset of 35,379 typhoid fever deaths nationwide) -- 671
29. 1900 -- Mar 06, **mine** explosion, Red Ash Coal Mine, Red Ash, WV -- 46
30. 1900 -- Nov 02, **mine** explosion, Southern Coal & Trans. Co., Berryburg, WV -- 15
31. 1901 -- May 15, **mine** explosion, George's Creek Coal, Chatham mine, Farmington WV-- 10
32. 1901 -- June 23, **flooding**, Elkhorn River, Pocahontas region, Burke, Keystone WV -- 200
33. 1902 -- Sep 15, **mine** gas explosion, Algoma Coal & Coke Mine, Algoma, WV -- 17
34. 1905 -- Jan 03, towboat **Defender** boiler explosion, OH River, near Huntington, WV -- 9-20
35. 1905 -- Mar 19, coal **mine** explosion, Rush Run & Red Ash Mine, Red Ash, WV -- 24
36. 1906 -- Jan 04, coal **mine** powder explosion, Coaldale Mine, Mercer County, WV --22-24
37. 1906 -- Jan 18, coal **mine** dust explosion, Detroit Coal Mine, Paint Creek, WV -- 18
38. 1906 -- Feb 08, coal **mine** gas explosion, Parral Coal Mine, Parral, WV -- 23
39. 1906 -- Mar 22, coal **mine** dust explosion, Century Mine, No. 1 Shaft, Century, WV -- 23
40. 1907 -- Jan 26, coal **mine** explosion (powder), Lorentz Coal Mine, Penco, WV -- 12
41. 1907 -- Jan 29, coal **mine** explosion, Stuart Colliery Co., WV -- 85
42. 1907 -- Feb 04, coal **mine** explosion (gas), Thomas #25, Thomas, Tucker Co., WV -- 25

<sup>897</sup> We note Ohio and West Virginia because while the murders occurred on today's WV side, the natives lived across the Ohio River (in present-day Ohio) at a camp where Yellow Creek empties into the Ohio.



**West Virginia (continued):**

43. 1907 -- Mar 15-16, **flooding**, especially Wheeling, WV -- 18
44. 1907 -- May 01, **mine** gas explos., White Oak Fuel, Whipple coal mine, Scarboro WV-- 16
45. 1907 -- Dec 06, Gas/dust explosions, Fairmont Coal **mines** 6 & 8, Monongah WV --400-550
46. 1908 -- Dec 29, coal **mine** explosion, Pocahontas Coal Mine, Lick Branch, WV -- 50
47. 1908 -- Dec 30, coal **mine** explosion, Coal Mine, Ennis, WV -- 100
48. 1909 -- Jan 12, coal **mine** explosion, Pocahontas Collieries, Lick Branch WV -- 67
49. 1909 -- Mar 31, coal **mine** explosion, Beury Bros. Coal Co., Echo Mine, Beury, WV -- 16
50. 1910 -- Dec 31, **mine** haulage failure, Lick Fork Coal, Red Jacket Mine, Thacker, WV-- 10
51. 1911 -- Apr 24, coal **mine** explosion, Ott No. 20 Coal Mine, Elk Garden, WV -- 23
52. 1911 -- Nov 18, coal **mine** explosion, Bottom Creak Coal Mine, Vivian, WV -- 18
53. 1912 -- Mar 26, Coal **mine** explosion, Jed Coal Mine, Jed, WV -- 83
54. 1912 -- July 24, **flooding**, Cloudbursts, Wheeling, New Martinsville, Monongah, WV -- 12
55. 1912 -- Sep 02, **flooding**, Cloudbursts, Panhandle, especially Colliers, WV -- 20
56. 1913 -- Feb 10, **miners** & mine guards **clash**, near Mucklow, Kanawha County, WV -- 16
57. 1914 -- Apr 28, New River Coal **Mine** Nos. 5 & 6 gas & dust explosions, Eccles, WV-- 183
58. 1915 -- Feb 06, **mine** explosion, Carlisle Coal Mine, Oak Hill, WV --20-22
59. 1915 -- Mar 02, **mine** explosion, New River/Layland No. 3 Coal Mine, Layland, WV -- 119
60. 1915 -- Nov 30, **mine** explosion, Hanna Coal Co. Boomer Mine, Boomer, WV -- 23
61. 1916 -- Jan 05, stmr. **Kanawha**, storm, hits tower, capsizes, OH Riv. ~Parkersburg, WV-- 16
62. 1916 -- Feb 02, steamer **Sam Brown** boiler explosion, Huntington, WV -- 11
63. 1916 -- Mar 28, **mine** explosion, King Coal Co., Mine No. 28, Vivian, WV -- 10
64. 1916 -- Late sum.-winter, **polio**, esp. Clarksburg, Elkins, Fairmont, Grafton, Huntington- ≥13
65. 1916 -- Aug 9, **flash floods**, Cabin Creek, Coal River, Paint Creek, Mud River, WV --60-100
66. 1916 -- Oct 19, **mine** explosion, Jamison Coal & Coke Co. Mine, Barrackville, WV -- 10
67. 1917 -- Dec 15, **mine** explosion, Yukon Pocahontas Coal Co. Mine, Susanna, WV -- 18
68. 1918 -- May 20, **mine** fire, Mill Creek Cannel Mining Co., Charleston, WV -- 13
69. 1918, Oct 15-1920 -- **influenza and pneumonia** epidemic, WV --2,974  
     1918 -- Oct 15-Nov 15, **influenza epidemic**, WV --2,818  
     1919 -- **influenza and pneumonia**, Wheeling, WV -- 156
70. 1919 -- Aug 14, **train & street car collide**, Parmaco, near Parkersburg, WV -- 15
71. 1920 -- May 19, **Matewan Massacre**, coal **miners**/owners conflict, Mingo Co., WV --10-11
72. 1921 -- May 12-15, **Battle of the Tug**, coal **mine labor conflict**, Mingo County, WV -- 6-20
73. 1921 -- Aug 27-Sep 3, **Battle of Blair Mt.**, **miners vs. operators**, Logan Co., WV --16->50
74. 1922 -- Jul 17, striking **miners attack Saledka Mine, Sheriffs men**, Cliftonville, WV-- 9-21
75. 1923 -- Mar 02, **mine** explosion, Weyanoke Coal Co. Coal Mine, Arista, WV -- 10
76. 1923 -- Nov 06, **mine** explosion, Raleigh-Wyoming, Glen Rogers Mine, Beckley, WV-- 27
77. 1924 -- Mar 28, **mine** explosion, Yukon Pocahontas Coal Co. Yukon #2 Mine, WV -- 26
78. 1924 -- Apr 28, coal **mine** gas explosion (killing all inside), Benwood, WV -- 119
79. 1925 -- **diphtheria** (subset, 8,058 US diphtheria deaths); WV -- 172
80. 1925 -- **dysentery** (subset, 2<sup>nd</sup> highest, 3,257 US dysentery deaths); WV -- 213
81. 1925 -- **typhoid/paratyphoid fever** (subset, 8,287 US typhoid fever deaths), WV -- 334
82. 1925 -- **whooping cough** (subset, 6,948 US whooping cough deaths); WV -- 177
83. 1925 -- Mar 17, **mine** explosion, Bethlehem Mines Coal Mine, Barrackville, WV -- 33
84. 1926 -- Jan 14, coal **mine** explosion, Jamison Coal Co. Mine No. 8, Farmington, WV -- 19

**West Virginia (continued):**

85.	1926 -- Mar 08,	mine explosion, Crab Orchard/Eccles No. 5 Coal Mine, WV	--	20
86.	1927 --	polio (acute) esp. late Summer and Fall (WV subset, 2,013 U.S. polio deaths)	--	44
87.	1927 -- Apr 30,	mine explosion, Federal No. 3 Coal Mine, Everettville, WV	--	111
88.	1928 -- May 22,	mine explosion, Yukon Pocahontas Coal Mine # 1, Yukon, WV	--	17
89.	1929 -- Jan 26,	mine explosion, Kingston Pocahontas Coal Mine, Kingston, WV	--	14
90.	1930 -- Mar 26,	mine explosion, Crown Coal Co. Yukon Mine, Arnettsville, WV	--	12
91.	1931 --	diphtheria, especially children (WV subset, 5,738 U.S. diphtheria deaths)	--	166
92.	1931 --	whooping cough, 4,619 US deaths/death rate 3.9 per 100K; WV, 7.9	--	138
93.	1931 -- Summer,	heat, excessive heat deaths (WV subset, 2,768 U.S. deaths)	--	29
94.	1934 -- summer,	excessive heat deaths; subset of 3,250 US heat deaths; WV	--	20
95.	1934 -- Dec 27,	mine boiler explosion, Engine Hauling Mine Workers, McDunn, WV	--	19
96.	1936 -- Sep 02,	mine explosion, Hutchinson Coal Co., Macbeth, WV	--	10
97.	1937 -- Jan 21-29 (generally),	flooding, OH and MS River Valley areas	--	13
98.	1937 -- Mar 11,	mine explosion, Hutchinson Coal Co., Macbeth, WV	--	18
99.	1939 --	diphtheria, esp. Jan-Mar, Sep-Dec (WV subset of 1,997 US diphtheria deaths)	--	55
100.	1940 --	polio, especially children (WV subset of 1,026 polio deaths nationwide)	--	59
101.	1940 --	syphilis, US death rate 14.4 per 100,000 pop. (19K US); WV death rate 15.1	--	287
102.	1940 --	whooping cough; 2926 US WC deaths/death rate 2.2 per 100K, WV, 6.3	--	117
103.	1940 -- Jan 10,	mine explosion, Pond Creek Coal Mine, Bartley, WV	--	91
104.	1941 --	measles, especially children, WV subset of 2,279 US measles deaths-	--	77
105.	1942 -- May 12,	mine explosion, Christopher No. 3 Coal Mine, Osage, WV	--	56
106.	1942 -- July 01,	US Army AF Douglas C-49E plane crash, near Premier, WV	--	21
107.	1942 -- July 09,	mine explosion, Pursglove Coal Mining No. 2, Pursglove WV	--	20
108.	1943 -- Jan 08,	mine fire, Pursglove Coal Mine No. 15, Pursglove, WV	--	13
109.	1943 -- Aug 04/05,	flash flood, Little Kanawha River Basin, central WV	--	23
110.	1943 -- Nov 06,	mine explosion, Nellis No. 3 Coal Mine, Madison, WV	--	11
111.	1943 -- Nov 08,	mine explosion, American Rolling Mill Co. Mine # 3, Nellis, WV	--	11
112.	1944 --	measles, especially Jan-June (WV subset of 1,923 US measles deaths)	--	59
113.	1944 --	polio, especially July-Nov (WV subset, 1,070 polio deaths nationwide)	--	24
114.	1944 --	whooping cough (WV subset of 1,878 US whooping cough deaths)	--	64
115.	1944 -- Mar 25,	mine explosion, Kathrine Coal Mine No. 4, Lumberport, WV	--	16
116.	1944 -- June 23,	"Appalachian" tornadoes, Shinnston and elsewhere, WV	--	103
117.	1945 -- Apr 14,	PA-Central Air #142 off course/too-low crash, Cheat Mt. ~Morgantown, WV	--	20
118.	1946 -- Jan 15,	excessive charge explosion, No. 9 Havaco coal mine, New River Co, Havaco, WV	--	15
119.	1947 -- June 13,	Pennsylvania-Central Air #410 too-low crash ~Lookout Rock, WV	--	50
120.	1950 --	measles, especially children (WV subset of 468 measles deaths nationwide)	--	18
121.	1950 -- June 24-25,	heavy rain/flash flooding, esp. Smithsburg area (22), central WV	--	34-35
122.	1950 -- Nov 24-27,	winter "Storm of the Century," subset for WV	--	18
123.	1951 --	whooping cough; 960 US deaths; subset for WV (tied for 10 <sup>th</sup> high US loss)	--	29
124.	1951 -- Jan 18,	mine gas explosion, Burning Springs Collieries Co., Kermit, WV	--	11
125.	1951 -- Apr 08,	West VA National Guard plane flies into ground ~Charleston, WV	--	all 21
126.	1951 -- Oct 15,	Bunker Mine methane gas explosion, Trotter Coal Co., Cassville, WV	--	10
127.	1951 -- Oct 31,	Truax-Traer Coal Co. Mine No. 1 dust explosion, United, WV	--	12
128.	1952 --	scarlet fever and streptococcal sore throat; 352 US deaths; WV (8 <sup>th</sup> US high)	--	14

**West Virginia (continued):**

129. 1952 -- Nov 26, **fire**, Female Ward, Huntington State Mental Hospital, Huntington -- 17
130. 1954 -- **measles**; 524 US deaths; 21 states double digits; subset for WV -- 10
131. 1954 -- **polio**, acute; 1,400 US deaths; WV subset -- 21
132. 1954 -- Nov 13, Jamison Coal Co. **Mine No. 9** gas & dust explosion, Farmington, WV-- 16
133. 1956 -- **measles**, 530 US deaths/21 states in double digits; WV 11<sup>th</sup> highest US state toll-18
134. 1956 -- **scarlet fever/streptococcal sore throat**; 240 US deaths; WV, 4<sup>th</sup> highest state-- 12
135. 1957 -- Feb 04, Pocahontas Fuel Co. **coal mine** No. 34 gas explosion, Bishop, VA/WV-- 37
136. 1957 -- fall-spring 1958, H2N2 Asian **influenza/pneumonia** pandemic (US 116K) -- 800
137. 1957 -- Dec 27, Pocahontas Fuel Co. **coal mine** 31 methane gas explos., McDowell Co., WV<sup>898</sup>-- 11
138. 1958 -- **measles**; 552 US deaths; 23 States in double digits, including WV -- 14
139. 1958 -- **polio** (acute); 255 US deaths; 11 states in double digit deaths; including WV-- 11
140. 1958 -- Feb 15-18, **coldwave and snow storms**, WV -- 10
141. 1958 -- Oct 27, Pocahontas Fuel Co. **Mine** No. 34 methane gas explosion, Bishop, WV-- 22
142. 1958 -- Oct 28, Oglebay Norton's Burton coal **mine** gas explosion, ~Craigs ville, WV-- 14
143. 1959 -- **tuberculosis**; 11,456 US TB deaths; WV subset -- 155
144. 1960 -- **influenza**; 7,872 US deaths/death rate 4.4 per 100K; WV death rate 8.4 -- 118
145. 1960 -- **tuberculosis**; 10,866 deaths/death rate 6.1 per 100K; WV death rate 6.6 -- 122
146. 1960 -- Mar 08, **mine** fire, Island Creek Coal Co. No. 22, Holden, WV -- 18
147. 1961 -- **influenza**, 2,137 US deaths/death rate 1.2 per 100K; WV death rate 2.3 -- 43
148. 1961 -- **tuberculosis**, 9,938 US deaths/death rate 5.4 per 100k; WV death rate 6.7 -- 124
149. 1961 -- July 19, downpour and flash **flood**, Charleston, WV -- 22
150. 1962 -- **influenza**; 3,431 US deaths/death rate 1.8 per 100K; WV death rate 3.4 -- 60
151. 1962 -- **tuberculosis**; 9,508 US deaths/death rate 5.1 per 100K pop.; WV rate 8.2 -- 145
152. 1963 -- **influenza**, 7,083 US deaths/death rate 3.8; WV death rate 11.0 -- 195
153. 1963 -- **tuberculosis**; 9,311 US deaths; death rate 4.9 per 100K; WV death rate 8.6 -- 153
154. 1963 -- Mar 4-19, three heavy rain storms, **flooding**; 26-33 US deaths; WV -- 13
155. 1963 -- Apr 25, **mine** gas explosion, Clinchfield Coal Co., Compass 2, Dola, WV -- 22
156. 1964 -- **influenza**; 1,687 US deaths/death rate 0.9; WV death rate 1.9 -- 35
157. 1964 -- **tuberculosis**; US deaths 8,303/death rate 4.3 per 100K; WV death rate 7.2 -- 129
158. 1965 -- **influenza**, 2,295 US deaths/death rate 1.2 per 100K; WV death rate 1.4 -- 26
159. 1965 -- **tuberculosis**, 7,934 US deaths, death rate 4.1 per 100K; WV death rate 4.9 -- 89
160. 1966 -- **influenza**; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for WV-- 48
161. 1966 -- **tuberculosis**, 7,625 US TB deaths; subset for WV -- 110
162. 1967 -- Dec 15, **Silver Bridge collapse, vehicles fall**, Ohio Riv., Point Pleasant, WV<sup>899</sup>-- 46
163. 1968 -- **influenza**, ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; WC 4.3-- 73
164. 1968 -- **tuberculosis**, 6,292 US deaths/death rate 3.15 per 100K; WV rate 5.82<sup>900</sup> -- 100
165. 1968 -- Aug 10, **Piedmont Air Flight 230 approach crash**, Charleston, WV -- 35
166. 1968 -- Nov 20, **mine** explosion, Consol No. 9 Coal Mine, Farmington, WV -- 78
167. 1969 -- **influenza**, ICD-8 codes 470-474; 5,971 deaths/death rate 2.96 per 100K; WV 5.7--99

<sup>898</sup> The explosion was near Amonate VA, near WV border. West Virginia Department of Mines investigated in that the shaft where coal was taken out (as well as bodies of victims) was in West Virginia. Five of the miners lived in West Virginia, leaving behind five wives and a combined nineteen children.

<sup>899</sup> Cross-listed in Ohio.

<sup>900</sup> 4<sup>th</sup> highest state death rate for TB in the US in 1968, behind DC with 10.9, AZ at 6.2, and AL with 6.1.

**West Virginia (continued):**

168.	1969 --	tuberculosis; 5,567 US deaths/death rate 2.76 per 100K; WV death rate 4.80--	83
169.	1969 --	June 08, arson (Patricide), Bailey family home fire, Parkersburg, WV	-- 12
170.	1970 --	excessive natural cold; ICD-8 code E901; 466 US deaths; WV	-- 10
171.	1970 --	influenza; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; WV 3.5--	61
172.	1970 --	tuberculosis; ICD-8 code 010-019; 5,207 US deaths/death rate 2.6 per 100K; WV 4.5--	79
173.	1970 --	Nov 14, Southern Airways Flight 932 plane crash, Huntington, WV	-- 75
174.	1971 --	excessive natural cold; ICD-8 code E901; 361 US deaths; WV	-- 10
175.	1971 --	influenza, ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; WV 0.9--	16
176.	1971 --	tuberculosis; 4,501 US TB deaths/death rate 2.18 per 100K; WV rate 3.16	-- 56
177.	1972 --	influenza, ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; WV 4.01--	72
178.	1972 --	tuberculosis; 4,376 US deaths, death rate 2.09 per 100K; WV rate 3.67	-- 66
179.	1972 --	Feb 26, dam failure/flooding Buffalo Coal Mining Co., Buffalo Creek, WV--	125
180.	1972 --	Dec 15, coke oven gas explosion, Koppers Steel, Browns Isl., Weirton, WV--	19
181.	1973 --	influenza; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; WV 2.99--	54
182.	1973 --	tuberculosis; 3,875 US deaths/death rate 1.84 per 100K; WV 2.83 per 100K--	51
183.	1974 --	influenza, ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; WV/1.2--	21
184.	1974 --	tuberculosis; 3,513 US TB deaths/death rate 1.65 per 100K; WV rate 2.21	-- 40
185.	1974 --	Aug 25, Washington House Hotel fire, Berkeley Springs, WV	-- 12
186.	1975 --	influenza, ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; WV/3.5--	64
187.	1975 --	tuberculosis; 3,333 US TB deaths/death rate 1.55 per 100K; WV rate 2.34	-- 43
188.	1976 --	tuberculosis; 3,130 US TB deaths/death rate 1.44 per 100K; WV rate 2.02	-- 38
189.	1977 --	cold/hypothermia, exposure to excessive natural; 634 US deaths; WV	-- 18
190.	1977 --	tuberculosis; 2,968 US TB deaths/death rate 1.35 per 100K; WV rate 1.94	-- 37
191.	1978 --	influenza, 4,052 US flu deaths/death rate 1.82 per 100K; WV death rate 2.24--	43
192.	1978 --	tuberculosis, 2,914 US TB deaths/death rate 1.31 per 100K; WV, 1.98	-- 38
193.	1978 --	Apr 27, scaffold collapse, Monongahela Power Co., Willow Island, WV	-- 51
194.	1979 --	tuberculosis, 2,007 US TB deaths/death rate 0.89 per 100K; WV, 1.49	-- 29
195.	1980 --	influenza, 2,702 US flu deaths/death rate 1.19 per 100K, WV, 1.23	-- 24
196.	1980 --	tuberculosis; 1,978 US TB deaths/death rate 0.87 per 100K; WV, 1.18	-- 23
197.	1981 --	exposure to excessive natural cold/hypothermia; 289 US deaths; WV	-- 10
198.	1981 --	influenza, 3,006 US flu deaths/death rate 1.31 per 100K, WV, 1.33	-- 26
199.	1981 --	tuberculosis; 1,937 US TB deaths/death rate 0.84 per 100K; WV, 1.02	-- 20
200.	1982 --	tuberculosis, 1,807 US TB deaths/death rate 0.78 per 100K, WV, 0.92	-- 18
201.	1983 --	influenza, 1,431 US flu deaths/death rate 0.61 per 100K, WV, 0.62	-- 12
202.	1985 --	influenza, 2,054 US flu deaths, death rate 0.86 per 100K, WV, 1.18	-- 11
203.	1985 --	tuberculosis, 1,752 US TB deaths, death rate 0.74 per 100K; WV, 1.00	-- 19
204.	1985 --	Nov 04-05, flooding, Hurricane Juan remnants, multiple counties, WV <sup>901</sup>	--47-48
205.	1986 --	tuberculosis, 1,782 US TB deaths, death rate 0.74 per 100K; WV, 1.01	-- 19
206.	1987 --	tuberculosis; 1,755 US TB deaths, death rate 0.72 per 100K, WV, 0.86	-- 16
207.	1988 --	tuberculosis, 1,921 US TB deaths, death rate 0.78 per 100K; WV, 1.26	-- 23
208.	1989 --	influenza, 1,593 US flu deaths, death rate 0.64 per 100K; WV, 0.83	-- 15
209.	1990 --	influenza, 2,098 US flu deaths; death rate 0.84 per 100K; WV, 0.89	-- 16
210.	1991 --	influenza, 1,137 US flu deaths, death rate 0.45 per 100K; WV, 0.78	-- 14

<sup>901</sup> Largest loss of life was in Grant (13-15), Hardy (6), Pendleton (16), and Pocahontas (5) counties.



**West Virginia (continued):**

211.	1991	--	tuberculosis	, 1,713 US TB deaths, death rate 0.68 per 100K, WV, 0.72	--	13
212.	1992	--	influenza	, 1,006 US flu deaths, death rate 0.39 per 100K, WV, 1.27	--	23
213.	1992	--	tuberculosis	, 1,705 US TB deaths, death rate 0.66 per 100K; WV, 0.77	--	14
214.	1993	--	influenza	, 1,044 US flu deaths, death rate 0.40 per 100K; WV, 0.61	--	11
215.	1993	--	tuberculosis	; 1,631 US TB deaths, death rate 0.63 per 100K; WV, 1.05	--	19
216.	1994	--	influenza	, 1,229 US flu deaths; death rate 0.47 per 100K; WV, 0.82	--	15
217.	1995	--	influenza	, ICD-9 code 487.0, US death rate 0.227 per 100K, WV, 1.316	--	24
218.	1996	--	influenza	, subset of 745 US flu deaths/US death rate 0.276 per 100K; WV, 0.6	--	11
219.	1997	--	influenza	, code 487.0; US death rate 0.26 per 100K (720 US deaths); WV, 0.769	--	14
220.	1998	--	influenza	, ICD-9 code 487.0; US death rate 0.62 per 100K; WV, 1.27	--	23
221.	1999	--	influenza	, ICD-10 codes J09-11.8; US death rate 0.597 per 100K; WV, 1.104	--	20
222.	2000	--	influenza	, ICD-10 codes J09-11.8; US death rate 0.627 per 100K; WV, 1.382	--	25
223.	2003	--	influenza	, ICD-10 codes J09-11.8; US death rate 0.618 per 100K; WV, 1.821	--	33
224.	2004	--	influenza	, ICD-10 codes J09-11.8; US death rate 0.376 per 100K; WV, 0.606	--	11
225.	2005	--	influenza	, ICD-10 codes J09-11.8; US death rate 0.613 per 100K; WV, 0.989	--	18
226.	2006	--	influenza	, ICD-10 codes J09-11.8; US death rate 0.285 per 100K; WV, 0.602	--	11
227.	2006	--	Jan 02, lightning/mine	explosion, Sago Coal Mine, Tallmansville, WV	--	12
228.	2007	--	exposure to excessive natural	cold/hypothermia; 711 US deaths; WV	--	10
229.	2008	--	influenza	, ICD-10 codes J09-11.8; US death rate 0.57 per 100K; WV rate 1.25--	23	
230.	2009	--	influenza (avian)	, ICD-10 code J09; US death rate 0.5 per 100K; WV, 0.6	--	11
231.	2009	--	Feb 10-11, tornadoes	, Lone Grove, OK; Severe Wind, WV	--	12
232.	2009	--	H1N1 Swine Flu	, fall/winter especially, (subset of >12,000 U.S. deaths)	--	22
233.	2010	--	exposure to excessive natural	cold/hypothermia; 710 US deaths; WV	--	15
234.	2010	--	Apr 05, mine	gas explosion, Upper Big Branch Coal Mine, Montcoal, WV	--	29
235.	2011	--	exposure to excessive natural	cold/hypothermia; 0.216 death rate; WV, 0.81--	15	
236.	2011	--	influenza	, ICD-10 codes J09-J11.8; US death rate 0.5 per 100,000; WV, 1.3--	25	
237.	2011	--	viral hepatitis	, ICD-10 code B15-19; US death rate 2.5 per 100K; WV 2.9	--	53
238.	2012	--	diarrhoea/gastroenteritis	, infectious origin, US death rate 0.8 per 100K, WV, 1.2--	23	
239.	2012	--	viral hepatitis	, ICD-10 code B-15-B19, US death rate 2.6 per 100K; WV 2.9	--	53
240.	2013	--	diarrhoea/gastroenteritis	, infectious origin, US death rate 0.8 per 100K, WV, 1.1--	20	
241.	2013	--	influenza	, ICD-10 codes J09-J11.8; US death rate 1.2 per 100K; WV rate 1.5	--	27
242.	2014	--	influenza	, ICD-10 codes J09-11.8; US death rate 1.4 per 100K; WV rate 2.4	--	44
243.	2015	--	diarrhoea/gastroenteritis	, infectious origin, US death rate 0.8 per 100K; WV, 1.1--	20	
244.	2015	--	influenza	, ICD-10 codes J09-11.8; US death rage 1.6 per 100,000; WV, 2.3	--	42
245.	2015	--	viral hepatitis	, ICD-10 code B15-B19; US death rate 2.3 per 100K; WV, 2.4	--	45
246.	2016	--	diarrhoea/gastroenteritis	, infectious origin; US death rate 0.7 per 100K, WV 1.0--	18	
247.	2016	--	influenza	, ICD-10 codes J09-11.8; US death rate 0.9 per 100K; WV rate 1.6	--	30
248.	2016	--	viral hepatitis	, ICD-10 code B15-19; US death rate 2.0 per 100K; WV, 2.4	--	44
249.	2016	--	June 23-24, flash flooding	, esp. Greenbrier (15), Kanawha (6) Counties, WV	--	23
250.	2017	--	influenza	; 6,515 US deaths/death rate 2.0 per 100K pop.; WV rate 2.26	--	41
251.	2018	--	influenza	, ICD codes J09-11.8/death rate 3.41 per 100K pop., WV rate 6.59--	119	
252.	2019	--	influenza	; subset of 5,902 US deaths, 1.08 death rate per 100K; WV rate 2.62--	47	
253.	2020	--	influenza	; 5,943 US deaths/death rate 1.8 per 100K; WV death rate 3.14	--	56
254.	2020	--	COVID-19	; 354,215 US Covid deaths (1,070 per 1M); WV, 747 per 1M pop.	--	1,338

255. 2021 -- **COVID-19**, 437,984 US deaths/2.6K deaths per 1M pop.; WV, 2.98K per M --3,998  
 256. 2022 -- **COVID-19**; 217,370 US deaths/death rate 6.50; WV death rate 13.03 --2,336

### Some Select/Notable Other **West Virginia** Large Loss-of-Life Events:<sup>902</sup>

1870 --	<b>croup</b> (WV subset of 10,692 deaths nationwide)	-- 138
1870 --	<b>scarlet fever</b> , especially children; subset of 20,339 US deaths, WV	-- 157
1870 --	<b>typhoid fever</b> (WV subset of 22,187 typhoid fever deaths nationwide)	-- 167
1870 --	<b>whooping cough</b> (WV subset of 9,008 whooping cough deaths nationwide)	-- 108
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths)	-- 277
1879 --	June-May 1880, <b>malarial fever</b> , (WV subset, 20,231 such deaths nationwide)	-- 49
1879 --	June-May 1880, <b>measles</b> , esp. children (WV subset, 8,254 U.S. measles deaths)	-- 106
1879 --	June-May 1880, <b>meningitis</b> (WV subset of 7,481 meningitis deaths nationwide)	-- 39
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (WV subset, 16,388 US S.F. deaths)	-- 227
1879 --	June-May 1880, <b>tuberculosis</b> (WV subset of 91,270 TB deaths nationwide)	-- 877
1879 --	June-May 1880, <b>typhoid fever</b> (WV subset of 23,339 U.S. Typhoid deaths)	-- 232
1879 --	June-May 1880, <b>whooping cough</b> (WV subset of 11,064 U.S. W.C. deaths)	-- 125
1881 --	<b>diphtheria</b> , Wheeling, WV	-- 29
1889 --	June-May 1890, <b>croup</b> , subset of 13,862 U.S. croup deaths, WV	-- 196
1889 --	June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; WV	-- 118
1897 --	<b>typhoid fever</b> , subset of $\geq 9,192$ US typhoid deaths, Wheeling, WV	-- 15
1898 --	<b>typhoid fever</b> (WV subset of $>4,627$ deaths), 1 <sup>st</sup> and 2 <sup>nd</sup> WV Vol. Inf. US camps	-- 28
1900 --	<b>diphtheria</b> (WV subset of 16,475 US diphtheria deaths in 1900)	-- 162
1900 --	<b>dysentery</b> (subset of 11,710 US dysentery deaths in 1900)	-- 126
1900 --	<b>influenza</b> (subset, 16,645 US influenza deaths)	-- 186
1900 --	<b>measles</b> (subset of 12,866 US measles deaths)	-- 228
1900 --	<b>meningitis</b> (subset, 19,423 US meningitis deaths)	-- 183
1900 --	<b>scarlet fever</b> (subset, 6,333 US scarlet fever deaths)	-- 60
1900 --	<b>tuberculosis</b> (9,588 WV deaths all causes) (109,750 US TB deaths)	--1,273
1900 --	<b>whooping cough</b> (subset, 9,958 US whooping cough deaths)	-- 152
1900 --	summer <b>heat</b> (excessive natural heat exposure, coded “sunstroke” in Census doc.)--	8
1907 --	<b>typhoid fever</b> , Wheeling; subset of ~13K US Census-area typhoid fever deaths	-- 44
1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5, Wheeling	-- 21
1919 --	July 18, <b>Carswell coal mine explosion</b> , Kimball, WV	-- 6
1920 --	<b>influenza and pneumonia</b> , Wheeling, WV	-- 190
1925 --	<b>excessive natural heat</b> (WV subset, 1587 US excessive heat deaths)	-- 8
1925 --	<b>influenza</b> (WV subset, 30,538 US influenza deaths)	-- 399
1925 --	<b>measles</b> (WV subset of 2,404 measles deaths in 40 “registration” states)	-- 55
1925 --	<b>meningococcus meningitis</b> (WV subset, 1,095 US meningitis deaths)	-- 18
1925 --	<b>polio</b> (WV subset, 1,518 US polio deaths)	-- 14
1925 --	<b>scarlet fever</b> (WV subset of 2,762 US scarlet fever deaths, 48 states)	-- 46
1925 --	<b>tuberculosis</b> (WV subset, 89,268 US tuberculosis deaths)	--1,257
1927 --	May 13, <b>Shannon Branch No. 3 coal mine explosion</b> , Caples, WV	-- 8
1928 --	Apr 02, <b>Keystone No. 2 coal mine explosion</b> , Keystone, WV	-- 8

<sup>902</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

**West Virginia (continued):**

1931 --	<b>epidemic cerebrospinal meningitis</b> (WV subset, 2,832 US meningitis deaths)	--	44
1931 --	<b>influenza</b> (WV subset of 31,701 influenza deaths nationwide)	--	577
1931 --	<b>measles</b> , especially children (WV subset, 3,576 measles deaths nationwide)	--	44
1931 --	<b>polio</b> , esp. July-Oct, (WV subset of 2,139-2,144 U.S. polio deaths, esp. children)	--	23
1936 --	Jan 18-28, <b>winter snow storms</b> and <b>extreme cold</b> , WV	--	7
1936 --	July-Aug (especially), <b>excessive heat</b> (4,678-5,418 US heat deaths), WV subset	--	8
1939 --	<b>influenza and pneumonia</b> ; 99,097 US influenza/pneumonia deaths; subset for WV--		584
1939 --	<b>tuberculosis</b> (WV subset of 61,609 tuberculosis deaths nationwide)	--	811
1939 --	<b>whooping cough</b> (WV subset of 3,026 whooping cough deaths nationwide)	--	36
1940 --	<b>influenza and pneumonia</b> ; 92,525 US flu and pneumonia deaths; subset for WV	--	1,504
1940 --	<b>tuberculosis</b> (WV subset of 55,576 tuberculosis deaths nationwide)	--	803
1941 --	Jan 22, <b>Carswell coal mine explosion</b> , Kimball, WV	--	6
1944 --	<b>cerebrospinal meningitis</b> , WV (2,812 U.S. cerebrospinal meningitis deaths)	--	39
1944 --	<b>influenza</b> , esp. Jan-Apr, Dec; 17,320 US influenza deaths; subset for WV	--	320
1944 --	<b>tuberculosis</b> ; 54,731 US tuberculosis deaths	--	764
1948 --	<b>polio</b> , July-Nov especially, 1,895 US polio deaths; subset for WV	--	14
1948 --	Aug 06, Coal <b>Mine</b> No. 11 roof fall/bump, Capels WV	--	6
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths	--	15
1949 --	Mar 04, <b>fire</b> , Woolworth Department Store, firefighters killed, Charleston, WV	--	7
1949 --	June 17-18, downpour, <b>flash flooding</b> Potomac River basin, esp. Petersburg area, WV--		9
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths	--	24
1950 --	June 14, <b>USAF B-25 crash</b> , top of Spruce Mountain, 5M NW of Circleville, WV	--	all 9
1951 --	<b>polio</b> , especially children; 1,551-1,555 US polio deaths; subset for WV	--	14
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for WV	--	428
1952 --	<b>measles</b> , 621 US deaths; 24 states double digits; subset for WV	--	12
1952 --	<b>dysentery</b> , infections (all forms); 949 US deaths; subset for WV	--	17
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for WV	--	184
1952 --	<b>polio</b> , ~3,300 US polio deaths; subset for WV	--	34
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for WV	--	298
1953 --	<b>influenza</b> ; 9,500 US deaths; WV subset	--	218
1953 --	<b>polio</b> (WV subset of 1,450 polio deaths nationwide)	--	21
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; WV subset	--	259
1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; WV subset	--	52
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; WV subset	--	235
1954 --	Mar 19, <b>kerosene explodes</b> , home woodstove, <b>fire</b> , Spider Ridge ~Parkersburg WV--		9
1955 --	<b>influenza</b> ; 2,755 US deaths; WV subset	--	80
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; WV subset	--	207
1956 --	<b>influenza</b> , 2,323 US deaths; WV subset	--	60
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; WV subset	--	205
1957 --	<b>influenza</b> ; 7,463 US deaths; WV subset	--	153
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; WV subset	--	169
1958 --	<b>influenza</b> ; 4,442 US deaths; WV subset	--	67
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; WV subset	--	171
1959 --	Feb 14, OH <b>car</b> goes into Middle Fork, Poca River, Rt 21 near Sissonville, WV	--	6

**West Virginia (continued):**

1960 -- Sep 12, <b>station wagon</b> of high school students hits tractor-trailer near Ripley, WV--	6
1961 -- <b>measles</b> ; 434 US deaths/death rate 0.2 per 100K; WV death rate 0.5	-- 9
1962 -- Dec 06-15, <b>snowstorms/cold-wave</b> >26 States ~east half US (188-238)	-- 5-8
1963 -- <b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; WV death rate 0.4	-- 7
1966 -- Jan 29-30, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; WV	-- 5
1968 -- <b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; WV	-- 9
1968 -- Mar 13, Mead Paper Co. (OH) <b>jet landing crash</b> , icy runway, Wood Co. AP ~Parkersburg WV--	6
1969 -- <b>excessive natural cold</b> ; ICD-8 code E901; 424 US deaths; WV	-- 9
1972 -- July 22, Blacksville #1 coal <b>mine</b> fire and asphyxiations, near Blacksville, WV	-- 9
1973 -- <b>polio</b> ; ICD-8 codes 040-044; 93 US polio deaths; WV	-- 5
1975 -- Nov 4, McJunkin Corp. <b>Beechcraft King Air takeoff crash</b> , Charleston, WV	-- all 6
1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7877 US deaths, death rate 3.6 per 100K; WV 2.7--	50
1976 -- Mar 02, <b>suicidal</b> dynamite explosion, Mason County Jail, Point Pleasant, WV	-- 5
1979 -- <b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; WV death rate 0.31	-- 6
1981 -- Jan 21, <b>Georgia Pacific Corp. Cessna 500 Citation landing crash</b> , Bluefield-Mercer AP, WV--	5
1982 -- Jan 10-16, <b>winter weather</b> , especially extreme cold and ice, WV	-- 1-9
1982 -- Nov 14, 7 C's Transportation <b>Piper Navajo crash</b> after takeoff, Martinsville, WV--	all 8
1984 -- <b>tuberculosis</b> , 1,729 US TB deaths, death rate 0.73 per 100K; WV death rate 0.62	-- 12
1987 -- <b>HIV AIDS</b> , 13,468 deaths/US death rate 5.55 per 100K; WV death rate 1.13	-- 21
1988 -- <b>HIV AIDS</b> , 16,602 deaths/US death rate 6.8 per 100K population; WV, 0.87	-- 16
1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; WV, 0.55	-- 10
1989 -- <b>HIV AIDS</b> ; 22,082 US deaths, death rate 8.9 per 100K population; WV, 1.66	-- 30
1989 -- <b>tuberculosis</b> ; 1,970 US TB deaths, death rate 0.80 per 100K; WV, 0.55	-- 10
1990 -- <b>tuberculosis</b> , 1,810 US TB deaths, death rate 0.73 per 100K; WV, 0.61	-- 11
1992 -- Oct 07, <b>WV Air National Guard C-130 plane crash</b> , Berkeley Springs, WV	-- 6
1993 -- Mar 13-14, <b>Superstorm of 1993</b> , WV	-- ≥9
1996 -- Jan 06-08, <b>snow storm</b> (Blizzard of '96), WV	-- 6
2007 -- Jan 13, <b>fire</b> , Emmons Jr. apartment building, Huntington, WV	-- 9
2009 -- <b>diarrhoea/gastroenteritis</b> of infectious origin; US death rate 0.9 per 100K; WV 0.9	-- 17
2010 -- <b>diarrhoea/gastroenteritis</b> , infectious origin, US and WV death rate of 0.9 per 100K	-- 16
2010 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; WV, 2.2	-- 40
2011 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US death rate 0.9 per 100K; WV, 0.8--	15
2012 -- Mar 24, residential home <b>fire</b> , Charleston, WV	-- 9
2012 -- Oct 29-30, Hurricane Sandy-induced <b>blizzard/snow storm</b> (subset of 154-155), WV--	8
2013 -- <b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; WV, 2.1	-- 39
2014 -- <b>diarrhoea/gastroenteritis</b> , infectious origin; US and WV death rate 0.8 per 100K	-- 14
2014 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; WV, 2.4	-- 44
2016 -- <b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; WV, 0.8	-- 15
2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; subset for WV	-- 11
2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; WV	-- 16
2020 -- <b>HIV/Aids</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; subset for WV	-- 10
2021 -- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; subset for WV	-- 17
2022 -- June 22, <b>MARPAT Aviation UH-1B</b> (7 <sup>th</sup> An. Huey Reunion) <b>crash</b> , Amherstdale WV--	6
2023 -- <b>COVID-19</b> , subset of 71,691 US deaths	-- 575



**Breakout by Type of West Virginia Large Loss-of-Life Events (10 or more fatalities):**

- 129 -- **Disease**, especially communicable, especially epidemics. (Plus 96 in "Other.")
- 71 -- **Mining**. (5 cross-listed in Violence - miner/owner conflicts; plus 6 noted 6 & 9 deaths.)
- 17 -- **Flooding**. (We also note June 1949 flash flood with 9 deaths.)
- 9 -- **Winter Weather**, cold/hypothermia. (Plus 9 events 5-9 deaths.)
- 8 -- **Maritime/In-Land water craft**.
- 8 -- **Violence**. (Plus 6 -- 5 cross-listed in Mining; conflicts between miners and owners.)
- 6 -- **Aviation**. (Plus 7 -- 1 with 9 deaths, 1 with 8, 4 with 6, 1 with five.)
- 4 -- **Rail**.
- 3 -- **Fire, structural**. (Plus 4 -- three with 9 and one with 7 deaths in "Other.")
- 3 -- **Structural Failure**. (Feb 26, 1972 coal mine dam failure cross-listed in flooding.)
- 2 -- **Explosions**. Plus suicidal dynamite explosion in 1976 killing five.
- 2 -- **Heat**. (Plus three years 8 deaths each: 1900, 1925, 1936.)
- 2 -- **Tornado**.
- 1 -- **Road/Highway/Vehicular**. (Plus 6 deaths in 1959 and 1960.)

## WI

## Wisconsin

1. 1832 -- Aug 02, Battle Island **massacre**/Massacre of Bad Axe, WI -- < 60
2. 1847 -- Nov 21, steamboat **Phoenix** fire, sinks, Lake Mich., off Sheboygan, WI --160-258
3. 1849 -- **cholera** epidemic, especially Milwaukee, WI -- ≤301
4. 1850 -- **cholera** epidemic, especially Milwaukee (>300), WI -- ≥363
5. 1850 -- **croup**; subset, 10,706 deaths 36 States/DC/Territories, and 2,908 WI deaths -- 113
6. 1850 -- Apr 03, Sioux **massacre** Chippewa men, women, children, Apple River, WI -- 14
7. 1851 -- **cholera**, esp. Bonnet Prairie vicinity and Muskego; also Madison, Watertown-- >20
8. 1852 -- **cholera**, Muskego area, Norwegian settlements, WI -- ≥10
9. 1854 -- July 07-Sep 19, **cholera**, esp. Madison, Lafayette County/Shullsburg, WI -- ≥49
10. 1855 -- Nov 03, **Delaware** grounds, Lake Mich. storm, ~8 miles from Sheboygan WI --10-11
11. 1856 -- Sep 24, sidewheel **Niagara** burns/sinks, Lake Mich., off Port Washington, WI--40-60
12. 1856 -- Oct 24, steamer **Toledo** sinks, Lake Michigan storm, off Port Washington, WI--40-61
13. 1859 -- Nov 01, **train derails**, Chicago & Northwestern, Johnson Creek, WI -- 14
14. 1860 -- **measles**, especially children (WI subset of 3,900 measles deaths nationwide) -- 55
15. 1860 -- **scarlet fever**; subset 26,402 SF deaths, 38 States/DC; 2<sup>nd</sup> lead cause of WI deaths -- 897
16. 1860 -- **tuberculosis**; subset, 49,082 US TB deaths; leading cause of death in WI -- 910
17. 1860 -- Sep 07, steamer **Lady Elgin** collision, Sinks, Lake MI off Winnetka, IL<sup>903</sup> -- 225
18. 1865 -- June 28, **tornado**, Viroqua, WI -- 22
19. 1868 -- Apr 09, WI sidewheel **Sea Bird** fire/sinks, Lake Michigan, off Waukegan, IL<sup>904</sup>--≥45
20. 1868 -- Dec, **smallpox**, Milwaukee, WI -- 15
21. 1870 -- **diarrhoea** (296), **dysentery** (265), **enteritis** (280); U.S. Census data -- 841
22. 1870 -- **diphtheria**, especially children (WI subset of 6,303 deaths nationwide) -- 186
23. 1870 -- **measles**, especially children (WI subset of 9,237 measles deaths nationwide) -- 152
24. 1870 -- **scarlet fever**, especially children (WI subset of 20,339 deaths nationwide) --1,016
25. 1870 -- **smallpox** (subset of 4,597 smallpox deaths nationwide), WI -- 104
26. 1870 -- **tuberculosis** (Consumption) (WI subset of ~70,000 TB deaths nationwide) --1,318
27. 1870 -- **whooping cough** (WI subset of 9,008 whooping cough deaths nationwide) -- 241
28. 1924 -- Sep 22, freighter **Clifton** sinks, Lake Huron storm, ~30m no. of Oscoda MI<sup>905</sup>--27-30
29. 1871 -- Oct 08-09, **wildfires**, NE WI, esp. Peshtigo, Green Bay east side --1,207-2,360
30. 1873 -- July 04, **tornado or storm, boats capsize**, drownings, Green Lake, WI -- 11
31. 1873 -- Sep 15, storm, steamship **Ironsides** sinks, Lake MI, ~Grand Haven, MI<sup>906</sup> --18-27
32. 1875 -- Aug 26, ships collide, freighter **Comet** sinks, Lake Superior, 7M SE Whitefish Pt., WI--11
33. 1876 -- **smallpox**, Milwaukee (29) -- 161
34. 1878 -- May 23, **tornadoes**, Mifflin/Linden/Waldwick Twps./Marshall/Mineral Point WI--11
35. 1879 -- June-May 1880, **diphtheria**, esp. Sep-Jan, esp. children (38,143 U.S. deaths) --1,692
36. 1879 -- June-May 1880, **scarlet fever**, esp. children (WI subset, 16,388 US S.F. deaths) -- 432
37. 1879 -- June-May 1880, **tuberculosis** (WI subset of 91,270 TB deaths nationwide) --1,495
38. 1881 -- **diphtheria**, Milwaukee -- 120
39. 1881 -- Sep 20, **tornado**, Mondovi, Buffalo County, WI -- 12

<sup>903</sup> Though sunk near IL coast, cross-listed in Wisconsin as most of the passengers were from Milwaukee.

<sup>904</sup> An estimated 67-102 died when the WI-homeported *Sea Bird* went down off Waukegan, IL. We estimate, based on sources, that most were WI residents; an estimated 35 boarded at Manitowoc and another 10-20 at Milwaukee.

<sup>905</sup> Cross-listed in Wisconsin in that at least sixteen of the crew killed were WI residents, esp. Sturgeon Bay.

<sup>906</sup> Though sunk off Grand Haven, MI, boat home-ported/ mostly crewed in Milwaukee - ≥12 Milwaukee deaths.

**Wisconsin (continued):**

40. 1883 -- Jan 10, **fire** (suspected arson), Newhall House (Hotel), Milwaukee, WI ---71--90
41. 1883 -- Aug 23, **fire** and **explosion**, George-Whiting Paper Mill, Menasha, WI -- 16
42. 1884 -- Oct 02, **washout**, Omaha RR construction **train derails**, near Bayfield, WI --10-12
43. 1886 -- Oct 28, **train derailment** and fire, near East Rio, WI -- 22
44. 1886 -- Nov 15-18 Lakes Michigan and Superior storm and **maritime losses** -- 18
- 5 **Emerald**, barge; foundered near Kewanee, WI, Lake Michigan.
- 3 **F. M. Dickinson**, barge; foundered off Kewaunee, WI, Lake Mich., Nov 17
- 10 **Lucerne**, schooner; grounds/breaks, off Chequamegon Pt., Lake Superior
45. 1887 -- **diphtheria**, especially Milwaukee (154) -- 163
46. 1887 -- July 9, **fire**, Alcazar Theater, and town Conflagration, Hurley, WI --10-11
47. 1887 -- Oct 29, loaded steamer **Vernon** sinks, Lake Mich. storm, off Two Rivers, WI --41-49
48. 1888 -- Aug 22, **fire** & **bleach explosion**, George Whiting Paper Mill, Neenah, WI -- 18
49. 1889-90, June 1-May 31. **diphtheria**; subset of 27,815 U.S. diphtheria deaths; WI -- 949
50. 1890 -- **influenza** epidemic (La Grippe/Russian Flu), WI subset of 16,000-17,000 US-- 563
51. 1892 -- Oct 28, **fire**/conflagration, Milwaukee, WI -- 10
52. 1893 -- Apr 20, **structural crib failure** (**tunnel** construction) Drowning, Milwaukee -- 15
53. 1894 -- **diphtheria**, esp. Milwaukee (247), WI subset,  $\geq$ 14,606 US diphtheria deaths -- 272
54. 1894 -- **smallpox**, esp. Milwaukee (244); subset of 1,752 US smallpox deaths -- 325
55. 1894 -- July 26-31, **forest fires**, 8 counties, esp. Phillips, Price County, northern WI --  $\geq$ 20
56. 1894 -- Sep 01, **wildfires**, esp. counties of Barron, Bayfield, Price, Vilas, Washburn -- $\geq$ 9-11
57. 1896 -- **measles**, esp. Milwaukee (29); also Ashland, Berlin, Depere, La Crosse (5)... -- 41
58. 1896 -- Aug 6-10, **heatwave**, especially Milwaukee (76) -- 77
59. 1897 -- July 3-10, **excessive natural heat** (608-616 US Heat deaths), WI subset -- 21
60. 1898 -- **typhoid fever** (WI subset of >4,627 deaths), 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, WI Vol. Inf., US camps--104
61. 1898 -- May 18, **tornadoes**, esp. Marathon Co., also Price, Oneida, Langlade/Eau Claire-- 21
62. 1898 -- Oct 25, storm, steamship **L.R. Doty** sinks, Lake Mich., north of Milwaukee, WI-- 17
63. 1899 -- June 12, **tornado**, New Richmond, St. Croix County, & Polk County, WI -- 119
64. 1900 -- **diphtheria** (WI subset, 16,475 US diphtheria deaths), esp. Milwaukee (93) -- 352
65. 1900 -- **meningitis** (subset, 19,423 US meningitis deaths) -- 449
66. 1900 -- **scarlet fever** (subset, 6,333 US scarlet fever deaths) -- 200
67. 1900 -- **tuberculosis**, leading cause of WI death; 109,750 US TB deaths --2,350
68. 1900 -- **typhoid fever** (WI subset of 35,379 typhoid fever deaths nationwide) -- 865
69. 1900 -- **whooping cough** (subset, 9,958 US whooping cough deaths) -- 218
70. 1900 -- Aug 07-10, **excessive natural heat**, especially Oshkosh and Milwaukee, WI -- 24
71. 1901 -- June-July (especially), **heat waves** (subset of 4,012 US heat deaths) -- 14
72. 1901 -- Nov 06, **fire**, Klondyke Theater, Harley, WI -- 10
73. 1903 -- Oct 03, steamer **Erie L. Hackley** sinks, Lake MI storm, Green Bay ~Green Isl., WI--11
74. 1903 -- Oct 03, **tornadoes**, Adams, Buffalo, Portage, and Trempealeau Counties, WI -- 14
75. 1905 -- July 07, **drownings**, at Log Jam, Chippewa River, Little Falls Dam, WI -- 11
76. 1905 -- Nov 28, freighter **Ira H. Owen** sinks, Lake Superior storm, ~Outer Island, WI-- 19
77. 1907 -- July 03, **tornadoes**, Jackson, Juneau, Monroe, Sauk Counties, WI -- 11
78. 1908 -- **polio**, Summer, especially children, WI -- 61
79. 1910 -- Sep 9, **Pere Marquette 18** springs leak/sinks, Lake MI, 20M off Sheboygan WI<sup>907</sup> --29-31

<sup>907</sup> Includes two fatalities from the Pere Marquette 17 -- crewmembers attempting to rescue survivors from P.M. 18.

**Wisconsin (continued):**

80. 1911 -- **polio**; subset of 1,060 “registration area” deaths (63.1% pop.), WI -- 31
81. 1911 -- Mar 09, Laffin Rand Powder Co. **powder explosion**, Pleasant Prairie, WI -- 40
82. 1911 -- Sep 24, **train collision** with hay **wagon** at crossing, Neenah, WI -- 15
83. 1912 -- Jan-Mar, **tuberculosis**, WI (17,463 US tuberculosis deaths) -- 669
84. 1912 -- Nov 23, schooner **Rouse Simmons** sinks, Lake MI storm, 12m NE Two Rivers WI-- ~17
85. 1913 -- **heat**; 1,226 “registration area” (65% of US) deaths; subset for WI -- 63  
     June 27-30, **excessive natural heat**, especially Milwaukee, WI-- 20
86. 1914 -- Aug-Nov, **polio**, especially children (WI subset of 413-434 US polio deaths) -- 20
87. 1915 -- Aug-Nov, **polio**, especially children (subset of 691 polio deaths nationwide) -- 13
88. 1915 -- Dec-Jan 1916, **influenza/pneumonia** (WI subset, 22,002 US flu/pneumonia deaths)- 490
89. 1916 -- July-Dec 9, **polio**, esp. children, multiple places, WI (~7,000 US polio deaths)-- 79
90. 1916 -- July 16-Aug 01, **excessive natural heat**, especially Milwaukee, WI -- 103
91. 1917 -- **polio**, esp. June-Sep, especially children (WI subset,  $\geq 1,182$  US polio deaths) -- 25
92. 1917 -- Jun 30, **Christopher Columbus** collision/water-tank Falls, Milwaukee Riv. WI-15-18
93. 1917 -- Nov 24, **bomb explosion**, Central Police Station, Milwaukee, WI -- 10
94. 1918 -- Apr, 1919, **influenza and pneumonia** epidemic, WI --11,224-11,571  
     1918 -- **influenza and pneumonia** epidemic, WI --8,022-8,549  
     1919 -- Jan-Apr, **influenza and pneumonia** epidemic, WI -- 3,202
95. 1918 -- June-Nov 25, **polio**, esp. children, 23 Counties (WI subset, ~180 polio deaths)-- 39
96. 1920 -- **measles** (WI subset of 7,712 measles deaths in 34 registration states) -- 234
97. 1920 -- **scarlet fever** (WI subset, 4,004 scarlet fever deaths, 34 registration states)<sup>908</sup> -- 257
98. 1920 -- Aug 20, freighters collide, **Superior City** explos./sinks, Lake Superior, Whitefish Bay, WI-29
99. 1921 -- **polio** (Acute) esp. late Summer-Fall (WI subset, 1,597 U.S. polio deaths) -- 69
100. 1924 -- Sep 21, **tornadoes**, esp. Eau Claire, Ashland, Bayfield, Clark, Taylor Co’s. --33-34
101. 1925 -- **excessive natural cold**; subset of 239 US excessive cold deaths, WI -- 11
102. 1925 -- **diphtheria** (WI subset, 8,058 US diphtheria deaths) -- 177
103. 1925 -- **influenza** (WI subset, 30,538 US influenza deaths) -- 805
104. 1925 -- **measles** (WI subset of 2,404 measles deaths in 40 “registration” states) -- 62
105. 1925 -- **polio** (WI subset, 6<sup>th</sup> highest polio loss in a state; 1,518 US polio deaths) -- 62
106. 1925 -- **scarlet fever** (WI subset of 2,762 US scarlet fever deaths, 48 states) -- 105
107. 1925 -- **smallpox**; WI subset, 2<sup>nd</sup> highest, 709 US smallpox deaths, 48 states -- 134
108. 1929 -- Apr 5, **tornadoes**, Pierce, St. Croix, Dunn, Barron, Rusk, Sawyer Counties, WI--12
109. 1929 -- July 26-28 (Friday-Sunday) heat wave, weekend **drownings**, WI -- 18
110. 1929 -- Oct 22, RR car carrier **Milwaukee** sinks, Lake MI storm ~7m NE Milwaukee WI--52
111. 1929 -- Oct 29, steamer **Wisconsin** sinks, Lake Michigan storm, off Kenosha, WI --  $\geq 12$
112. 1929 -- Oct 31, **fog**, steamers collide, **Senator** sinks, Lake MI, off Port Washington, WI-- 7-10
113. 1930 -- Feb 23, **train/car/train collisions**, near Kenosha, WI -- 14
114. 1931 -- **polio**, esp. July-Oct, WI subset, 2,139-2,144 US polio deaths, esp. children -- 49
115. 1931 -- summer, esp. June 25-July 2, July 15-19 & 28, Aug 6, **heat**, esp. Milwaukee<sup>909</sup>295
116. 1933 -- Dec 26-28, **winter storm/coldwave**, Pacific NW, Upper Mid-West, NE<sup>910</sup> -- 21
117. 1934 -- summer, **excessive natural heat**; subset of 3,250 US heat deaths; WI -- 42

<sup>908</sup> WI had the 2<sup>nd</sup> highest death rate, at 9.7 per 100,000, compared to 34 registration state average of 4.6.

<sup>909</sup> Excessive heat deaths were only higher in the State of Illinois (at 632) in the summer of 1931.

<sup>910</sup> WI Subset of storm taking 102-145 lives.



**Wisconsin (continued):**

118.	1936 -- Jan 18-28, <b>winter snow storms and severe cold</b> , WI	--	16
119.	1936 -- Feb 04-25 especially, <b>Arctic cold waves/snowstorms</b> (273 US deaths), WI	--	16
120.	1936 -- July-Aug (especially), <b>heat</b> (4,678-5,418 US heat deaths), WI subset	--336-500	
121.	1939 -- summer, <b>heat</b> (subset of 527-1,073 heat deaths nationwide)	--	15
122.	1940 -- <b>polio</b> (WI subset of 1,026 polio deaths nationwide)	--	46
123.	1940 -- Nov 11/12, Armistice Day <b>storm/blizzard</b> , WI	--13-14	
124.	1944 -- <b>measles</b> , especially Jan-June (WI subset of 1,923 US measles deaths)	--	43
125.	1946 -- <b>polio</b> , especially July-Nov (WI subset of 1,845 polio deaths nationwide)	--	88
126.	1947 -- Aug 05-13, <b>heat</b> (US excessive heat deaths 1947/540), WI, esp. Milwaukee	--	12
127.	1948 -- <b>polio</b> , especially July-Nov (WI subset of 1,895 polio deaths nationwide)	--	92
128.	1949 -- <b>polio</b> , especially July-Nov (WI subset of ~2,725 polio deaths nationwide)	--	73
129.	1950 -- <b>polio</b> , especially July-Nov (WI subset of 1,904 polio deaths nationwide)	--	55
130.	1950 -- Sep 2, <b>Milwaukee Interurban excursion trains collide headon</b> ~Milwaukee WI-10		
131.	1951 -- <b>polio</b> , especially July-Nov (WI subset of 1,551-1,555 US polio deaths)	--	74
132.	1952 -- <b>polio</b> , subset of ~3,300 US polio deaths; Milwaukee (21)	--	133
133.	1953 -- <b>measles</b> , 483 US deaths/23 States double digits; WI subset	--	12
134.	1954 -- <b>polio</b> , acute; 1,400 US deaths; WI subset	--	40
135.	1954 -- <b>scarlet fever</b> /streptococcal sore throat; 263 US deaths; WI 4 <sup>th</sup> highest US loss--	15	
136.	1955 -- <b>polio</b> (acute); 1,043 deaths (all states, double digits in 23); WI subset	--	166
137.	1956 -- <b>polio</b> /acute, 566 US deaths/15 states in double-digits; WI, 5 <sup>th</sup> highest US state--	26	
138.	1957 -- <b>measles</b> ; 389 US deaths; 15 states double digit deaths; WI subset	--	11
139.	1957 -- fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--1,151	
140.	1958 -- <b>measles</b> ; 552 US deaths; 23 States in double digits, including WI (7 <sup>th</sup> highest)--	18	
141.	1958 -- June 04, <b>tornadoes</b> , esp. St. Croix, Dunn, Chippewa, Clark Counties, WI	--	28
142.	1959 -- Mar 5-6, <b>snowstorm</b> and high wind; subset of 53-56 US deaths; WI	--	11
143.	1960 -- <b>measles</b> , especially children (WI subset of 380 measles deaths nationwide)	--	11
144.	1960 -- Jan 15-18, Midwest to Northeast <b>snowstorms</b> ; 36-41 US deaths; WI	--	11
145.	1960 -- <b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; WI death rate 4.9	--	195
146.	1960 -- July 18, <b>explosion</b> (gas) and Fire, J.C. Penney Co. Dept. Store, Merrill, WI	--	10
147.	1961 -- <b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; WI death rate 1.4	--	55
148.	1962 -- <b>influenza</b> ; 3,431 US deaths/death rate 1.8 per 100K; WI death rate 2.2	--	91
149.	1962 -- Jan 08-13, <b>snow, sleet, extreme cold-wave</b> ; 153-219 US deaths; WI subset	--16-20	
150.	1963 -- <b>influenza</b> , 7,083 US deaths/death rate 3.8; WI death rate 5.3	--	214
151.	1963 -- <b>measles</b> ; 364 US deaths/death rate 0.2 per 100K; WI death rate 0.5	--	19
152.	1963 -- Jan 18-27, <b>cold waves and snow</b> (subset of 315-352 US deaths); WI	--	5-10
153.	1966 -- <b>meningococcal infections</b> , 876 US deaths, esp. CA/109, TX/59, OH/50; WI--	15	
154.	1968 -- <b>excessive natural cold</b> ; ICD-8 code E901; subset of 494 of US cold deaths; WI--	14	
155.	1968 -- <b>influenza</b> , ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; WI 5.0--	220	
156.	1969 -- <b>excessive natural cold</b> ; ICD-8 code E901; 424 US deaths; WI	--	10
157.	1970 -- <b>excessive natural cold</b> ; ICD-8 code E901; 466 US deaths; WI	--	17
158.	1970 -- <b>excessive natural heat</b> , ICD-8 code E900; 179 US deaths; WI	--	14
159.	1971 -- <b>excessive natural cold</b> ; ICD-8 code E901; 361 US deaths; WI	--	17
160.	1971 -- <b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; WI 0.99--	44	
161.			

**Wisconsin (continued):**

162.	1971 -- Jan 3-4, <b>snowstorm</b> /blizzards, Rockies to Great Lakes; 65-77 US deaths; WI <sup>911</sup> --	7-12
163.	1972 -- <b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; WI 3.3--	148
164.	1972 -- Apr 04, Fair Hills Boarding Home for elderly <b>fire</b> /night/no staff, Rosecrans, WI-	10
165.	1972 -- June 29, North Central Air (5) & Air Wisconsin Inc. (8) <b>collide</b> ~Appleton, WI--	13
166.	1973 -- <b>excessive natural cold</b> ; ICD-8 code E901; 381 US deaths; WI subset	-- 10
167.	1973 -- <b>influenza</b> ; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; WI	-- 112
168.	1973 -- Apr 08-10, <b>snowstorm</b> ; 41-42 deaths/4 States; exposure, snow removal, hwy.--	20
169.	1974 -- <b>exposure to excessive natural cold</b> ; ICD-8 code E901; 348 US deaths; WI	-- 10
170.	1974 -- <b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; WI/1.8--	81
171.	1975 -- exposure to <b>excessive natural cold</b> (ICD-8 E901); 359 US deaths; WI	-- 13
172.	1975 -- <b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; WI/3.3--	150
173.	1976 -- <b>influenza</b> ; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; WI	5.4--249
174.	1977 -- <b>cold/hypothermia</b> , exposure to excessive natural; 634 US deaths; WI	-- 18
175.	1977 -- <b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; WI death rate 1.41--	65
176.	1977 -- Jan 26-Feb 1, <b>winter storms/blizzards/coldwave</b> (116 US deaths), WI	-- 10
177.	1978 -- <b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; WI death rate 3.41--	158
178.	1978 -- exposure to <b>excessive natural cold/hypothermia</b> ; 652 US deaths; WI <sup>912</sup>	-- 18
179.	1978 -- Jan 25-27, <b>snow, high wind, deep cold</b> (subset of 143-146 US deaths)	-- 17
180.	1979 -- exposure to excessive natural <b>cold/hypothermia</b> ; 356 US deaths; WI	-- 15
181.	1979 -- <b>influenza</b> , 604 US flu deaths/death rate 0.27 per 100K; WI, 0.36	-- 17
182.	1980 -- exposure to excessive natural <b>cold/hypothermia</b> ; 302 US deaths; WI	-- 15
183.	1980 -- <b>influenza</b> , 2,702 US flu deaths/death rate 1.19 per 100K, WI rate 1.66	-- 78
184.	1981 -- exposure to excessive natural <b>cold/hypothermia</b> ; 289 US deaths; WI	-- 13
185.	1981 -- <b>influenza</b> , 3,006 US flu deaths/death rate 1.31 per 100K, WI, 2.43	-- 115
186.	1982 -- exposure to excessive natural <b>cold/hypothermia</b> ; 402 US deaths; WI	-- 23
187.	1982 -- <b>influenza</b> , 727 US flu deaths/death rate 0.31 per 100K, WI, 0.46	-- 22
188.	1983 -- exposure to excessive natural <b>cold/hypothermia</b> ; 510 US deaths; WI	-- 16
189.	1983 -- <b>influenza</b> , 1,431 US flu deaths, death rate 0.61 per 100K, WI, 1.04	-- 49
190.	1983 -- Dec 14-25, <b>winter weather, extreme cold</b> /exposure deaths, snow, icy roads--	10
191.	1984 -- exposure to excessive natural <b>cold/hypothermia</b> ; 359 US deaths; WI	-- 16
192.	1984 -- <b>influenza</b> , 1,096 US flu deaths, death rate 0.46 per 100K, WI, 0.63	-- 30
193.	1985 -- exposure to excessive natural <b>cold/hypothermia</b> ; 519 US deaths; WI	-- 21
194.	1985 -- <b>influenza</b> , 2,054 US flu deaths, death rate 0.86 per 100K, WI, 1.18	-- 56
195.	1985 -- Sep 06, <b>Midwest Express Airlines 105 departure crash</b> , Milwaukee, WI	-- 31
196.	1986 -- exposure to excessive natural <b>cold/hypothermia</b> ; 301 US deaths; WI	-- 10
197.	1986 -- <b>influenza</b> ; 1,838 US flu deaths; death rate 0.76 per 100K: WI, 1.20	-- 57
198.	1987 -- <b>influenza</b> ; 632 US flu deaths, death rate 0.26 per 100K; WI, 0.44	-- 21
199.	1987 -- Sep 30, <b>fire</b> , residence, Milwaukee, WI	-- 12
200.	1988 -- exposure to excessive natural <b>cold/hypothermia</b> ; 431 US deaths; WI	-- 11
201.	1988 -- summer <b>excessive natural heat</b> , especially Milwaukee County	-- 11
202.	1988 -- <b>influenza</b> ; 1,943 US flu deaths, death rate 0.79 per 100K; WI, 1.04	-- 50

<sup>911</sup> Kenosha News/UPI rpt. noted 12 deaths/11 heart attacks related to snow removal. We identify 7 specific deaths.

<sup>912</sup> Though there were 17 deaths in the Jan 25-27 winter event noted below, the majority were heart attacks related to snow removal. Know of only one hypothermia death – young woman on snowmobile became lost, rural Oshkosh.

**Wisconsin (continued):**

203.	1989	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	524 US deaths; WI	--	14
204.	1989	-- <b>influenza</b> ,	1,593 US flu deaths, death rate 0.64 per 100K; WI, 1.22	--	59	
205.	1990	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	596 US deaths; WI	--	10
206.	1990	-- <b>influenza</b> ,	2,098 US flu deaths; death rate 0.84 per 100K; WI, 1.43	--	70	
207.	1991	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	588 US deaths; WI	--	12
208.	1991	-- <b>influenza</b> ,	1,137 US flu deaths, death rate 0.45 per 100K; WI, 0.81	--	40	
209.	1992	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	558 US deaths; WI	--	15
210.	1992	-- <b>influenza</b> ,	1,006 US flu deaths, death rate 0.39 per 100K, WI, 0.70	--	35	
211.	1993	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	641 US deaths; WI	--	10
212.	1993	-- <b>influenza</b> ,	1,044 US flu deaths, death rate 0.40 per 100K; WI, 0.67	--	34	
213.	1994	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	633 US deaths; WI	--	18
214.	1994	-- <b>influenza</b> ,	1,229 US flu deaths; death rate 0.47 per 100K; WI, 0.91	--	47	
215.	1995	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	553 US deaths; WI	--	19
216.	1995	-- <b>influenza</b> ,	ICD-9 code 487.0, US death rate 0.227 per 100K, WI, 0.308	--	16	
217.	1995	-- summer, esp. July 12-17, 30-31, <b>excessive heat</b> , esp. Milwaukee (95)	--	154		
218.	1996	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	685 US deaths; WI	--	19
219.	1996	-- <b>influenza</b> ,	subset of 745 US flu deaths/US death rate 0.276 per 100K; WI, 0.67	--	35	
220.	1997	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	501 US deaths; WI	--	14
221.	1997	-- <b>influenza</b> ,	code 487.0; US death rate 0.26 per 100K (720 US deaths); WI, 0.379	--	20	
222.	1998	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	420 US deaths; WI	--	10
223.	1998	-- <b>influenza</b> ,	ICD-9 code 487.0; US death rate 0.62 per 100K; WI rate 1.94	--	103	
224.	1999	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	598 US deaths; WI	--	24
225.	1999	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.597 per 100K; WI, 2.194	--	117	
226.	1999	-- summer, <b>heat</b> , esp. greater Milwaukee (WI subset of 1,050 heat deaths)	--	19		
227.	2000	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	742 US deaths; WI	--	22
228.	2000	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.627 per 100K; WI, 1.678	--	90	
229.	2001	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	599 US deaths; WI	--	20
230.	2001	-- exposure to <b>excessive natural heat</b> ;	538 US deaths; subset for WI	--	24	
231.	2001	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.09 per 100K; WI, 0.20	--	43	
232.	2002	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	646 US deaths; WI	--	12
233.	2002	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.253 per 100K; WI, 0.790	--	43	
234.	2002	-- Oct 11, <b>fog</b> , multi-vehicle <b>pileup</b> , I-43, near Cedar Grove, WI	--	10		
235.	2003	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	620 US deaths; WI	--	12
236.	2003	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.618 per 100K; WI, 1.004	--	55	
237.	2004	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	676 US deaths; WI	--	19
238.	2004	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.376 per 100K; WI, 1.124	--	62	
239.	2005	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	700 US deaths; WI	--	20
240.	2005	-- exposure to <b>excessive natural heat</b> ;	939 US deaths, subset for WI	--	12	
241.	2005	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.613 per 100K; WI, 2.200	--	122	
242.	2006	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	519 US deaths; WI	--	13
243.	2006	-- exposure to <b>excessive natural heat</b> ;	912 US heat-related deaths; WI	--	10	
244.	2006	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.285 per 100K; WI, 0.610	--	34	
245.	2007	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	711 US deaths; WI	--	15
246.	2007	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.14 per 100K; WI, 0.25	--	14	

**Wisconsin (continued):**

247.	2008	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	641 US deaths; WI	--	29
248.	2008	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.57 per 100K; WI, 1.52	--	86	
249.	2009	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	616 US deaths; WI	--	13
250.	2009	-- <b>diarrhoea/gastroenteritis</b> ,	infectious origin; US death rate 0.9 per 100K; WI 1.0--	58		
251.	2009	-- <b>H1N1 Swine Flu</b> ,	especially fall-winter (subset of >12,000 U.S. deaths)	--41-55		
252.	2010	-- <b>diarrhoea/gastroenteritis</b> ,	infectious origin; US death rate 0.9 per 100K; WI 1.1--	61		
253.	2010	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	710 US deaths; WI	--	19
254.	2011	-- <b>diarrhoea/gastroenteritis</b> ,	infectious origin; US death rate 0.9 per 100K; WI 1.1--	60		
255.	2011	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	0.216 death rate; WI, 0.46--	26	
256.	2011	-- exposure to <b>excessive natural heat</b> ,	1,060 US deaths, subset for WI	--	10	
257.	2012	-- <b>diarrhoea/gastroenteritis</b> ,	infectious origin; US death rate 0.8 per 100K; WI 1.0--	55		
258.	2012	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	501 US deaths; WI	--	10
259.	2012	-- exposure to <b>excessive natural heat</b> ;	879 US deaths; subset for WI	--	24	
260.	2012	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.4 per 100K; WI, 0.7	--	38	
261.	2013	-- <b>diarrhoea/gastroenteritis</b> ,	infectious origin; US death rate 0.8 per 100K, WI 1.0--	60		
262.	2013	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	725 US deaths; WI	--	24
263.	2013	-- exposure to <b>excessive natural heat</b> ;	651 US deaths, subset for WI	--	13	
264.	2013	-- <b>influenza</b> ,	ICD-10 codes J09-J11.8; US death rate 1.2 per 100,000; WI, 2.5	--	142	
265.	2014	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	930 US deaths; WI	--	40
266.	2014	-- <b>influenza</b> ,	ICD-10 Codes J09-11.8; US death rate 1.4 per 100,000; WI, 1.7	--	97	
267.	2015	-- <b>diarrhoea/gastroenteritis</b> ,	infectious origin; US death rate 0.8 per 100K, WI 0.9--	52		
268.	2015	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	815 US deaths; WI	--	22
269.	2015	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 1.6 per 100K; WI rate 3.1	--	176	
270.	2016	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	731 US deaths; WI	--	21
271.	2016	-- <b>influenza</b> ,	ICD-10 codes J09-11.8; US death rate 0.9 per 100K; WI rate 1.1	--	63	
272.	2017	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	804 US deaths; WI	--	20
273.	2017	-- <b>influenza</b> ;	6,515 US deaths/death rate 2.0 per 100K pop.; WI death rate 2.66--	154		
274.	2018	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	1,028 US deaths; WI	--	24
275.	2018	-- <b>influenza</b> ,	ICD codes J09-11.8/death rate 3.41 per 100K pop., WI rate 4.87	--	283	
276.	2019	-- exposure to excessive natural	<b>cold/hypothermia</b> ;	1,115 US deaths; WI <sup>913</sup>	--	46
277.	2019	-- <b>influenza</b> ;	subset of 5,902 US deaths, 1.1 death rate per 100K; WI rate 1.77	--	103	
278.	2020	-- <b>influenza</b> ;	5,943 US deaths/death rate 1.8 per 100K; WI death rate 2.26	--	132	
279.	2020	-- <b>COVID-19</b> ;	354,215 US Covid deaths (1,070 per 1M); WI 835 per 1M pop.	--4,859		
280.	2021	-- <b>COVID-19</b> ,	437,984 US deaths/2.6K deaths per 1M pop.; WI, 1.9K per M	--6,314		
281.	2021	-- exposure to excessive <b>natural cold</b> ;	1,179 US deaths/death rate 0.36; WI 0.59--	35		
282.	2021	-- exposure to <b>excessive natural heat</b> ;	1,912 US heat deaths; subset for WI	--	15	
283.	2022	-- <b>COVID-19</b> ;	217,370 US deaths/death rate 6.50; WI death rate 7.96	--4.634		
284.	2022	-- exposure to <b>excessive natural heat</b> ;	2,159 US deaths; subset for WI	--	20	
285.	2023	-- exposure to <b>excessive natural heat</b> ;	2,155 US deaths, subset for WI	--	12	

<sup>913</sup> At 0.79 deaths per 100,000 population WA had 2<sup>nd</sup> highest death rate in US (avg. 0.34), behind NM.



Some Select/Notable Other **Wisconsin** Large Loss-of-Life Events:<sup>914</sup>

1850 --	<b>dysentery</b> ; subset of 20,556 dysentery deaths 36 States, Territories, DC; avg. 571--	130
1850 --	<b>measles</b> ; subset 2,988 US measles deaths (average of 83 per State/Territory), WI --	27
1850 --	<b>smallpox</b> ; subset 2,353 smallpox deaths 31 states/4 territories/DC; average 65 --	14
1850 --	<b>tuberculosis</b> ; subset, 33,516 TB deaths, 31 states/4 territories/DC (avg. 931) --	290
1850 --	<b>whooping cough</b> , subset 5,280 WC deaths, 31 states/4 territories/DC (avg. 147) --	51
1860 --	<b>croup</b> (contagious upper airway viral infection), subset, 15,188 US croup deaths --	250
1860 --	<b>smallpox</b> (WI subset of 1,263-1,271 smallpox deaths in reporting States) --	15
1860 --	<b>typhoid fever</b> (WI subset of 19,236 deaths in 38 “registration” States and DC) --	262
1860 --	<b>whooping cough</b> (WI subset of 8,408 whooping cough deaths nationwide) --	112
1865 --	<b>smallpox</b> outbreak, Wolf Creek Menominee Native Settlement, WI --	≥10
1870 --	<b>typhoid fever</b> (WI subset of 22,187 typhoid fever deaths nationwide) --	464
1870 --	<b>typhus</b> (WI subset of 1,770 typhus deaths nationwide) --	31
1879 --	June-May 1880, <b>croup</b> , esp. Oct-Dec, esp. children (17,966 U.S. croup deaths) --	340
1879 --	June-May 1880, <b>malarial fever</b> , (WI subset, 20,231 such deaths nationwide) --	130
1879 --	June-May 1880, <b>measles</b> , esp. children (WI subset, 8,254 U.S. measles deaths) --	66
1879 --	June-May 1880, <b>meningitis</b> (WI subset of 7,481 meningitis deaths nationwide) --	60
1879 --	June-May 1880, <b>typhoid fever</b> (WI subset of 23,339 U.S. typhoid deaths) --	365
1879 --	June-May 1880, <b>whooping cough</b> (WI subset, 11,064 US whoop cough deaths) --	122
1881 --	July 9-Dec 10, <b>smallpox</b> , Kenosha (2), Madison (8), Milwaukee (2), WI --	12
1882 --	Jan-May 20, <b>smallpox</b> , especially Milwaukee, WI --	16
1885 --	<b>diphtheria and croup</b> , especially children, Milwaukee, WI --	23
1886 --	May 05, strikers/bystanders <b>shot by Wisconsin militia</b> , Bay View, Milwaukee WI <sup>915</sup> --	7
1889-90,	June-May, <b>croup</b> , subset of 13,862 U.S. croup deaths --	272
1889-90,	June-May, <b>measles</b> , subset of 9,256 US measles deaths --	128
1889-90,	June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths --	352
1892 --	Mar 01, passenger and “shop <b>train</b> ” collide, workmen killed, Milwaukee, WI --	7
1893 --	June 21, <b>lightning</b> strikes Ringling Brothers Circus tent, River Falls, WI --	7
1895 --	Mar 23-June 17, <b>smallpox</b> , De Pere, Greenfield, Lawrence, Milwaukee, WI <sup>916</sup> --	15
1897 --	<b>typhoid fever</b> , subset of ≥9,192 US typhoid deaths, Milwaukee (31) --	40
1900 --	<b>croup</b> (upper airway contagious viral infection; WI subset 12,484 US croup deaths) --	159
1900 --	<b>dysentery</b> (WI subset of 11,710 US dysentery deaths in 1900) --	116
1900 --	<b>influenza</b> (WI subset, 16,645 US influenza deaths) --	241
1900 --	<b>malarial fever</b> (WI subset of 14,874 US malarial fever deaths) --	37
1900 --	<b>measles</b> (WI subset of 12,866 US measles deaths) --	103
1905 --	<b>tuberculosis</b> , Milwaukee subset, 56,770 Census area deaths (10 states/135 cities) --	419
1907 --	<b>tuberculosis</b> ; 76,650 US deaths; Milwaukee, WI --	385
1907 --	<b>typhoid fever</b> , 6 cities in Census, esp. Milwaukee/83; ~13K US Census deaths --	111
1910 --	<b>typhoid fever</b> ; subset, 12,673 US deaths/21 states/death rate 23.5; WI, 23.3 --	544
1912 --	Jan 04-14 especially, <b>cold wave and snow storms</b> (subset of 228 US deaths) --	8
1913 --	<b>measles</b> , 8,108 US “registration area” (65.1%) deaths; WI, 3 <sup>rd</sup> low state death rate--	185

<sup>914</sup> We include in “Other” two categories: (1) events where fewer than 10 lives lost, but which we take note, and (2) diseases taking over ten deaths but not at an epidemic or below US or “Registration Area” average death rate.

<sup>915</sup> Six marching strikers and one bystander, a boy of 13. No warning shots were fired.

<sup>916</sup> US Surgeon General reported 3,347 smallpox cases and 633 deaths in 27 States, 2 Territories and DC in 1895.

Some Select Other **Wisconsin** Large Loss of Life Events (continued):

1913 --	<b>polio</b> , acute, esp. summer-fall, 864 "registration area" (65% pop.) deaths, WI	--	30
1914 --	<b>measles</b> ; 4,461 US deaths/death rate 6.8 per 100K pop.; WI rate 6.0	--	146
1916 --	<b>diphtheria</b> , especially children (WI subset, >8,000-17,000 US diphtheria deaths)	--	213
1917 --	<b>influenza</b> ; 12,974 US influenza deaths/death rate 17.2 per 100K; WI rate 15.5	--	391
1918 --	<b>typhoid fever</b> (WI subset of 9,100 U.S. typhoid fever deaths)	--	94
1919 --	<b>diphtheria</b> (WI subset, 9,160 US diphtheria deaths)	--	267
1920 --	<b>diphtheria and croup</b> (subset of 13,395 deaths in 34 registration states), WI	--	383
1920 --	<b>influenza and pneumonia</b> , "registration cities," WI (US 141,609-220,798)	--	2,077
1920 --	<b>smallpox</b> (WI subset of 508 smallpox deaths reported in 34 registration states)	--	10
1920 --	<b>typhoid fever</b> (WI subset of 6,805 typhoid fever deaths, 34 registration states)	--	65
1920 --	<b>whooping cough</b> (WI subset, 10,968 whooping cough deaths in 34 reg. states)	--	299
1920 --	Feb 26, <b>aluminum plant dust explosion</b> /female workers killed, Manitowoc, WI	--	6
1925 --	<b>dysentery</b> (WI subset, 3,257 US dysentery deaths)	--	50
1925 --	<b>excessive natural heat</b> (WI subset, 1587 US excessive heat deaths)	--	6
1925 --	<b>tuberculosis</b> (WI subset, 89,268 US tuberculosis deaths)	--	1,752
1925 --	<b>typhoid/paratyphoid fever</b> (WI subset, 8,287 US Typhoid Fever deaths)	--	56
1925 --	<b>whooping cough</b> (WI subset, 6,948 US whooping cough deaths)	--	128
1926 --	Apr 21, fire, <b>sawdust explosion/fire</b> , Marsh Wood Products Co., Milwaukee, WI	--	6
1927 --	<b>polio</b> (acute) esp. late summer-fall (WI subset, 2,013 polio deaths nationwide)	--	41
1931 --	<b>epidemic cerebrospinal meningitis</b> (WI subset, 2,832 US meningitis deaths)	--	40
1931 --	<b>diphtheria</b> , especially children (WI subset, 5,738 U.S. diphtheria deaths)	--	55
1931 --	<b>influenza</b> (WI subset of 31,701 influenza deaths nationwide)	--	575
1931 --	<b>measles</b> , especially children (WI subset, 3,576 measles deaths nationwide)	--	42
1931 --	<b>whooping cough</b> , 4,619 US deaths/death rate 3.9 per 100K; WI death rate 2.0	--	59
1937 --	Apr 10, Charles A Krause Milling Co. dust <b>explosion</b> & fire, Greenfield, WI	--	9
1937 --	Apr 18, <b>pyrotal</b> stored in Waszuk family basement <b>explodes</b> , Muskego, WI	--	9
1937 --	May 30, two <b>car collision</b> on curve/6 one family, Hwy. 42, Newtonburg, WI	--	9
1939 --	<b>influenza and pneumonia</b> (WI subset, 99,097 U.S. influenza/pneumonia deaths)	--	2,049
1939 --	<b>tuberculosis</b> (WI subset of 61,609 tuberculosis deaths nationwide)	--	771
1939 --	<b>whooping cough</b> (WI subset of 3,026 whooping cough deaths nationwide)	--	43
1940 --	<b>influenza and pneumonia</b> (WI subset of 92,525 U.S. flu and pneumonia deaths)	--	1,836
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); WI death rate 7.4	--	232
1940 --	<b>tuberculosis</b> (WI subset of 55,576 tuberculosis deaths nationwide)	--	730
1940 --	<b>whooping cough</b> ; 2926 US WC deaths/death rate 2.2 per 100K, WI death rate 0.8	--	30
1941 --	<b>measles</b> , especially children (WI subset of 2,279 measles deaths nationwide)	--	26
1944 --	<b>cerebrospinal meningitis</b> (WI set, 2,812 U.S. cerebrospinal meningitis deaths)	--	55
1944 --	<b>influenza</b> , esp. Jan-Apr, Dec (WI subset of 17,320 U.S. influenza deaths)	--	346
1944 --	<b>polio</b> , especially July-Nov; 1,070 US polio deaths; subset for WI	--	31
1944 --	<b>tuberculosis</b> (WI subset of 54,731 tuberculosis deaths nationwide)	--	726
1944 --	<b>whooping cough</b> (WI subset of 1,878 whooping cough deaths nationwide)	--	23
1945 --	Sep 22, <b>USAAF C-45 Expeditor crash</b> 3 miles south of Arlington, WI	--	all 7
1950 --	<b>measles</b> ; subset of 468 US polio deaths	--	6
1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for WI	--	357
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for WI	--	102

Some Select Other **Wisconsin** large loss of life events (continued):

1952 --	<b>polio</b> , especially children (WI subset of 3,000-3,300 US polio deaths in 1952)	--	43
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for WI	--	217
1953 --	<b>influenza</b> ; 9,500 US deaths; WI subset	--	199
1953 --	<b>polio</b> , especially children (WI subset of 1,450 polio deaths nationwide)	--	22
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; WI subset	--	204
1954 --	<b>influenza</b> , 2,696 US deaths, esp. TX/228, AL/180, GA/162 PA/154; WI subset	--	55
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; WI subset	--	205
1954 --	Dec 28-31, <b>winter snow storms and arctic cold</b> , WI subset of 48-52 US deaths	--	9
1955 --	<b>tuberculosis</b> (respiratory); 13,676 US TB deaths; WI subset	--	183
1956 --	<b>influenza</b> , 2,323 US deaths; WI subset	--	67
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; WI subset	--	173
1957 --	<b>influenza</b> ; 7,463 US deaths; WI subset	--	152
1957 --	<b>tuberculosis</b> (respiratory); 12,384 US deaths; WI subset	--	141
1958 --	<b>influenza</b> ; 4,442 US deaths; subset' subset for WI	--	111
1958 --	<b>tuberculosis</b> ; 12,361 US TB deaths; WI subset	--	164
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; WI subset	--	135
1959 --	Mar 16, <b>fire</b> , residence (father and five children), Superior, WI	--	6
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; WI death rate 3.1	--	112
1961 --	<b>tuberculosis</b> , 9,938 US deaths/death rate 5.4 per 100k; WI death rate 2.9	--	117
1962 --	<b>tuberculosis</b> ; 9,508 US deaths/death rate 5.1 per 100K pop.; WI 2.5	--	103
1963 --	<b>tuberculosis</b> ; 9,311 US deaths; death rate 4.9 per 100K pop.; WI death rate 2.7	--	111
1963 --	Jan 11-14, <b>cold wave, snow</b> ; shoveling snow, exposure, road deaths	--	7
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9; WI death rate 0.8	--	34
1964 --	<b>tuberculosis</b> ; US deaths 8,303/death rate 4.3 per 100K; WI death rate 2.7	--	111
1965 --	<b>influenza</b> , 2,295 US deaths/death rate 1.2 per 100K; WI death rate 1.1	--	46
1965 --	<b>tuberculosis</b> , 7,934 US deaths, death rate 4.1 per 100K; WI death rate 2.8	--	89
1965 --	June 5, <b>USAF C119</b> unexplained crash, Caribbean, NE of Crooked Isl. Bahamas <sup>917</sup> --	10	
1966 --	<b>excessive natural heat</b> , subset of 613 US heat deaths, WI	--	8
1966 --	<b>influenza</b> ; 2,830 US deaths, esp. CA/636, WA/154, OR/134; subset for WI	--	44
1966 --	<b>tuberculosis</b> , 7,625 US TB deaths; subset for WI	--	95
1966 --	Jan 29-30, <b>coldwave, snow, ice</b> ; 251-258 US deaths Jan 26-Feb 1; WI	--	6
1966 --	Feb 04, Astor Hotel <b>fire</b> and destruction, downtown Green Bay, WI	--	8
1966 --	Nov 18, <b>USAF B52 low level flight/hits trees/crashes</b> , S of Stone Lake ≈Hayward WI--	9	
1967 --	Dec 10, <b>Otis Redding Enterprises Beechcraft crash</b> , Lake Monona, Madison, WI--	7	
1968 --	<b>tuberculosis</b> , 6,292 US deaths/death rate 3.15 per 100K; WI death rate 1.60	--	70
1968 --	Dec 22-Feb 01, A2 Hong Kong <b>influenza</b> -pneumonia epidemic, Madison, Milwaukee-97		
1969 --	<b>influenza</b> , ICD-8 codes 470-474; 5,971 deaths/death rate 2.96 per 100K; WI 2.39	--	105
1969 --	<b>polio</b> ; ICD-8 codes 040-044; 110 US deaths; WI	--	5
1969 --	<b>tuberculosis</b> ; 5,567 US deaths/death rate 2.76 per 100K; WI	--	55
1970 --	<b>influenza</b> ; ICD-8 codes 470-474; 3,707 US deaths/death rate 1.8 per 100K; WI 1.38	--	61
1970 --	<b>tuberculosis</b> ; ICD-8 code 010-019; 5,207 US deaths/death rate 2.56 per 100K; WI 1.3	--	58
1971 --	<b>tuberculosis</b> ; 4,501 US deaths/death rate 2.18 per 100K; WI death rate 1.05	--	47
1971 --	Sep 25, Mantwo Inc Beechcraft <b>takeoff crash</b> , Gen. Mitchell Field, Milwaukee WI--all 6		

<sup>917</sup> Nine of the ten were Air Force reservists from Milwaukee and area.

**Wisconsin (continued):**

1972 --	tuberculosis;	4,376 US deaths/death rate 2.09 per 100K; WI death rate 1.02	--	46
1973 --	tuberculosis;	3,875 US deaths/death rate 1.84 per 100K; WI death rate 0.86	--	39
1973 --	Sep 21, Piper PA-30 Comanche pilot error crash,	5M SSE, Iron Co. AP, WI	--	all 6
1974 --	tuberculosis;	3,513 US deaths/death rate 1.65 per 100K; WI death rate 0.99	--	45
1975 --	tuberculosis;	3,333 US deaths/death rate 1.55 per 100K; WI death rate 0.99	--	45
1976 --	tuberculosis;	3,130 US deaths/death rate 1.44 per 100K; WI death rate 0.89	--	41
1977 --	tuberculosis;	2,968 US deaths/death rate 1.35 per 100K; WI death rate 0.48	--	35
1977 --	Dec 06-09, snowstorms and coldwave (≥114 US deaths)		--	8
1978 --	tuberculosis;	2,914 US deaths/death rate 1.31 per 100K; WI death rate 0.80	--	37
1979 --	chickenpox,	103 US deaths/death rate 0.05 per 100K, WI death rate 0.11	--	5
1979 --	tuberculosis;	2,007 US deaths/death rate 0.89 per 100K; WI death rate 0.60	--	28
1980 --	tuberculosis;	1,978 US deaths/death rate 0.87 per 100K; WI death rate 0.62	--	29
1981 --	tuberculosis;	1,937 US deaths/death rate 0.84 per 100K; WI death rate 0.55	--	26
1982 --	tuberculosis;	1,807 US deaths/death rate 0.78 per 100K, WI death rate 0.40	--	19
1982 --	Jan 07-16, winter weather, especially extreme cold,	WI	--	9
1983 --	tuberculosis;	1,779 US deaths/death rate 0.76 per 100K; WI death rate 0.42	--	20
1983 --	summer heat;	596 US deaths; Calumet, Iowa, Jefferson, Washington Counties	--	5
1984 --	tuberculosis;	1,729 US deaths/death rate 0.73 per 100K; WI death rate 0.38	--	18
1984 --	June 07, tornado,	Iowa and Dane Counties	--	9
1985 --	tuberculosis;	1,752 US TB deaths/death rate 0.74 per 100K; WI death rate 0.57	--	27
1986 --	tuberculosis;	1,782 US TB deaths/death rate 0.74 per 100K; WI death rate 0.36	--	17
1987 --	HIV AIDS;	13,468 deaths/US death rate 5.55 per 100K; WI death rate 1.21	--	58
1987 --	tuberculosis;	1,755 US TB deaths/death rate 0.72 per 100K, WI death rate 0.61	--	29
1987 --	Nov 16, Danpar Aviation Beech 200	unexplained Mayday crash, Jefferson, WI	--	all 8
1988 --	HIV AIDS;	16,602 deaths/US death rate 6.8 per 100K population; WI rate 1.22	--	59
1988 --	tuberculosis;	1,921 US TB deaths, death rate 0.78 per 100K; WI death rate 0.35	--	17
1989 --	HIV AIDS;	22,082 US deaths, death rate 8.9 per 100K population; WI rate 2.0	--	97
1989 --	tuberculosis;	1,970 US TB deaths, death rate 0.80 per 100K; WI, 0.62	--	30
1990 --	tuberculosis;	1,810 US TB deaths, death rate 0.73 per 100K; WI, 0.25	--	12
1990 --	Aug 18, Wisconsin Aviation Piper takeoff crash,	heavy rain, ½M S of Watertown AP--	7	
1990 --	Aug 27, Omniflight Helicopters takeoff crash	into rising terrain in fog. Elkhorn, WI--	5	
1991 --	tuberculosis;	1,713 US TB deaths, death rate 0.68 per 100K, WI, 0.36	--	18
1991 --	Feb 3, Cessna 182 parachuters plane collides with private plane,	Osceola, WI	--	7
1992 --	tuberculosis;	1,705 US TB deaths, death rate 0.66 per 100K; WI, 0.42	--	21
1993 --	tuberculosis;	1,631 US TB deaths, death rate 0.63 per 100K; WI, 0.24	--	12
1993 --	Dec 10, WI ANG KC-135 explosion/fire,	under repair on ground, Gen. Mitchell AP, WI--	6	
1994 --	tuberculosis;	1,478 US TB deaths; death rate 0.56 per 100K, WI, 0.27	--	14
1994 --	Jan 14-21, extreme winter cold and snow,	WI	--	6
1995 --	tuberculosis;	1,336 US TB deaths; death rate 0.5 per 100K; WI, 0.19	--	10
1996 --	tuberculosis;	1,202 US TB deaths; death rate 0.45 per 100K; WI, 0.29	--	15
1997 --	tuberculosis;	1,166 US TB deaths; death rate 0.43 per 100K, WI, 0.21	--	11
1998 --	tuberculosis;	1,112 US TB deaths; death rate 0.40 per 100K; WI, 0.28	--	15
2002 --	Mar 26, retirement home bus	crashes into van, Dodge County, WI	--	8
2002 --	summer, excessive heat,	WI subset of ~400 heat-related fatalities nationwide	--	8



2003 -- summer, <b>excessive natural heat</b> , WI subset of 308 heat fatalities nationwide	--	9
2005 -- <b>tuberculosis</b> , 648 US TB deaths; death rate 0.22 per 100K; WI, 0.20	--	11
2009 -- <b>influenza (avian)</b> , ICD-10 code J09 (US death rate 0.5 per 100K); WI, 0.5	--	29
2009 -- <b>tuberculosis</b> , 529 US TB deaths; death rate 0.2 per 100K; WI, 0.2	--	10
2010 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; WI, 1.0	--	56
2010 -- summer, <b>excessive heat</b> , WI subset of 284-285 heat fatalities nationwide	--	9
2011 -- <b>influenza</b> , ICD-10 codes J09-J11; US death rate 0.5 per 100,000; WI, 0.5	--	30
2011 -- <b>viral hepatitis</b> , ICD-10 code B15-19; US death rate 2.5 per 100K; WI, 1.2	--	66
2012 -- <b>viral hepatitis</b> , ICD-10 code B-15-B19, US death rate 2.6 per 100,000; WI, 0.8	--	46
2012 -- Aug 05, Sikh Temple of Wisconsin rampage <b>mass shooting</b> , Oak Creek, WI	--	7
2013 -- <b>viral hepatitis</b> , ICD-10 code B-15-B19; US death rate 2.6 per 100,000; WI, 1.1	--	66
2014 -- <b>diarrhoea/gastroenteritis</b> of infectious origin, US and WI death rate 0.8 per 100K	--	47
2014 -- <b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.5 per 100,000; WI, 1.3	--	74
2015 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.3 per 100,000; WI, 1.2	--	69
2016 -- <b>diarrhoea/gastroenteritis</b> of infectious origin, US death rate 0.7 per 100K; WI, 0.6	--	37
2016 -- <b>HIV AIDS</b> , 6,160 US deaths/death rate 1.9 per 100,000; WI rate 0.5	--	30
2016 -- <b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100K; WI, 0.9	--	54
2017 -- <b>HIV/AIDS</b> ; 5,698 US deaths/death rate 1.75 per 100K; WI rate 0.41	--	24
2017 -- Dec 26-Jan 06, 2018, <b>bitter cold</b> (hypothermia and exposure), WI	--	9
2018 -- <b>HIV/AIDS</b> ; 5,425 US deaths/death rate 1.66 per 100K; WI death rate 0.52	--	30
2019 -- <b>HIV/AIDS</b> ; 5,054 US deaths/death rate of 1.54 per 100,000 pop.; WI rate 0.41	--	24
2020 -- <b>excessive heat</b> , natural sources; 1,184 US deaths; subset for WI	--	7
2020 -- <b>HIV</b> ; ICD 10 B20-24; 5,155 US deaths/US death rate 1.55; WI 0.51	--	30
2020 -- <b>tuberculosis</b> , ICD-10 codes A16-A19; 600 US deaths/death rate 0.18; WI subset	--	12
2021 -- <b>HIV/AIDS</b> ; 4,977 deaths/death rate 1.50 per 100K; WI death rate 0.42	--	25
2023 -- <b>COVID-19</b> , subset of 71,691 US deaths	--	951

#### Breakout by Type of **Wisconsin** Large-Loss-of-Life Events (10 or more fatalities):

134 -- <b>Disease</b> , especially communicable, especially epidemics. (Plus 158 in "Other.")
63 -- <b>Winter Weather, Cold, Hypothermia</b> . (Plus 8 years 5-9 deaths per event.)
25 -- <b>Heat</b> . (7 years 5-9 deaths.)
21 -- <b>Maritime/Inland watercraft</b> .
11 -- <b>Tornadoes</b> . (Plus 1 with 9 deaths on June 7, 1984.)
8 -- <b>Fire, Structural</b> . (Plus 4 fires with 6-8 deaths.)
6 -- <b>Rail</b> . Additionally, 7 workmen died in 1892 Milwaukee two-train collision.
3 -- <b>Fire, Forest/Wildfire</b> .
3 -- <b>Violence</b> . (Plus 2 with 7 fatalities each.)
2 -- <b>Aviation</b> . Plus 11 noted with 5-9 deaths.
2 -- <b>Drownings (non-maritime/in-land watercraft and non-flood)</b>
2 -- <b>Explosions</b> (Plus 4, 6-9 deaths – 1920 & 1926 with 6 deaths and two in 1937 with 9 each.)
2 -- <b>Fog as a Contributing Factor</b>
2 -- <b>Vehicular – Road/Highway</b> . (One cross-listed with Rail; plus 2 with 8 and 9 deaths.)
1 -- <b>Flooding</b> . (A washout cross-listed in Rail category.)
1 -- <b>Structural Failure</b>
0 -- <b>Lightning</b> . (Though 8 died in 1893 with a Ringling Brothers Circus tent strike.)

## WY

## Wyoming

1. 1852 -- **cholera**, especially Fort Laramie and area, and Oregon Trail -- ~93
2. 1881 -- March 4, Almy Coal **Mine** explosion, Almy, WY -- 38
3. 1885 -- Sep 2-3, racial/Union **violence**, Chinese **strikebreakers**, Rock Springs, WY -- 28
4. 1886 -- Jan 12, Almy No. 4 Coal **Mine** explosion, Almy, WY -- 13
5. 1895 -- Mar 20, Red Canyon Coal **Mine** explosion, Red Canyon, ~Evanston, WY -- 60
6. 1901 -- Feb 25, Diamondville No. 1 coal **mine** fire, Diamondville, WY -- 26
7. 1901 -- Oct 26, Diamondville Coal **Mine** explosion, Diamondville, WY -- 22
8. 1903 -- June 30, Hanna No. 1 coal **mine** explosion, Hanna, WY -- 169
9. 1905 -- Dec 02, Diamondville #1 coal **mine** explosion, Diamondville, WY -- 18
10. 1905 -- Dec 7, **trains collide**, Union Pacific freight/Overland Ltd., ~Rock Springs WY-- 10
11. 1906 -- Mar 26, **flooding**, **bridge fails under train**, near Natrona, WY -- 10
12. 1908 -- Mar 28, Hanna No. 1 coal **mine** explosion, Hanna, WY -- 59
13. 1911 -- Oct 28, **train wreck**, Union Pacific Railroad, near Cheyenne, WY -- 20
14. 1918 -- Sep-Apr, 1919 -- **influenza and pneumonia** epidemic, WY --1,175
  - 1918 -- Sep-Dec, **influenza and pneumonia** epidemic, WY -- 813
  - 1919 -- Jan-Apr, **influenza and pneumonia** epidemic, WY -- 362
15. 1923 -- Aug 14, explosion, Frontier **Mine**, Kemmerer, WY -- 99
16. 1923 -- Sep 27, **flooding**, **bridge washout** and **train derailment**, near Lockett, WY -- 31
17. 1924 -- Sep 16, Sublet No. 5 coal **mine** explosion,, Sublet, WY -- 39
18. 1927 -- Apr 06, **explosion**, oil refinery, Parco, WY -- 17
19. 1931 -- **whooping cough**, 4,619 US deaths/death rate 3.9 per 100K; WY, 5.7 -- 13
20. 1935 -- Oct 07, **United Airlines airport approach crash**, Cheyenne, WY -- 12
21. 1937 -- Aug 21, **Blackwater Wildfire** (lightning) firefighters, Shoshone Nat. Forest, WY- 15
22. 1943 -- Feb 25, **U.S. Army Air Force B-17 plane crash**, near Glenrock, WY -- 10
23. 1943 -- June 28/29, **USAAF B-17 plane crash**, Big Horn Mts., Cloud Peak, WY -- 10
24. 1943 -- Aug 14, **USAAF B-24E plane crash**, Shoshone Nat. Forest, near Dubois, WY-- 11
25. 1944 -- Nov 13, **USAAF C-47 plane crash** near Army Air Base, Casper, WY -- 11
26. 1946 -- Jan 31, **United Air Lines #14** deviates from course, **flies into Elk Mt.**, WY --all 21
27. 1946 -- Oct 17, **National Air Transport Service landing crash** in adverse weather, Laramie, WY--13
28. 1949 -- Jan 2-5, **blizzard and extreme cold**, especially Southeast WY -- 12
29. 1950 -- Nov 21, **New Tribe Mission DC-3 plane crash**, Mount Moran, WY --all 21
30. 1951 -- **polio**, especially July-Nov (WY subset of 1,551-1,555 U.S. polio deaths) -- 30
31. 1951 -- Nov 12, **snowstorm**, high-speed passenger **train** runs into slow train ~Evanston, WY--17
32. 1955 -- Oct 06, **United Air Lines Flight 409 flies into Medicine Bow Peak**, WY --all 66
33. 1962 -- **influenza**; 3,431 US deaths/death rate 1.8 per 100K; WY death rate 2.7 -- 10
34. 1968 -- **influenza**; ICD-8 codes 470-474; 7062 US deaths/death rate 3.5 per 100K; WY 6.5--32
35. 1969 -- **influenza**; ICD-8 codes 470-474; 5,971 deaths/death rate 2.96 per 100K; WY 4.87-- 16
36. 1973 -- **influenza**; ICD-8 codes 470-474; 5,131 US deaths/death rate 2.43; WY 7.36 -- 26
37. 1976 -- **influenza**; ICD-8 codes 470-474; 7,877 US deaths, death rate 3.6 per 100K; WY 8.1-- 32
38. 1984 -- exposure to excessive natural **cold/hypothermia**; 359 US deaths; WY<sup>918</sup> -- 11
39. 1985 -- **influenza**, 2,054 US flu deaths, death rate 0.86 per 100K, WY, 2.20 -- 11
40. 1985 -- Aug 01, supercell thunderstorm and **flash flooding**, Cheyenne, WY -- 12
41. 1998 -- **influenza**, ICD-9 code 487.0; US death rate 0.62 per 100K; WY, 2.24 -- 11

<sup>918</sup> At 2.18 hypothermia deaths per 100,000 population, WY led the nation in 1984 in such deaths (US avg., 0.15).

42. 1999 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; WY, 2.033 --	10
43. 2003 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.618 per 100K; WY, 1.986 --	10
44. 2009 --	<b>H1N1 Swine Flu</b> , especially fall/winter; subset of >12,000 US deaths WY --	10
45. 2010 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.4 per 100K; WY, 2.5 --	14
46. 2013 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.2 per 100K; WY rate 2.9 --	17
47. 2014 --	<b>viral hepatitis</b> , ICD-10 code B15-19, US death rate 2.5 per 100K; WY, 2.6 --	15
48. 2014 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.4 per 100K; WY had 1.7 --	10
49. 2015 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 1.6 per 100K; WY had 3.1 --	18
50. 2016 --	<b>influenza</b> , ICD-10 codes J09-11.8; US death rate 0.9 per 100K; WY had 1.7 --	10
51. 2019 --	exposure to excessive natural <b>cold/hypothermia</b> ; subset of 1,115 US deaths --	12
52. 2020 --	<b>COVID-19</b> ; 354,215 US Covid deaths (1,070 per 1M); WY, 757 per 1M pop. --	438
53. 2021 --	<b>COVID-19</b> , 437,984 US deaths/2.6K deaths per 1M pop.; WY, 2.6K per M --	1,088
54. 2022 --	<b>COVID-19</b> ; 217,370 US deaths/death rate 6.50; WY death rate 7.32 --	424

### Some Select/Notable Other **Wyoming** Large Loss-of-Life Events:<sup>919</sup>

1801-02 --	<b>smallpox</b> , Native Americans, especially Arapaho, Crow and Wyoming <sup>920</sup> --	?
1879 --	June-May 1880, <b>diphtheria</b> , esp. Sep-Jan, esp. children (WY set, 38,143 US deaths)--	18
1879 --	June-May 1880, <b>scarlet fever</b> , esp. children (WY subset, 16,388 U.S. S.F. deaths)--	37
1889-90,	June-May, <b>diphtheria</b> ; subset of 27,815 U.S. diphtheria deaths; WY --	27
1889-90,	June-May, <b>typhoid fever</b> , State subset of 27,058 US typhoid deaths --	27
1900 --	<b>croup</b> (upper airway contagious viral infection; WY subset, 12,484 US croup deaths--	13
1900 --	<b>diphtheria</b> (WY subset of 16,475 US diphtheria deaths in 1900) --	23
1900 --	<b>influenza</b> (WY subset, 16,645 US influenza deaths) --	20
1900 --	<b>measles</b> (WY subset of 12,866 US measles deaths) --	20
1900 --	<b>meningitis</b> (WY subset, 19,423 US meningitis deaths) --	11
1900 --	<b>scarlet fever</b> (WY subset, 6,333 US scarlet fever deaths) --	10
1900 --	<b>tuberculosis</b> (767 WY deaths all causes) (109,750 US TB deaths) --	51
1918 --	<b>typhoid fever</b> (WY subset of 9,100 U.S. typhoid fever deaths) --	18
1919 --	<b>diphtheria</b> (WY subset, 9,160 US diphtheria deaths) --	15
1925 --	<b>diphtheria</b> (WY subset, 8,058 US diphtheria deaths) --	12
1925 --	<b>influenza</b> (WY subset, 30,538 US influenza deaths) --	72
1925 --	<b>scarlet fever</b> (WY subset of 2,762 US scarlet fever deaths, 48 states) --	12
1925 --	<b>tuberculosis</b> (WY subset, 89,268 US tuberculosis deaths) --	71
1925 --	<b>typhoid/paratyphoid fever</b> ; 8,287 US typhoid fever deaths; subset for WY --	21
1935 --	May 30, downbursts and <b>flooding</b> , WY --	5
1940 --	<b>polio</b> , especially children (WY subset of 1,026 polio deaths nationwide) --	10
1940 --	<b>syphilis</b> , US death rate 14.4 per 100,000 pop. (19K US); WY death rage 14.3 --	37
1945 --	Jan 1, <b>USAAF B-24 flew into terrain</b> , navigational training flight, 20M S Casper WY--	6
1949 --	<b>polio</b> , July-Nov especially; subset of 2,720 US polio deaths --	10
1950 --	<b>polio</b> , July-Nov especially; subset of 1,904 US polio deaths --	7

<sup>919</sup> We include in “Other” two categories: (1) events wherein fewer than 10 lives were lost, but which we take note, and (2) diseases that caused more than ten lives lost, but perhaps not at an epidemic level (subjective judgement) and generally below US or “Registration Area” average death rate when we have those statistics.

<sup>920</sup> While there are several sources on this native pandemic (very large area), we have seen no estimates of mortality. In that death rates could easily reach 30%-50% of a population, or more, the deaths were probably in the hundreds.

**Wyoming (continued):**

1951 --	<b>tuberculosis</b> , 31,163 US deaths, subset for WY, lowest in the US	--	27
1952 --	<b>influenza</b> ; 5,649 US deaths; subset for WY	--	13
1952 --	<b>polio</b> ; ~3,300 US polio deaths, subset for WY	--	17
1952 --	<b>tuberculosis</b> (respiratory): 22,700 US deaths; subset for WY	--	17
1953 --	<b>influenza</b> ; 9,500 US deaths; WY subset	--	25
1953 --	<b>tuberculosis</b> (respiratory); 17,954 US deaths; WY subset	--	12
1954 --	<b>polio</b> , acute; 1,400 US deaths; WY subset	--	10
1954 --	<b>tuberculosis</b> (respiratory); 15,146 US deaths; WY subset	--	14
1954 --	Feb 26, <b>Western Air Lines</b> flight 34 turbulent weather <b>crash</b> near Wright, WY	--	all 9
1955 --	Sep 24, <b>USAF SC-47 plane crash</b> and fire in snow storm near Burns, WY	--	all 7
1956 --	<b>tuberculosis</b> (respiratory), 12,978 US deaths/death rate 8.4 per 100K; WY subset	--	11
1957 --	<b>influenza</b> ; 7,463 US deaths; WY subset	--	18
1957 --	fall-spring 1958, H2N2 Asian <b>influenza/pneumonia</b> pandemic (US 116K)	--	97
1959 --	<b>tuberculosis</b> ; 11,456 US TB deaths; WY subset	--	10
1960 --	<b>influenza</b> ; 7,872 US deaths/death rate 4.4 per 100K; WY death rate 4.2	--	14
1960 --	<b>tuberculosis</b> ; 10,866 deaths/death rate 6.1 per 100K; WY death rate 3.6	--	12
1961 --	<b>influenza</b> , 2,137 US deaths/death rate 1.2 per 100K; WY death rate 2.1	--	7
1964 --	<b>influenza</b> ; 1,687 US deaths/death rate 0.9; WY death rate 2.3	--	8
1964 --	May 23-24, boat capsizes, Fontenelle Reservoir, Lincoln County, SW WY	--	all 6
1971 --	<b>influenza</b> , ICD-8 codes 470-474/death rate 0.73 per 100K; 1,504 US deaths; WY 1.47--	5	
1972 --	<b>influenza</b> , ICD-8 codes 470-74; 4986 US deaths/death rate 2.38 per 100K; WY 2.31	--	8
1973 --	<b>excessive natural cold</b> ; ICD-8 code E901; 381 US deaths; WY subset	--	7
1974 --	<b>influenza</b> , ICD-8 codes 470-474; 2201 US deaths/death rate 1.0 per 100K; WY/2.2	--	8
1974 --	<b>tuberculosis</b> ; 3,513 US deaths/death rate 1.65 per 100K; WY death rate 1.92	--	7
1975 --	<b>influenza</b> , ICD-8 codes 470-474; 4,277 deaths/death rate 1.99 per 100K; WY rate 2.1--	8	
1977 --	<b>influenza</b> ; 1,305 US flu deaths/death rate 0.59 per 100K; WY death rate 1.21	--	5
1978 --	exposure to excessive natural <b>cold/hypothermia</b> ; 652 US deaths; WY <sup>921</sup>	--	8
1978 --	<b>influenza</b> , 4,052 US flu deaths/death rate 1.82 per 100K; WY death rate 2.08	--	9
1986 --	Aug 28, <b>Denver Air Center Cessna Conquest takeoff crash</b> , Lander, WY	--	all 7
1996 --	Aug 17, <b>USAF C-130 crash, Presidential support mission</b> , ~Jackson Hole, WY	--	9
2011 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.5 per 100,000; WY, 1.8	--	10
2012 --	<b>viral hepatitis</b> , ICD-10 code B15-B19, US death rate 2.6 per 100,000; WY, 2.4	--	14
2013 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.6 per 100,000; WY, 1.7	--	10
2016 --	<b>viral hepatitis</b> , ICD-10 code B15-B19; US death rate 2.0 per 100,000; WY, 1.7	--	10
2017 --	<b>influenza</b> ; 6,515 US deaths/death rate 2.0 per 100K pop.; WY subset	--	12
2018 --	<b>influenza</b> , ICD codes J09-11.8/death rate 3.41 per 100K pop., WY subset	--	19
2023 --	<b>COVID-19</b> , subset of 71,691 US deaths	--	132

**Breakout of Wyoming Large Loss-of-Life Events by Type:**

- 22 -- **Disease**, select communicable, especially epidemics. (Plus 53 in "Other.")  
 11 -- **Mining**. (Cross-listing in Violence -- conflict involving mine strike-breakers.)  
 9 -- **Aviation** (Plus 5 noted with 6-9 deaths each - 2 with 9 deaths, one with 6 and two with 7.)

<sup>921</sup> At 1.85 hypothermia deaths per 100,000 population, WY had highest death rate in the US (average was 0.29).



**Wyoming (continued):**

- 5 -- **Rail.**
- 3 -- **Flooding/Flash Flooding.** (Plus 5 deaths in May 1935 flooding.)
- 3 -- **Winter Weather, Cold, Hypothermia.** (7 excessive cold deaths in 1973.)
- 2 -- **Structural Failure.** (Cross-listed in Rail --both flood caused washouts of train bridges.)
- 1 -- **Explosion.**
- 1 -- **Violence.** (Cross-listing in Mining -- conflict involving mine strike-breakers.)
- 1 -- **Wildfire.**
- 0 -- **Maritime/inland water.** A boat capsized in high wind May 1964, **six** lives lost.

## United States Possessions, Territories, Trusteeships (at the time):

### American Samoa (Insular Territory):

1. 1974 -- Jan 30, Pan Am 806 landing crash and fire, Pago-Pago, American Samoa -- 97
2. 2009 -- Sep 29, Tsunami, magnitude 8.0 earthquake 120M offshore, American Samoa<sup>922</sup>--34

Other:

- 2003 -- May 24, landslide, heavy rain, American Samoa -- 6

### Guam (Came under US control from Spain in 1918, and a US Territory.)

1. 1918 -- Oct 06, US steamer **Dumar** hit by lightning, burns, 22M west of Guam -- 19
2. 1945 -- Apr 16, **USAAF B-29** ferry flight too-low approach hits water, Pango Bay, Guam-- 12
3. 1945 -- Nov 02, **USAAF B-29 Superfortress** crash, North Field, Guam -- 10
4. 1949 -- Sep 23, **USAF B-29** takeoff crash (engine failure), Andersen AFB (US), Guam-- 11
5. 1953 -- Dec 17, **USAF B-29** crash into Officer's Housing, Anderson AFB, Guam -- 19
6. 1958 -- Jan 15 **Anderson AFB, Guam USAF Weather WB50 lost**, Typhoon Ophelia -- 10
7. 1958 -- Sep 02, **USAF Globemaster fire & crash**, 35m west, Agana Naval AS, Guam -- 19
8. 1960 -- Sep 19, **World Air MAT plane crash**, Agana Naval Air Station, Guam -- 80
9. 1997 -- Aug 06, **Korean Air 801 approach crash** to Antonio B. Won IAP, Guam --229/US 13
10. 2020 -- **COVID-19**; 354,215 US Covid deaths (1,070 per 1M population), Guam -- 122
11. 2021 -- **COVID-19**, 437,984 US deaths/2.6K deaths per 1M population, Guam -- 148
12. 2022 -- **COVID-19** -- 141
13. 2023 -- **COVID-19**, subset of 71,691 US deaths -- ~10

### Marshall Islands (US Trust from 1944 to 1983.)

1. 1945 -- June 06, **USAAF B-29** ferry to US crash after takeoff from Kwajalein Atoll -- 10
2. 1946 -- Jan 13, **USAAF C-46** initial climb crash into sea, off Majuro, Marshall Islands-- 12
3. 1947 -- Apr 19, **USAF B-29 fire/explosion/crash** off Kwajalein Island, Marshall Islands-- 16
4. 1950 -- Sep 19, **USN transport takeoff crash** 1.6M off Kwajalein NAS, Marshall Islands-- 26

### Okinawa (Trusteeship Rule, U. S. Military Government of the Ryukyu Islands, 1945-1965)

1. 1945 -- Aug 28, **USAAF B-32** takeoff power loss, crash, runway-end pit, Yontan, Okinawa--13
2. 1952 -- Feb 1 **USAF B29** hits 2<sup>nd</sup> B29/no deaths 2<sup>nd</sup> plane, 5M off Bolo Point, Okinawa --all 12
3. 1955 -- Apr 28, **USAF B29 Superfortress** flies into cloud-shrouded hill ~Naha AFB, Okinawa--10
4. 1955 -- Sep 8, **USAF B29 Superfortress** crash, ocean so. of Ishigaki Island, Okinawa, Japan--13
5. 1958 -- Mar 07, **USMC Transport & Skyraider collide** off Naha NAF, Okinawa -- 26
6. 1959 -- June 30, **U.S. Air Force F-100 Jet** crashes into school, Ishikawa, Okinawa<sup>923</sup> -- 18
7. 1960 -- Sep 22, **USMC Douglas R5D-3 plane crash** 180 miles off Naha, Okinawa -- 29

### Panama Canal Zone (US: 1903-1979)

1. 1942 -- Aug 19, USN plane hits tugboat, Coco Solo Navy Base, Panama Ca. Zone --12-14
2. 1942 -- Aug 17, submarine **USS Bass** fire, asphyxiations, Pacific off Panama<sup>924</sup> --26 of 80

<sup>922</sup> 32 confirmed, 2 missing.

<sup>923</sup> All deaths were of Okinawans in this at-the-time U.S. controlled territory. Pilot had bailed out of jet.

<sup>924</sup> Based at Coco Solo, Panama at the time and conducting patrols off Balboa, Panama, in Pacific.

3. 1946 -- June 09, **USAAF C-54** hits terrain 500ft below approach altitude, Taboga Isl., Panama--23

### Puerto Rico: (29)

1. 1898 -- typhoid fever; 109 US troops in Puerto Rico camps and 416 civilians -- 525
2. 1899 -- Aug 08-19, **hurricane**, Puerto Rico, NC, SC --3,433
3. 1918 -- Oct 11, **earthquake**, Northwestern Mona Passage, Puerto Rico -- 116
4. 1919 -- Jan-Apr, **influenza** epidemic --1,873
5. 1928 -- Sep 13, **San Felipe Segundo Hurricane**, Puerto Rico<sup>925</sup> -- 312
6. 1932 -- Sep 26-27, **San Ciprian Hurricane**, Puerto Rico -- 257
7. 1937 -- Mar 21, **Ponce massacre, police fire on marchers**, Ponce, Puerto Rico -- 19
8. 1942 -- Oct 01, **USAAF C-39 transport plane crashes** near Caomo, Puerto Rico -- 22
9. 1948 -- Dec 28, **Airborne Transport (charter) crash**, San Juan PR to Miami, FL -- 32
10. 1949 -- June 07, **Strato-Freight** from San Juan PR to Miami **crashes after takeoff**<sup>926</sup> -- 53
11. 1950 -- Oct 29-Nov 6,<sup>927</sup> **Independence uprisings** multiple locations, Puerto Rico -- ~33
12. 1952 -- Apr 11, **Pan Am Air 526**, takeoff engine failure, crash, off San Juan, Puerto Rico-- 52
13. 1960 -- Sep 06, **Hurricane Donna**, PR -- 107
14. 1969 -- Mar 05, PR Int. Airlines **approach crash**, Sierra de Luquillo Mts., San Juan, PR--all 19
15. 1970 -- Oct 05-10, **tropical storm**, flooding, Puerto Rico --50-52
16. 1975 -- Sep 16, **Tropical Storm Eloise**, Flooding and Mudslides, Puerto Rico<sup>928</sup> -- 44
17. 1985 -- Oct 7, **tropical storm, landslide**, Mameyes neighborhood, Ponce, Puerto Rico--~130
18. 1986 -- Dec 31, **arson fire, Dupont Plaza Hotel and Casino**, San Juan, Puerto Rico<sup>929</sup>-- 97
19. 1989 -- Apr 19, **turret explosion**, *USS Iowa* No. 2, Near Puerto Rico -- 47
20. 1989 -- Sep 18, **Hurricane Hugo**, PR -- 9-24
21. 1996 -- Nov 21, **propane gas explosion**, commercial building, San Juan, Puerto Rico -- 33
22. 1996 -- Sep 09, **Hurricane Hortense**, rain, flash floods, mudslides, Puerto Rico --21-24
23. 1998 -- Sep 21, **Hurricane Georges**, Puerto Rico -- 12
24. 2002 -- Aug 07, USAF Combat Talon II **plane crash**, Caguas, Puerto Rico -- 10
25. 2017 -- Sep 20, **Hurricane Maria**, Puerto Rico --2,980
26. 2020 -- **COVID-19**; 354,215 US Covid deaths (1,070 per 1M); PR, 444 per 1M pop. --1,503
27. 2021 -- **COVID-19**, 437,984 US deaths/2.6K deaths per 1M pop.; PR, .976k per M --1,802
28. 2022 -- **COVID-19**; 217,370 US deaths/death rate 6.50; PR death rate 6.62 --2,242
29. 2023 -- **COVID-19**, subset of 71,691 US deaths --1,154

### Other:

- 1918 -- **typhoid fever** (Puerto Rico subset of 9,100 U.S. Typhoid Fever deaths in 1918) -- 157
- 1919 -- **diphtheria** (PR subset, 9,160 US diphtheria deaths) -- 57
- 1946 -- Apr 04, **US military training bomb** hits observation tower, Culebra Island, PR -- 9
- 1968 -- Dec 14, USAF C119 Roosevelt Roads NAS takeoff **plane crash** ~San Juan, PR -- all 8
- 1979 -- Aug 30-31, **Hurricane David** -- 7
- 2018 -- May 2, Puerto Rico Air National Guard C-130 **plane crash** near Savannah, GA<sup>930</sup>-- 9

<sup>925</sup> Same hurricane hit FL three days later. In that the "Great Okeechobee Hurricane and Flood" receive more attention -- due to very large loss of life -- and overshadows PR loss of life, we treat the hurricane separately here.

<sup>926</sup> Listed under Puerto Rico, even though the plane probably went down off Florida, in that the passengers were Puerto Ricans on the way back to New York from a Christmas trip to Puerto Rico.

<sup>927</sup> Most of the fighting was over by Nov 1, but did not conclude entirely until Nov 6.

<sup>928</sup> An additional 19 people are still noted as missing or unaccounted for.

<sup>929</sup> Cross-listed in Fire-Structural and in Violence subsection of Mass Murder.

**United States Virgin Islands:**

1. 1970 -- May 2, Overseas National Airways 980 ditched, out of fuel ~St. Croix, Virgin Isl.--23
2. 1976 -- Apr 27, American Air Flight 625 plane crash, St. Thomas, Virgin Islands -- 37
3. 1989 -- Sep 18-19, Hurricane Hugo -- 10
4. 2020 -- COVID-19; 354,215 US Covid deaths (1,070 per 1M population). USVI -- 23
5. 2021 -- COVID-19, 437,984 US deaths/2.6K deaths per 1M pop.

**Wake Island**

1. 1968 -- Sep 24, USAF Stratotanker engine problem, crash landing at Wake Island AP-- 11

**Other:**

- 1995 -- Sep 15, Hurricane Marilyn, St. Croix (2), St. John (1), St. Thomas (5) -- 8

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<sup>930</sup> Cross-listed in GA.



**Losses At Sea, Lakes, Rivers, Bays (incomplete—ceased to make additions):**

1907 -- Nov 24, last contact with ship <i>Bangalore</i> , lost, Norfolk VA to Honolulu	--	21
1908 -- Aug 27, last report from ship <i>Fort George</i> , lost NY, NY to Honolulu, HI	--	20

**Atlantic Ocean (Chronological):**

1800 -- Feb 01, U.S. frigate <i>Constellation</i> engagement with French <i>La Vengeance</i>	--	160
1800 -- Sep 20 (after), USS <i>Insurgent</i> disappears after leaving Hampton Roads, VA	--	340
1815 -- Aug 08, last sighting of sloop-of-war USS <i>Epervier</i> , lost at sea, Atlantic Ocean	--	134
1820 -- Jan 11, last sighting of schooner USS <i>Lynx</i> , lost, St. Mary's, GA to Jamaica	--	50
1831 -- July-Aug, schooner USS <i>Sylph</i> lost at sea after leaving Pensacola, FL	--	13
1853 -- Dec 24-Jan 2, gale, troopship <i>San Francisco</i> deck swept away off Carolinas	--209-300	
1854 -- Sep 27, US Mail steamer <i>Arctic</i> hit by <i>Vesta</i> , fog, Cape Race, Newfoundland	--315-350	
1856 -- Jan 23, American steamer <i>Pacific</i> leaves Liverpool, sinks, Irish Sea ~Wales <sup>931</sup>	--	186
1865 -- Oct 24~, steamer <i>D.H. Mount</i> lost, Atlantic, Cape Hatteras NC to Jacksonville FL	--	24
1867 -- Jan-Feb, Amer. bark <i>John Bright</i> strands near Nootka Isl., BC, crew murdered	--	14
1880 -- Jan, barkentine <i>Ray R. Sharp</i> , Philadelphia, PA for Lisbon, Portugal, lost at sea	--	13
1880 -- Aug, bark <i>Emma C. Litchfield</i> , St. Mary's, GA to Buenos Aires, lost at sea	--	10
1880 -- Aug 28, bark <i>Miriam</i> , Pensacola, FL to Rio de Janeiro, lost at sea	--	13
1880 -- Aug 29, bark <i>Alfred</i> , Pascagoula, MS for Trinidad Island, Spain, lost at sea	--	13
1885 -- Aug, schooner <i>Washington</i> , Apalachicola, FL to NYC, lost at sea	--	10
1885 -- Oct, bark <i>Bertha</i> , Sand Key, Turk's Island for Boston, lost at sea	--	13
1886 -- Jan 08-10, gale, coast of New Jersey and New England maritime losses	--	23
1889 -- Sep 09-12, hurricane/severe storms mid-Atlantic coast, esp. DE/VA/MD/PA/NJ/NY	--40-50	
1889 -- Nov 20, steamer <i>Manhattan</i> sinks, collision, Sch. <i>Agnes Manning</i> , off DE	--10-12	
1904 -- Sep 14-15, hurricane, two barges towed by tug <i>Merrill</i> break away off NJ coast, lost	--	10
1908 -- July 24, bark <i>Auburndale</i> lost from Turks Island (Carib.) to Philadelphia, PA	--	10
1909 -- Jan 25, schooner <i>William C. Tanner</i> lost at sea, Rockport, MA to Key West, FL	--	10
1909 -- Dec 24, steamer <i>Columbia</i> lost at sea, out of NYC, NY to Port au Prince, Haiti	--	11
1910 -- Oct 11-14, steamship <i>Arkadia</i> lost, from New Orleans, LA to San Juan, P.R.	--	37
1912 -- Apr 14, RMS <i>Titanic</i> hits iceberg/sinks (1,517 total fatalities <sup>932</sup> ) North Atlantic	--	119
1917 -- Mar 06, ship <i>Timandra</i> lost at sea after leaving Norfolk, VA	--	19
1917 -- Mar 16, ship <i>Vigilancia</i> (NY to Archangel) torpedoed, German sub, Atlantic <sup>933</sup>	--	15
1917 -- Mar 21, steamer <i>Healdton</i> torpedoed, German submarine, North Sea <sup>934</sup>	--	19
1917 -- Apr 01, U.S. steamer <i>Aztec</i> hit by German sub torpedo, Atlantic, off France <sup>935</sup>	--	29
1917 -- Sep 03, bark <i>Alice Knowles</i> founders 200 miles northeast of Bermuda	--	31
1918 -- Apr 05, ship <i>Avon</i> departs NY, NY, not heard from again, presumed lost	--	17

<sup>931</sup> While not on or near U.S. soil, the *Pacific* was a U.S. vessel, built in U.S., and manned with a primarily U.S. crew. Was considered a U.S. disaster at the time.

<sup>932</sup> Of the 1,517 fatalities, 119 were U.S. citizens. The *Titanic* was headed for New York. (J.R. Henderson)

<sup>933</sup> U.S. was not at war at the time. Congress declared war on April 6, 1917.

<sup>934</sup> U.S. was not at war at the time. Congress declared war on April 6, 1917.

<sup>935</sup> U.S. was not at war at the time. Congress declared war on April 6, 1917.

1918 -- Oct 04, steamer <i>San Sabo</i> strikes mine, 15 miles SW of Barnegat, NJ <sup>936</sup>	-- 30
1919 -- Mar 28~, storm, Boston tug <i>Charles W. Parker, Jr</i> , Norfolk to Boston, lost at sea	-- 17
1919 -- Sep 9~, freighter <i>Lake Conway</i> lost at sea, storm?, Atlantic/Gulf of Mexico	--31-32
1919 -- Sep 9~, steam freighter <i>Munisla</i> lost at sea, Atlantic, from Mobile to Havana <sup>937</sup>	-- 28
1919 -- Dec 26, schooner <i>Eleanor A. Percy</i> founders off coast of Ireland	-- 13

### Atlantic Ocean -- Chronological (continued):

1920 -- Jan 29, steamer <i>Samuel Faunce</i> lost, Wilmington, NC to Key West FL <sup>938</sup>	-- 13
1920 -- Feb 29, steamer <i>Cubadist</i> lost from Cuba to Baltimore MD	-- 37
1921 -- Oct 24, last communication with oil tanker <i>Santa Rita</i> , New Orleans to Italy, lost	-- 35
1928 -- Nov 13, UK <i>Vestris</i> , out of NYC with US passengers, sinks off VA Capes, VA	--~111
1941 -- Mar 24, steamer <i>Cities Service Denver</i> explosion/fire, off NC/SC coast	--19-20
1941 -- Oct 17, USS <i>Kearny</i> torpedoed by German submarine, Atlantic, off Iceland	-- 11
1941 -- Oct 31, USN destroyer <i>Reuben James</i> sunk (prior to Pearl Hbr.), U-boat, ~Iceland--	115
1941 -- Dec 02, American tanker <i>Astral</i> sunk by U-boat off Lisbon, Portugal coast	--all 37
1942 -- Jan 15, UK tanker <i>Coimbra</i> (out of Bayonne, NJ), torpedoed by U-boat 50M so. Shinnecock L.I., NY-36	
1942 -- Jan 18, US merchant steamer <i>Frances Salman</i> sunk by U-boat off Cape Race, Nfld.-all 28	
1942 -- Feb 20, US freighter <i>Lake Osweya</i> sunk by U-boat, Atlantic, off SW Nova Scotia --all 39	
1942 -- Feb 21, US freighter <i>Azalea City</i> sunk by U-boat ~125 miles SE of Ocean City, MD--	38
1942 -- Mar 05, USAAF Boeing Y1B-17 plane lost out of Langley Field, VA, off East Coast--	8
1942 -- Mar 06, US freighter <i>Steel Age</i> sunk by sub, S. Atlantic ~130m NE Paramaribo, Suriname--34	
1942 -- Mar 22, American tanker <i>Muskogee</i> sunk by U-boat, northeast of Bermuda	--all 34
1942 -- Apr 15, US freighter <i>Robin Hood</i> sunk by U-boat, Atlantic, ~300M off NJ	-- 14
1942 -- Apr 21, US passenger ship <i>San Jacinto</i> sunk by U-boat, Atlantic off NC/SC/GA coast--	14
1942 -- Apr 23, US tanker <i>Connecticut</i> sunk by German torpedo boat, south Atlantic	--36-38
1942 -- Apr 23, US freighter <i>Lammot Du Pont</i> sunk by U-boat ~500M north of Bermuda	-- 19
1942 -- May 04, US freighter <i>Eastern Sword</i> sunk by U-boat, So. Atlantic, off Georgetown, Guyana-	16
1942 -- May 18, US freighter <i>Quaker City</i> sunk by U-boat ~300 miles east of Barbados	-- 11
1942 -- June 28, freighter <i>Raphael Semmes</i> sunk by sub so. of Bermuda, ~875m E of Cape Canaveral--	19
1942 -- July 3, freighter <i>Alexander Macomb</i> sunk by U-boat ~175m east of Cape Cod, MA--	10
1942 -- Sep 24, US freighter <i>John Winthrop</i> sunk by U-boat, N. Atlantic, for NY	--all 52
1942 -- Nov 23, US tanker <i>Caddo</i> sunk by U-boat, N. Atlantic east of Halifax, Nova Scotia-51-53	
1943 -- Jan 09, US freighter <i>Birmingham City</i> sunk by U-boat, So. Atlantic 100m NE of Paramaribo-10	
1943 -- Jan 09, US tanker <i>Broad Arrow</i> sunk by U-boat, ~100M north of Paramaribo	-- 23
1943 -- Jan 09, US freighter <i>Collingsworth</i> sunk by U-boat, So. Atlantic ~100m NE of Paramaribo-12	
1943 -- Jan 20, US tanker <i>Brilliant</i> splits/sinks, Atlantic gale, east of north Newfoundland--	11
1943 -- May 04, US freighter <i>Oneida</i> springs leak/sinks, storm, ~75-100M off Norfolk, VA--	31
1943 -- Aug 19, <i>J.P. Henderson</i> and <i>Senior</i> collide/burn in fog off Nova Scotia	--126-132

<sup>936</sup> Cross-listed in Maritime.

<sup>937</sup> Cross-listed under Hurricane.

<sup>938</sup> I assume that the *Fortune*, reported as going down off GA, and *Samuel Faunce* events refer to the same event and that one of the sources is wrong.

- ≥59-63 US freighter *J. Pinckney Henderson* (>34-38 crew; 25 Navy armed guard)  
 -- 67-69 Panamanian-flag tanker *J. H. Senior* (40-41 Danish crew; 27-29 US AG)  
 1943 -- Dec 16, US freighter *Nevada* founders in gale, Atlantic ~200M so. of Greenland --31-35

### Atlantic Ocean (Chronological) continued:

- 1944 -- Feb 26, freighter *El Coston* hits US tanker *Murfreesboro*/fire, N. Atlantic -- ~60  
 --17-18 Panama-flagged freighter *El Coston* (9 crew and 8 USN Armed Guard)  
 --43-45 American tanker *Murfreesboro* (26-29 crew and 16-17 USN armed guard)  
 1944 -- Apr 16, US tanker *Pan Pennsylvania* torpedoed by U-boat ~200M east of NYC -- 25  
 1944 -- July 26, US Army AF Douglas C-54 plane crash off Greenland, Atlantic Ocean -- 26
- 1945 -- Jan 09, USAAF B-29 lost at sea (Atlantic?), Pratt AAF KS to Puerto Rico -- 16  
 1945 -- Mar 13, storm, US troopship *J.W. McAndrew* hit by French ship, Atlantic, off Azores--68-71  
 1945 -- Apr 09, US tanker *Saint Mihiel* collision/fire/abandoned, off Delmarva coast -- 37  
 1945 -- May 30, USAAF C-47B crash (18 WACs, 3 crew) off Sassandra, Ivory Coast -- 21  
 1945 -- June 17, USAAF B-24, Wales to Azores crash at sea 60M off Finisterre, Spain -- 10  
 1945 -- July 05, USAAF B-17 bound for US, engine fire/ditches 150M NW Lajes Fld., Azores--15  
 1945 -- Dec 06, five Navy bombers and a rescue craft lost in Bermuda Triangle, Atlantic -- 27
- 1948 -- May 09, US Navy PBV-6A Catalina plane lost, San Juan, PR to Key West, FL -- 12  
 1948 -- Dec 28, Airborne Transport charter crash (elec. sys.), San Juan PR-Miami, off FL -- 32  
 1949 -- Jan 19, USCG *Eastwind* and SS *Gulfstream* collide in fog ~60M SE of Barnegat Light Vessel--13
- 1950 -- June 05, Westair Transport C-46 engine loss, ditches, 300M E of Melbourne, FL -- 28  
 1951 -- Mar 22, USAF C-124A Globemaster lost after ditching, No. Atlantic, off Ireland --all 53  
 1951 -- Oct 15, USAF C-97A lost, North Atlantic, Azores to Westover AFB, MA -- 12  
 1952 -- Apr 26, US destroyer *Hobson* hits Carrier *Wasp*, night maneuvers, sinks, No. Atlantic- 176  
 1953 -- Aug 5, USAF Peacemaker engine fires/ditched, Atlantic ~420M NW Prestwick Scotland--19  
 1954 -- Oct 07, SS *Mormackite* founders in rough seas ~150M off the Virginia Capes, VA-- 37  
 1954 -- Dec 05~ M/V *Southern Districts* disappears off East Coast, Atlantic Ocean --all 23  
 1955 -- Jan 17, USN C121 Super Constellation 2 engines out, crash off Stephenville Nfld. Can.--13  
 1956 -- Mar 02, USAF C124C Globemaster II plane crash, Atlantic, Iceland to US -- 17  
 1956 -- Oct 10, USN MATS plane, 1<sup>st</sup> leg UK to Azores, lost ~250M SE Land's End, England<sup>939</sup>-- 59  
 1956 -- Nov 09, USN P5M Marlin seaplane lost north of Bermuda, possibly off MD --all 10  
 1958 -- Feb 20, USN WV2 early warning plane lost ~100M west of the Azores --all 22  
 1959 -- Feb 04, USAF Weather B-50 plane crash, out of Kindley US AFB, Bermuda -- 12
- 1960 -- July 06, USN Airship (blimp) envelope tear and crash off Barnegat City, NJ -- 18  
 1960 -- Aug 12, engineering room flash fire, minesweeper USS *Exultant* off Savannah GA-- 5  
 1961 -- Jan 15, Nor'easter, USAF Radar Tower No. 4 fails ~70m east of Barnegat, NJ -- 28  
 1961 -- Nov 09, US Navy P2V-5 Neptune plane crash at sea ≈300M off Norfolk VA --all 11  
 1962 -- Jan 12, US Navy P2V Neptune crash, Kronborg Glacier, Greenland --all 12  
 1963 -- Jan 30, US Navy ASW P-3A plane crash, Atlantic, ~250M off Atlantic City, NJ --all 14  
 1963 -- Apr 10, USS *Thresher* nuclear submarine implosion, 200 miles off Cape Cod, MA-- 129

<sup>939</sup> Cross-listed in Nebraska, the home base of 50 of the 59 fatalities.

- 1963 -- Aug 28, apparent mid-air collision, two USAF tankers, off East Coast -- 11  
 1963 -- Sep 22, USAF C-133A Cargomaster lost, Atlantic SE of Dover AFB, DE -- 10  
 1964 -- Nov 26, tanker *Stolt Dagali* cut in half (19 lost) by liner *Shalom* off Point Pleasant, NJ<sup>940</sup>-- 19  
 1965 -- July 11, USAF Constellation plane fire, crash, Atlantic ~100M off Nantucket, MA-- 16  
 1968 -- May 21, last comm., US nuclear submarine *Scorpion*, on bottom 400M W. of Azores--99

### Caribbean (Chronological):

- 1781 -- Mar 18, gale, Continental sloop *Saratoga* lost off the Bahamas, Caribbean -- ~ 86  
 1799 -- June-July, frigate USS *General Greene*, yellow fever, Cuba to Portsmouth NH<sup>941</sup> -- >20  
 1799 -- Nov-Feb 1880, ship USS *Delaware*, yellow fever, Curacao, Caribbean<sup>942</sup> -- 20  
 1822 -- May 8-July 24,<sup>943</sup> yellow fever, U.S. frigate *Macedonian*, Caribbean<sup>944</sup> -- 101  
 1824 -- Oct 28, schooner USS *Wildcat* founders, gale, Cuba to Thompson's Isl. W. Indies -- ~31  
 1829 -- Sep 29, brig USS *Hornet* disappears, gale off Tampico, Caribbean -- 145  
 1851 -- Jan 07, brig *Martha Sanger*, California to NY, wrecks on reef, Caribbean -- 27  
 1872 -- Oct 33, screw steamer *Missouri* fire off Abaco Light, Lucaya, Bahamas --50-80  
 1885 -- May, bark *Carrie E. Long* hit by lightning, sinks near Bahamas, Caribbean Sea -- 4  
 1898 -- Feb 15, Battleship USS *Maine* magazine explosion, Havana Harbor, Cuba --263-268  
 1903 -- Aug, hurricane, steamer *George W. Kelley* lost, Caribbean, for New Orleans, LA -- 19  
 1906 -- Apr 13, Battleship USS *Kearsarge* turret powder fire off Cape Cruz, Cuba -- 10  
 1916 -- Aug 29, cruiser USS *Memphis* driven to shore by giant waves, Santiago Dom. Rep.-- 41  
 1918 -- Mar 04, last sighting of collier USS *Cyclops*, off Barbados, Caribbean -- 306  
 1919 -- Jan 10, Steamer *Yuna* grounds, Monchoir Bank, Bahamas, Caribbean -- 64  
 1942 -- Feb 22, US tanker *J.N. Pew* sunk by U-boat, Caribbean, ~225M west of Aruba -- 33  
 1942 -- Mar 05, US freighter *Mariana* sunk by U-boat about 30M no. of east Turks Island--all 36  
 1942 -- Apr 26, US freighter *Alcoa Partner* sunk by U-boat, Caribbean ~80m NNE of Bonaire- 10  
 1942 -- May 27, US freighter *Jack* sunk by U-boat ~100M SW of Port Salut, Haiti --37-39  
 1942 -- May 28, US freighter *Alcoa Pilgrim* sunk by U-boat ~150M so. of Mona Passage -- 31  
 1942 -- June 01-2, US freighter *Illinois* sunk by U-boat ~400M NE of Puerto Rico --31-32  
 1942 -- June 02-3, US freighter *City of Alma* sunk by U-boat ~400m NE of San Juan, PR<sup>945</sup>-- 29  
 1942 -- June 03, US tanker *M.F. Elliott* sunk by U-boat ~150M northwest of Trinidad -- 13  
 1942 -- June 04, US freighter *Velma Lykes* sunk by U-boat ~20m off Puerto Juarez, Mex. -- 15  
 1942 -- June 05, US tanker *L.J. Drake* sunk by sub SE of Isla Saona, Dominican Republic-- 41  
 1942 -- June 08, US freighter *Sicilien* sunk by U-boat ~10m so. of Cape Beata, Domin. Rep.-- 46  
 1942 -- June 9-10, US freighter *Merrimack* sunk by U-boat ~65m SE Cozumel Island --43-44  
 1942 -- June 12, US passenger ship *Sixaola* sunk by U-boat ~50m off Bocas del Toro, Panama-29  
 1942 -- June 15-16, US freighter *Kahuku* sunk by U-boat, 70M west of Grenada --17-18  
 1942 -- June 17, US freighter *Millinocket* sunk by U-boat off La Isabela, north Cuba -- 11  
 1942 -- June 28, US freighter *Tillie Lykes* sunk by U-boat ~100m so. Santo Domingo, Dom. Rep.-33  
 1942 -- June 29, US freighter *Ruth* sunk by U-boat, Caribbean, ~320M NNE of Barbuda -- 35

<sup>940</sup> Far enough off NJ coast not to be in U.S. territorial waters. Bound from Philadelphia for Newark, NJ.

<sup>941</sup> There were at least 1,355 yellow fever deaths in 1799 – principally Charleston, SC, NYC, and Philadelphia.

<sup>942</sup> There were at least 1,355 yellow fever deaths in 1799 – principally Charleston, SC, NYC, and Philadelphia.

<sup>943</sup> The dates are from the time of the first reported case until sailing back to the Baltimore Navy Yard on July 24.

<sup>944</sup> A subset of 879-923 yellow fever deaths in 1822.

<sup>945</sup> We place in Caribbean section in that one source so categorizes. At 400 miles northeast of San Juan, we could understand how someone could think this should be placed in Atlantic Ocean section.



1942 -- July 30, US freighter <i>Cranford</i> sunk by U-boat ~250 miles E-SE of Barbados	-- 11
1942 -- Aug 17, US tanker <i>Louisiana</i> sunk by U-boat ~200M off Paramaribo, Suriname	--49-50
1942 -- Sep 16, US freighter <i>Commercial Trader</i> sunk by U-boat ~75M east of Trinidad	-- 10
1942 -- Sep 19, US freighter <i>Wichita</i> sunk by U-boat ~75 miles south of Barbados	--all 50
1942 -- Sep 24, US freighter <i>West Chetac</i> sunk by U-boat ~100m no. of Georgetown, Brit. Guiana	--31
1943 -- Nov 23, US tanker <i>Elizabeth Kellogg</i> sunk by U-boat ~150m NW of Cristobal, Panama	-- 10
1943 -- Nov 24, US freighter <i>Melville E Stone</i> sunk by U-boat ~100m NW of Cristobal CZ	--15-16
1944 -- Aug 08, Pan Am #218 <i>Hong Kong Clipper</i> plane crash off Antilla, Cuba	-- 17
1945 -- Jan 8, Pan Am 161 too-fast nose-down water landing crash, Port of Spain, Trinidad	-- 23
1945 -- June 04, USAAF B-24L Liberator crash, Caribbean Sea off Jamaica	--all 10
1945 -- July 10, USN PBM-3C plane missing, last contact off Providence Isl. Bahamas	-- 12
1947 -- Nov 07, US freighter <i>Nathaniel Hawthorne</i> sunk by U-boat ~40M NE Isla de Margarita	--38
1948 -- May 9, US Navy PBV-6A Catalina plane lost, San Juan, PR to Key West, FL	--all 12
1955 -- Sep 26, Guantanamo NAS USN P2V-3W Neptune hurricane chaser lost, Caribbean	-- 11
1965 -- June 05, USAF C119 unexplained crash, Caribbean, NE of Crooked Isl. Bahamas	-- 10
1970 -- May 2, Overseas Nat. Airways 980 ditched, out of fuel ~St. Croix, Virgin Islands	-- 23
1980 -- Sep 12, Florida Commuter Airlines plane crash (not found) off Freeport, Bahamas	-- 34
2015 -- Oct 01, U.S. cargo ship <i>El Faro</i> sinks / Hurricane Joaquin, off east Bahamas <sup>946</sup>	-- 33

#### Chesapeake Bay (chronological):

1810 -- Sep 11, USN <i>Gun Boat # 159</i> sinks in gale in Chesapeake Bay	-- 13
1820 -- Mar 06, USN Chartered Schooner <i>Quaker</i> sinks in gale, Chesapeake Bay	--41-46
1883 -- Nov 12, Gale, Chesapeake Bay, Sloop <i>Anne Gertrude</i> , and other vessels lost	-- 9-20
1889 -- Mar 16, Portland, ME Bark <i>E.L. Pettengill</i> , wrecks, Chesapeake Bay	-- 14
1978 -- Oct 20, USCG Cutter <i>Cuyahoga</i> & MV <i>Santa Cruz II</i> collide ~Smith Point, MD	-- 11

#### Georges Bank

1955 -- Jan 13~, New Bedford, MA scalloper <i>Doris Gertrude</i> lost off New England coast	-- 11
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#### Great Lakes, general (chronological):

1886 -- Nov 15-18, Great Lakes region storm, Maritime Disaster	-- 39
1893 -- Oct 13-15, <i>Dean Richmond</i> , <i>Wocoken</i> , others, lost, Great Lakes Storm <sup>947</sup>	--59-67

#### Gulf of Mexico (chronological):

1857 -- Nov 12 or 15, steamers <i>Opelousas</i> & <i>Galveston</i> collide, Gulf of Mex. off LA Coast	-- 18
1888 -- Sep 06, storm, steamer <i>E.B. Ward Jr.</i> sinks, Utitla to New Orleans, Gulf of Mexico	-- 21
1910 -- Oct 10-14, steamship <i>Arkadia</i> lost at sea, Gulf of Mexico	-- 37
1912 -- Dec 15, schooner <i>S.O. Co. No. 87</i> founders (sinks), Gulf of Mexico	-- 10
1915 -- Aug 14-15, United Fruit Co. steamer <i>Marowijne</i> sinks, Hurricane, Gulf of Mex.	--87-98
1919 -- Sep 9-10~, cargo steamer <i>Munisla</i> lost (hurricane?), Mobile, AL for Havana, Gulf	--28-30

<sup>946</sup> Twenty-eight U.S. nationals and five Polish nationals.

<sup>947</sup> Three deaths in Buffalo; building collapsed on three boys. One person swept into the Niagara River and drowned.

- 1930 -- Jan 28, *Edgar F. Coney* sinks/storm, Gulf of Mexico ~70m off Sabine Pass, TX -- 14  
 1942 -- May 6, Army Air Force B-17 plane lost, training flight, Gulf of Mexico -- 10  
 1942 -- May 16, US tanker *Gulfoil* sunk by U-boat ~75M SW of MS Riv. Delta, Gulf of MX--21  
 1942 -- May 19, US freighter *Ogontz* sunk by U-boat ~70M SE of Cozumel Isl., Gulf of MX--19  
 1942 -- May 26, American tanker *Carrabulle* sunk by U-boat, Gulf of Mexico -- 22  
 1943 -- Dec 3, US tanker *Touchet* sunk by U-boat, Gulf of MX, So. of Pensacola/W. of Naples, FL-10  
 1951 -- Apr 20, *Esso Greensboro* & *Esso Suez* collide full speed/dense fog, Gulf of Mexico-- 39  
     --37 tanker *Esso Greensboro* ( 5 survivors)  
     -- 2 tanker *Esso Suez* (47 survivors)  
 1959 -- Nov 16, National Airlines Flight 967 plane crash, Gulf of Mexico -- 42  
 1964 -- Jun 30, drilling barge *C.P. Baker* explosion and fire,, Gulf of Mexico -- 22  
 2004 -- Mar 23, helicopter crash, Gulf of Mex., flying to oil rig ~60M off Galveston, TX -- 10

### Indian Ocean

- 1944 -- July 2, Japanese sub captures US *Jean Nicolet* complement of 100 off Ceylon; murders most-76

### Lake Erie

- 1852 -- Aug 20, fog/steamers collide, *Atlantic* sinks, Lake Erie near Long Pt., Ontario--150--300  
 1860 -- Nov 24, stmr. *Jersey City* grounds, Lake Erie storm, Long Pt., Ontario, Can. -- 17  
 1864 -- Aug 10, propeller *Racine* boiler explosion, Lake Erie, off Rondeau, Ontario -- 12  
 1902 -- Nov 23, freighter *Silvanus J. Macy* sinks, Lake Erie storm -- 14  
 1909 -- Dec 08, coal car ferry *Marquette & Bessemer No. 2* lost, Lake Erie storm --30-38  
 1916 -- Oct 20-21, steamers *Merida*, *D.L. Flyer*, *James B. Colgate* sink, storm, Lake Erie --54-59

### Lake Huron:

### Lake Michigan:

- 1855 -- Aug 08, bark *L. M. Hubby* capsizes, Lake Michigan off Point Betsie, MI -- 10  
 1860 -- Sep 07-08, schooner *St. Mary* founders in Lake Michigan storm --all 11  
 1864 -- Nov 08, bark *Mojave* sinks, Lake Mich. between Sheboygan WI, Big Sable Pt. MI-- 10  
 1871 -- Sep 22, schooner *Charles H. Hurd* sinks, Lake MI gale ~South Manitou Isl., MI -- 11

### Lake Ontario:

- 1813 -- Aug 08, schooners *USS Hamilton* & *Scourge* capsize, squall, Lake Ontario -- >80  
 1856 -- Nov 04, stmr. *J.W. Brooks* sinks, Lake Ontario gale, off False Duck Island, Ontario-20-50  
 1882 -- Dec 05, sch. *Henry Folger* grounds on reef, Salmon Pt., Lake Ont. ~Wellington, Ont.--16

### Lake Superior:

- 1872 -- Nov 27, barges *Jupiter*, *Saturn* ground, Lake Superior storm, Vermilion Pt. MI -- 15  
 1887 -- Nov 17-19, Northeaster, Lake Superior, thirty shipwrecks -- ~ 40  
 1975 -- Nov 10, storm, SS *Edmund Fitzgerald* sinks, Lake Superior, Whitefish Bay, MI -- 29

### Mississippi River:

1811 -- Dec 16-Feb 7, 1812, New Madrid Earthquakes	-- ~200
1828 -- May, Steamer <i>Car of Commerce</i> Boiler Explosion, MS Riv., 110m s. of OH Riv.	-- 30
1845 -- Dec 18/19, Steamer <i>Belle Zane</i> Snags/Capsizes, Miss. River, Island No. 75	--30-76
1849 -- May 16 (by), steamboat <i>Winfield Scott</i> , New Orleans to Louisville, cholera	--28-29
1852 -- Jan 14, Steamer <i>Martha Washington</i> Burns, Miss. River, Island #65 ~Jackson Pt.	-- 5-10
1854 -- May 10, Steamer <i>Pike</i> snags/sinks, MS Riv., Big Eddy, Wilkinson's Lndg., MO	-- 10
1855 -- Mar 27, Steamer <i>Bulletin No. 2</i> Burns, Mississippi River, Tompkin's Bend	-- 23
1858 -- Feb 04, Steamer <i>Colonel Crossman</i> boiler explos., MS Riv. near New Madrid MO--	~15
1858 -- Jun 13, <i>Pennsylvania</i> boiler explos./fire, MS River, Ship Island, Hardin Pt., AR	--60-160
1864 -- Oct 30, Union packet <i>Universe</i> snags/sinks, MS Riv., between Islands 35 & 36	-- 17
1866 -- Feb 2, Steamboat <i>W.R. Carter</i> Boiler Explosion, Miss. River, Island No. 98	--123-215
1867 -- Jan 17, steamer <i>Platte Valley</i> hits submerged wreck, MS Riv. near Memphis TN	--16-50
1870 -- Dec 18, <i>Nick Wall</i> Snags/Sinks Miss. River, ~Napoleon, AR & Princeton, MS	-- 39
1925 -- May 8, U.S. Steamer <i>Norman</i> Capsizes, MS Riv, 16 mi. S of Memphis, TN	--18-22
1927 -- Apr-May, Rain, MS River Flood/Levee Breaks, MS, AR, LA, KY, MO	--246-1,000

### Missouri River:

1849 -- Apr-early May?, cholera, steamer <i>Weston</i> , up MO River to Ft. Leavenworth	-- 10
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### Ohio River:

1850 -- Oct 05, steamer <i>Kate Fleming</i> boiler explosion/fire, Ohio River, Walker's Bar, KY-11-12	
1868 -- Mar 18, <i>Magnolia</i> boiler explos./fire, OH Riv., ~Cincinnati OH & California KY	--35-83

### Mediterranean

1787 -- Dec, last week; crewmen from previously captured Maine sloop <i>Squirrel</i> murdered by Algerians-11	
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### Pacific Ocean (chronological – incomplete):

Blue highlighting represents vessels. Yellow represents aircraft

1829-30 -- brig <i>Kamehameha</i> lost, left Honolulu HI, Dec 2, for Erromango Island	--250~300
1839 -- May 08, schooner USS <i>Sea Gull</i> , Tierra del Fuego to Valparaiso, Chile, last seen	-- 15
1846 -- Dec 08, storm, U.S. Naval Brig <i>Somers</i> capsizes off Vera Cruz, Mexico, Pacific	--30-32
1850 -- Sep 20, barque <i>Emily</i> from SF, Cal., lost off Cape St. Lucas, Baja, Mex. <sup>948</sup>	-- ~198
1866 -- May 03, clipper <i>Hornet</i> , NY to San Francisco, burns sinks, Pacific Ocean	-- 16
1873 -- Jan 27~, steamer <i>George S. Wright</i> hits rocks?, Queen Charlotte Sound, BC, Can.	-- 34
1888 -- May 03 schooner <i>Isabel</i> , San Francisco to Shumagin Island, AK, lost	-- 14
1894 -- Sep 27, ship <i>Ivanhoe</i> leaves Seattle for SF, lost in storm off WA/OR coast	--23-24
1901 -- Dec 02, steamer <i>Matteawan</i> leaves Nanaimo, BC for San Fran., CA, lost in gale	-- 33
1902 -- Dec 21, last sighting, American ship <i>Florence</i> , Tacoma, WA for Honolulu, HI	-- ~15

<sup>948</sup> Later reports deny this event happened. It is not included in our numbers – listed to show it is nor an oversight.

### Pacific Ocean (continued):

1905 -- Nov 25,	<b>Nellie Coleman</b> lost at sea, Squaw Harbor, AK to Seattle, WA	--12-30
1906 -- Jan 10,	bark <b>Nicholas Thayer</b> lost from Seattle WA for Seward, AK, N. Pacific	-- 10
1918 -- Feb 28,	American schooner <b>Americana</b> clears Columbia Riv. bar, lost at sea, Pacific	-- 11
1918 -- Sep 17,	steamer <b>San Gabriel</b> founders off Cape Lucas, Mexico, Pacific	-- 20
1918 -- Oct 16,	fire, steamer <b>Dumaru</b> , Pacific Ocean, 22 miles off Guam	-- 18
1921 -- Feb 26,	U.S. destroyer <b>Woolsey</b> hit by <i>Steel Inventor</i> , sinks, off Panama, Pacific	-- 16
1921 -- Mar 21,	ocean-going tug USS <b>Conestoga</b> leaves Mare Island, CA, lost at sea	-- 56
1923 -- Feb 20,	<b>Alta</b> sails from San Pedro, CA for Bellingham, WA, lost at sea	-- 15
1938 -- July 29,	<b>Pan Am Air's "Hawaii Clipper"</b> out of Alameda CA, lost, Pacific	-- 15
1941 -- Dec 7,	cargo ship <b>Cynthia Olson</b> sunk by Japanese sub, Pacific, btw. Tacoma & Honolulu	--35
1941 -- Dec 19,	US freighter <b>Prusa</b> sunk by Japanese sub ~150-300M so. of Honolulu	-- 10
1943 -- Apr 29,	<b>US Army AF B-24</b> lost, Hamilton Field, CA to Hickam Field, HI	-- 10
1944 -- Feb 16,	<b>USN Air Transport Unit</b> flight missing, NAS Seattle to Kodiak, AK	-- 14
1944 -- Sep 29,	<b>USN PBM-3D crash</b> , southeast of Palau Island, west-central Pacific	-- 10
1944 -- Oct 29,	US freighter <b>John A Johnson</b> torpedoed by Japanese sub, Pacific; crew shot	-- 10
1944 -- Dec 18,	<b>USN Task Force 38 hit by typhoon</b> , ships capsize off Philippines, W. Pacific	-- 790
	--202 <b>Hull</b>	
	--256 <b>Monaghan</b>	
	--317 <b>Spence</b>	
	-- 15 deaths from <b>ten other vessels</b>	
1945 -- June 21,	<b>USAAF Catalina</b> test flight lost 110M S off Los Negros, Admiralty Islands	-- 11
1945 -- Aug 28,	<b>USAAF C-47</b> , Philippines for Okinawa-Naha AFB, enters storm front, lost	-- 19
1945 -- Oct 16,	<b>USAAF C-47</b> engine fire, crash 60 mls NW of Saipan, Mariana Islands	-- 12
1945 -- Nov 03,	<b>Consolidated Air</b> , Army Transport Command, sea crash, 450 mi NE of HI	-- 18
1945 -- Nov 13,	<b>ANA C-49</b> with USAAC passengers, crashes off Tacloban AP Philippines	-- 16
1946 -- May 27,	<b>USAAF B-17G lost</b> , Kwajalein to Guam, searching for missing C-54	-- 10
1946 -- July 20,	two USAAF B-17G search <b>planes collide</b> off Coiba Island, Panama, Pac.	-- 20
1946 -- Nov 16,	U.S. Army Air Force DC-47 <b>plane crash</b> , Pacific Ocean off Iwo Jima	-- 23
1947 -- Mar 12,	tanker <b>Fort Dearborn</b> , San Fran. to Shanghai, breaks up, gale, Pacific	-- 12
1947 -- Nov 24,	storm, Army transport <b>Clarksdale Victory</b> grounds, Hippa Island, BC <sup>949</sup>	-- 49
1948 -- Nov 07,	<b>USAF B-29</b> out of Kadena AB, Okinawa, crash at sea NW of Guam	-- 11
1957 -- Mar 22,	<b>USAF MATS C-97C</b> , Travis AFB CA to Tokyo, lost ~200M from Tokyo	-- 67
1958 -- Sep 02,	USAF Douglas C-124 <b>plane fire/crash</b> , 35m west, Agana NAS, Guam	--all 19
1960 -- Sep 22,	USMC R5D engine fire/fuel tank explodes/crash 180M off Naha, <b>Okinawa</b>	-- 29
1964 -- Dec 04,	USN P3A Orion fire, crash, 25M W off Luzon, Cubi Pt NAS, Philippines	-- 13
1969 -- Dec 26,	USN Charter SS <b>Badger State</b> explos./raft hit by falling bomb, N. Pacific	-- 26
1971 -- June 13,	<b>USAF C-135B</b> monitoring French nuclear test, crashes, No. Pacific	--all 24

### Persian Gulf:

1988 -- July 3, USS *Vincennes* missile cruiser shoots down Iran Air 655, Persian Gulf<sup>950</sup> -- 290

<sup>949</sup> Part of Canadian Graham Island group just south of southern point of Alaska's Alexander Archipelago.

<sup>950</sup> No Americans killed, but an American disaster in the sense that a US Navy vessel, having intruded into Iranian territorial waters, shot down an Iranian passenger airliner without definitive knowledge that the target was a military



## United States Military Bases, Facilities, Leased and Shared Sites Overseas – by Location

(See the next page below)

Atlantic Ocean	-- 11	(All were U.S. military in non-combat and or non-war roles.)
American Samoa	-- 1	(Pan Am World Flight 806 in 1974.)
Bermuda	-- 6	(USAAF/1943, USAF RB-29/1949, USN/1956, USAF/1959/1964.)
Canada, Newfoundland	-- 6	
Caribbean	-- 2	(Pan Am 218 in 1944 and Florida Commuter Airlines in 1980.)
Chile	-- 1	(USN C-47, 1969)
China	-- 2	
England	-- 6	
France	-- 3	
Germany	-- 3	(June 1955, USAF C-119s collide in 1955, USAF Chinook in 1971.)
Guam	-- 10	(U.S. military or contract.)
Gulf of Mexico	-- 2	(USAAF B-17 in 1942, and National Airlines 967 in 1959.)
Iceland	-- 1	
India	-- 2	
Italy	-- 1	Out of Aviano Air Base 1-22-1965
Iwo Jima	-- 2	
Japan & Japan based	-- 23	
Kwajalein Atoll	-- 1	
Lebanon	-- 2	(1983 US Embassy and Marine Corps Barracks truck bomb.)
Libya	-- 1	(USAF plane takeoff crash, Wheelus Air Base, Tripoli, 1953.)
Marshall Islands	-- 3	
Okinawa (Japan)	-- 12	(US military.)
Pacific Ocean	-- 8	(Pan Am Hawaii Clipper in 1938; 7 US military plane events.)
Panama Canal Zone	-- 5	
Papua New Guinea	-- 1	
Peru	-- 1	(Panama Canal Zone based plane.)
Philippines	-- 12	
Puerto Rico & vic.	-- 6	(3 US mil., 1942, 1948, 2002; commercial in 1949, 1952, 1969.)
Portuguese Azores	-- 3	(1951 and 1977.)
Saipan, Mariana Isles.	-- 1	
Scotland, UK	-- 1	(1949)
South Korea	-- 3	(1952, 1954 and USMC Helicopter crash in 1984.)
Taiwan	-- 4	
Trinidad	-- 1	(USN PBM plane out of Naval Operating Base Trinidad, 3-22-53.)
U.S. Virgin Islands	-- 2	(Overseas National Air in 1970, and American Air 625 in 1976.)
Vietnam	-- 2	(US C-5 Operation Babylift crash, Tan Son Nhut AB in 1975; 1966)
Wake Island	-- 1	

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one representing a threat. Indeed retrieved onboard screen shots demonstrated that the target had been identified with a civilian transponder code, at high altitude and ascending, rather than descending, as was claimed at the time. Cross-listed in Maritime in that it was a U.S. Navy vessel that caused the disaster.

## United States Military Bases, Facilities, Leased and Shared Sites Overseas – Chronological

1. 1943 -- July 15, **USAAF B24D** sea crash at end of runway, Castle Harbour, **Bermuda**-- 11
2. 1945 -- Jan 06, **USAAF C-46** crash, Himalayan mt.-side, Arunachal Pradesh, NE **India**--all 13
3. 1945 -- Apr 16, **USAAF B-29** ferry flight too-low approach hits water, Pango Bay, **Guam**--12
4. 1945 -- May 23, **US Navy PB4Y-1** Liberator engine failure, crash at sea off **Iwo Jima**-- 12
5. 1945 -- June 06, **USAAF B-29** ferry to US crash after takeoff from **Kwajalein Atoll** -- 10
6. 1945 -- June 21, **USAAF Catalina** test flight lost 110M S off Los Negros, Admiralty Islands--11
7. 1945 -- Aug 27, **USAAF B-29** 2<sup>nd</sup> landing approach crash, Mt. Tapochau, **Saipan** --all 10
8. 1945 -- Aug 28, **USAAF B-32** takeoff power loss, crash, runway-end pit, Yontan, Okinawa--13
9. 1945 -- Sep 06, **USAAF C-47**, intra-Philippine flight reportedly explodes ~San Jancinico Strait--30
10. 1945 -- Sep 28, **USAAF C-46** crash 20 miles southeast of Chihkiang [US base], China-- 20
11. 1945 -- Nov 02, **USAAF B-29** Superfortress crash, North Field, Guam -- 10
  
12. 1946 -- Jan 12, **USN PB4Y-2** hits Homonhon Isl. ridge in adverse weather, **Philippines**-- 10
13. 1946 -- Jan 13, **USAAF C-46** initial climb crash into sea, off Majuro, **Marshall Islands**-- 12
14. 1946 -- Jan 29, **USAAF C-46**, occupants bail out, unable to find Shanghai AP, **China** --all 12
15. 1946 -- Feb 05, **USAAF C-47** crash, Negros Island mountainous terrain, **Philippines** --20-24
16. 1946 -- Mar 19, **USAAF B-17** crash in adverse weather, northern Formosa (**Taiwan**) --all 10
17. 1946 -- Mar 23, **USAAF C-47** flies into Mount Banahao/Banahaw, Leyte, **Philippines**-- 19
18. 1946 -- Apr 08, **USAAF C-47** Yan'an approach crash, Mt. Hei Cho, ~Shensi, **China** --all 17
19. 1946 -- May 17, **USAAF C-47** with POW remains hits hillside, Tripura district, **India**--all 11
20. 1946 -- May 27, **USAAF B-17G** lost searching for missing C-54, **Kwajalein to Guam**-- 10
21. 1946 -- June 9, **USAAF C-54** hits terrain 500ft below approach altitude, Taboga Isl., **Panama**-- 23
22. 1946 -- July 30, **USN PB4Y-2** crash searching for missing US planes, Mindoro Isl., **Philippines**--10
23. 1946 -- Oct 03, **American Overseas Air** crash, **Harmon Field AFB, Newfoundland** -- 39
24. 1946 -- Nov 16, **USAAF DC-47**, Guam to Iwo Jima, crashes into Pacific 15M off Iwo Jima --all 23
25. 1946 -- Dec 10, **USAAF C-46** takeoff crash near Itami US Air Base, Osaka, **Japan**--all 23-24
  
26. 1947 -- Apr 19, **USAAF B-29** takeoff engine fire/explosion/crash, off Kwajalein Island-- 16
27. 1947 -- May 29, **USAAF C-54** approach crash near Atsugi Air Base, **Japan** --all 41
28. 1947 -- Sep 19, **USAF C-54** in-flight fire/crash 3.1M SW off Puerto San Juan, **Peru** -- 14
  
29. 1948 -- Jan 27, **USAF C47** crash (dependents), snowstorm, Cheval Blanc Mt., **France**-- 12
30. 1948 -- Aug 11, **USN PB4Y-2** out of NAS Agana flies into cliff, Rota Isl. (no. Mariana Isls.)--12
31. 1948 -- Nov 03, **USAF B-29** flies into Higher Shelf Stones above High Peak, **England**-- 13
32. 1948 -- Nov 07, **USAF B-29** out of **Kadena AB, Okinawa**, crash at sea NW of Guam-- 11
  
33. 1949 -- Jan 17, **USAF B-29** crash, Argyllshire mts. (icing?) ~Lochgoilhead, **Scotland** --all 20
34. 1949 -- Jan 26, **USAF B-29**, Dakar, Senegal to Norfolk, UK,<sup>951</sup> lost ~**Canary Islands**, Spain--15
35. 1949 -- Sep 23, **USAF B-29** takeoff crash (engine failure), Andersen AFB (US), **Guam**-- 11
36. 1949 -- Oct 13, Lakenheath AB **USAF B50** takeoff engine fire/crash ~Isleham England--US/11 of 12
37. 1949 -- Nov 03, **USAF RB-29** engine issue after takeoff, crash off Kindley US AFB, **Bermuda**--11

<sup>951</sup> The B-29 was homebased at RAF Marham, Norfolk, England.

### US Military Bases/Facilities/Leased and Shared Sites Overseas – Chronological--continued:

38. 1950 -- Apr 21, off-course USAF C54 flies into Mt. Hirugatake at night ~Atsugi, **Japan**--all 35  
 39. 1950 -- May 18, **USAF B-29** engine problem, emer. Indg. crash, **Lajes Field, Azores** --all 16  
 40. 1950 -- July 27, USAF C-47 crash, Pacific, after takeoff 10M S of Oshima Island, **Japan**--25  
 41. 1950 -- Sep 06, USAF C-54 explosion/crash after takeoff 4M NW Osaka-Itami Air Base, **Japan**-- 11  
 42. 1950 -- Sep 19, USN transport takeoff crash 1.6M off **Kwajalein NAS**, Marshall Islands-- 26  
 43. 1950 -- Sep 26, USAF C-54D takeoff crash 1 mile off Ashiya Air Base, Kyushu, **Japan**-- 23  
 44. 1950 -- Dec 19, USAF Douglas C-54G transport crash, Mt. Tabayoc, Luzon, **Philippines**--all 38
45. 1951 -- Apr 26 USAF B-29 Superfortress landing crash, **Lajes AFB, Terceira, Azores, Portugal**-- 11  
 46. 1951 -- May 10, two USAF F-80s collide, one crashes killing 10 on ground, Fukuoka, **Japan**-- 11  
 47. 1951 -- Nov 18, USAF B29 takeoff crash: crew OK; 3US/7 local rescuers killed by explos., Yokota, **Japan**--10
48. 1952 -- Jan 14, **USN P4Y-2** crash after 2 engines fail 6M SW of Yokohama, **Japan** --all 12  
 49. 1952 -- Feb 1 **USAF B29** hits 2<sup>nd</sup> B29/no deaths 2<sup>nd</sup> plane, 5M off Bolo Point, **Okinawa** --all 12  
 50. 1952 -- Feb 22, USAF F84 trng. flight hits power lines/crashes, Tsu Bu village, S **Kor.**/14 killed-- 15  
 51. 1952 -- June 13, **USAF RB-29** from **Yokota Air Base**, Japan, shot down, **Sea of Japan**-- 12  
 52. 1952 -- June 24, NM-based **USAF B-50** Superfortress crash near Lakenheath, **England**-- 11  
 53. 1952 -- Aug 7, USN plane crash, mts., returning to base, one engine/bad weather, so. of Bataan, Philippines-12  
 54. 1952 -- Aug 08, USN PBM Mariner seaplane crash, hilltop ~Nagahama, Ehime, Japan--all 13  
 55. 1952 -- Oct 26, **USAF WB-29** lost, typhoon, **Anderson AFB, Guam** to Philippines -- 10  
 56. 1952 -- Nov 6, USAF SAC B-50 crash in gale High Wood 2M W of Great Dunmow, Eng.--11
57. 1953 -- Jan 16, **USAF C54** crash, approach, Harmon AFB, Stephenville, **NFLD, Can.**--13-14  
 58. 1953 -- Feb 01, **USN P2 Neptune** flies into mt., marginal weather, **Okinawa, Japan** --all 11  
 59. 1953 -- Feb 02, **USAF B-29** Superfortress takeoff crash, Wheelus Field, Tripoli, **Libya**-- 15  
 60. 1953 -- Mar 18, USAF B-29 crash searching for USAF plane, St. George's Bay, NFL, Can<sup>952</sup>--10  
 61. 1953 -- Mar 22, **USN PBM** out of Naval Operating Base **Trinidad** missing N of Dom. Rep.-- 11  
 62. 1953 -- June 18, **USAF Globemaster II** crash, Tachikawa US AFB, Tokyo, **Japan** -- 129  
 63. 1953 -- July 29, **USAF RB-50** out of Yokota Air Base, Japan, shot down by USSR, Sea of Japan-16  
 1953 -- Sep 18, **USAF WB29** weather recon plane lost out of Kindley AFB, **Bermuda**-- 7  
 64. 1953 -- Nov 10 USN PBM plane crash, sea ~Che Ju Isl. 40M SW of Jindo, **So Korea**<sup>953</sup>--14-15  
 65. 1953 -- Dec 17, **USAF B-29** takeoff engine loss, crash into housing, Anderson AFB, **Guam**-- 19
66. 1954 -- Jan 04, USN P2V Neptune engine trouble and crash, Yellow Sea, off **S. Korea**<sup>954</sup>--10  
 67. 1954 -- Feb 01, **USAF C-46** plane fire and crash, Tsugaru Strait, off Hokkaido, **Japan**--all 35  
 68. 1954 -- June 09, **USN PBM** Mariner crash, Yakushima Island mt. peak, SW **Japan**<sup>955</sup>--all 17  
 69. 1954 -- Sep 28, **USN PB-5** Marlin takeoff crash, Sangley Point NAS, **Philippines** -- 11
70. 1955 -- Jan 17, USN C121 Super Constellation 2 engines out, crash off Stephenville NL **Can.**-- 13  
 71. 1955 -- Apr 28, USAF B29 Superfortress flies into cloud-shrouded hill ~**Naha AFB, Okinawa**--10

<sup>952</sup> The B-29 was out of and on the approach back to the U.S. Harmon AFB, Stephenville, Newfoundland, Canada.

<sup>953</sup> Out of Iwakuni Marine Corps Air Station, Japan.

<sup>954</sup> Out of Iwakuni Marine Corps Air Station, Japan.

<sup>955</sup> Out of Iwakuni Naval Air Station.

72. 1955 -- June 10, USAF B29 Superfortress flies into Mt. Teckberg in fog ~Owen, FRG<sup>956</sup>-- 10  
 73. 1955 -- Aug 11, two USAF C-119 Flying Boxcars collide over Edelweiler, **Germany** -- 66  
 74. 1955 -- Sep 8, USAF B29 Superfortress crash, ocean so. of Ishigaki Island, **Okinawa**, Japan--13  
 75. 1955 -- Nov 20, USAF C124 Globemaster II takeoff crash, Iwo Jima Air Base **Japan** --all 11

### **US Military Bases/Facilities/Leased/Shared Sites Overseas--Chronological (continued):**

76. 1956 -- Aug 22, US Navy P4M-1Q from Iwakuni NAS, Japan, shot down 32M off Wenchow, **China**-- 16  
 77. 1956 -- Sep 10, **Yokota AB USAF RB50G** lost tracking Typhoon Emma **Sea of Japan**-- 16  
 78. 1956 -- Nov 09, USN P5M Marlin patrol plane lost no. of **Bermuda**, possibly off MD-- 10  
 79. 1956 -- Dec 28, USAF B-50 weather recon. crash, Yokota AB approach, **Japan** --(9 US)10  
  
 80. 1957 -- Feb 02, two USAF KB-29P tankers collide, poor visibility, trng. mis. Morigny, France-- 13  
 81. 1957 -- July 16, USAF C47 crash, Mount Cha Tien ~Hsinchu **Taiwan** (Taipei based) --all 16  
  
 82. 1958 -- Jan 15, USAF Typhoon Ophelia recon. plane out of Anderson AFB, **Guam**, lost at sea--all 10  
 83. 1958 -- Feb 20, USN WV2 Super Constellation plane lost, Newfoundland to **Azores** -- 22  
 84. 1958 -- Mar 07, USMC transport & Skyraider planes collide off Naha NAB, **Okinawa**--all 26  
 85. 1958 -- Sep 02, USAF Douglas C-124 plane fire/crash, 35m west, Agana NAS, **Guam** --all 19  
 86. 1958 -- Oct 18, USN *Constellation* plane crash on approach ~Argentia, Newfoundland, **Can.**--11  
  
 87. 1959 -- Feb 04, USAF weather B-50 plane lost, out of Kindley US AFB, **Bermuda** -- 12  
 88. 1959 -- Apr 09, USN P5M 2 Marlin seaplane crash Cheju Island Mt., **South Korea**<sup>957</sup>--all 10  
 89. 1959 -- May 20, USAF C-130 Hercules plane crash into Barracks, Ashiya AB, **Japan**-- 10  
 90. 1959 -- Nov 7, USAF C-47 crashes after take-off, Tainan, Formosa (**Taiwan**) -- 15  
  
 1960 -- Apr 18, USAF C124 cargo plane takeoff crash, Stephenville, Harmon AB **NFLD**-- 9  
 91. 1960 -- Sep 08, Yokota AB USAF weather B-50 crash into Mt., near Ishikawa, **Japan**-- 11  
 92. 1960 -- Sep 19, World Airways (military air transport) crash/fire, Mt. Barrigada, **Guam**-- 80  
 93. 1961 -- Apr 18, USAF C47, circling takeoff climb, foggy weather crash, Mt Parker, Hong Kong<sup>958</sup>--15  
 94. 1962 -- Jan 12, US Navy P2V Neptune crash, Kronborg Glacier, **Greenland**<sup>959</sup> --all 12  
 95. 1962 -- Mar 08, USAF C-130A Hercules plane crash near Alencon, western **France** -- 15  
 96. 1962 -- Aug 01, USN Marlin P5M crash, Zambales Mountains, northern **Philippines**<sup>960</sup>-- 12  
 97. 1964 -- May 11, USAF C-135 hits fence/crashes, landing, Clark U.S. AB, **Philippines**--79-80  
 98. 1964 -- June 29, USAF Stratofreighter & USAF C54 collide ~Kindley US AFB, **Bermuda**-- 17  
 99. 1964 -- Dec 04, USN P3A Orion fire, crash, 25M W off Luzon, **Cubi Pt NAS**, Philippines--13  
 100. 1965 -- Jan 22, USAF C124 crash on snow-covered Mount Helmos, **Greece**<sup>961</sup> --all 10  
 101. 1965 -- Aug 28, USAF C47 crashes into Mt. Cerro Calima near Cali, **Columbia**<sup>962</sup> --all 14  
 102. 1966 -- May 18, USAF KC-135 Stratotanker takeoff crash, Kadena AB, **Okinawa** -- 12

<sup>956</sup> The B29 was out of RAF Molesworth, which was operated by the US from 1951 to December 8, 1957, and was on a non-stop mission from Molesworth to Stuttgart and back.

<sup>957</sup> Out of Iwakuni Japan airbase (US).

<sup>958</sup> The servicemen were stationed at a US base in Taiwan and were on an R&R to Hong Kong.

<sup>959</sup> The Neptune was stationed at the US Naval Air Station at Keflavik, Iceland

<sup>960</sup> Out of Sangley Point Naval Air Station (US), Cavite City peninsula, northern Philippines.

<sup>961</sup> Flight was out of Aviana US Air Base, Italy.

<sup>962</sup> The C-47 was stationed out of the Howard Air Force base in the Panama Canal Zone (US base at time.)



- 103. 1967 -- Jan 6, **USN P5M Marlin** crash near entrance of Manila Bay, **Philippines** --all 10
- 104. 1967 -- Apr 28, **USN P3A Orion** patrol flight lost at sea off Tsushima Isl., **Japan** --all 12
- 105. 1968 -- Jan 16, **US Navy P3A Orion** crash in snowstorm on Mt. Kamegamori, **Japan**--all 12
- 106. 1968 -- Sep 24, **USAF Stratotanker** engine problem, crash landing at **Wake Island AP**--11
- 107. 1969 -- Mar 08, **USAF C130** crash short of runway, Ching Chuan Kang AB, **Taiwan**-- 12
- 108. 1969 -- Aug 04, **USN C47** plane crash, Andes Mountains near Los Quenes, **Chile** --all 16

**US Military Bases/Facilities/Leased/Shared Sites Overseas--Chronological (continued):**

- 109. 1970 -- Apr 10, **USAF C130 Hercules** crash after takeoff Naha US Air Base, **Okinawa**--11
- 110. 1971 -- Aug 18, **USAF Chinook** helicopter loses blade/crashes ~Pegnitz, W. **Germany**--all 37
- 111. 1971 -- Dec 12, **USN C2 Greyhound** out of **Cubi Point NAS Philippines** crash at sea --all 10
- 112. 1975 -- Apr 4, Operation Babylift **C-5** crash ~Tan Son Nhut AB, **Vietnam**--50-52US of 155
- 113. 1977 -- Dec 11, Brunswick NAS-based **USN Orion** crash, fog, Mt El Hierro, **Canary Isl.**<sup>963</sup>--13
- 114. 1979 -- Oct 19, typhoon/fuel bladder ruptures/barracks fire, **USMC Camp Fuji, Japan**-- 13
  
- 115. 1983 -- Apr 18, terrorism, **US Embassy** suicide bombing, **Beirut, Lebanon** --17 US of 63
- 116. 1983 -- Oct 23, terrorism, **Marine Corps Barracks** truck bomb, **Beirut, Lebanon** -- 241
- 117. 1984 -- Mar 24, **USMC** helicopter crash into Mt., 24M north of Pohang **S. Korea**--18 of 29
- 118. 1989 -- May 29, **USMC CH46 Sea Knight** helicopter crash, trng. exercise, off **Okinawa**-- 14
  
- 119. 1990 -- Feb 21, two USA 'copters crash (Iroquois/9, OH-58/2) ~Punta Diego, Panama Canal--11

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<sup>963</sup> On temporary duty at and operating from U.S. Lajes Base, Portuguese Azores Islands.

## Canada

1. 1803 -- March, massacre, crew of American ship *Boston*, Nootka, Vancouver Island, BC-- 25
2. 1845 -- Aug 12, steamers collide, *London & Kent* (sinks), Lake Erie, Point Pelee, Ont.-- 10
3. 1851 -- Oct 23, steamer *Henry Clay* sinks, Lake Erie storm, off Long Pt., Ontario --16-19
4. 1854 -- Sep 27, US Mail *Arctic & Vesta* collide in fog, Cape Race, Newfoundland --318-562
5. 1856 -- July 17, *Northern Indiana* burns, L. Erie (Buffalo-Toledo) ~Point Pelee, Ontario-- 58
6. 1856 -- Nov 04, *J.W. Brooks* sinks, Lake Ontario gale, off False Duck Island, Ontario --20-50
7. 1860 -- Nov 24, stmr. *Jersey City* grounds, Lake Erie storm, Long Pt., Ontario, Can. -- 17
8. 1867 -- Jan-Feb, Amer. bark *John Bright* strands near Nootka Isl., BC, crew murdered-- 14
9. 1873 -- Jan 27~, steamer *George S. Wright* hits rocks?, Queen Charlotte Sound, BC, Can.--34
10. 1877 -- Nov 20, US schooner *George Washington* strands, Mistaken Pt., Newfoundland-- 25
11. 1883 -- May 3, American steamer *Grapples* burns, Puget Sound to Alaska, off BC -- 70
12. 1889 -- Apr 28, train derails, burns, Hamilton, Ontario, Canada --20; US 13-18
13. 1897 -- Nov 05, freighter *Idaho* sinks, Lake Erie storm, off Long Point, Ontario -- 19
14. 1899 -- Dec 5, freighter *Niagara* sinks, Lake Erie storm, 10 miles E. of Long Pt., Ontario--12
15. 1906 -- Jan 22, storm, liner SS *Valencia* grounds/sinks, so. side Vancouver Island, BC-- ~136
16. 1908 -- Dec 2, U.S. steamer *Soo City* lost in storm, Gulf of St. Lawrence -- 19
17. 1909 -- Aug 18, schooner *Orinoco* founders, Sambro, Nova Scotia -- 11
18. 1909 -- Dec 8, *Clarion* fire, lifeboat loss, Lake Erie, near SE Shoal Lighthouse, Ontario-- 15
19. 1912 -- Mar 15, schooner *Patrician* stranded, Jordan Bay, Nova Scotia, Canada -- 10
20. 1918 -- Dec 3, storm, *Manola* founders, Lake Ontario, near Duck Island, Canada -- 11
21. 1918 -- Oct 4/5, collier USS *Herman Frasch* collision (*Henry*) ~Cape Sable NS --17-25
22. 1919 -- Nov 7-9, Baltimore MD steamer *Polar Land* founders off Scatarie Isl. Nova Sco.-- 51
23. 1941 -- Oct 30, American Airlines #1 crashes, NYC to Chicago, St. Thomas, Ontario -- 20
24. 1942 -- Feb 18, USS *Truston* & USS *Pollux* ground, storm, Placentia Bay, Newfoundland 204
25. 1942 -- Mar 07, merchant marine *Independence Hall* hits reef/sinks off Sable Island, NS-- 10
26. 1942 -- Aug 22, fog, convoy destroyer *Ingraham* sinks; had hit tanker *Chemung* off Nova Scotia~218
27. 1942 -- Oct 03, USN Sikorsky Flying Boat *Excalibur* crashes, Botwood, NFLD, Can. -- 11
28. 1947 -- Nov 24, storm, Army transport *Clarksdale Victory* grounds, Hippa Island, BC<sup>964</sup>-- 49
29. 1947 -- Dec 10, U.S. Air Force DC-4, crash/fire, near Goose Bay, Labrador, Canada -- 23
30. 1948 -- Nov 04, USN P2V2 crash, snow-filled canyon, Vancouver Isl. BC, Can. (found 1961)<sup>965</sup>-- 9
31. 1950 -- Jan 26, USAF SAC C-54 transport disappears, Yukon Territory, Canada -- 44
32. 1950 -- Dec 23, USN P2V Neptune crash, McCreight Mt., Vancouver Isl., BC, Canada-- 11
33. 1952 -- Jan 19, US military charter crash, NW Orient 324, Korea to WA, off Sandspit BC-36
34. 1953 -- Mar 18, 10-eng. USAF Convair RB-36H flies into hilltop, Random Isl., Nfld., Can. --all 23
35. 1953 -- Mar 18, USAF Superfortress plane crash, St. George's Bay, Newfoundland, Can.--10
36. 1958 -- Oct 18, USN *Constellation* plane crash on approach ~Argentia, Newfoundland, Can.--11
37. 1960 -- Apr 18, USAF C124 cargo plane takeoff crash, Stephenville, Harmon AB NFLD-- 9
38. 1961 -- Jan 26, USAF C-118 Liftmaster explos./crash off Argentia, Newfoundland, Can.-- 23
39. 1964 -- Nov 17, USN P3A Orion approach crash in ocean in fog ~USN Base, Argentia Nfld.-- 10
40. 1970 -- July 05, Air Canada Flight 621 plane crash near Toronto, Canada --24 (US) of 109
41. 1982 -- Feb 15, storm, *Ocean Ranger* oil rig sinks, Grand Banks, Canada<sup>966</sup> --84 (15 US)

<sup>964</sup> Part of Canadian Graham Island group just south of southern point of Alaska's Alexander Archipelago.

<sup>965</sup> Out of Whidbey Island, WA.

<sup>966</sup> Sixty-eight Canadians, one Englishman, and fifteen Americans

42. 1985 -- Dec 12, crash, US Military charter, Arrow Air #1285, Gander, Newfoundland -- 256
43. 1998 -- Sep 2, Swissair 111 (NY to Geneva) crashes off Peggy's Cove, N.S., Can--229 (US 117)

**Large-Loss-of-Life Events Involving U.S. Citizens Outside U.S.**

Afghanistan	3	Ivory Coast	1
Antarctica	1	Japan, and off of	10
Argentina	1	Japan, Sea of	4
Australia	2	Kenya	1
Azores (Portugal)	3	Labrador	1
Bahamas	3	Liberia	1
Baltic Sea	1	Mexico	4
Belgium	1	Montserrat	1
Bhutan	1	Morocco	1
Brazil	4	New Guinea	2
Burma	1	Newfoundland (later a Canadian Province)	4
Cambodia	1	Norway	1
Canada	43	Okinawa (all Okinawans; killed in US jet crash)	1
Canary Islands	1	Okinawa, sea off of	5
Chile	2	Panama	3
China	3	Panama Gulf	1
Colombia	2	Papua New Guinea	2
Costa Rica	1	Persian Gulf	1
Crete	1	Peru	1
Croatia	1	Philippines	11
Cuba	1	Philippines, Sea of	1
Cuba (off coast of)	2	Poland	1
Dominican Republic	1	Scotland	7
Dutch Guiana	1	Sinai Peninsula	1
Ecuador	1	Singapore (offshore)	1
Egypt	1	South China Sea	3
England	7	South Korea	5
France	9	Spain	4
Germany	9	Suriname, NE coast of South America	1
Greece	1	Tahiti (ocean just off Papeete Airport)	1
Greenland	2	Taiwan	5
Guam	3	Taiwan, Sea off of	1
Gulf of Thailand	1	Thailand	2
Guyana	1	The Netherlands, off of, in North Sea	1
Honduras	1	Trinidad	1
Hong Kong	2	Turkey	3
Iceland	3	Tyrrhenian Sea (off west coast of Italy)	1
India	4	USSR	3
Indonesia	1	Venezuela	1
Ionian Sea	1	Vietnam, 1 off coast of	12
Iraq	1	Gulf of Tonkin	2
Ireland	3	Wake Island	1
Isle of Man	1	Yellow Sea off Korea	1
Italy	12	Yemen	1



**Chronological Listing of Large-Loss-of-Life Events (10 or more lives lost) Involving U.S. Citizens Outside U.S. (Excluding Canada which is listed separately above) – 224 Events**

1. 1787 -- Dec, last week; crewmen from previously captured Maine sloop *Squirrel* murdered by Algerians-- 11
- 1815 -- Apr 06, massacre, American prisoners-of-war, Dartmoor Prison, England -- 7-9
2. 1853 -- May 15, US *Monumental City* (Baltimore built) grounds, Tullaberga Isl. Australia--32-37
3. 1856 -- Apr 15, locals and Americans fight, leads to riot, Panama City, Panama --16-20
4. 1862 -- July 27, Pacific Mail steamboat *Golden Gate* burns/sinks off Manzanilla, Mexico-- ~213
  
5. 1916 -- Jan 10, mass murder, Americans on train 50M W. Chihuahua City, Mexico --16-17
6. 1918 -- Oct 16, US steamer *Dumaru* hit by lightning, burns, Pacific, ~20 miles off Guam-- 18
  
7. 1941 -- Nov 02, US Naval Patrol "Flying Boat" crashes, mountain near Krysvik, Iceland-12
  
8. 1942 -- Jan 18, US merchant stmr. *Frances Salman* sunk by U-boat off Cape Race, Nfld.-- all 28
9. 1942 -- Jan 24, sub USS *S-26* accidentally rammed/sunk by PC-460, Gulf of Panama -- 46
10. 1942 -- Mar 07, passenger freighter *Barbara* sunk by sub ~9M NNE of Tortuga Isl., Dom. Rep.--26
11. 1942 -- Mar 12, US freighter *Texan* sunk by U-boat off NE Cuba near Puerto Padre -- 10
12. 1942 -- Mar 13, US freighter *Colabee* U-boat torpedoed ~10M off Cape Guajaba, Cuba-- 25
13. 1942 -- Apr 09, US tanker *Eugene V.R. Thayer* shelled/sunk by sub ~20m off N. Brazil-- 11
14. 1942 -- Aug 17, submarine USS *Bass* fire, asphyxiations, Pacific off Balboa Panama--26 of 80
  
15. 1943 -- Jan 15, USAAF C-54 (TWA contract), crash, Dutch Guiana [Suriname] -- 35
16. 1943 -- Sep 22, plane crash, USAAF C-53, near Calcutta, India -- 20
17. 1943 -- Nov 18, USN transport plane crash, 30mi. E of Rio De Janeiro, Brazil --17 of 18
18. 1943 -- Dec 2, Germans bomb Bari, Italy; US freighter *John Harvey* hit/mustard gas cargo<sup>967</sup>--≥83
  
19. 1944 -- Feb 26, storm, US freighter *William H Welch* grounds/breaks, Eilean Furadh Mor Isl., Scotland-62
20. 1944 -- July 27, USAAF C47A plane crash, Isle of Mull, ~Port Logan, Scotland --21US/22
21. 1944 -- Aug 28, plane crash, USAAF Douglas C54A, Prestwick, Scotland --20 US of 25
22. 1944 -- Oct 18, USAAF B24H plane crash, near Birkenhead, Merseyside, England -- 24
23. 1944 -- Nov 10, explos., USS *Mount Hood*, Seeadler Harb., Manus Isl., Papua New Guinea<sup>968</sup> --372-378
24. 1944 -- Nov 19, USAAF C-47A plane crash, near Brighton and Lewes, England --24 US/25
  
25. 1945 -- Jan 8, Pan Am 161 too-fast nose-down water landing crash, Port of Spain, Trinidad--23
26. 1945 -- Jan 21, USN plane bombs explode USS *Hancock* landing, South China Sea -- 62
27. 1945 -- Feb 02, Florence to Rome USAAF C-47 mt. crash in fog 3M W of Montieri, Italy-- 23
28. 1945 -- Feb 04, USAAF C-46 Commando on-board fire, crash ~55M NW Jorhat, India-- 34
29. 1945 -- Feb 14, USAAF B-24 approach crash in adverse weather, 12M NE Gander AP, Nfld.--10
30. 1945 -- Mar 03, USAAF C-47 transport too-low landing turn crash, Ledo Airfield, India-- 27
31. 1945 -- Mar 03, USAAF C-47 Prestwick-Orly AP approach crash, NW of Paris, France--all 16
32. 1945 -- Mar 10, USAAF C-46 med. evac. flight mt. crash ~Tanauan Airfield, Leyte, Philippines-- 37
33. 1945 -- Mar 14, USAAF C-47 loses propeller paratroop practice, hits 6, crashes ~Prosnes France--10
34. 1945 -- Apr 09, US freighter *Charles Henderson* explos., bomb unloading, Bari, Italy --52-54

<sup>967</sup> At least 83 people died from mustard gas poisoning; 90% of these U.S. Merchant Mariners from several ships.

<sup>968</sup> Largest of the Admiralty Islands, and fifth largest island in Papua New Guinea.

35. 1945 -- Apr 19, USN R4D-5 crash in fog after takeoff, Gooseberry Hill, W. Australia --all 13
36. 1945 -- May 05, USAAF C-54 crash into bluff upon takeoff, Manus Island, New Guinea-- 21
37. 1945 -- May 05, USAAF B-17 crash, night, Charco Azul mts./hills SE of Cienfuegos, Cuba-- 14
38. 1945 -- May 6, USAAF C-46 carrying litter patients, hits radar towers, Hindhead, England--31  
--30 on C-46 44-77839 (all), Gibbets Hill, Hindhead, Surry, England  
-- 1 Canadian soldier manning the radar tower station
39. 1945 -- May 10, USAAF B-17 hits B-17 turbulence/collision/crash, Braintree England-- 11
40. 1945 -- May 13, USAAF "Shangra-La" sightseeing plane crash, mtn., New Guinea -- 21
41. 1945 -- May 23, USAAF C-46 ambulance flight, engine fire/crash, Taillefontaine, France--44
42. 1945 -- May 30, USAAF C-47B crash (18 WACs, 3 crew) off Sassandra, Ivory Coast -- 21
43. 1945 -- June 13, USAAF B-24 flight to US crashes, Sidhean Mor ~Gairloch, Scotland-- 15
44. 1945 -- June 16, USAAF C-47 flight to AUS crash on mt. ~Moikisung, Papua New Guinea--12
45. 1945 -- June 17, USAAF B-24, Wales to Azores crash at sea 60M off Finisterre, Spain-- 10
46. 1945 -- June 23, USAAF C-47 crash 17.5M SSE of Ledo Airfield, India, in Burma --all 25
47. 1945 -- July 04, USAAF B-25 missing over the hump, Chengjiang China to Dinjan, India--15
48. 1945 -- July 23, USAAF B-24 engine fire/separation, crash, Tarskavaig, Isle of Skye, Scotland--14
49. 1945 -- Aug 01, USAAF B-17 bound for US, engine failure/ditches, Tyrrhenian Sea off W. Italy--13
50. 1945 -- Aug 28, USAAF B-29 crash during violent storm, Toga, Akita, Honshu, Japan-- 10
51. 1945 -- Aug 30, USAAF B-29 with POW supplies crashes, Mt. Oyajiyama, Japan --all 12
52. 1945 -- Sep 06, USAAF C-47, intra-Philippine flight reportedly explodes ~San Jancinico Strait--30
53. 1945 -- Sep 10, USAAF B-24 Liberator with freed POWs crash, Taitung, Taiwan--16 US of 25
54. 1945 -- Sep 28, USAAF C-46 crash 20 miles southeast of Chihkiang [US base], China-- 20
55. 1945 -- Oct 16, USAAF C-47 engine fire, crash 60 mls NW of Saipan, Mariana Islands-- 12
56. 1945 -- Oct 30, USAAF C-47A transport plane crash into mountain near Cuneo, Italy --all 15
57. 1945 -- Nov 01, too-low USAAF C-47 hits mountain near Bad Herrenalb, Germany -- 26
58. 1945 -- Nov 02, USAAF B-29 Superfortress crash, North Field, Guam -- 10
59. 1945 -- Nov 03, USAAF C-54 wrong route crash, Himalayan Mts. ~Chukha, Bhutan, India-- 44
60. 1945 -- Nov 09, USAAF C-47 AP approach crash at night, poor weather, Palermo, Italy-- 24
61. 1945 -- Nov 11, USAAF B-17G, Marseille to Athens, icing crash, Mount Meta, Italy -- 20
62. 1945 -- Nov 13, ANA C-49 with USAAC passengers, crashes off Tacloban AP Philippines--16
63. 1945 -- Dec 03, USAAF C-47B crash 10 miles SE of Carlos Pellegrini, Argentina --all 14
64. 1945 -- Dec 04, USAAF C-47 missing, Monrovia Liberia for Johannesburg, Africa coast--17

**Chronological Listing of Large-Loss-of-Life Events Involving U.S. Citizens Outside U.S.**  
(Excluding Canada which is listed separately above) – **Continued:**

65. 1946 -- June 01, USAAF C-54 cockpit fire, loss-of-control, crash off Amalfi, Italy -- 30
66. 1946 -- June 09, U.S. Army Air Force DC-4 plane crash, Tobago Island, Panama -- 23
67. 1946 -- Sep 04, US freighter *David Caldwell* grounds, storm, Gironde Estuary, SW France--10
68. 1946 -- Oct 03, Amer. Overseas Air plane crash, Harmon Field AFB, Newfoundland -- 39
69. 1946 -- Dec 28, TWA 6963 final approach crash at night, altimeter error, Shannon AP, IRL-- 12  
--10 passengers and crew with US addresses and 2 with French
70. 1947 -- Nov 28, off course USAF C-47 flies into Mt. Carbone, Alps near Cuneo, Italy -- 20
71. 1947 -- Dec 10, USAF C-54 crash after takeoff & emer. lndg. request ~Goose Bay, Labrador-- 23

**Chronological Listing of Large-Loss-of-Life Events Involving U.S. Citizens Outside U.S.  
(Excluding Canada which is listed separately above) -- continued:**

72. 1948 -- Jan 27, USAF C-47 crash (dependents), snowstorm, Cheval Blanc Mt., France-- 12  
 1948 -- Jan 30, USAF B-17 crash, (C-47 search) Cheval Blanc Mountain, So. France -- 9
73. 1948 -- Apr 15, Pan Am 1-10 hits rock wall, Shannon AP approach, Ireland --19US of 30
74. 1948 -- Nov 03, USAF B-29 crash after takeoff near Lajes Field, Azores, Portugal -- 19
75. 1948 -- Nov 03, USAF B-29 bomber crash, Shelf Moor, near Manchester, England -- 13
76. 1949 -- Jan 17, USAF B-29 crash, Argyllshire Mts. in fog, near Glasgow, Scotland -- 20
77. 1950 -- Apr 08, USN Privateer patrol bomber shot down by USSR, Baltic area -- 10
78. 1950 -- Apr 21 USAF C-54 Skymaster crash into Mt. in rainstorm near Atsugi, Japan -- 35
79. 1950 -- Aug 31, TWA 903 engine loss after takeoff, crash landing ~Cairo Egypt --23US of 55
80. 1950 -- May 18, USAF B-29 plane crash, Lajes Field, Azores --15-16
81. 1950 -- Dec 19, USAF Douglas C-54G transport crash, Mt. Tabayoc, Luzon, Philippines--all 38
82. 1951 -- May 10, two USAF F-80s collide, one crashes killing 10 on ground, Fukuoka, Japan-- 11
83. 1951 -- Apr 26 USAF B-29 Superfortress landing crash, Lajes AFB, Terceira, Azores, Portugal--11
84. 1951 -- June 22, Pan American Flight 151 flies into hill ~Monrovia, Liberia --13 US of 40
85. 1951 -- Nov 06, USN P2V-3W Neptune shot down by Soviet planes, Sea of Japan --all 10
86. 1951 -- Nov 13, USAF C-82 Flying Boxcar crashes into Puy de Sancy Mount., France--all 36
87. 1952 -- Feb 07, USAF B-29A takeoff crash, 5 miles NW of Yokota US AB, Japan -- 18  
 --13 Complement of the Boeing B-20A Superfortress (all).  
 -- 5 Civilians on the ground
88. 1952 -- Apr 29, Pan Am 202 structural failure in-flight & crash, central Brazil --19US of 50
89. 1952 -- Jun 13, USAF RB-29 intel plane out of Yokota Air Base, Japan, shot down, Sea of Japan--12
90. 1952 -- Oct 16, USAF C-46D transport crash, Sea of Japan off Gangwon-do, So. Korea-- 25
91. 1952 -- Nov 14, USAF C-119C Flying Boxcar flies into mt. (overcast), 20M E of Seoul, Kor.--all 44
92. 1953 -- July 10, USAF C47 & Norwegian AF jet collide ~Stavanger-Sola AP, Norway-- 10
93. 1953 -- July 30, USN PBM Mariner engine fire/ditched 60M W of Badoc Philippines -- 10
94. 1953 -- Aug 5, USAF Peacemaker engine fires/ditched, Atlantic ~420M NW Prestwick Scotland--19
95. 1954 -- Jan 04, US Navy P2V Neptune bomber lost, Yellow Sea, off coast of Korea -- 10
96. 1954 -- Mar 04, USAF C47 flies into mountain in snowstorm ~St.-Étienne-de-Tinée France-- 20
97. 1954 -- May 05, off-course USN PBM-5 seaplane crash, Sidewalk Mt. ~Carricitos, Mex.-- 10
98. 1954 -- May 07, USN P2V5 Neptune takeoff crash off Clifton Pier, Nassau, Bahamas --all 10
99. 1954 -- Aug 23, NY-Amsterdam KLM crash, North Sea after Shannon AP stop --12 US of 21
100. 1954 -- Sep 04, Soviet Migs shoot down USN P2V Neptune off Hokkaido, Sea of Japan-- 10
101. 1954 -- Sep 05, KLM Royal Dutch Airlines takeoff crash, Shannon Airport, Ireland--12US of 28
102. 1954 -- Oct 24, USAF C47A transport, Rome to Lyon, flies into Maritime Alps, Italy--all 21
103. 1955 -- Mar 06, USAF C-54 flies into mountain side and burns, ~Taitung, Taiwan --all 14
104. 1955 -- Apr 28, USAF B29 Superfortress flies into cloud-shrouded hill ~Naha AFB, Okinawa--10

105. 1955 -- June 10, USAF B29 Superfortress flies into Mt. Teckberg in fog ~Owen, FRG-- 10  
 106. 1955 -- Aug 11, two USAF C-119 Flying Boxcars collide over Edelweiler, Germany --all 66  
 107. 1955 -- Sep 8, USAF B29 Superfortress crash, ocean so. of Ishigaki Island, Okinawa, Japan-13  
 108. 1955 -- Nov 20, USAF C124 Globemaster II takeoff crash, Iwo Jima Air Base Japan--all 11

**Chronological Listing of Large-Loss-of-Life Events Involving U.S. Citizens Outside U.S.  
 (Excluding Canada which is listed separately above) -- continued:**

109. 1956 -- Mar 2, USAF C124C Globemaster II/enroute US, engine prob., ditched off Iceland --all 17  
 110. 1956 -- Aug 22, US Navy P4M-1Q shot down near Wenchow, China -- 16
111. 1957 -- Feb 02, two USAF KB-29P tankers collide, poor visibility, trng. mis. Morigny, France-- 13  
 112. 1957 -- Feb 22, USAF C-124A transport engine explodes after takeoff/crash lands ~Yanggong-ni S Korea--22  
 113. 1957 -- Mar 22, USAF MATS C-97C, Travis AFB CA to Tokyo, lost ~200M from Tokyo--67  
 114. 1957 -- July 16, USAF C47 crash, Mount Cha Tien ~Hsinchu Taiwan (Taipei based)--all 16
115. 1958 -- Feb 15, USAF C-47 transport plane crash in fog on Mt. Vesuvius, Italy --all 16  
 116. 1958 -- Feb 20, USN WV2 early warning plane lost ~100M west of the Azores --all 22  
 117. 1958 -- Mar 07, USMC transport & Skyraider collide off Naha NAF, Okinawa -- 26  
 118. 1958 -- Sep 02, USAF C130A Hercules shot-down over Sasnashen, Armenia, USSR--all 17  
 119. 1958 -- Sep 02, USAF Douglas C-124 plane fire/crash, 35m west, Agana NAS, Guam--all 19
120. 1959 -- Apr 09, USN P5M 2 Marlin seaplane crash Cheju Island Mt., South Korea --all 10  
 121. 1959 -- June 26, TWA 891 fuel explosion, thunderstorm static electricity, Italy --70; US 37  
 122. 1959 -- June 30, U.S. Air Force F-100 jet crashes into school, Ishikawa, Okinawa<sup>969</sup>-- 18  
 123. 1959 -- Nov 07, USAF C-47 crashes after take-off, Tainan, Formosa (Taiwan) -- 15
124. 1960 -- Jan 19, USN P4M Mercator plane crash, Karanfil Mt. near Adana, Turkey --all 16  
 125. 1960 -- Feb 25, USN R6D and DC-3 collide in fog off Rio de Janeiro, Brazil--61 (USN 35)  
 126. 1960 -- July 11, US Air Mission Colombia USAF crash, Mt Pichincha, Ecuador --18/US 12  
 127. 1960 -- Sep 22, USMC Douglas R5D-3 plane crash 180 miles off Naha, Okinawa -- 29  
 128. 1960 -- Dec 17, USAF C-131 Samaritan takeoff crash, Munich, Germany --(20 U.S.) 51-53
129. 1961 -- Feb 15, US figure-skating team/18; Sabena Air #548 crash, Berg, Belgium--73/US 49  
 130. 1961 -- Apr 18, USAF C47, circling takeoff climb/foggy weather crash, Mt Parker, Hong Kong-- 15
131. 1962 -- Jan 12, US Navy P2V Neptune crash, Kronborg Glacier, Greenland --all 12  
 132. 1962 -- Mar 15, MATS charter Flying Tiger #739 disappears, Philippine Sea--104 US of 107  
 133. 1962 -- May 17, USAF C130 Hercules flies into cloud shrouded mt., 20M W Nairobi, Kenya--13  
 134. 1962 -- May 22, USN WV2 radar intel. plane break-up/crash ~Markt Schwaben, Germany-- 26  
 135. 1962 -- Aug 01, USN Marlin P5M crash, Zambales Mountains, northern Philippines-- 12
136. 1964 -- May 11, USN P2V plane crash, Atlantic, 25 miles SW of US AB Rota, Spain-- 10  
 137. 1964 -- Nov 23, TWA 800 takeoff engine malfunct., hits grader/fire/explos., Rome Italy--28US of 50  
 138. 1964 -- Dec 04, USN P3A Orion fire, crash, 25M W off Luzon, Cubi Pt NAS, Philippines--13

<sup>969</sup> All deaths were of Okinawans in this at-the-time U.S. controlled territory. Pilot had bailed out of jet.



**Chronological Listing of Large-Loss-of-Life Events Involving U.S. Citizens Outside U.S.  
(Excluding Canada which is listed separately above) -- continued:**

139. 1965 -- Jan 22, USAF C124 crash on snow-covered Mount Helmos, Greece --all 10  
 140. 1965 -- June 05, USAF C119 unexplained crash, Caribbean, NE of Crooked Isl. Bahamas--10  
 141. 1965 -- Aug 24, USMC Lockheed Hercules takeoff crash into seawall, Hong Kong -- 59  
 142. 1965 -- Aug 28, USAF C47 crashes into mount Cerro Calima near Cali, Columbia --all 14  
 143. 1965 -- Sep 17 Pan Am #292 crash on approach, Chances Peak, Montserrat --14 US of 30  
 144. 1965 -- Nov 13, SS *Yarmouth Castle* fire/capsize/sinks, Miami to Nassau ~Great Stirrup Cay--90
145. 1966 -- Jan 25, USAF transport in-flight engine fire & crash ~Binh Khe, So. Vietnam-- 46  
 146. 1966 -- May 04, US Army Chinook helicopter rotor loss, crash, ~Di Linh, So. Vietnam-- 21  
 147. 1966 -- Mar 05, air turbulence, BOAC plane breakup/crash, Mount Fuji, Japan --124/US 89  
 148. 1966 -- Oct 26, USS *Oriskany* fire, lit magnesium flare in flare locker, off Vietnam -- 44  
 149. 1966 -- Nov 26, USAF C-47D loses left engine power, crashes ~Saigon, Vietnam --all 25-27  
 150. 1966 -- Dec 20, Executive Aviation Lodestar out of San Fran., CA crash ~San Felipe, MX--10
151. 1967 -- Jan 6, USN P5M Marlin crash near entrance of Manila Bay, Philippines --all 10  
 152. 1967 -- Mar 10, USN DC-3 wing failure/crash, admin. flight ~Phan Rang, Vietnam --all 25  
 153. 1967 -- Apr 28, USN P3A Orion patrol flight lost at sea off Tsushima Isl., Japan --all 12  
 154. 1967 -- June 08, USS *Liberty* attacked by Israeli air and naval craft, ~Sinai Peninsula-- 34  
 155. 1967 -- June 17, USAF C-130 aborted take-off crash, An Khe airstrip, South Vietnam-- 35  
 156. 1967 -- Oct 08, USAF turboprop flies into mountain ~Huong Thuy, South Vietnam --all 23  
 157. 1967 -- July 29, USS *Forrestal* jet rocket fires/hits plane/fire/explosions, Tonkin Gulf, Vietnam-134
158. 1968 -- Jan 08, USMC helicopter flies into mountain, fog/light rain, ~Quang Tri, S. Vietnam-- 42  
 159. 1968 -- Jan 16, US Navy P3A Orion crash in snowstorm on Mt. Kamegamori, Japan--all 12  
 160. 1968 -- Apr 01, US Navy P3B coastal surveillance plane shot down, Gulf of Thailand-- 12  
 161. 1968 -- June 25, three US Army helicopters collide, ~Bearcat, South Vietnam --29/US 12  
 162. 1968 -- July 28, USAF C-124A Georgia Reserve plane crash 50M NW of Recife, Brazil-- 10  
 163. 1968 -- Sep 24, USAF Stratotanker engine problem, crash landing at Wake Island AP-- 11  
 164. 1968 -- Oct 3, USAF transport & US Army helicopter collide over Camp Evans, S. Vietnam--all 24  
 165. 1968 -- Oct 21, USAF transport plane engine loss/crash ~Ban Me Thuot, So. Vietnam--all 23  
 166. 1968 -- Dec 12, Pan Am 217, from NYC, crashes into sea off Caracas, Venezuela--51/US 21
167. 1969 -- Feb 05, USAF HC-130 rescue plane crash into sea ~100M south of Taiwan -- 13  
 168. 1969 -- Mar 08, USAF C130 crash short of runway, Ching Chuan Kang AB, Taiwan --all 12  
 169. 1969 -- Apr 15, USN EC-121M patrol plane shot down by No. Korea MiGs, Sea of Japan-- 31  
 170. 1969 -- Apr 25, USAF Lockheed EC-121 crash after takeoff, severe wind ~Korat Airbase, Thailand-18  
 171. 1969 -- June 3, USS *Frank E. Evans* cut in half by Aus. carrier *Melbourne*, So. China Sea-- 74  
 172. 1969 -- Aug 04, USN C47 plane crash, Andes Mountains near Los Quenes, Chile --all 16  
 173. 1969 -- Oct 2, USN C-2A transport plane apparent engine failure/crash, Gulf of Tonkin--26
174. 1970 -- Apr 10, USAF C130 Hercules crash after takeoff Naha US Air Base, Okinawa-- 11  
 175. 1970 -- Aug 9, LANSA 502 takeoff crash (49 US HS students) ~Cuzco AP, Peru --101/US54-55

176. 1970 -- Oct 02, USAF C-130 transport plane crash into mountain near Taipei, Taiwan-- 43

**Chronological Listing of Large-Loss-of-Life Events Involving U.S. Citizens Outside U.S.  
(Excluding Canada which is listed separately above) -- continued:**

177. 1971 -- June 13, USAF C-135B monitoring French nuclear test, crashes, No. Pacific--all 24

178. 1971 -- Dec 12, USN C2 Greyhound out of Cubi Point NAS Philippines crash at sea--all 10

179. 1972 -- May 03, TN Air National Guard C124 crash 40M from Zanderij IAP, Suriname--11

180. 1972 -- June 03, Brunswick ME-based USN Orion 152182 crashes into Moroccan Mt.-- 14

181. 1973 -- July 22, Pan Am 816 plunges into sea after takeoff, Papeete, Tahiti --78/U.S. 35

182. 1973 -- Aug 28, USAF Military Airlift Command transport crash near Hueva, Spain-- 24

183. 1973 -- Oct 14, USAF F4E jet crash into US Army personnel carrier ~Weissenburg FRG-- 11

184. 1974 -- Apr 22, Pan Am 812, Hong Kong to LA, crash, Mesehe Mt. Indonesia--107, US 26

185. 1974 -- Sep 8, TWA 841, Tel Aviv to NYC, terrorist bomb, Ionian Sea --US  $\geq$ 20 of 88

186. 1975 -- Apr 04, Operation Babylift C-5 crash ~Tan Son Nhut AB, Vietnam--50-52US of 155

187. 1975 -- May 13-14, US freighter *Mayaguez* rescue mission, Koh Tang Isl., Cambodia-- 41

May 13, USAF helicopter crash, *Mayaguez* support mission, Thailand --23

May 14, USAF helicopter crash (*Knife 21*), Koh Tang Island, Cambodia -- 1

May 14, USAF helicopter crash (*Knife 31*), Koh Tang Island, Cambodia --13

May 14, Marine killed in combat with Khmer Rouge, Koh Tang, Cambodia-- 1

May, captured Marines inadvertently left behind, executed, Cambodia -- 3

188. 1975 -- Sep 26, USAF Sikorsky CH-53 helicopter crash, east of Paderborn, W. Germany--16

189. 1976 -- Aug 28, USAF crash, severe thunderstorm rips wing, ~Peterborough, England-- 18

190. 1976 -- Aug 28, USAF C-41 plane crash, Soendre Stromfjord AFB, Greenland<sup>970</sup> --13US/23

191. 1977 -- Jan 17, USN LCM-6 liberty boat hit/capsized by cargo vessel, Barcelona, Spain--49

192. 1977 -- Oct 21, USMC Sikorsky helicopter crash with troops, Mindoro, Philippines -- 24

193. 1977 -- Dec 11, BNAS-based USN Orion crash in fog, El Hierro Mt., Canary Islands-- 13

194. 1978 -- Oct 06, USN C-118 transport plane crash into hill in fog near Santiago, Chile-- 16

195. 1978 -- Nov 18, Jonestown Massacre, Peoples Temple mass suicide-murder, Guyana<sup>971</sup>--918

196. 1979 -- Nov 28, Air New Zealand sightseeing crash, Mount Erebus, Antarctica--24US of 257

197. 1980 -- Mar 14, Polish Air approach crash (US boxing team) ~Warsaw AP, Poland --87, US/31

198. 1980 -- Mar 14, USAF C130 wing explosion and crash near Yenice, Cilicia, Turkey -- 18

<sup>970</sup> Were 13 immediate US deaths and 8 Greenland (Dutch) passenger fatalities. Two more died about two weeks later – Greenland passengers? Greenland is an autonomous country within the Kingdom of Denmark.

<sup>971</sup> Northeast South America, with Venezuela to the west, Brazil to the south and southwest and Suriname to the east. All were from the U.S. except for a number of adopted Guyana children.

**Chronological Listing of Large-Loss-of-Life Events Involving U.S. Citizens Outside U.S.  
(Excluding Canada which is listed separately above) -- continued:**

199. 1981 -- Feb 26, USAF MC-130 plane crash, off NAS Cubi Point, Philippines --(17 US) 23
200. 1982 -- Apr 02, US Navy transport plane crash, Mediterranean island of Crete -- 11
201. 1982 -- Apr 13, USAF C-130 Hercules transport wing failure/crash ~Gevenlik, Turkey-- 27
202. 1982 -- Sep 11, USAF Chinook copter crash, airshow, ~Mannheim, Germany --46, US 7-8
203. 1983 -- Sep 01, Korean Air 007 (NY to Seoul) shot down by USSR off Sakhalin Isl.<sup>972</sup>--269/US 61-94
204. 1984 -- Feb 29, USAF C-130 Hercules plane crash, near Borja, Spain --(17 US) of 18
205. 1985 -- Jan 22, USAF plane crash in sea on approach to Trujillo Airport, Honduras -- 21
206. 1985 -- May 06, USMC CH-53D helicopter crash into Sea of Japan off Yakushima -- 17
207. 1987 -- May 17, USS *Stark* hit by Iraqi Air Force Mirage missiles, Persian Gulf -- 37
208. 1988 -- Dec 21, terrorism, Pan Am 103 blown-up, Lockerbie, Scotland -- 259
209. 1989 -- Mar 20, USMC Sea Stallion Helo engine mal./crash, Mt., ~Pohang, So. Korea-- 19
210. 1989 -- May 29, USMC CH46 Sea Knight helicopter crash, trng. exercise, off Okinawa--14
211. 1990 -- Feb 21, two USA 'copters crash (Iroquois/9, OH-58/2) ~Punta Diego, Panama Canal--11
212. 1990 -- Aug 29, USAF C-5A Galaxy plane crash, Ramstein U.S. Air Base, Germany-- 13
213. 1994 -- Apr 14, 2 USAF F-15s shootdown 2 USA Black Hawks, north Iraq --15US of 26
214. 1995 -- Dec 20, American Air 965 crash, incorrect approach, Buga, Colombia--≤46 US of 159
215. 1996 -- Apr 03, USAF plane crash (Sec. Commerce Ron Brown) ~Dubrovnik, Croatia-- 35
216. 1997 -- Aug 06, Korean Air 801 approach crash Antonio B. Won IAP, Guam --229/US 13
217. 2000 -- Oct 12, suicide terrorism, USS *Cole* bomb, Port of Aden, Yemen -- 17
218. 2002 -- Feb 22, US Army Chinook crashes at sea, exercise off Dumaguete Philippines --all 10
219. 2005 -- Apr 06, US Army Chinook crash in sandstorm near Ghazni, Afghanistan --all 18
220. 2009 -- Oct 26, US Army Chinook crash/dirt blown up from takeoff, anti-drug op., Afghanistan-10
221. 2015 -- Oct 2, USAF C130 takeoff crash, yoke blocked by pilot, Jalalabad AP, Afghanistan, 11US of 14
222. 2017 -- Aug 21, *USS John S. McCain* collision/merchant ship *Alnic MC* ~Singapore -- 10
223. 2017 -- Dec 31, plane crash, 2 C.R. pilots, 10 U.S. citizens, NW Costa Rica --10US of 12
224. 2021 -- Aug 26, ISIS-K suicide bomb kills US military members, Kabul, Afghanistan AP--13

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<sup>972</sup> 61-62 were U.S. citizens (depending on source). Thirty-two were foreign nationals living in the U.S.

### Multi-State Large Loss-of-Life Events

1492-1800 – North American Native American population decline, esp. disease	--~2,800,000
1616 -- unknown epidemic disease, natives, especially ~coasts of MA, ME, RI	--Thousands
1635 -- Aug 25, Great Colonial Hurricane, New England	-- 35
1689-90 -- smallpox, New England and NY, settlers and natives	-- ≥820-1,500
1699 -- yellow fever epidemics, Charleston, SC (170-311); Philadelphia (220)	--390-531
1713 -- Oct-1714, measles epidemic, Boston, MA (also CT, RI, NY, NJ, NH, PA)	-->109
1732 -- Smallpox, esp. Cheshire CT (~18) and Albany (68) & Kingston (22), NY	--104-118
1732 -- May-Oct, Yellow Fever outbreaks, Charleston SC (130-150), NYC (70)	--200-220
1735-1741 (esp. 1735-37), “Throat Distemper” (Diphtheria), <sup>973</sup> esp. CT ME MA NH	--5,000
1738-39 -- Smallpox, Catawba (NC/SC) and Cherokee Natives (NC)	--7,700-11,700
1747 -- “Throat Distemper (Diphtheria), MA (≥89) and Kensington, NH (48-52)	--137-≥141
1752 -- Sep 15, Hurricane, esp. Charleston, SC & Johnston, NC and maritime	-- 103
1760, Winter-Spring 1761; influenza epidemic, esp. Natives, esp. CT, MA, ME, PA	--hundreds
1764-65 -- Smallpox, esp. Iroquois, Shawnee, Lenape, Creek, Choctaw, Chickasaw	>1,800
1767 -- July, Chippewas attack two Baynton, Wharton, Morgan trade boats, Ohio River	-- 14
1773 -- Smallpox Epidemic, Philadelphia (300), Marblehead (~3) & Salem (17), MA	-- ~321
1775-82 -- Smallpox Epidemic North America	--84,000
1775 -- Sep 2-6, “Independence” Hurricane, NC, VA	-- 163
1776 -- Dysentery Epidemics, NY (especially northern NY), MA and NJ	-- ≥76
1778 -- Dec 26-27, Blizzard, New England, esp. MA and RI, brig <i>Arnold</i> , sloop <i>Stark</i>	-- ≥153
1792 -- July 1, Storm or Tornado, Philadelphia and NYC, Boaters Drown	-- ~40
1793 -- Dysentery, Coventry, CT, Caroline Co., MD, esp. Georgetown DC & vic.	--Hundreds
1794 -- Yellow Fever Epidemic, Baltimore, New Haven, CT, Philadelphia, PA	-- 264
1796 -- Scarlet Fever epidemic (especially children), Marblehead, MA and esp. VT	--681-846
1797 -- Yellow Fever Epidemic, New York City, Philadelphia, PA	--2,400
1798 -- Yellow Fever Epidemic, East Coast Port Cities	--10,000
1798 -- Nov 17-21, New England Blizzard and Maritime Storm	-- >200
1799 -- Yellow Fever Epidemic, Charleston SC, NY, Philadelphia, PA	--1,315
1800 -- Yellow Fever, esp. Baltimore, Charleston SC, Norfolk, Providence RI	--1,509-1,806
1801-02 -- Smallpox, Natives, esp. Chinook, Omaha, Osage, esp. Central, Northwest	-->9,090
1802 -- Yellow Fever Epidemic, Boston MA, Charleston SC, /Philly PA, Wilmington NC	-- 549
1803 -- Yellow Fever Epidemic, Alexandria VA, Charleston SC, NYC NY, Philly PA	--7,403
1804 -- Scarlet Fever (“Canker Rash”), Reading, Windsor County, VT (15), NYC (14)	-- 29
1804 -- Sep 7-9, Hurricane, esp. areas of Savannah, GA, Charleston, SC, maritime	-- ~500
1805 -- Yellow Fever Epidemic, New York City, Philadelphia, NY, PA	--3,740
1806 -- Aug 23, Hurricane, Off East Coast	-- 42
1807 -- Smallpox, New York City, NY (29 out of 2,312 deaths), Philadelphia (32)	-- 61
1811 -- Dec 16-Feb 7, 1812, earthquakes, New Madrid, KY, TN, NE AR, MO	--~379-1,000

<sup>973</sup> Referred to as throat distemper, and other names at the time, descriptions point to what was later named diphtheria. Scarlet fever occurred as well, with deaths, but sources indicate the major epidemic was diphtheria.



1812 -- Aug 19-20, hurricane, New Orleans, LA & VA	-- >100
1815 -- Sep 23, hurricane, "Great September Gale of 1815," NY, New England	-- >38
1815-16 -- winter, smallpox epidemic, Comanche Nation <sup>974</sup>	-->4,000
1817 -- yellow fever epidemic, Charleston, SC, New Orleans LA	--1,072
1817 -- Aug 8-9, downpour, flooding, Jones Falls area, Baltimore, MD/6, York, PA/10	-- 16
1818 -- yellow fever epidemics, esp. Charleston SC (115); New Orleans, LA (115)	-- 234
1818 -- Aug 15, tornado, Stafford County, VA to Charles County MD	-- 30
1819 -- yellow fever epidemic, Charleston SC/Natchez MS/Mobile AL/New Orleans LA	--2,821
1819 -- July 27-28, hurricane, LA, MS, AL	-- 43

### Multi-State Large Loss-of-Life Events (continued):

1820 -- yellow fever epidemic, New Orleans LA, NY, Philadelphia PA, Savannah GA	--1,018
1821 -- summer-fall, yellow F=fever, esp. Norfolk, VA (~160); St Augustine, FL (172)	-- ≥414
1821 -- Sep 3, hurricane, VA, MD, DE, PA, NJ, NY, MA, CT	-- >10
1822 -- yellow fever epidemics, Baton Rouge LA, New Orleans LA, NY, Pensacola FL	-- 788
1823 -- July-Nov 1, yellow fever, Key West/>32, Natchez, MS/337, New Orleans/239	-->613
1824 -- July-Nov, yellow fever, esp. Charleston SC (235); New Orleans LA (≥108)	364-373
1825 -- yellow fever, esp. Mobile, Key West & Pensacola, NOLA, Natchez, Washington MS--	428
1825 -- Oct 7, Miramichi and Maine wildfires	-- 300
1827 -- yellow fever, esp. Charleston, SC (64) & New Orleans (109) epidemics	-- ≥195
1828 -- yellow fever, esp. Charleston SC (26) Memphis (56) MS (90), New Orleans (150)--	332
1829 -- yellow fever epidemic, Mobile AL, Natchez MS, New Orleans LA	--1,120
1829-1834 (esp. 1833) -- unknown epidemic, West Coast Native Americans	--6,500-22,000
1830 -- July-fall, yellow fever, Charleston SC (39) & especially New Orleans (132)	-- 172
1831 -- slave insurrection, VA & NC border area	-- 55
1832 -- June-Dec 16, cholera epidemics, esp. DC/LA/MD/NJ/NY/OH/PA/VA	--16,781-18,491
1833 -- Feb, cholera epidemic	-- 662
1834 -- smallpox, New York City, NY (233) and Philadelphia, PA (195)	-- 428
1834 -- yellow fever epidemic, New Orleans (≥95), LA; Charleston (49), SC	-- 144
1834 -- May 05, tornado outbreak, VA and MD	-- 10
1834 -- ~July-Nov, cholera, esp. Baltimore, Cleveland, Detroit, Goliad TX, NYC	--≥2,010
1835 -- Apr-Aug, cholera, esp. Madison, IN; KY, esp. Russellville; New Orleans, TN	--590-601
1835 -- smallpox, especially New York City (351), Philadelphia (101)	-- 452
1835 -- Aug-Sep, yellow fever, Charleston SC (25-26); New Orleans LA (284-289)	--309-315
1837-38--smallpox, upper Mid-West Native tribes, especially Dakotas/MT	--10K~17,000
1837 -- yellow fever epidemics, Mobile AL, Natchez MS, New Orleans, LA	--1,072
1838 -- yellow fever, New Orleans LA (17), NY Marine Hosp. (8) Charleston SC (351)	-- 376
1838 -- May-March 1839, Cherokee Relocation, NE AL/NW GA/SE TN/NW NC to OK <sup>975</sup>	~4,000

<sup>974</sup> We note "greater than" 4,000 in that 4,000 is the estimated Comanche loss, whereas it has been written that the Kiowa, for example, lost to smallpox numbers in a ratio comparable to the Comanche.

<sup>975</sup> Also referred to as Cherokee Trail of Tears as well as a "forced-march" relocation. Geographic area of coverage comes from sources in Narrative document and map in Thornton (1990) from Morris, Goins and McReynolds ([1965] 1986:20), entitled "The Trail of Tears." Shows two Cherokee relocation routes from area encompassing north/northwest GA, southwest NC, southeast TN and northeast AL. One route is northwest through TN into KY,

1839 -- June-Oct, yellow fever, SC, FL, GA, TX, esp. Mobile, Natchez, New Orleans ---2,764

**Multi-State Large Loss-of-Life Events (continued):**

1840 -- Yellow Fever outbreak, Charleston, SC (22), New Orleans (3)	-- 25
1841 -- Yellow Fever, esp. FL & LA, esp. New Orleans, also Vicksburg, Charleston	--3,498
1842 -- July-Oct, Yellow Fever Epidemics, Mobile AL (66-77), New Orleans LA (211)-	285-289
1842 -- Nov 15-18, Great Lakes Storm, maritime losses, especially Lake Erie	-- >65
-- 8 "Brandywine (Schooner), aground, 15 Nov 1842."	
-- 6 "Caroline (Schooner), sunk?, 18 Nov 1842."	
-- 6 "Detroit (Schooner), aground, 15 Nov 1842." Lake Erie off Ontario Province, Can.	
-- 1 "Edwin Jenny (Schooner), aground, 15 Nov 1842." Lake Erie, Canadian shore.	
-- 8 "Emily (Schooner), lost, 18 Nov 1842." Capsized off Long Point, Can., Lake Erie.	
-- 9 "Jefferson (Schooner), aground, 18 Nov 1842." Grounded, Buffalo, NY, Lake Erie.	
-- 2 Jena (Schooner). Out of Detroit, lost two men off Grand River, Lake Michigan.	
-- 6 "Liguire (Schooner), aground, 15 Nov 1842." Point Abino, Canada side, Lake Erie.	
-- 2 "Merchant (Schooner), rudder damaged, 15 Nov 1842." Fairport Hbr., NY, Lake Erie.	
--10 "Milwaukie (Ship), aground, 18 Nov 1842." Near Kalamazoo Riv., mouth, Lake MI.	
-- 7 "N. Hubbard (Schooner), aground, 15 Nov 1842." Off Conneaut OH, Lake Erie.	
1843 -- July-Nov, yellow fever, esp. Mobile AL (240-750), New Orleans (487-700)	--758-1,481
1844 -- May-June, flooding, esp. IL, OH, KS, MO, Red, Upper MS and MO Rivers	-- 400
1844 -- yellow fever, esp. Galveston, TX (400); Mobile, AL (40); New Orleans, LA (148)--	590
1846 -- yellow fever epidemic, New Orleans, LA (146-160); also Mobile AL (4)	--151-165
1847 -- typhoid and typhus, New York City (1,396), typhus, New Orleans (154)	--1,550
1847 -- yellow fever, esp. New Orleans, also Galveston, Mobile, Pensacola, Vicksburg <sup>976</sup>	--≥3,400
1848 -- Dec, cholera, New Orleans, also MS Riv., Paducah KY, NYC, Port Lavaca TX	--1,159
1848 -- yellow fever, Mobile AL/~76, New Orleans/850-872, NY Marine Hospital/12	--937-960
1849 -- cholera, esp. OH (>7K); NY (>6K); Gold Rushers (~5K); Natives (~6K) <sup>977</sup>	->45K-51,428
1849 -- summer-fall, heat/sunstroke, esp. MA (63), NY (56), PA (26), LA/25, MO/11	-- 248
1849 -- Aug-Dec, yellow fever, Charleston SC/125, Mobile AL/50, New Orleans/737	--912-944
1850 -- Croup (contagious upper airway viral infection)/diphtheria, esp. OH/NY/PA	10,706
1850 -- Dysentery, esp. NY/3691, PA/2683, OH/2568, MA/2437, IN/1270, CT/965	20,556
1850 -- Measles, especially NY/505, OH/363, PA/316, VA/222, MO/189, IN/163	--2,988
1850 -- Scarlet Fever, esp. PA/1,974, OH/1,301, NY/1,028, MA/571, MD/561, VA/523	--9,584
1850 -- Scurvy, especially MO/18, NM Territory/5, OH/5, LA/NY/VA/4 each, IA/3	-- 54
1850 -- Smallpox, esp. OH/551, NY/276, MA/232, PA/208, KY/150, MD/144, IN/140	--2,352

westward to southern IL, then down into southeastern MO, into northern Ark. and then westward into OK. Second route was westward through TN and AR to OK.

<sup>976</sup> Was in at least 10 Louisiana locations other than New Orleans; also in six known locations other than Vicksburg in Mississippi; was in Memphis, TN, and Brazos, Houston and Matamoros, Texas. Mostly late Summer and Fall.

<sup>977</sup> There were outbreaks in other States (see narrative document). Our sources could not have had access to all cholera deaths in areas of coverage. Collins and Collins write in *History of Kentucky*, there were many more deaths in the smaller towns and the countryside than they were able to chronicle. This must have been true all up and down routes of river and rail traffic as well as in the wagon trains heading west during the Gold Rush. In addition, part of the explanation for the range has to do with what was called a death by cholera or a death caused by cholera-like symptoms, such as diarrhea or dysentery (interestingly co-incident in epidemic form during a cholera outbreak).

1850 -- tuberculosis (consumption), esp. NY/6,691, PA/3,520, MA/3,426, OH/2,558	33,516
1850 -- typhoid fever, 31 States, Washington, DC, four Territories	13,099
1850 -- whooping cough, esp. NY/649, OH/450, GA/385, AL/305, PA/288, SC/269	--5,280
1850 -- yellow fever, Jan-Oct, esp. Jefferson/Orleans Parishes/New Orleans, LA and SC <sup>978</sup>	-- 862
1851 -- June-Aug esp., cholera, esp. St. Louis, IL, New OrL., Cincinnati, SD Sioux	--3,314-3,322
1851 -- smallpox, esp., NYC/562-586, Philadelphia/316; Augusta GA/7, Chicago/5	--895-909
1852 -- cholera, esp. NY/1.3K, IL/1.2-1.3K, New Orleans/1K-1.3K, MO/~1K	--4,381-4,736
1853 -- May-Dec, yellow fever, esp. AL/1293, LA/~15K, MS/1311 TX/871	--18,770-19,533
1853 -- Aug 9-15, heatwave, NYC/Boroughs/323, Boston, Jersey City, NJ, Philadelphia	-- 383
1853 -- Sep 6-7, hurricane, western Atlantic	-- 40
1854 -- cholera, esp. NYC/2.5K, St. Louis/1.5K, Chicago/1.4K, Detroit, Boston	--10,275-10,467
1854 -- yellow fever, esp. AL, FL, Charleston/627 Galveston/404 New Orleans/2500 Savannah/580-4,313	
1854 -- Sep 07-13, hurricane, mid-Atlantic coast	-- 26
1855 -- May-Aug, cholera, IL//KS/KY/MO/OH/WI, esp. New Orleans/883	--1,797-1,869
1855 -- June-Nov, yellow fever, esp. New Orleans/2,670; Norfolk/Portsmouth, VA/3K	--6,059
1856 -- Aug-Sep, yellow fever, Charleston SC/212-266, New Orleans/74, NY/12	--304-358
1857 -- June-Dec, yellow fever, Charleston SC, Jacksonville FL/127, New Orleans/199	-- 353
1857 -- Nov 18, storm, approx.. twenty coal boats sink, Ohio and Miss. Rivers ~Cairo IL	-- ~100
1858 -- Jun-Dec, yellow fever, esp. Charleston SC; Galveston & Indianola; New Orleans/4855	--6,490
1859 -- yellow fever, esp. Galveston/186, Houston/22, TX, New Orleans/91, LA	-- 337

#### Multi-State Large Loss-of-Life Events (continued):

1860 -- Croup (contagious upper airway viral infect.), esp. NY (1,797), PA (1,326), IL (1,158)	--15,188
1860 -- Measles, esp. NY (746), OH (448), MO (246), PA (217), LA (216), IN/196--3,809-3,900	
1860 -- Scarlet Fever, 38 Census Reg. States/DC, esp. NY/4680, OH/3417, PA/3156	--26,402
1860 -- Smallpox, esp. MA/473, NY/303, OH/135, PA/87, ME/56, VA/24	--1,263-1,271
1860 -- Tuberculosis (consumption), esp. NY/8199, PA/5011, MA/4845, ME/2169	--49,082
1860 -- Typhoid Fever, 38 Census Reg. States/DC, esp. PA/1,344, IL/1,183, MO/1,056	--19,236
1860 -- May, Tornadoes, Louisville, KY to Portsmouth, OH	-- 75
1860 -- June 3, Tornadoes, IA/117, esp. Camanche/~42, Albany area, IL/31, MS Riv./23-171-175	
1861-65--Apr-June, Dysentery, Civil War, apparently Union and Confederate forces	~95,000
1861-65--Apr-June, Malaria, Civil War, Union/10K & Confederate/20K forces	~30,000
1861-65--Apr-June, Measles, Civil War, Union and Confederate troops	~11,000
1861-65--May-June, Scurvy, white Union troops (non-POWs)	-- 383
1861-65--May-June, Smallpox, Union soldiers and Confederate prisoners <sup>979</sup>	--9,682
1861-65--Apr-June, Tuberculosis, Civil War, Union/6,946 deaths, Confederate/?	~14,000
1861-65--Apr-June, Typhoid Fever, Civil War, Confederate/Union forces	~65,000
1861 -- Nov 02, Hurricane NC, MA	-- 33
1862 -- Jan-March, Flooding, CA, OR, WA, British Columbia	~1,000
1862 -- Yellow Fever, esp. Wilmington NC/>653; TX coast/≥328; Key West FL/86--1,131-1,679	
1863 -- Smallpox, esp. DC/700, Camp Chase OH, Fort Delaware DE, Baltimore/IL/PA	--2.3K--2,490

<sup>978</sup> Seventh Census data supplemented by addition of at least 97 yellow fever deaths in New Orleans Aug-Sep.

<sup>979</sup> There is overlap with our 1863 entry (1,078 deaths) which includes Fort Delaware, Camp Chase, MD, and VA.

1864 -- Smallpox, Fort Alton IL, Chicago/283, Philly/260, Northern VA/112, SC, DC	-- 712
1864 -- yellow fever, esp. New Bern NC/1,359, Charleston, SC/700, Galveston, NOLA	--2,414
1865 -- smallpox, esp. NYC/≤664, Philly/524, SC/GA/FL Sea Islands/~800 <sup>980</sup>	--2,500-2,510
1865 -- typhus/typhoid NYC/1,075; Typhoid/Chicago/190 and Philadelphia/773	--2,038
1865 -- Apr 27, steamer <i>Sultana</i> boiler explos./fire, Miss. Riv., Redman Point, AR <sup>981</sup>	--1,547-1,947
1866 -- May-Dec, cholera, esp. Cincinnati/New Orleans/NYC/St. Louis/TN/Philly/Army	---16K-17,742
1866 -- Aug-Nov (esp.), yellow fever outbreaks, especially New Orleans, LA (185)	-- 211
1867 -- June-Dec, cholera, esp. St. Louis, New Orleans, KS, OK, Chicago, US Army	--2,145
1867 -- July-Dec, yellow fever, esp. New Orleans, Galveston/Houston; also AL/FL/MS/TN	--10,012
1868 -- July 6-18, excessive heat/sunstroke, esp. NY/313, St. Louis/45, OH/42	-- 552
1869 -- Oct 04, hurricane, coastal New Brunswick, Canada, NY, ME	-- 37

### **Multi-State Large Loss-of-Life Events (continued):**

1870 -- Croup, Nationwide	10,692
1870 -- Diarrhoea (14,195), Dysentery (7,912) and Enteritis (9,046)	-->31,153
1870 -- May-Dec, Yellow Fever, esp. New Orleans/587 Mobile/173 Brunswick, GA/112	--1,038
1871 -- Smallpox, esp. Philadelphia/1,879, Cincinnati/1,179, NYC/805, Chicago/73	--4,505
1871 -- July 30-Dec 18, Yellow Fever, esp. MS/143, Charleston SC/213, New Orleans/55--	454
1871 -- Oct 8-9, Wildfires, both sides Bay of Green Bay, esp. Peshtigo; Birch Creek, MI-1,228-2,400	
1872 -- Smallpox, esp. Philly/2591, NYC/1666, St. Louis/1600, Baltimore/1217, Boston/1K	-->9,742
1872 -- July 11-Nov 19, Yellow Fever, New Orleans, LA/~40; Galveston, TX/10	--50-51
1873 -- Feb-Sep, Cholera, esp. TN/>2K esp. Nashville/~1K, KY/~1K, St. Louis/529	--5814-6519
1873 -- Smallpox, esp. Boston/668, Baltimore/631, Chicago/515, NYC/117, Charleston/106--	2,201
1873 -- Yellow Fever, Calvert TX, AL, Memphis TN, New Orleans, Pensacola FL	--3,313
1874 -- Scarlet Fever, esp. NYC/879, Cincinnati/687, Brooklyn/479, Philly/461, VT/400	--3,891
1874 -- Aug 17-Nov 9, Yellow Fever, Pensacola, Warrington, Woolsey, FL/381; also N.O.--	398
1875 -- Smallpox, esp. New York City (1,899), Cincinnati (745), Philadelphia (54)	--2,770
1875 -- Tuberculosis/consumption; data on Chicago/880, MI/1419, NYC/4172, Philly/2359-8,830	
1875 -- March 20, Southeastern Tornado Outbreak	-- 93
1876 -- Smallpox, 10 data-points, esp. Cincinnati/~930, SF CA/482, Philly/407, NYC/315--	~2,500
1878 -- June-Dec, Yellow Fever, esp. LA (esp. New Orleans), MS, TN (esp. Memphis)	~20,000
1878 -- Oct 9-13, Tropical Cyclone, Coastal New England	-- 27
1879 -- May 30, Tornadoes, MO, KS, NE	-- >40
1879 -- June-May 1880, Diphtheria, esp. PA/4.6K; IL/3.7K; NY/2.3K; IA/2.3K, ME/MI/WI-38,143	
1879 -- June-Dec, Yellow Fever, Forest City, AR, Louisiana, MS, Memphis, TN	--682-786
1880 -- Smallpox, esp. TX/517, Philadelphia/429, Camden NJ/47 Chicago/43, NY	--1,281
1880 -- Jan 9, Wind Storm, "Storm King," Pacific Northwest, OR, WA	-- 5
1881 -- Diphtheria, esp. NY/3.7K (NYC/2249, Brooklyn/1143), MI/2K, MA/1K, NJ/972	10,886
1881 -- Smallpox, esp. Philly/1336, Chicago/1180, NYC/503, Pittsburgh/448, HI/282	--5,275
1881 -- June 12, Tornadoes (4), KS and MO	-- 15

<sup>980</sup> This does not take into account hundreds of smallpox fatalities in military ranks and especially military prisons.

<sup>981</sup> While the loss was near the Arkansas shore and in Arkansas side of the Mississippi, we include this loss as multi-state in that the steamer was carrying paroled Union troops from multiple Union and northern states. Estimates are that 491 deaths of soldiers from Indiana, 194 from Kentucky and 791 from Ohio.



1881 -- July 6-16 esp., heat/sunstroke, esp. OH/585 (Cincinnati/456), also Pittsburgh	-- ≥687
1881 -- Aug 27, Hurricane, northeast GA, esp. Savannah/southeast SC/maritime	-- ~700
1882 -- Jan-Mar, Mississippi River Flood	-- 34
1883 -- smallpox, esp. New Orleans/1,079 Baltimore/633 Cincinnati/189 Chattanooga/103	--3,136
1883 -- May 13, tornado outbreak, KS and MO	-- 10
1883 -- May 18, tornado outbreak, IL and WI	-- 62
1884 -- Feb 19, tornadoes, MS-AL, AL-GA, KY, GA-SC	-- 37
1884 -- Mar 25, tornadoes, NC, GA, KY, OH, IN	-- 19
1884 -- Apr 01, tornado, OH/IN/TN/Western PA	-- 12
1885 -- diphtheria & croup, localities in 16 states; esp. NY/4508, MI/1552, NJ/1496	--10,788
1885 -- Aug 24-26, hurricane, FL/1, GA/2, NC, SC/21, New England, Atlantic/1	-- 25
1886 -- Apr 14, Tornadoes (4), IA, NE, MO	-- 13
1887 -- diphtheria, esp. NY/6490 (NYC/4509), Chicago/1405, St. Louis/1112, Philly	--14,507
1887 -- Apr 21, tornado, Anderson, Linn Counties, KS; Bates County, MO	-- 21
1887 -- Apr 21, tornadoes, AR, IL-IN	-- 11
1888 -- Jan 12, blizzard and extreme cold, especially Dakota Territory, MN & NE	--315-500
1888 -- Mar 11-14, Mid-Atlantic/New England Nor'easter, esp. NY/MA/maritime	--298-301
1888 -- July-Dec, yellow fever epidemic, FL esp. Jacksonville/430; Decatur AL/35	-- 546

#### **Multi-State Large Loss-of-Life Events (continued):**

1889 -- Sep 9-12, hurricane/severe storms mid-Atlantic coast, esp. DE/VA/MD/PA/NJ/NY-40-50	
1889-90, June-May, Croup, 48 States & DC, esp. NY/1.5K, PA/1.4K, IL/957, MO	13,862
1889-90, June-May, Diphtheria, 48 States & DC, esp. NY/4K, PA/2.9K, IL/2.6K	27,815
1889-90, June-May, Measles, esp. NY/757, PA/676, KY/513, MO/513, OH/714, AL/496	--9,256
1889-90, June-May, Smallpox, especially NM/231, TX/88, NY/13, and CT/12	-- 398
1889-90, June-May, Typhoid (Enteric) Fever, esp. PA, 2.8K, NY/1.7K, IL/1.7K, OH/1.6K	27,058
1890 -- Jan-Mar <sup>982</sup> influenza (La Grippe/Russian Flu), esp. NY/IL/CT/OH/PA	--16,295-17,807
1890 -- Jan 12, tornado, New Madrid County, MO, Hickman County, KY	-- 11
1890 -- Mar 27, tornado, MO-IL, IL, MO-KY, MO-IL, KY-IL-KY, TN	-- 47
1891 -- March-May, Influenza & Pneumonia, esp. Chicago/6,800, NY/5,572	12,472
1893 -- Mar 23, tornadoes, Clarke/Desoto MS; Richland, LA; Shelby/Weakley, TN	-- 16
1893 -- Aug 27-29, hurricane, Sea Islands, SC-GA	--1,000-2,500
1893 -- Oct 11-13, hurricane and remnants, esp. FL/3, GA, SC/22, NC/4, NY/4	--28-33
1894 -- diphtheria, NY/6.6K, esp. NYC/2785, MA/1.5K, Chicago, 1.4K, Philly, NJ	14,606
1894 -- smallpox, esp. Chicago/1033, WI/325, esp. Milwaukee/244; NY/147	--1,752
1894 -- May 15-18, Great Lakes storm, esp. Lake Mich., 23-28 Ships Founder	--27-35
1894 -- June 27, windstorm, MN & SD	-- 10
1894 -- Sep 01, wildfire, WI, MN (Hinckley)	-- 440
1894 -- Sep 21, tornadoes, IA, MN	-- 63

<sup>982</sup> Technically, what became the flu epidemic of early 1890 began in late December 1889.

1896 -- measles, esp. NYC/714, Brooklyn/333, Philadelphia/191, Cincinnati/100, CT --3,178  
 1896 -- smallpox, esp. New Orleans (238), Shreveport LA (11), Detroit (11), Dayton (8) -- 279  
 1896 -- May 17, tornado, Palmer, KS to Falls City, NB -- 25  
 1896 -- May 25, tornadoes, IL, MI -- 47  
 1896 -- May 27, tornadoes IL and MO. Particularly St. Louis, MO -- 306  
 1896 -- Aug 1-14~, heat, esp., NY/891, IL/238-277, PA/180-226, NJ/168, MO/81, WI/77 --2,038  
 1896 -- Sep 28-30, hurricane, FL/~100, GA/38, SC/30, NC/1, VA/13, MD/8, DC/3, PA/6 -- ~199

**Multi-State Large Loss-of-Life Events (continued):**

1897 -- typhoid (enteric) fever, esp. NY/1.5K, OH/1.2K, MA/1.1K, IN/655, PA/803 -->9,192  
 1897 -- July 01-11, heat, esp. upper midwest/NE, esp. Chicago/Cincinnati/St. Louis --608-616  
 1897 -- Sep-Dec, yellow fever, esp. Mobile/48, New Orleans/298, MS, Memphis TN -- ~520

1898 -- typhoid, esp. June-Dec, Spanish War Army camps and civilians, esp. Philly -->4,627  
 1898 -- May 5-11, flooding, esp. Grand, Verdigris, Ark., Canadian Rivers, AR, OK -- >10  
 1898 -- May 18, tornadoes, IA, IL, WI -- 53  
 1898 -- Aug 23-Nov 18, yellow fever, LA, especially New Orleans (57); MS (80) -- 175  
 1898 -- Oct 2, hurricane, GA, SC, NC -- 179  
 1898 -- Nov 26-27, Portland Gale, NY/10 & MA/~190 maritime, esp. *SS Portland*, MA -- ~300  
     --127-176 side-wheel steamer, *SS Portland*, off Cape Cod.  
     -- 15 *F. R. Walker*, fishing schooner, off Cape Cod.  
     -- 16 steamer *Pentagoet*, off Cape Cod.

1899 -- Jan 29-Feb 14, Arctic cold, snow, blizzards, esp. east and south of Rockies -- 190  
 1899 -- July-Dec, yellow fever, esp. Key West/68 Miami/14; New Orleans/23; MS, VA -- 126

1900 -- croup (Upper airway viral infection), esp. PA/1064, TN/958, KY/768, GA/686 --12,484  
 1900 -- diphtheria, esp. PA/2805, NY/2673, IL/1504, MA/1072, OH/698, NJ/678 --16,475  
 1900 -- dysentery, esp. AL/861 TX/794 GA/781 NY/676 TN/663 SC/578 AR/541 --11,710  
 1900 -- influenza, esp. MA/1130, TN/1019, PA/978, NC/799, AL/778, VA/754, GA/667 --16,645  
 1900 -- malarial fever, esp. AR/1,730, TX/1,331, LA/1,030, AL/1,005, GA/1,001 --14,874  
 1900 -- measles, esp. TX/1,412, AR/1,274, NY/1,174, MS/950, PA/815 & TN/974 --12,866  
 1900 -- meningitis, esp. NY/2602, PA/1613, IL/1318, MA/1206, OH/1189, NJ/909 --19,423  
 1900 -- scarlet fever, esp. PA/894, NY/812, TX/707, IL/643, MA/384, OH/334 --6,333  
 1900 -- smallpox, esp. MS/782, LA/708, NM/287, VA/263, AL/224, AR/195, TX/146 --8,484  
 1900 -- whooping cough, esp. NY/988, PA/702, TX/576, IL/497, AL/494, TN/425 --9,958  
 1900 -- July-Aug (esp.) heat, esp. NY/361, NJ/119, Chicago/102, St. Louis/90, PA/90 --1,266  
 1900 -- Nov 20, tornado outbreak, MS, TN -- 69

1901 -- smallpox, esp. NY/436 (Bronx/312), PA/202 (Philly/178), NJ/139 (Newark/71) --1,085  
 1901 -- Mar 09, tornado outbreak (5), AR, TX -- 14  
 1901 -- June-July, heat waves, except Pacific NW, esp. Northeast, June 27-July 6 --4,012

1902 -- smallpox, esp. NJ/432, NYC/310, MA/283, Cleveland/233, Philly PA/231 --2,111  
 1902 -- June-Aug (especially July ) heat, especially NY/46, Pittsburgh/18, MA/12 -- 290

1902 -- Sep 9-15, forest fires, NW OR and esp. Clark/Cowlitz counties, southwest WA	--58-65
1903 -- smallpox, especially PA/747, IN/195, IL/135, OH/134, Rochester NY/24	--1,457
1903 -- June-Aug (esp. July 1-11), heat, esp. NY/144, NJ/60, IN/17, Chicago/15, CT/18	-- 520
1903 -- Oct 3, tornadoes (3), MN-WI, WI, IL	-- 17
1903 -- Dec 25-Jan 6, 1904, blizzards, snow, wind, arctic cold, esp. MA & NY	--75-77

**Multi-State Large Loss-of-Life Events (continued):**

1904 -- Cerebrospinal Meningitis, esp. NYC/1,083-1,403, Hartford, CT/108, NJ/245	--3,284
1904 -- June-Aug, Heat, especially NY (48), MA (25), NJ (25) and MI (12)	-- 235
1904 -- Sep 14-15, hurricane, NC to MA; DE/9, MD/3, MA/1, NJ/11, NY/2, SC/8-14	--35-41
1905 -- Cerebrospinal Meningitis Epidemic, esp. NYC/1511-2025; also CT/NH/NJ/MA	--5,114
1905 -- Tuberculosis (10 registration states, DC, 134 non-registration cities), esp. NY	56,770
1905 -- Mar 20, Tornado, Chambers/Randolph Counties, AL; Heard County, GA	--14-17
1905 -- May 21-Nov, Yellow Fever, esp. LA (esp. New Orleans 455), Pensacola, MS	--1,131
1905 -- Oct 19/20, Great Lakes storm, at least 27 wood vessels lost, esp. <i>Kaliyuga</i> -- $\geq 44$	
-- 5 <i>Emma L. Neilsen</i> , schooner, stranded, Presque Isle Bay, MI, Lake Huron.	
-- 2 <i>John V. Jones</i> , schooner, Lake Michigan.	
-- 1 <i>Joseph S. Fay</i> , steamer, near Rogers City, MI, Lake Huron.	
--17 <i>Kaliyuga</i> , steamer, lost, last seen 5m off Presque Isle, MI, Lake Huron.	
-- 9 <i>Minnedosa</i> , schooner (Canadian), foundered off Harbor Beach, MI. L. Huron.	
-- 2 <i>Sarah E. Sheldon</i> , schooner, off Loraine near Lincoln, OH, Lake Erie.	
-- 8 <i>Tasmania</i> , schooner-barge, foundered, SW Shoal, Pelee Island, Lake Erie	
1906 -- epidemic cerebro-spinal meningitis, esp. NY/1,117 (NYC/600), PA/385, MA	--3,258
1906 -- Sep 27, hurricane, Miami, Alabama, MS, Northwest FL	-- 134
1906 -- Nov 21-22, Great Lakes storm, U.S. and Canadian losses (esp. maritime)	--38-39
1907 -- measles, Census "Registration" states and localities	--4,302
1907 -- influenza, Census "Registration" states and localities	$\geq 10,066$
1907 -- whooping cough, Census "Registration" states and localities	--4,856
1907 -- Mar 13-18, flooding, numerous rivers, Southern OH, Western PA, WV	-- ~76
1908 -- Apr 23-25, tornadoes, AL/37-38, AR/6, GA/30, LA/85, MS/ $\leq 139$ , NE, TX/8--324	
1908 -- polio outbreak, esp. summer-fall, IA, MA, MI, MN (13), VA, esp. WI (61)	-- 87
1909 -- polio (acute), especially MA (74), MN (30) and NE (135) ND (19)	-- 569
1909 -- smallpox, 29 reporting States and the District of Columbia	-- 132
1909 -- Feb 05, tornado outbreak, AL, AR and MS	-- 14
1909 -- Apr 29, tornadoes, AL, AR, AR-TN, IL, MO, MS, MS-TN, TN, TN-AL	-- 105
1909 -- May 29, tornadoes (4), OK and ND	-- 15
1909 -- July 7-9, flooding, Missouri Valley, NW MO, KS, SE Neb., western IA	-- 11
1909 -- Oct 14, tornado outbreak, esp. AL (11-21), AR (2), GA (1-2), TN (42-50)	--56-75

1910 -- anthrax, CA, CO, DE, IN, ME, MD, MA, NY, OH, and esp. PA (7)	-- 22
1910 -- smallpox, 29 reporting States and the District of Columbia	--403-427
1910 -- typhoid fever, avg. death rate 23.5; esp. NC, 57.7, CO/41.9, MD/40.7, MT/39.9	--25,000
1910 -- July 3-5, race riots, result of Jack Johnson defeat of Jim Jeffries	--18-24
1910 -- Aug 20, wildfire, Great Idaho (Devil's Broom) ID, MT, WA	-- 86
1910 -- Oct 17-20, hurricane, Key West, FL to NC	-- 30

### Multi-State Large Loss-of-Life Events (continued):

1911 -- anthrax, CA (2), CT (2), DE, IN, LA (2), MA, NY, OH, PA (2), VT	-- 14
1911 -- polio, US Registration Area (63.1%), esp. OH/137, NY/101, PA/93, IN/69, KY/61	--1,060
1911 -- smallpox, 29 reporting States and DC, esp. TX/51, KS/26, and CA/10	-- 134
1911 -- heat waves/excessive heat deaths, esp. June 4-23, July 1-13, esp. MW, NE	--~2,190
1911 -- Mar 09-15, race strike violence, Queen & Crescent Rail, KY, TN	-- 20
1911 -- Apr 12, tornadoes, AR, KS, OK, OK-KS-MO	-- 14
1911 -- July 28, New England coastal storm, vessels lost (esp. <i>Nokomis</i> ), esp. MA	-- 11
1911 -- Aug 27-29, hurricane, FL (1), GA, SC (28) (includes schooner May loss)	-- 29
1912 -- anthrax, DE, KY (3), MA (2), MN, MO, NJ, NY, OH (3), PA (4)	-- 17
1912 -- measles, US "registration area" (~65% population), NYC (671)	--4,240
1912 -- polio, acute anterior, code 63; Census "registration area" was 63.2% of pop.	--1,081
1912 -- smallpox, 35 States/DC, esp. TX/128, Pittsburgh/33, CA/16-19, VA/19	--301-307
1912 -- Jan 3-19 esp., cold-waves/snow/blizzards, esp. IL/36, NY/31, OH/14, PA/31	-- 228
1912 -- late Mar-May, flooding/levee failures/boats capsize, esp. MS River, esp. LA, MS	--~200
1912 -- Apr 20, tornadoes (9), KS, OK, TX	-- 17
1912 -- Apr 21, tornadoes (6), IL, IL-IN, IN	-- 30
1912 -- June 15, tornado, Linn, Miami Counties, KS; Bates, Cass Counties, MO	-- 11
1913 -- anthrax, CA, CT, DE/2, MA/3, MN, MO, NY/4, OH, PA/8, VA, WA, WI	-- 25
1913 -- measles, US "registration area" (65.1%), esp. PA/1,578, NY/1,120, OH/679	--8,108
1913 -- polio, acute, esp. June-Sep (Sep peak), US "registration area" (65.1% pop.)	-- 864
1913 -- March 13, tornadoes (8), AL, AL-TN, LA, LA-AR, MS, TX	-- 35
1913 -- March 23, Easter Sunday tornados, LA, MO, esp. Omaha, NE, IN, IA	--194-196
1913 -- Nov 8-10, Great Lakes storm, esp. Lake Huron, 12 crews lost --US 172-192 of 254-277	
1914 -- anthrax, CA, CT, DE, LA, ME, NE, NJ (2), NY, OH (2), PA (6), VA, WI	-- 19
1914 -- measles; US state and local "registration area" (66.8% of pop.), esp. DE/AL	--4.461
1914 -- polio (acute anterior), esp. late sum.-fall, esp. children, esp. NY/88, PA/65, VT/54	-- 720
1914 -- May 11, boiler scalding, steamer <i>Jefferson</i> , from Norfolk, VA to NYC	-- 11
1914 -- Oct 09, tornadoes (4), Elk, Wilson, Cherokee KS; Ottawa County, OK	-- 12
1915 -- anthrax, CA/2, CO, CT/3, IN, LA, MA/4, MN/2, MT, NJ, NY/14, PA/4, UT	-- 35
1915 -- polio, esp. late summer-fall, US registration area (67-1% pop.) esp. children	-- 691
1915 -- May 06, tornadoes, MS, LA, TN	-- 16
1915 -- May 07, tornadoes, SC and MS	-- 10
1915 -- June 12, tornadoes, Alamance, Sauk Counties WI; Crawford County, IA	-- 10



1915 -- July 07, tornadoes and windstorms, IL/1, IN/3, KY/1, MO/7, Cincinnati OH/38 -- 50  
 1915 -- Aug 16-17/19-20, hurricane/trop. storm, Gulf, SE TX coast, remnant, MO --453-510

### **Multi-State Large Loss-of-Life Events (continued):**

1916 -- anthrax, CT, IL, KY (2), MA (5), MI (2), MO, NY (4), NC (2), PA (7), TX/2, WA-- 28  
 1916 -- Diphtheria --17,000  
 1916 -- Influenza --18,886  
 1916 -- July-Sep esp. polio, esp. NYC/NY (3,331), NJ (1,180), PA (414) --6,745->7,000  
 1916 -- May 20, tornadoes (2), TX and TX-OK -- 11  
 1916 -- June 05, tornadoes (3), AR-MO, AR-TN, MO-IL, MS -- 12  
 1916 -- June 05, tornado outbreak (34), AR/IL/MO/MS/TN -- 87  
 1916 -- July 4-10, hurricane, Gulf of Mexico and Gulf States -- 34  
 1916 -- July 15, tropical storm, SC and NC -- 80

1917 -- Anthrax, esp. CA/6, CO/2, KS/2, MA/11, NJ/6, NY/12, PA/10, WI/2 -- 62  
 1917 -- Influenza/12,974; Bronchitis/12,311; Pneumonia/74,874 100,159-115,526  
 1917 -- Polio, Census area (27 States/DC/43 cities), esp. Chicago/177 OH/128 VA/69 VT/15  $\geq$ 1,182  
 1917 -- Mar 23, tornadoes, IL, Jefferson Co., KY, esp. New Albany, Floyd Co., IN -- 46  
 1917 -- May 27, tornado, Lake County, TN; Fulton, Hickman, Graves Counties, KY -- 67  
 1917 -- June 06, tornadoes, MI, PA, KY -- 12

1918-1920 -- Influenza and Pneumonia Pandemic -- Nationwide ~820,000-850,000  
 1918 -- Typhoid Fever, 33 Registration States, DC and Puerto Rico, esp. TX/1,057 --9,100  
 1918 -- May 9, Tornadoes, IL and IA -- 14  
 1918 -- Aug 2-14, esp. 6-8, Heat wave, esp. Upper Midwest, Mid-Atlantic, Northeast -- 294  
 1918 -- Sep-April 1919, Influenza Pandemic, Nationwide --675,000  
 1918 -- Oct 13-15, Forest Fire, Cloquet, MN & WI --400-1,000

1919 -- Diphtheria, 31 reporting states, DC & PR, esp. CT, DC, IL, MI, NJ, NY, OH --9,160  
 1919 -- Influenza Epidemic --84,113-101,851  
 1919 -- Polio (Acute). Especially late Summer and Fall, especially children -- 747  
 1919 -- Mar 05, Tornadoes, AL and GA -- 10  
 1919 -- Mar 16, Tornado, LA-MS -- 17  
 1919 -- Late Aug-Oct 18, Botulism, canned Cal. Olives, Canton OH, Detroit MI, Java MT-17-19  
 1919 -- Sep 2-15, Hurricane, Florida Keys, LA, AL, TX -- 900  
 1919 -- Dec 11, Heavy Rain, Flooding, GA, AL, MS -- 15  
 1919 -- Dec 25-30, Wood Alcohol Poisoning, esp. Chicopee MA, Hartford CT, NJ/IL/PA - -128-136

1920 -- diphtheria, esp. Detroit, Fall River, MA, Bridgeport, CT, St. Louis --13,395  
 1920 -- dysentery, 33 registration states --3,574  
 1920 -- influenza (62,097) and pneumonia (120,108) --182,205  
 1920 -- malaria, esp. MS/683, LA/586, SC/487FL/344, NC/210 and TN/183<sup>983</sup> --3,136

<sup>983</sup> Based on death certificate data from 34 "registration states" as well as 17 cites in non-registration states of AL, GA, ND, OK, TX and WV, with an estimated population of 87,45,921 or 82.3% of total estimated U.S. and Hawaii territory population. AK was not a State. Other non-reporting states were AZ, AR, ID, IA, MN, NM, SD, and WY.

1920 -- measles, 34 registration states, esp. NY/1,177, PA/1,153, OH/750, IL/496 <sup>984</sup>	--7,712
1920 -- scarlet fever, esp. PA/497, NY/474, OH/383, IL/370, MI/303, MA/218, DE <sup>985</sup>	--4,004
1920 -- smallpox, 34 registration states, esp. LA/167, MS/45, MO/28, NC/28	-- 508
1920 -- tuberculosis, esp. Denver, San Antonio, Nashville, New Orleans	99,916
1920 -- typhoid fever, esp. PA/503 KY/490 OH/435 TN/434 IL/380 NY/SC/379 <sup>986</sup>	6,805
1920 -- whooping cough, esp. PA/1,195, NY/1,063, OH/845, IL/553 MA/536 <sup>987</sup>	10,968
1920 -- Mar 11, tornado, Carroll County, AR and Taney County, MO	-- 10
1920 -- Mar 28, Palm Sunday tornadoes, esp. GA/37 OH/29 IL/28 IN/28 AL/18, MI/13	-- 154
1920 -- Apr 20, tornadoes, MS, AL [Total]	-- 223

### Multi-State Large Loss-of-Life Events (continued):

1921 -- Jan 20, Steamer <i>Hewitt</i> sails from Sabine TX for Boston MA, Lost	-- 42
1921 -- Apr 21, Tornado, Northeast TX and AR	-- 61
1921 -- Dec 23, Tornadoes, AR, MS	-- 11
1921 -- Dec 24, Tornadoes, LA, MS	-- 14
1922 -- Polio (Acute), especially late Summer and Fall, especially children	-- 790
1922 -- Mar 14, Tornadoes, AR, LA, MS	-- 14
1923 -- Polio (Acute), especially late Summer and Fall, especially children	-- 850
1924 -- Polio (Acute), especially late Summer and Fall, especially children	--1,079
1924 -- Dec 24-29, Cold waves/Winter Weather-related deaths, esp. IL/12 and OH/9	-- 51
1925 -- Anthrax, CA/2, CT, DE/3, IL, IN, LA/2, MA, MS, MO, NJ, NY/2, OR, PA/4, WA--	22
1925 -- Cold, excessive, esp. IL/18, NY/18, PA/17, MI/15, VA/14, OH/11, WI/11	-- 239
1925 -- Diphtheria, esp. NY/1,006, PA/973, IL/409, OH/392, MI/360, NJ/337 MA/334	--8,058
1925 -- Dysentery, esp. KY/297, WV/213, LA/211, SC/211, TN/207, VA/196	--3,257
1925 -- Excessive Heat, especially NY (439), PA (299), NJ (112), CA (69), MA (65)	--1,587
1925 -- Influenza--esp. PA/2,068, OH/2,100, IL/1,558, IN/1,485, MO/1,464	--30,538
1925 -- Malaria, esp. MS/426, FL/338, AL/306, LA/256, MO/189, SC/183, TN/155	--2,132
1925 -- Measles, 40 Registration states, esp. PA/503, MA/349, NY/323, IL/217, NJ/124	--2,404
1925 -- Meningococcus meningitis, esp. NY/148, PA/79, IL/56, OH/53, MA/51	--1,095
1925 -- Polio, esp. late Sum.-Fall, esp. children, esp. NY/208, CA/149, MN/140	--1,519
1925 -- Scarlet Fever, esp. PA/343, IL/279, OH/252, MI/216, NY/191, MO/169	--2,762
1925 -- Scurvy, 24 States, especially PA/7, NY/6, VA/6, MI/5, AL/4 and MD/4	-- 58

<sup>984</sup> Based on death certificate data from 34 "registration states" as well as 17 cites in non-registration states of AL, GA, ND, OK, TX and WV, with an estimated population of 87,45,921 or 82.3% of total estimated U.S. and Hawaii territory population. AK was not a State. Other non-reporting states were AZ, AR, ID, IA, MN, NM, SD, and WY.

<sup>985</sup> Based on death certificate data from 34 "registration states" as well as 17 cites in non-registration states of AL, GA, ND, OK, TX and WV, with an estimated population of 87,45,921 or 82.3% of total estimated U.S. and Hawaii territory population. AK was not a State. Other non-reporting states were AZ, AR, ID, IA, MN, NM, SD, and WY.

<sup>986</sup> Based on death certificate data from 34 "registration states" as well as 17 cites in non-registration states of AL, GA, ND, OK, TX and WV, with an estimated population of 87,45,921 or 82.3% of total estimated U.S. and Hawaii territory population. AK was not a State. Other non-reporting states were AZ, AR, ID, IA, MN, NM, SD, and WY.

<sup>987</sup> Data from 34 registration States and a number of cities  $\geq 100,000$  in non-registration states.

1925 -- Smallpox, esp. MN/196, WI/134, CA/59, NJ/48, OH/47, IA/42, PA/29, IL/23	-- 709
1925 -- Tuberculosis, esp. NY/10,282, PA/7,300, CA/5,934, IL/5,537, OH/4,819	--89,268
1925 -- Typhoid & paratyphoid Fever, 48 States, esp. KY/668, TN/653, LA/649	--8,287
1925 -- Mar 18, Tornadoes, esp. Tri-State Tornado (IL/IN/MO) 695; AL/KY/TN	--740-792
1926 -- Polio (Acute), especially late Summer and Fall, especially children	-- 851
1926 -- Feb 24, Tornadoes, AR-MS and MS	-- 10
1926 -- Sep 18-22, Great Miami Hurricane (FL/MS/AL/Pensacola)	-- 800

**Multi-State Large Loss-of-Life Events (continued):**

1927 -- polio (acute), especially late summer and fall, especially children	--2,013
1927 -- Apr-May, rain, Mississippi river flood/levee breaks, MS, AR, LA, KY, MO	--246-1,000
1927 -- May 09, tornadoes, AR/70, MO/93 (esp. Poplar Bluff/83), TX/40, IL/7, LA/1	-- ≥211
1927 -- Nov 02-04, New England flooding, dam failures, MA/NH/CN/ME, esp. VT/84--~107-109	
1928 -- polio (acute), especially late summer and fall, especially children	--1,381
1929 -- polio (acute), especially late summer and fall, especially children	-- 812
1929 -- Jan 18, Tornadoes, IL-IN, MO, IL, KY	-- 10
1930 -- influenza, 48 States and District of Columbia (pneumonia was 88,770)	--23,066
1930 -- polio (acute), especially late summer through fall, especially children	--1,370
1930 -- May 1, tornadoes, KS, MO, NE, IA, WI	-- 14
1930-39 -- Dust Bowl, TX and OK Panhandles	-- 68
1931 -- Scarlet Fever, especially children, especially IL	--2,651
1931 -- Tuberculosis, esp. CA, IL, NY, OH, PA	81,395
1931 -- Whooping Cough, year, especially children, esp. IL, KY, NY and PA	--4,619
1932 -- polio (acute), especially late summer and fall, especially children	-- 885
1932 -- March 21-22, "Deep South" Tornado Outbreak, AL, GA, KY, SC, TN	-- 350
1933 -- Polio (Acute), especially late Summer and Fall, especially children	-- 797
1933 -- Feb 9, Cold Wave	-- 60
1933 -- March 14, Tornado, Campbell, Claiborne Counties, TN; Bell County, KY	-- 12
1933 -- March 30/31, Storm and Tornadoes, TX/AR/MS/AL/TN/GA	-- 68
1933 -- May 22, Tornadoes, OK, KS, NE, ND	-- 16
1933 -- Aug 23-24, Hurricane, MD (12-14), NJ (2-3), NY (2-3), PA (11), VA (16-18)	--45-51
1934 -- Polio (Acute), especially late Summer and Fall, especially children	-- 852
1934 -- Summer, esp. mid-July-mid-Aug Heat, esp. Midwest, esp. MO, IL, KS, OH	--3,250
1935 -- Polio (Acute), especially late Summer-and Fall, especially children	--1,040

1935 -- May 30-June 1, Floods, esp. Republican & Kansas Rivers, esp. NE, CO, KS	--159-168
1936 -- polio (acute), especially late summer and fall, especially children	-- 780
1936 -- Jan 18, tornadoes, AL (6 deaths), FL (7 deaths), GA (7 deaths)	-- 20
1936 -- Jan 18-28, extreme cold/snow/sleet/wind, Midwest - Atlantic, esp. OH, PA	--211-263
1936 -- Feb 01-28, polar cold waves, snow, blizzards, snowslides, flooding, esp. MI	-- 273
1936 -- Mar, flooding, New England	-- 150
1936 -- Apr 05, tornadoes, AL, AR, MS, TN	-- 249
1936 -- July-Aug (esp.), heat, esp. MN/772, MO/644, IL/634, MI/617, WI/500	--4,678-5,418

### Multi-State Large Loss-of-Life Events (continued):

1937 -- polio (acute), especially late summer and fall, especially children	--1,461
1937 -- Jan 11-Feb 15, <sup>988</sup> flooding, OH/MS river valleys, esp. AR/KY/MO/OH/TN	--408-467
1937 -- Sep-Oct, elixir sulfanilamide med. poisoning when diethylene glycol added	--105-106
1938 -- polio (acute), especially late summer and fall, especially children	-- 487
1938 -- Mar 30-31, tornadoes, AR and MO	-- 11
1938 -- 1938 -- Sep 21, Long Island, NY & New England Hurricane, esp. RI, MA, CT	--682-712
1938 -- Oct 11, forest fire, border of Ontario and MN	-- 22
1939 -- polio, especially late summer through fall, especially children	-- 773
1939 -- June-Sep, heat, esp. Sep 15-23, Los Angeles (546), TX (42), MO (37)	<sup>989</sup> --527-1,073
1940 -- Jan 23, snowstorm/cold-wave, MS, AL, GA, NC, SC, TN, VA, DC, MD, NJ	-- 17
1940 -- Feb 14, winter Nor'easter, Mid-Atlantic states-New England, W. to OH	--56-69
1940 -- Apr 30, tornadoes, AR, MO	-- 11
1940 -- Aug 11-12, hurricane, GA (2) and SC (34)	-- 36
1940 -- Nov 11-12, Armistice Day Blizzard, esp. IL/13, Lake MI/66, MN/49, WI/13	--166-170
1941 -- polio, especially late summer and fall, especially children	-- 807
1941 -- sulfathiazole Winthrop poisoning (tablets contaminated with phenobarbital)	-- ≥82
1941 -- Mar 15, blizzard, ND and MN	-- 151
1942 -- polio, especially late Summer and Fall, especially children	-- 561
1942 -- Feb 20, seven U.S. military planes crash, CA, Wash. DC, TX (2), WA (2)	-- 13
1942 -- Mar 16, tornadoes, IL, KY, MS, TN, AL, IN	-- 145
1942 -- June 01, planes crash, two USAAF (MD and PA) and one US Navy (CA)	-- 9-10
1942 -- Sep 22, eight USAAF planes crash or collide, CT, FL (3), GA, ME (2), PA	-- 25
1943 -- measles, especially children	--1,301

<sup>988</sup> Flood waters remained in some localities into March. There were a few flooding deaths in late February. But, the great majority of fatalities noted herein are within Jan 11 and Feb 15, most in a shorter timeframe; includes illness.

<sup>989</sup> Low-end of range is from Census Bureau and reflects death certificates listing heat as primary cause of death. High-end of range reflects results of Dept. of Public Health funded study of late Sep heat wave deaths in So. CA, in which 546 excess deaths above the norm were reported during 9-day "hot spell."



1943 -- polio, especially late Summer and Fall, especially children	--1,151
1943 -- whooping cough, especially children, nationwide	--3,368
1943 -- May 21-24, flooding, lower Mississippi Valley	--17-34
1943 -- Apr-June, Maumee/Wabash/Upper MI/MO/White River Flooding	-- 60
1943 -- June 26, six USAAF planes crash or collide, CA (2), FL (2), ME, SC	-- 16
1944 -- scarlet fever, Int. List No. 8 (Communicable diseases)	-- 422
1944 -- typhoid fever (501), Int. List No. 1 and paratyphoid fever (50), Int. List No. 2	-- 551
1944 -- June 23, Appalachian Tornadoes, WV/103 (esp. Shinnston area), MD/5 PA/45	-- 153
1944 -- Sep 12-15, Great Atlantic Hurricane, NC-ME, esp. MA/NY, USCG/USN/341--<385-395	

### **Multi-State Large Loss-of-Life Events (continued):**

1945 -- measles, especially children	-- 307
1945 -- polio, especially July-Nov (Sept. peak)	--1,186
1945 -- scarlet fever, Int. List No. 8 (Communicable diseases)	-- 303
1945 -- typhoid fever (471), Int. List No. 1; paratyphoid fever (63), Int. List No. 2	-- 534
1945 -- whooping cough, communicable disease No. 9 International List	--1,752
1945 -- Feb 12, tornadoes, AL, MS	-- 43
1945 -- Mar 01-08, flooding, Ohio River, IN, KY, OH, PA, WV, esp. OH and KY	-- 10
1945 -- Apr 12, tornado outbreak, OK, AR, MO	-- 128
1945 -- Nov 29-30, Nor'easter, NJ (5), NY (17), MA (5), NH (2), RI (4)	--33-35
1946 -- cerebrospinal (meningococcus) meningitis infections (Int. List No. 6)	--1,257
1946 -- cold, exposure to excessive cold; International List code 190	-- 193
1946 -- diphtheria, infectious diseases International List No. 10	--1,259
1946 -- dysentery, infectious and parasitic diseases International List code 27	-- 952
1946 -- encephalitis, acute infectious, International List infectious diseases code 37	-- 642
1946 -- heat, excessive, International list code 191	-- 182
1946 -- hunger or thirst, International List code 189	-- 27
1946 -- influenza, infectious and parasitic diseases International List code 33	--8,783
1946 -- leprosy (Hansen's disease), infectious and parasitic diseases Int. code 23	-- 16
1946 -- malaria, infectious and parasitic diseases International List code 28	-- 341
1946 -- measles, International List infectious and parasitic diseases code 35	--1,310
1946 -- polio, July-Nov esp., esp. MN/216, IL/185, TX/102, CA/99, MO/97, KS/91, MI	--1,845
1946 -- scarlet fever, International List No. 8	-- 198
1946 -- scurvy (ascorbic acid deficiency), International Lists code 67	-- 21
1946 -- smallpox, infectious and parasitic diseases International List No. 34	-- 25
1946 -- tuberculosis, respiratory, code 13 (all forms including respiratory, 50,911)	--46,939
1946 -- typhoid fever (349), Int. List No.1 and paratyphoid fever (58), Int. List No.2	-- 408
1946 -- typhus fever/typhus-like diseases, Int. list infectious/parasitic diseases No.39	-- 289
1946 -- whooping cough, International List No. 9	--1,241
1947 -- measles, Int. List infectious and parasitic diseases code 35	-- 472
1947 -- polio, Int. List infectious disease code 36	-- 580
1947 -- scarlet fever, Int. List No. 8 infectious disease	-- 107

1947 -- tuberculosis, respiratory, code 13 (all forms including respiratory were 48,064)	--44,462
1947 -- typhoid fever (282), Int. List No.1 and paratyphoid fever (43), Int. List No.2	-- 325
1947 -- typhus fever/typhus-like diseases, int. list infectious/parasitic diseases No. 39	-- 224
1947 -- whooping cough, Int. List No. 9 infectious disease	--1,954
1947 -- cold, exposure to excessive cold; International List code 190	-- 270
1947 -- heat, excessive, International list code 191	-- 540
1947 -- hunger or thirst, 1948 International List code 189	-- 26
1947 -- scurvy (ascorbic acid deficiency), International Lists code 67	-- 22
1947 -- Apr 09, tornadoes, Glazier, Higgins TX/69; OK/113-116, esp. Woodward/107	--181-185
1947 -- Apr 29, tornado outbreak, MO, AR	-- 24
1947 -- May-July, flooding, rivers in middle West in lower MO/middle MS River basins	-- 16
1947 -- Aug 01-15, heat, esp. IL/48 & MO/66 (540 US excessive heat deaths/1947)	--168-175
1947 -- Sep 17-19, Fort Lauderdale Hurricane, FL (17), LA (12), MS (22)	-- 51
1947 -- Oct 17-27, forest fires, CT/1, ME/16, MA/3, NH/1, esp. Mount Desert Isl. ME	-- 21
1947 -- Dec 26, winter snow storm, New England, PA, NJ, NY	-- 35
1948 -- cold, excessive; 1948 ICD code 190	-- 345
1948 -- heat, excessive, 1948 ICD code 191; includes Aug/Sep heatwave, esp. NYC & Philly	-- 392
1948 -- hunger or thirst, 1948 ICD code 189	-- 35
1948 -- cerebrospinal (meningococcus) meningitis infections (code 6, ICD 1, 1948)	-- 873
1948 -- diphtheria, infectious diseases code 10	-- 634
1948 -- dysentery, infectious and parasitic diseases ICD code 27	--1,078
1948 -- encephalitis, acute infectious (viral), 1948 ICD infectious diseases code 37	-- 570
1948 -- influenza, 1948 ICD infectious and parasitic diseases code 33	--5,068
1948 -- leprosy (Hansen's disease), infections and parasitic diseases code 23	-- 21
1948 -- malaria, infectious and parasitic diseases ICD code 28	-- 170
1948 -- measles, 1948 ICD infectious and parasitic diseases code 35	-- 888
1948 -- polio, esp. CA/365, MN/196, TX/190, NC/143, WI/92, SD/90 OH/87 IA/76	--1,895
1948 -- scarlet fever, 1948 ICD code 8	-- 68
1948 -- tuberculosis, respiratory, code 13 (all forms including respiratory were 43,833)	40,420
1948 -- typhoid fever (code 040)/205, and paratyphoid fever (code 041)/28	-- 233
1948 -- typhus fever & typhus-like diseases, ICD infectious/parasitic diseases code 39	-- 177
1948 -- whooping cough, 1948 ICD-1 code 9	--1,146
1948 -- Jan 23-26, sleet, snowstorms and cold-wave, South to Ohio to Northeast	--42-44
1948 -- Mar 19, tornado outbreak, MO, IL, KY, OH, PA, MD	-- 43
1948 -- Nov 18-20, winter storm, near-blizzard/blizzard conditions, Pacific to Plains	-- 15

### **Multi-State Large Loss-of-Life Events (continued):**

1949 -- diphtheria, code 055	-- 574
1949 -- heat, excessive (code E931)	-- 488
1949 -- hepatitis, infectious (code 092); PHS. <i>Vital Statistics...1949...Mortality</i>	-- 560
1949 -- influenza (codes 480-483); pneumonia (codes 490-493) was 40,038)	--4,602
1949 -- malaria (codes 110-117)	-- 118
1949 -- measles (code 085); PHS, <i>Vital Statistics...[US] 1949, Part II...Mortality</i>	-- 949
1949 -- meningococcal infections (code 057); <i>Vital Statistics...[US] 1949, Part II</i>	-- 917

1949 -- polio, esp. July-Nov, esp., NY/320, IL/246, MI/210, TX/183, NJ/180, CA/236	--2,720
1949 -- scarlet fever (39)/code 050 and streptococcal sore throat (447)/code 051	-- 486
1949 -- tuberculosis, respiratory (all forms including respiratory were 39,100)	--35,988
1949 -- typhoid fever, code 040 (161), and paratyphoid fever, code 041 (15)	-- 176
1949 -- typhus and other rickettsial diseases (codes 100-103. 105-108)	-- 37
1949 -- whooping cough, Public Health Service. <i>Vital Statistics...</i> [US] 1949, Part II	-- 727
1949 -- Jan 02-05, blizzard and extreme cold, CO/7, NE/20, SD/1, WY/12	-- 40
1949 -- May 21, tornadoes, IL/9 deaths, IN/17, MO/25, esp. Cape Girardeau area/23	-- 51
1949 -- June 17-18, flash flooding, Shenandoah & Potomac Rivers, VA/3, WV/9	--11-12
1949 -- Dec 11, tornadoes, Cross Roads cnty., AR, and esp. Poplar Bluff area, MO	-- 10
 1949-1952 -- polio	 --6,000
 1950 -- chickenpox, code 087 in 6 <sup>th</sup> revision of International Lists of 1948 (US PHS)	 -- 87
1950 -- diphtheria, code 055 of sixth revision of international lists of 1948 (US PHS)	-- 410
1950 -- hepatitis, infectious, code 092, 6 <sup>th</sup> rev. of International Lists/1948, US PHS	-- 552
1950 -- influenza; separate from influenza with pneumonia (3,492) and pneumonia (40,523)	--2,857
1950 -- malaria, codes 110, 112, and 116, sixth revision of international lists of 1948	-- 75
1950 -- measles, esp. children, esp. MS/34, KY/30, MI/28, OH/27, NJ/26, TN/25, SC/23	-- 468
1950 -- mumps, code 089 in 6 <sup>th</sup> rev. of International Lists (in UPS Mortality Data)	-- 40
1950 -- polio, esp. July-Nov, esp. TX/204, NY/186, IL/MI/127, OH/117, CA/112	--1,904
1950 -- scarlet fever (35) and streptococcal sore throat (311) US PHS Mortality Data	-- 346
1950 -- scurvy/ascorbic acid deficiency code 282, International Lists 6th Rev., 1948	-- 27
1950 -- tuberculosis, pulmonary; code 002, sixth revision, International Lists, 1948	--29,228
1950 -- typhoid fever (96) and paratyphoid fever (18)	-- 114
1950 -- typhus and other rickettsial diseases, codes 102-108, 6 <sup>th</sup> rev. int. lists (PHS)	-- 47
1950 -- whooping cough, code 056 of 6 <sup>th</sup> revision of international lists of 1948 (US PHS)	--1,118
1950 -- cold, excessive, code E932, 6 <sup>th</sup> revision of International Lists/1948, US PHS	-- 250
1950 -- heat, excessive	-- 137
1950 -- Jan 13-14, snow/blizzard, deep cold, OR, WA, BC (2), esp. WA (8-9)	--11-13
1950 -- Feb 12, tornadoes, TX, LA	-- 31
1950 -- Mar 26-27, wind and dust storms, Southwest, Midwest, South, East	-- 19
1950 -- Oct 25-29, winter-like storms (wind/rain/snow), Northern CA, OR, WA <sup>990</sup>	-- 12
1950 -- Nov 25-27, winter "Storm of the Century," Eastern U.S.	-- 300

### **Multi-State Large Loss-of-Life Events (continued):**

1951 -- chickenpox (varicella); code 087, International List 6 <sup>th</sup> Revision, 1948	-- 94
1951 -- diphtheria, esp. TX/31, AL/26, NC/19, KY/17, AR/16, LA/15, PA/15, CA/14	-- 302
1951 -- influenza; (influenza with pneumonia/3,533; broncho-pneumonia/20,076)	--3,094
1951 -- measles, esp. TX/102, KY/43, OH/39, CA/37, IL/31, MO/30, PA/26, OK/25	-- 688
1951 -- mumps (code 089)	-- 48
1951 -- polio, esp. July-Nov, esp. TX/183, CA/156, IL/94, WI/74, MI/62 NY/61 UT/43	~1,555
1951 -- scarlet fever (72) and streptococcal sore throat (275)	-- 347
1951 -- tuberculosis (respiratory), esp. NY/3.5K, PA/2.5K, CA/2.2K, TX/2K, IL/1.8K	--31,163

<sup>990</sup> Though storms were in late Oct they were "winter-like" out of north Pacific with snow, rain and high winds.

1951 -- typhoid fever (code 040), <i>Vital Statistics-Mortality 1951</i> ; esp. TX/12, PA/9	-- 84
1951 -- cold, exposure to excessive natural; USPHS <i>Vital Statistics -Mortality, 1951</i>	-- 407
1951 -- excessive natural heat, USPHS <i>Vital Statistics -Mortality, 1951</i> , code E931	-- 422
1951 -- hunger, thirst, and exposure (International Lists code E933, 6 <sup>th</sup> Rev., 1948)	-- 385
1951 -- Jan 27-Feb 8, cold waves, winter storms, ice, sleet, snow, nationwide	--175-200
1951 -- July 11-18, storms, flooding, east KS (19), west MO (6), IL (3), OK (1)	--28-29
1952 -- chickenpox (varicella); International List 6 <sup>th</sup> Revision, 1948, code 087	-- 101
1952 -- cold, exposure to excessive natural; USPHS <i>Vital Statistics -Mortality, 1952</i> (E932)	-- 225
1952 -- diphtheria (7 states double digits); AL/21, TX/21, CA/17, GA/17, SC/13, KY/12, VA/11--	225
1952 -- dysentery, infectious, all forms (codes 045-048), esp. TX/249, MS/71, KY/61 GA/46	-- 939
1952 -- heat, excessive natural, Sixth Revision of International Lists, 1948, code E931	--1,401
1952 -- hunger, thirst, and exposure (International Lists code E933, 6 <sup>th</sup> Revision, 1948)	-- 297
1952 -- influenza, esp. TX/433 PA/377 OH/335 AL/283 NC/248 VA/239 MO/226	--5,649
1952 -- malaria, one to three deaths in 15 States	-- 25
1952 -- measles, 24 states double digits, esp. PA/49, NY/48, AL&TN/40, IN&KY/30, IL/25	-- 621
1952 -- mumps, US PHS <i>Vital Statistics of US 1952: Vol. II, Mortality</i> (code 089)	-- 55
1952 -- polio, esp. IL/258, TX/≥240, MI/218, CA/217, MN/200 OH/176 IA/163 KY/132 NE/115~3,300	
1952 -- rubella (German measles); US PHS <i>Vital Statistics 1952: Vol. II</i> code 086)	-- 31
1952 -- scarlet fever & streptococcal sore throat, esp. MO/28, NY/22, OH/20, GA/19	-- 352
1952 -- scurvy/ascorbic acid deficiency, International Lists 6th Rev., 1948, code 282	-- 18
1952 -- tuberculosis (respiratory), esp. NY/2462, CA/1678, PA/1662, IL/1385, TX/12K	--22,700
1952 -- typhoid fever, <i>Vital Statistics-Mortality 1952</i> (040); esp. MS/7, TX/7, SC/6	-- 79
1952 -- typhus/other rickettsial diseases (codes 100-108), 17 States, esp. GA/6, SC/3	-- 29
1952 -- whooping cough/pertussis, 16 states double digits, esp. TX/57 MS/30 AL/SC/24	-- 406
1952 -- Mar 21, tornado outbreak, AR, TN, MO, MS	-- 202
1952 -- Mar 26, two USAF planes crash, Davis-Monthan AFB/8, AZ; Albuquerque, NM/4--	12
1952 -- Apr, flooding, Red River of north and upper Mississippi River	-- 11
1952 -- Nov 25-26, winter storm, esp. NE/9, IA/4, OK/4, CO/KS/MN/2 each, TX/SD/1	--31-38

### **Multi-State Large Loss-of-Life Events (continued):**

1953 -- cold, exposure to excessive natural; USPHS <i>Vital Statistics -Mortality, 1953</i> (E932)--	209
1953 -- heat, the year, esp. Aug 22-Sep 5, esp. MO/71, NY/43, TX/41, PA/40	-- 576
1953 -- hunger, thirst, and exposure (International List code E933, 6 <sup>th</sup> Rev., 1948)	-- 336
1953 -- chickenpox (varicella); Code 087, International List 6 <sup>th</sup> Revision, 1948	-- 132
1953 -- diphtheria, esp. GA/19, SC/16, TX/15, FL/12, AL/10 (only states in double digits)--	158
1953 -- dysentery, infectious, all forms (codes 045-048), esp. TX/268, MS/52, GA/41	-- 886
1953 -- encephalitis, acute infectious (viral)	-- 386
1953 -- influenza, esp. TX/716, OH/532, MO/484, PA/460, GA/427, TN/414, AL/393	--9,500
1953 -- malaria, one to three deaths in 16 States, 9 in Texas	-- 33
1953 -- measles, 23 states double digits, esp. TX/56 MO/27 CA/25 AR/24 PA/21 AK/20	-- 483
1953 -- mumps (code 089)	-- 46
1953 -- polio, esp. CA/158, NY/119, MI/106, IL/104, OH/95, MN/90, FL/68, TX/57, PA	--1,450
1953 -- rubella (German measles; code 086)	-- 17
1953 -- scarlet fever and streptococcal sore throat, esp. TX/23, MO/21, NY/20, PA/19	-- 296



1953 -- tuberculosis/respiratory, esp. NY/1,983, PA/1,428, CA/1,383, IL/1,235, TX/948	--17,954
1953 -- typhoid fever, <i>Vital Statistics-Mortality 1953</i> ; esp. TX/8 and AR/7	-- 53
1953 -- typhus and other rickettsial diseases (codes 100-108), 14 States	-- 30
1953 -- whooping cough/pertussis, 11 states double digits, esp. TX/19 KY/18 OH/17	-- 271
1953 -- Jan 9-11, winter storms, snow/ice/sleet, Northeast, especially New England	--32-35
1953 -- May 01-02 tornadoes, especially AL (9 deaths, May 1), TN (4 deaths, May 2)	-- 13
1953 -- May 10, tornado outbreak, especially MN (8 deaths) and WI (4 deaths)	-- 12
1953 -- June 08, tornadoes, MI/125 (especially Flint/115), OH/18	-- 143
1954 -- chickenpox (varicella); code 087, International List 6 <sup>th</sup> Revision, 1948	-- 120
1954 -- diphtheria, esp. GA/24, SC/16, AL/14, FL/10, (only states in double digits)	-- 145
1954 -- dysentery, infectious, all forms (codes 045-048), esp. TX/172 and MS/61	-- 655
1954 -- encephalitis, acute infectious (viral); esp. NY/52, PA/31, MI/27, TX/26, CA/24	-- 407
1954 -- influenza, esp. TX/228 AL/180 GA/162 PA/154 OH/143 TN/120 MO/104	--2,696
1954 -- malaria, one to three deaths each in 17 States	-- 24
1954 -- measles, 21 states double digits, esp. NY/36, TX/36, NC/35, PA/34, KY/27	-- 524
1954 -- mumps (code 089, International List, 6 <sup>th</sup> Revision, 1948)	-- 45
1954 -- polio, acute; esp. TX/138 & CA/119; 33 other states double digit deaths	--1,389
1954 -- scarlet fever/streptococcal sore throat, esp. TX/19, NY/18, PA/17, WI/15, IN/14	-- 263
1954 -- scurvy/ascorbic acid deficiency, code 282, International Lists 6 <sup>th</sup> Rev., 1948	-- 14
1954 -- tuberculosis (respiratory), esp. NY/1667, CA/1108, PA/1100, IL/939, TX/843	--15,146
1954 -- typhoid fever, Public Health Service, <i>Vital Statistics-Mortality 1954</i> ; esp. TX/6	-- 45
1954 -- typhus and other rickettsial diseases, 15 States	-- 20
1954 -- whooping cough/pertussis, 17 states double digits, esp. SC/29, KY/TX/24, MS/23	-- 375
1954 -- cold, excessive natural (US PHS <i>Vital Statistics -Mortality</i> )	-- 230
1954 -- heat (esp. July), esp. MO/235, OK/178, KS/139, TX/95, IL/50, GA/39	--978-984
1954 -- hunger, thirst, and exposure (International List code E933, 6 <sup>th</sup> Rev., 1948)	-- 238
1954 -- Aug 23, NY-Amsterdam KLM crash, <b>North Sea</b> after Shannon AP stop	--12 US of 21
1954 -- Aug 30-31, Hurricane Carol, esp. New England, esp. MA/33, RI/17, ME/NH/3	--65-68
1954 -- Sep 05, KLM Royal Dutch Airlines takeoff crash, Shannon Airport, Ireland	--12US of 28
1954 -- Sep 11, Hurricane Edna, northeast, esp. New Eng., ME/8, MA/4, NY/6, RI/2, CT/1--	21
1954 -- Oct 15-16, Hurricane Hazel, esp. PA/26, NY/21, NC/19, VA/13, MD/11, NJ	--103-108
1954 -- Dec 28-31, winter snow/ice storms and arctic cold, southwest to northeast	--48-52

### **Multi-State Large Loss-of-Life Events (continued):**

1955 -- chickenpox (varicella)	-- 88
1955 -- diphtheria, especially AL/25, GA/18, TX/13, SC/11 (only double digit states)	-- 150
1955 -- influenza, esp. OH/187 AL/183 GA/181 TX/169 PA/154 TN/136 MS/106 NC/104--	2,755
1955 -- malaria, deaths in 11 States	-- 18
1955 -- measles, 7 states double digits, esp. TX/35, CA/30, NY/28, AZ/25, NM/23	-- 345
1955 -- mumps	-- 43
1955 -- polio (acute); all States, esp. MA/168 (Boston ~200), WI/166, NY/77, TX/76	--1,043
1955 -- rubella (German measles)	-- 8
1955 -- tuberculosis (respiratory), esp. NY/1,642, PA/1,239, CA/1,076, IL/797, TX/736	--13,676
1955 -- typhoid fever, US Public Health Service, <i>Vital Statistics-Mortality 1955</i>	-- 34

1955 -- typhus & other rickettsial diseases, AL CO GA IN LA MD NJ NC SC TX VA	--	15
1955 -- whooping cough/pertussis, 15 states in double digit, esp. TX/59, MS/34, NC/31	--	476
1955 -- cold, excessive natural (US PHS <i>Vital Statistics-Mortality</i> , E932)	--	344
1955 -- excessive natural heat (US Public Health Service code E931)	--	615
1955 -- hunger, thirst and exposure (US Public Health Service code E933)	--	273
1955 -- Feb 26-Mar 06, heavy rains, Ohio River basin flooding, esp. KY, OH, IN, WV	--	15
1955 -- May 25, KS/OK tornadoes, esp. Udall/77, Cheyenne/5, KS; Blackwell, OK/20	--	104
1955 -- Aug 11-13, Hurricane Connie, esp. NC/2, VA/2, DC/4, MD/14, PA/9, NY/12	--	43
1955 -- Aug 18-19, Hurricane Diane flooding, esp. PA/~100, CT/87, MA/13, NJ/6	--	211-229
1955 -- Sep 24, five USAF planes crash (11 deaths), one Flying Tiger Line crash (3)	--	14
--7 USAF SC-47D near Burns, WY		
--1 USAF F-84F Thunderstreak #51-17083, 22M E of Langley AFB, Hampton, VA		
--1 USAF F-84F Thunderstreak #52-6517, 5M NE of Langley AFB, Hampton, VA		
--1 USAF F-84F Thunderstreak #52-7029, Chesapeake Bay off Langley AFB, VA		
--1 USAF F-84F Thunderstreak #52-7038, 25M NE Langley AFB, Hampton, VA		
--3 Flying Tiger Line C-54A (military cargo contract), 1000M W of Honolulu, HI		
1955 -- Nov 28-29, lake-effect snow; Arctic cold; deaths in IL/2, NY/6, PA/4	--	12

### **Multi-State Large Loss-of-Life Events (continued):**

1956 -- cold, exposure to excessive natural; PHS <i>Vital Statistics -Mortality</i> , 1956 (E932)	--	254
1956 -- heat, exposure to excessive natural (US Public Health Service code E931)	--	174
1956 -- hunger, thirst, exposure (International List code E933, 6 <sup>th</sup> Revision, 1948)	--	308
1956 -- chickenpox (varicella)	--	116
1956 -- diphtheria, especially TX (19), the only state with double digit death toll	--	103
1956 -- influenza, esp. PA/139, TX/153, OH/134, AL/130, GA/109, MS/100, TN/96	--	2,323
1956 -- malaria, CT, DC, NY, OK/4, SC, WV	--	11
1956 -- polio/acute, 15 states in double-digits, esp. TX/76, IL/71, CA/62, NY/29, WI/26	--	566
1956 -- scarlet fever/streptococcal sore throat, esp. TX/21, NY/14, OH/14, WV/12	--	240
1956 -- tuberculosis (respiratory), esp. NY/1,577, PA/1,029, CA/938, IL/763, TX	--	12,978
1956 -- typhoid fever, US PHS, <i>Vital Statistics-Mortality 1956</i> , esp. TX/6, CA/5, KY/5	--	54
1956 -- typhus and other rickettsial diseases, 12 States	--	19
1956 -- whooping cough/pertussis, 8 states double digit deaths esp. TX/44 MS/41 GA/36	--	266
1956 -- Feb 01-05, ice/snow/blizzard/cold, NM/3, TX/16-23, esp. north & central TX	--	19-26
1956 -- Sep 24-26, Hurricane Flossy, coastal LA/MS/AL, NW FL, inland GA, NC	--	15-16
1956 -- Dec 14-15, snow, sleet and ice storm, Northeast/New England, esp. NY/9	--	17-21
1957 -- chickenpox	--	113
1957 -- cold, exposure to excessive natural; USPHS <i>Vital Statistics...1957</i> (E932)	--	248
1957 -- diphtheria	--	81
1957 -- heat, excessive natural heat (US Public Health Service code E931)	--	280
1957 -- influenza and pneumonia epidemic, nationwide	--	~70,000
1957 -- influenza, especially PA/476, NY/471, TX/459, OH/437. GA/341, NC/318	--	7,463
1957 -- malaria	--	14
1957 -- measles, esp. CA/37, TX/32, MI/22, GA/20, AL/AZ/NM/15, MN & TN/14	--	389
1957 -- polio, acute; six double digit states: CA/22, IL/17, IN/11, MI/14, OH/13, TX/38	--	221

1957 -- scarlet fever/streptococcal sore throat, esp. TX/15, MO/14, NY/13, OH & PA/12	-- 213
1957 -- hunger, thirst, and exposure (Int. Lists code E933, 6 <sup>th</sup> Revision, 1948)	-- 333
1957 -- tuberculosis (respiratory), esp. NY/1493, PA/959, CA/833, TX/733, IL/673	--12,384
1957 -- typhoid fever, US PHS, <i>Vital Statistics-Mortality 1957</i> , esp. TX (6)	-- 34
1957 -- typhus and other rickettsial diseases	-- 26
1957 -- whooping cough/pertussis, esp. TX/25, SC/18, MS/14, KY & PA/13, NC/12	-- 183
1957 -- Jan 14-17, winter snowstorms, Arctic cold, especially upper Midwest, Northeast	--37-65
1957 -- Jan 27-Feb 2, heavy rain/flooding, southeast KY, eastern TN, SW VA, WV	--13-14
1957 -- Apr-June, storms/flooding, south and central states esp. MO/10 OK/10 TX/21	-- 52
1957 -- June 26-28, Hurricane Audrey, SW LA/526; also TX, IL, IN, NY, Canada	--545-550
1957 -- Nov 07, tornado outbreak, LA (8-9), MS (2), TX (3)	--13-14
1957 -- Dec 3-5, snowstorms, IN to Northeast, East Coast-New England, esp. PA (11)	--32-33
1957-58 -- especially fall-spring – H2N2 “Asian” influenza and pneumonia pandemic---~116,000	

1958 -- chickenpox (varicella)	-- 146
1958 -- diphtheria, especially GA (9), TX (8) and MS (6)	-- 74
1958 -- excessive natural heat; Public Health Service <i>Vital Statistics-Mortality 1958</i>	-- 137
1958 -- influenza, esp. TX/415, AL/275, OH/260, TN/230, GA/206, MS/199, PA/199	--4,442
1958 -- measles, esp. TX/50, OH/36, IL/34, NY/NC/PA/28 each, KY, 23, IN/20	-- 552
1958 -- mumps, U.S. Public Health Service, <i>Vital Statistics-Mortality 1958</i> , p. 94	-- 37
1958 -- polio (acute), esp. MI/36, OH/20, TX/20, CA/13, MO/12, IL/NY/PA/WV/11 each	-- 255
1958 -- rubella (German measles)	-- 24
1958 -- scarlet fever and streptococcal sore throat, especially TX (12) and KY (10)	-- 138
1958 -- tuberculosis, esp. NY/1,380, PA/1013, CA/872, IL/725, TX/721, OH/550	--12,361
1958 -- typhoid fever/23, U.S. Public Health Service, <i>Vital Statistics-Mortality 1958</i>	-- 23
1958 -- whooping cough/pertussis, especially children, esp. TX/24, CA/15, SC/15, KY/13	-- 177
1958 -- Feb 06-19, coldwave/snowstorms, east half US, esp. NY/61, OH/34, PA/31	--256-284
1958 -- Jan 07-08, winter storm (snow/sleet/ice/high wind, cold) Northeast, esp. CT/9	--33-35
1958 -- Feb 06-19, coldwave/snowstorms, east half US, esp. NY/61, OH/34, PA/31	--256-284
1958 -- Mar 19-22 snowstorm, VA, MD, NJ, NY, New England, esp. SE PA (27)	--49-55

### **Multi-State Large Loss-of-Life Events (continued):**

1959 -- chickenpox	-- 141
1959 -- cold, excessive natural cold, <i>Vital Statistics 1959</i> (Int. Lists code E 932)	-- 242
1959 -- diphtheria, especially AL (9), LA (7), TX (7), SC (6), FL (5)	-- 72
1959 -- excessive natural heat (US Public Health Service code E931)	-- 267
1959 -- measles, especially children, esp. PA/36 CA/31 TX/27 MO/19 IL/NJ/NY/16	-- 385
1959 -- influenza, <sup>991</sup> esp. TX/191, TN/133, OH/126, NY/126, IN/119 MI/108 GA/104 CA/101	--2,845
1959 -- polio (acute, as opposed to late effects of), esp. NY/49, MO/34, IA/22	-- 454
1959 -- scarlet fever and streptococcal sore throat, especially TX (12) and KY (10)	-- 130
1959 -- tuberculosis, esp. NY/1,316, PA/981, CA/815, IL/643, TX,633, OH/527	--11,456
1959 -- typhoid fever/22 & paratyphoid fever/72; PHS, <i>Vital Statistics-Mortality 1959</i>	-- 94
1959 -- whooping cough (pertussis), especially children, esp. TX/48, SC/22, GA/18	-- 269

<sup>991</sup> Distinct from the 52,195 pneumonia deaths (codes 490-493) noted in the Table 78, p. 406.

1959 -- Jan 21-24, heavy rain, flash floods, flooding, OH/17, IN/2-3, PA/3, NY/9	--31-32
1959 -- Mar 04-06, snowstorms, esp. upper Midwest, esp. IA/19, IN/10-13, WI/11	--53-56
1959 -- Mar 11-13, snowstorm/blizzard, NY, New England, esp. NY (22), ME (11)	-- 46
1959 -- Mar 14-15, midwest snowstorm, IA/6, IL/1, KS/2, MI/2, NE/1, OH/1	-- 13
1959 -- Sep 29-30, Hurricane Gracie SC/9 NC/1 GA/1, Gracie-spawned tornadoes VA/12	-- 25
1959 -- Oct 29-31, rain/wind storms, central/eastern AZ (6-7), cent./south CA (3)	-- 9-10
1960 -- chickenpox (varicella)	-- 126
1960 -- diphtheria, especially TX (only State in double digits -- 20)	-- 69
1960 -- hepatitis, infectious	-- 938
1960 -- influenza, <sup>992</sup> US death rate 4.4 per 100K; esp. AL/11.5, SC/11.2, MS/10.9	--7,872
1960 -- measles, especially children, esp. TX/52, NY/31, LA/21, IL/18, MI/17, OH/17	-- 380
1960 -- mumps	-- 42
1960 -- polio (acute, as opposed to late effects), especially NY/26, CA/24, TX/14, PA/13	-- 230
1960 -- rubella (German measles)	-- 12
1960 -- scarlet fever and streptococcal sore throat, especially TX (13) and KY (12)	-- 108
1960 -- tuberculosis, death rate 6.1 per 100K; esp. AZ/12.1, DC/11.8, KY/10.7	--10,866
1960 -- typhoid fever/21, paratyphoid fever/8; PHS, <i>Vital Statistics-Mortality 1960</i>	-- 29
1960 -- whooping cough (pertussis), especially children, especially TX (22)	-- 118
1960 -- excessive natural cold (US PHS code E 932)	-- 357
1960 -- excessive natural heat (US Public Health Service code E931)	-- 168
1960 -- Mar 02-05, snowstorm, IL, IN, OH, KY, WV, PA, MD, NJ, New England	--81-174
1960 -- Sep 09-14, Hurricane Donna, FL/Eastern U.S.	-- 50

### **Multi-State Large Loss-of-Life Events (continued):**

1961 -- measles; US death rate 0.2 per 100K; AK/6.0, AR/0.7, KY/0.7, SC/06	-- 434
1961 -- polio, acute (as opposed to late effects), 33 States, esp. mid-Atlantic, esp. NY/15	-- 90
1961 -- scarlet fever and streptococcal sore throat, especially CA, TN, TX (10 each)	-- 130
1961 -- tuberculosis, US death rate 5.4 per 100K; esp. DC/13.4. KY/10, AR/10.6, AZ/9.4	--9,938
1961 -- Jan 19-20, Nor'easter snowstorm, East Coast and Northeast, esp. PA (21)	--60-69
1961 -- Sep 11-14, Hurricane Carla, TX, LA, KS, MO	-- 46
1962 -- diphtheria, especially Texas (9)	-- 41
1962 -- influenza, <sup>993</sup> US death rate 1.8 per 100K; esp. NE/5, TN/5, MS/4.2, SC/4	--3,431
1962 -- measles, death rate 0.2 per 100K, esp. AK/4.5, AZ/0.9, TX/0.6, LA/TN/0.5	-- 408
1962 -- polio (acute), especially children	-- 60
1962 -- scarlet fever and streptococcal sore throat, especially TX (10)	-- 102
1962 -- tuberculosis, death rate 5.1 per 100K; esp. DC/11.9, KY/9.8, AZ&AR/9.7	--9,508
1962 -- Jan 07-14, Cold-wave, snow, sleet, glaze, deaths in 29 States, esp. TX ( $\geq 30$ )	--153-212
1962 -- Feb 23-24, snow/ice storms, Midwest, Northeast; deaths in IL, IN, NY, OH, PA	-- 11
1962 -- Mar 05-09, Ash Wednesday Nor'easter, esp. coastal mid-Atlantic, esp. NJ (29)	-- 52
1962 -- Oct 12, Columbus Day wind storm, CA, OR, WA	-- 46
1962 -- Dec 06-15, snowstorms/cold-wave $>26$ ~States east half US, esp. OH and MI	--188-238

<sup>992</sup> Distinct from the 58,931 pneumonia deaths (codes 490493) noted in the Table 1-V, p. 1-42.

<sup>993</sup> Distinct from the 56,564 pneumonia deaths noted in the next column in Table 1-12, p. 1-20..



1963 -- chickenpox (varicella)	-- 129
1963 -- diphtheria, especially GA (5) and TX (5)	-- 45
1963 -- dysentery, all, esp. TX/65, CA/27, AZ/25, MS/15, GA/14, IL/13, NM/13	-- 294
1963 -- influenza, <sup>994</sup> US death rate 3.8; SC/11.9, KY/11.6, WV/11, MS/10.9 TN/9.3	--7,083
1963 -- measles, esp. MI/27 TX/25 AZ/24 CA/22 WI/19 OH/18 PA/15 NY/14 AK/13	-- 364
1963 -- mumps	-- 48
1963 -- polio, acute; does not include late effects of poliomyelitis, esp. children, esp. CA/5	-- 41
1963 -- rubella (German measles)	-- 16
1963 -- scarlet fever and streptococcal sore throat, esp. TX (12) and IL (7)	-- 102
1963 -- tuberculosis, US death rate 4.9; esp. DC/12.3, AZ/9.7, WV/8.6, KY/8.7 WV/8.6	--9,311
1963 -- typhoid fever/21 & paratyphoid fever/7; PHS, Vital Statistics-Mortality 1963	-- 28
1963 -- whooping cough (pertussis), esp. children, especially TX/18, LA/9, GA/8	-- 115
1963 -- excessive heat (code E931), esp. TX (26), CA (22), NY/11, AZ/10, NJ/10	-- 196
1963 -- Jan 09-16/17, Arctic cold/snow/sleet/high winds/blizzards, much of US	--81-92
1963 -- Jan 18-30, cold-waves/snow/icing/high wind, esp. IN/OH/IL/NY/MI/PA/TX	--315-352
1963 -- Mar 04-19, heavy rain, OH River basin flooding, esp. IN/5 TN/4 VA/6 WV/13	--26-33
1963 -- Apr 29, tornadoes, deaths in MO/1, MS/8, TN/3; also: AR, GA, IN, KY, TN	-- 12

#### **Multi-State Large Loss-of-Life Events (continued):**

1964 -- diphtheria, especially Texas (10)	-- 42
1964 -- dysentery, all forms, esp. TX/59, CA/25, MS/25, GA/17, NC/11, TN/10	-- 283
1964 -- excessive cold; Public Health Service, Vital Statistics-Mortality, code E932	-- 298
1964 -- excessive heat; Public Health Service, code E931, Vital Statistics-Mortality	-- 195
1964 -- influenza, <sup>995</sup> US death rate 0.9 per 100K, esp. MT/4.0 WA/3.8 NE/3.6 ND/3.1	--1,687
1964 -- measles, esp. TX/68 CA/34 NY/30 MS/25 KY/21 TN/20 IL/17 SC/17 NC/15	-- 421
1964 -- polio, acute/17, and late effects of acute poliomyelitis/115	-- 132
1964 -- tuberculosis, US death rate 4.3; esp. DC/12, AZ/9, AL/7.4, WV/7.2, TN/7.0	--8,303
1964 -- typhoid fever/14 and paratyphoid fever/67; PHS, Vital Statistics, 1964	-- 81
1964 -- whooping cough (pertussis), especially children, especially SC/11 and TX/11	-- 93
1964 -- Jan 12-14, snowstorm and coldwave, eastern US, esp. IN, OH, PA, NY	--146-167
1964 -- Mar 9-10, snowstorm, ice, sleet, freezing rain, ME/1, MA/3, NY/≥6	-- ≥10
1964 -- Oct 03-04, Hurricane/Tropical Storm Hilda/tornadoes, LA, MS, SE Coast	-- 42
1964-65 -- rubella (German measles), last major US rubella epidemic, esp. newborn	--2,100
1965 -- chickenpox (varicella)	-- 143
1965 -- diphtheria, especially Alabama (5)	-- 18
1965 -- excessive cold (code E392)	-- 298
1965 -- heat, excessive (code E391)	-- 106
1965 -- hepatitis, infectious, US death rate 0.4 per 100,000 population	-- 707
1965 -- influenza, <sup>996</sup> death rate 1.2 per 100K, esp. ME/5.0, KS/4.0, NE/3.6, VE/3.3	--2,295

<sup>994</sup> Distinct from the 63,678 pneumonia deaths noted in the next column in Table 1-12.

<sup>995</sup> Distinct from the 51,764 pneumonia deaths noted in the next column in Table 1-14.

<sup>996</sup> Distinct from the 61,903 pneumonia deaths noted in the next USPHS 1965 Mortality Data column in Table 1-14.

1965 -- measles, esp. TX (42), GA (16), LA (16), OH (13), PA (12), AL (11), CA (11)	--	276
1965 -- mumps	--	31
1965 -- polio, acute (does not include late effects of poliomyelitis), especially TX (4)	--	16
1965 -- scarlet fever and streptococcal sore throat, esp. TX/7, GA/NC/SC/ 4 each	--	63
1965 -- tuberculosis, US death rate 4.1 per 100K; DC/12.7, AL/7.5, AZ/7.5, NM/6.6	--	7,934
1965 -- whooping cough (pertussis), especially children, especially SC/7, TX/7, CA/5	--	55
1965 -- Jan 15-19, blizzards/snow/cold, esp. IN & the East, esp. IN ~31, OH ~12	--	68-70
1965 -- Feb 22-25, winter weather, cold, snow, ice/glaze and wind, esp. MI/10	--	48-51
1965 -- Apr 06-27, heavy rain, flooding, levee failures, IA, IL, MO, MN/12, WI/3	--	15
1965 -- Apr 11, storms/Palm Sunday tornado outbreak, IL, IN/IA/MI/OH/WI	--	260-271
1965 -- June 16-17, intense rain/flooding, South Platte & Arkansas River basins, CO/23, KS/2--25	--	25
1965 -- Sep 07-10, Hurricane Betsy, southeast FL and southeast LA	--	81
1966 -- diphtheria, especially TX (6)	--	20
1966 -- excessive cold (code E-392). <sup>997</sup> USPHS <i>Vital Statistics</i> does not breakout by state--		365
1966 -- influenza (pneumonia deaths were 60,785), esp. CA/636, WA/154, OR/134	--	2,830
1966 -- leprosy (Hansen's disease)	--	6
1966 -- measles, esp. TX/36, IL/27, CA/19, SC/14, NY/12, AZ/MS/PA/TN/10 each	--	261
1966 -- meningococcal infections, esp. CA/109, TX/59, OH/50, NY/40, NC/38	--	876
1966 -- polio, acute (9), and late effects of acute poliomyelitis (139), esp. CA/22, TX/12	--	148
1966 -- scarlet fever and streptococcal sore throat, especially TX (12), NY (10)	--	65
1966 -- tuberculosis, esp. NY/844, PA/589, CA/537, IL/410, TX/404, OH/340, MI/303	--	7,625
1966 -- typhoid fever, AL/AZ/AR/GA/KY/MD/MS/NE/NY/OH/OK/SC/TN/TX	--	15-16
1966 -- whooping cough, especially West South Central (18), especially TX (9)	--	49
1966 -- Jan 26-Feb 02, winter storms/coldwave/nor easter/blizzards, esp. East	--	251-258
1966 -- Mar 02-05, snowstorm/blizzard, esp. MN (7), NE (1), ND (5), SD (7-8)	--	20-21
1966 -- Mar 22-24, Midwest blizzard/snowstorm, esp. NE (21), IA (6-7), MN (6-9)	--	41-46

### **Multi-State Large Loss-of-Life Events (continued):**

1967 -- chickenpox (PHS. <i>Vital Statistics of US 1967, Vol. II, Mortality, Part A.</i> 1969.	--	118
1967 -- diphtheria	--	32
1967 -- excessive natural cold	--	327
1967 -- excessive natural heat	--	96
1967 -- infectious hepatitis	--	844
1967 -- influenza (as distinguished from pneumonia 55,417)	--	1,475
1967 -- measles	--	81
1967 -- meningococcal infections	--	635
1967 -- mumps	--	37
1967 -- polio, acute and late effects of	--	121
1967 -- rubella (German measles)	--	16
1967 -- scarlet fever and streptococcal sore throat	--	47
1967 -- syphilis	--	2,381
1967 -- tuberculosis	--	6,901

<sup>997</sup> We note below three separate winter weather events, each most likely contributing to excessive cold/exposure deaths. The Jan 26-Feb 2 series of storms/weather resulted in 46 such deaths that we specifically know of.

1967 -- typhoid fever	“	-- 12
1967 -- whooping cough	“	-- 37
1967 -- Jan 26-27, Midwest blizzard/snow, IL/~60, esp. Chicago, IN/15, MI/22, OH/5 WI/5--94-107		
1967 -- Sep 05-22, Hurricane Beulah, TX and NM		-- 59
1967 -- Dec 13-20, snowstorms, AZ NM TX ND SD UT, esp. Navajo Res. AZ/NM/UT		--34-51
1968 -- chickenpox; ICD-8 code 052; esp. NY/10, TX/9, CA/8, MI/OH/PA/6 each		-- 99
1968 -- diphtheria (ICD-8 code 032), esp. TX/11, LA/6, AL/AZ/FL/GA/2, CA/KY/MI/NM/NY/1--		30
1968 -- excessive natural cold; ICD-8 code E901; esp. NY/34, IL/26, VA/24, PA/23, TN/22--494		
1968 -- excessive natural heat, ICD-8 code E900, esp. NY/22, OH/19, PA/16, CA/15		-- 231
1968 -- influenza, ICD-8 codes 470-474/death rate 3.5 per 100K, esp. VE/15.0, NE/9.1		--7,062
1968 -- measles, ICD-8 code 055; AL/AZ/CA/CO/IL/MO/NY/NC/OH/OK/OR/PA/RI/SC/TN/TX/WV		-- 24
1968 -- polio; ICD-8 codes 040-044; esp. CA/15, TX/12, NY/8, OH/8, MI/7, FL/6		-- 130
1968 -- rubella (German measles), ICD-8 code 056, esp. CA (5)		-- 24
1968 -- tuberculosis, US death rate 3.2 per 100K, esp. DC/10.9, AZ/6.2, AL/6.1, WV/5.8		--6,292
1968 -- typhoid/paratyphoid fever; ICD-8 code 001-002; CA/DC/GA/IL/MD/NJ/NM/NC/OK/TX/WV		-- 12
1968 -- Apr 03, tornadoes, AR (6), KY (2), TN (4)		-- 12
1968 -- May 15, tornado outbreak, esp. AR/45, IA/18, IL/8; also, IN, KS, OH, MO		-- 71
1968 -- Sep-Mar 1969, A2 “Hong Kong” influenza (and pneumonia) epidemic		--33,800

#### **Multi-State Large Loss-of-Life Events (continued):**

1969 -- chickenpox; ICD-8 code 052; especially FL (7), CA, MO, NJ, NY (5 each)		-- 81
1969 -- diphtheria (ICD-8 code 032), esp. TX/8, LA/4, WA/3, AZ/CA/FL/SC/2, NY/OR/1--		25
1969 -- excessive natural cold; ICD-8 code E901; esp. IL/33, MI/MN/NY 21 each		-- 424
1969 -- excessive natural heat, ICD-8 code E900, especially CA/36, TX/28, AZ/22		-- 271
1969 -- influenza, ICD-8 codes 470-474/death rate 2.96 per 100K, esp. KS/6.6, SC/6., MT/6.		--5,971
1969 -- measles/rubeola; ICD-8 code 055; esp. IL/TX/VA (4 each), AZ/CA/IA (3 each)		-- 41
1969 -- malaria, ICD-8 codes 084.0-084.9; CA/PA/WI (2 each), CT/FL/MI/TN/TX/1 each		-- 11
1969 -- mumps; ICD-8 code 072; especially NY (4)		-- 22
1969 -- polio; ICD-8 codes 040-044; especially CA/17, OH/10, FL/8, TX/7, MO/WI/5		-- 110
1969 -- rubella (German measles), ICD-8 code 056, esp. CA/5, NY/4		-- 29
1969 -- scarlet fever, ICD-8 code 034.1; CA (2), FL (2), MS (1), OH (1), TX (1)		-- 7
1969 -- tuberculosis, US death rate 2.76 per 100K, esp. DC/9.6, AZ/6.0, AL/5.9		--5,567
1969 -- whooping cough/pertussis; ICD-8 code 033; TX/4, AZ/CA/CO/IL/KY/MS/TN/VA/WI/1--		13
1969 -- Aug 17-20, Hurricane Camille, esp. South MS, So./SE LA, Nelson Co. VA		--299-335
1970 -- chickenpox; ICD-8 code 052; especially CA/16, NY/9, TX/7, MI/6		-- 93
1970 -- diphtheria (ICD-8 code 032), esp./ TX/6, AZ/5, LA/4K, CA/3, GA/2, MT/2		-- 30
1970 -- excessive natural heat, ICD-8 code E900, esp. CA/17 TX/16 AZ/15 WI/14		-- 179
1970 -- influenza, ICD-8 codes 470-474/death rate 1.82 per 100K, esp. VT/7.6, ME/5.6, MS/5.2		--3,707
1970 -- measles/rubeola; ICD-8 code 055; esp. TX/17, IL/9, OH/6, FL/5		-- 89
1970 -- mumps; ICD-8 code 072; MI/NY/NC/2 ea., AR/CA/IL/ME/ND/OH/TX/VA/WA/WI/1 ea--		16
1970 -- polio; ICD-8 codes 040-044; especially CA/17, NY/14, TX/13, MI/9, FL/7		-- 128
1970 -- rubella (German Measles), ICD-8 code 056, esp. TX/6 CA/3 AR/OH/WA/2 each		-- 31
1970 -- tuberculosis, US death rate 2.56 per 100K, esp. DC/6.8, AL/5.0 WV/4.5 KY/4.3		--5,217

1970 -- whooping cough/pertussis; ICD-8 code 033; CA/3, IL/IN/KY/MS/NC/OR/PA/SC/TX/1--	12
1970 -- Jan 06-12, cold wave/snow/ice, esp. east of Rockies, esp. IN/13, SC/10, TN/15	--79-81
1970 -- Sep 4-6, heavy rain, flash flooding, Four Corners, AZ (26), CO, NM, UT (2)	-- 28
1971 -- chickenpox; ICD-8 code 052; especially CA/16, TX/9, IL/6, NY/6	-- 98
1971 -- diphtheria (ICD-8 code 032), AK/CA/LA/TX 2 each, FL/GA/KS/MN/PA 1 each	-- 13
1971 -- excessive natural cold; ICD-8 code E901; esp. NM/21, IL/20, NC/19, MN/NC/18	-- 361
1971 -- excessive natural heat, ICD-8 code E900, especially CA (17)	-- 112
1971 -- influenza, ICD-8 codes 470-474/death rate 0.73 per 100K, esp. ME/2.9, NE & WA/1.9	--1,504
1971 -- malaria; ICD-8 code 084; AL, AR, CA, OH, OK, SC (1 each)	-- 6
1971 -- measles/rubeola; ICD-8 code 055; esp. MO/10, TX/8, PA/7, AL/5, KY/5, OH/5	-- 90
1971 -- mumps; ICD-8 code 072; AL, CA, ID, IL, IN KS MS NE NJ NY OR TN TX	-- 15
1971 -- polio; ICD-8 codes 040-044; especially CA/13, NY/11, TX/8, PA/7, NC/5	-- 108
1971 -- rubella/German Measles; ICD-8 code 056; AL CA GA HI IL IN IA LA MA NC OK PA TN TX--	20
1971 -- tuberculosis, US death rate 2.18 per 100K, esp. DC/5.8 AL/4.1 TN/3.5 AZ/3.3	--4,501
1971 -- whooping cough/pertussis; ICD-8 code 033; KY/4, LA/OK/TX/2, AL/GA/IA/MS/NY/OH/SC/1--	18
1971 -- Jan 02-4, snowstorm/blizzards, Rockies to Great Lakes, esp. IA/31, NE/11, IL, WI	--65-77
1971 -- Feb 08-09, snowstorm/arctic cold, Midwest, East, New England, esp. OH	-- 19
1971 -- Feb 21, tornadoes, Delhi LA/11; MS/110, esp. Pugh City/22, Inverness/19, Cary/14-	121
1971 -- Apr 27, tornadoes, KY/9 (particularly Mt. Pleasant Church area/6), IL (1)	-- 10

#### **Multi-State Large Loss-of-Life Events (continued):**

1972 -- chickenpox; especially CA/12, NY/12, OH/12, TX/10, NJ/8, FL/6, MA/6, MI/6	-- 122
1972 -- diphtheria (ICD-8 code 032), AK/2, NE/2, NY/2, WA/4	-- 10
1972 -- excessive natural cold, ICD-8 code E901, esp. IL/46 NY/36 OH/24 VA/22	-- 490
1972 -- excessive heat; heat as contributing factor, esp. July 12-25 NYC/891, MD/269	--1,324
1972 -- influenza, ICD-8 codes 470-474/death rate 2.38 per 100K, esp. SD/8.9 ME/8.7	--4,986
1972 -- measles/rubeola; ICD-8 code 055; esp. MS/6 & TX/4; & CA/FL/GA/IL/KY/ME/TN	-- 24
1972 -- mumps; ICD-8 code 072; TX/4, CA/2, IN/2, NY/2, PA/2, UT/2, WV/2	-- 16
1972 -- polio; ICD-8 codes 040-044; esp. CA/18, FL/6 and NY/6	-- 76
1972 -- rubella (German measles), ICD-8 code 056, CA IN LA MA NE NY OH 2 each	-- 14
1972 -- tuberculosis, US death rate 2.09 per 100K, esp. DC/4.8, DE/4.2, AL/3.9 NM/3.9	--4,376
1972 -- typhoid fever; ICD-8 code 001 (Typhoid fever); MD/2, MI/2, TX/4	-- 8
1972 -- whooping cough (pertussis; ICD-8 code 033); NJ/2, SC/2, WA/2	-- 6
1972 -- June 19-22, Hurricane Agnes, Northeast U.S.	-- 129
1972 -- Aug 16, sudden gale off northern CA/2 and Southern OR/11	-- 13
1973 -- chickenpox; esp. TX/21, CA/10, IL/10, PA/9, NY/8, IA/7, MA/7, MI/7, MT/5	-- 138
1973 -- diphtheria (ICD-8 code 032), CA/2, FL/1, MA/1, NM/2, OR/3, WA/1	-- 10
1973 -- excessive natural cold; ICD-8 code E901, esp. NC/33 SC/32 NY/19 AZ/18	-- 381
1973 -- excessive natural heat; ICD-8 code E900; esp. NY/31 VA/20 PA/16 MD/15 AZ/12	--181
1973 -- influenza, ICD-8 codes 470-74/death rate 2.4 per 100K, esp. ID/7.4 WY/7.4 WA/7.2	--5,131
1973 -- malaria, ICD-10 Code 084, FA/1, IL/2, IN/1, MI/1, NJ/1, ND/1	-- 7
1973 -- measles/rubeola; ICD-8 code 055; esp. CA/2, FL/2, IL/2, MI/2	-- 23
1973 -- mumps; ICD-8 code 072; CA/2, 1 each FL ID MN OK OR PA RI TN WA WV	-- 12



1973 -- polio; ICD-8 codes 040-044; esp. CA/8, NY/7, TX/6, MA/5, WV/5	-- 93
1973 -- rubella (German measles), ICD-8 code 056, esp. MI (4), CA (3), TX (2)	-- 16
1973 -- scarlet fever, ICD-8 code 034.1; CA/1, IA/1, NV/1, TN2, TX/1	-- 6
1973 -- tuberculosis, US death rate 1.84 per 100K, esp. DC/5.0 TN/2.9 AL/2.8 WV/2.8	--3,875
1973 -- typhoid fever; ICD-8 code 001; IN/1 MO/3 NY/1 OH/1 TN/1	-- 7
1973 -- whooping cough (pertussis; ICD-8 code 033); CA/1, MI/1, NC/1, SC/1, TX/1	-- 5
1973 -- Feb 08-11 snow storm, Southeast U.S., AL/FL/GA/LA/MS/NC/SC/TX/VA	-- 19
1973 -- Mid-Mar-May, flooding, Mississippi River Basin/drainage area	--28-33
1973 -- Mar 31, tornadoes, Rockdale, Walton, Clarke Co's. GA/3, Abbeville Co. SC/7	-- 10
1973 -- Apr 08-10, Midwest snowstorms/blizzards, IL/2, IA/16-17, MN/3, WI/20	--41-42
1973 -- May 26, tornadoes, AR/3, Cheney Reservoir KS/3, Keefeton OK/5	-- 11
1974 -- chickenpox; US death rate 0.050 per 100K, especially CA/10, MA/7, NY/7	-- 106
1974 -- cold; ICD-8 code E901, exposure to excessive natural cold, esp. AZ/26, IL/23	-- 348
1974 -- heat, exposure to excessive natural heat; ICD-8 code E900; esp. AZ/22 CA/16 TX/11	-- 140
1974 -- influenza, ICD-8 codes 470-474, death rate 1.30 per 100K, esp. KS/3.48	--2,201
1974 -- measles/rubeola; ICD-8 code 055; esp. CA/2, NY/2, SD/2, TX/2	-- 20
1974 -- mumps; ICD-8 code 072; AL, LA, MA, MO, OR, WA 1 each	-- 6
1974 -- polio; acute poliomyelitis/ICD-8 codes 040-044; especially CA (10), NY (9)	-- 89
1974 -- rubella (German measles), ICD-8 code 056, esp. AL (3), AZ (2), MA (2)	-- 15
1974 -- tuberculosis, US death rate 1.65 per 100K, esp. DC/5.1, KY/2.8, TN/2.6	--3,513
1974 -- whooping cough (pertussis; ICD-8 code 033.0); esp. CA/2, KY/2, MI/2, NY/3	-- 14
1974 -- serial killings, Paul John Knowles, FL, OH, NV, TX, AL, VA, GA	-- 18
1974 -- Apr 03-04, tornadoes, AL, GA, IL, IN, KY, MI, NC, OH, TN, VA, WV	-- 330
1974 -- Nov 30-Dec 02, snowstorms, esp. SE MI/32, Northeast OH/12, West PA/11	-- 71

**Multi-State Large Loss-of-Life Events (continued):**

1975 -- Chickenpox; US death rate 0.039 per 100K, esp. NY/8, CA/6, TX/6, CT/5	-- 83
1975 -- Diphtheria; ICD-8 code 032, AK (1), AZ (1), VA (1), CO (1), IL (1)	-- 5
1975 -- Exposure to excessive natural cold/hypothermia (ICD-8 E901); esp. NM/21	-- 359
1975 -- Exposure to excessive natural heat; ICD-8 code E900; esp. NY/27, MA/24, CA/21	-- 190
1975 -- German Measles (Rubella); ICD-8 code 056; esp. IL/3, LA/3, CA/2, PA/2	-- 21
1975 -- Influenza, ICD-8 codes 470-474, death rate 1.986 pre 100K, esp. KS/6.317	--4,277
1975 -- Measles/rubeola; ICD-8 code 055; especially IL (4), CA (3), TX (3)	-- 20
1975 -- Mumps; ICD-8 code 072; CA, LA, NC, OH, TX, VA, WI and WY 1 each	-- 8
1975 -- Polio (acute poliomyelitis, ICD-8 codes 040-044), especially CA (9), NY (6)	-- 78
1975 -- Tuberculosis, US death rate 1.55 per 100K, esp. DC/3.8, KY/2.74, TN/2.72	--3,333
1975 -- Whooping Cough (pertussis; ICD-8 code 033.0); MO/2 FL GA IL IN MI TX, 1 each	-- 8
1975 -- Jan 10-12, midwest winter storm/blizzard, esp. IA/15 MN/35 NE/14 ND/12 SD/8	--89-90
1975 -- Jan 10, tornadoes, LA, MS, AL	-- 11
1976 -- chickenpox; US death rate 0.05 per 100K; CA/9, NY/9, TX/9, IL/8, NJ/7	-- 106
1976 -- diphtheria (ICD-8 code 032), CA/1, CO/1, NM/1, OH/1, TX/1, WA/2	-- 7
1976 -- exposure to excessive natural cold/hypothermia; ICD-8 E901; esp. PA/24	-- 424
1976 -- exposure to excessive natural heat; ICD-8 E900 code, esp. CA/25 & AZ/11	-- 100

1976 -- influenza, ICD-8 codes 470-474, death rate 3.6 per 100K, esp. NE/12.9	--7,877
1976 -- measles/rubeola/12 and German Measles/rubella/12; ICD8 codes 055 & 056	-- 24
1976 -- polio (acute poliomyelitis, ICD-8 codes 040-045), especially CA/11, MI/6	-- 90
1976 -- tuberculosis, US death rate 1.44 per 100K, esp. DC/4.0, NM/2.8, AL/2.6	--3,130
1976 -- whooping cough, NY/2, FL, MS, OH, OK, WI one each (6 under 1, 1/10-14)	-- 7
1976 -- Nov-Jan 77, Guillain-Barré syndrome outbreak, some blamed on swine flu vaccine--	58
1977 -- chickenpox; US death rate 0.04 per 100K, esp. CA/13, NJ/NY/TX/8 each	-- 89
1977 -- exposure to excessive natural cold/hypothermia, (ICD-8 E901); esp. OH/43 <sup>998</sup>	-- 634
1977 -- German measles (rubella), MI/3, CA/IL/KY/VA/2 ea., AZ/FL/GA/NM/NY/WI/1--	17
1977 -- heat (esp. summer), ICD-8 E900 excessive natural heat, esp. MO/33, CA/NC/24	-- 308
1977 -- influenza, ICD-8 codes 470-474, US death rate 0.59 per 100K, esp. AL/1.98	--1,304
1977 -- Legionella pneumophila (Legionnaires'), sum-fall esp., CA/2 OH/1 TN/3 VT/17	-- 32
1977 -- measles (rubeola), CA/TX/2, CT/FL/GA/IN/MO/NJ/NC/OR/TN/VA/WI/1	-- 15
1977 -- polio (acute poliomyelitis, ICD-8 codes 040-045), US death rate 0.05 per 100K	-- 100
1977 -- tuberculosis, US death rate 1.35 per 100K, esp. DC/4.24, TN/2.8, KY/2.2	--2,968
1977 -- whooping cough, CA, FL, GA, KS, NC, PA, TN, TX, VA, WA 1 each	-- 10
1977 -- Jan 26-Feb 1, winter storms/blizzards/cold wave, esp. west NY, IN, OH, MI, WI	-- 116
1977 -- Apr 03-08, rain, flooding, West Appalachians, KY/5, TN/7, VA/7, WV/3	-- 22
1977 -- Nov 06-07, heavy rain, flooding, esp. west Appalachian Mts., NC, TN	-- 13
1977 -- Dec 05-12, snowstorms, cold wave, wind, esp. upper midwest and northeast	-- ≥114

### **Multi-State Large Loss-of-Life Events (continued):**

1978 -- chickenpox; US death rate .04 per 100K, esp. CA/14 (.06), TX/8 (.06), CT	-- 91
1978 -- exposure to excessive natural cold/hypothermia; ICD-8 E901, esp. OH/39 <sup>999</sup>	-- 652
1978 -- German measles (rubella), ICD 8 code 056; CA/FL/IL/IN/MO/OK/TN/WI	-- 10
1978 -- heat (esp. summer), ICD-8 E900 excessive natural heat, esp. TX/43, AZ/31, CA/27--	267
1978 -- influenza, ICD-8 codes 470-474, US death rate 1.8 per 100K, esp. ME/5.0, KS/4.7--	4,052
1978 -- measles (Rubeola), ICD-8 code 055; GA/2, IN/2, IA/MI/NJ/NY/OH/TX/VA	-- 11
1978 -- polio (Acute poliomyelitis, ICD-8 codes 040-045), US death rate 0.04 per 100K	-- 95
1978 -- tuberculosis, US death rate 1.31 per 100K, esp. DC/4.02, AL/2.35, LA/2.08	--2,914
1978 -- Jan 25-27, Gulf /Arctic air mix; wind/cold/blizzards, esp. upper Midwest, OH	--143-146
1978 -- 1978 -- Feb 05-7, nor'easter/blizzard, Northeast, esp. CT, NJ, NY, MA/73, RI/≥20-119-129	
1979 -- Chickenpox; US death rate 0.05 per 100K, esp. CA/11, NY/10, TX/8, AL/WI/5	-- 103
1979 -- Exposure to excessive natural cold/hypothermia; ICD9 E901.0; esp. IL/25 <sup>1000</sup>	-- 356
1979 -- Influenza, US death rate 0.27 per 100K, esp. ID/1.18, NE/1.15, KS/.98, WA/.85	-- 604
1979 -- Measles, ICD-9 codes 055-056; IL, KS, LA, ME, NJ, PA, TX (1 each)	-- 7
1979 -- tuberculosis, US death rate 0.89 per 100K, esp. DC/2.7, KY/1.7, MS/1.6	--2,007

<sup>998</sup> Some double-counting from dated 1977 winter events noted below. There were at least 20 cold exposure deaths in the Jan 26-Feb 1 event and at least 17 cold exposure and hypothermia deaths in the Dec 5-12 event

<sup>999</sup> Includes deaths also recorded in the dated winter events (such as Jan 25-27 and Feb 5-7) noted below.

<sup>1000</sup> There are a few double-counting deaths from the Feb 17-20, 1979 winter event, wherein we are aware of two exposure deaths in GA, one in NY and four in PA. Many Feb 17-20 deaths were due to vehicular incidents on icy or snow-covered roads, heart attacks related to snow shoveling, sledding incidents, and slippery ice falls.

1979 -- typhoid & paratyphoid Fevers ICD-9 codes 002.0-002.9, AZ/CA/GA/MS/TX	--	5
1979 -- Feb 17-20, snow/ice storms/extreme cold, Plains to East, Gulf to New England	--	~67
1979 -- June-Aug esp., heat, ICD-9 E900 excessive heat/hyperthermia, esp. CA/AZ/TX	--	148
1979 -- Aug 30-Sep 6, Hurricane David, Puerto Rico (Aug 30-31) and East Coast	--	21-22
1979 -- Oct 29-Nov 2, winter snow storm/blizzard, Midwest/Great Plains, esp. CO/6	--	13
1979 -- Oct 31, Western Airlines Flight 2605 crash, Mexico City Int. Airport	--	34 U.S. of 73
1979 -- Nov 28, Air New Zealand sightseeing crash, Mount Erebus, Antarctica	--	24 U.S. of 257
1980 -- Chickenpox; US death rate 0.03 per 100K, esp. NY/9, TX/8, IL/7, MI/5	--	78
1980 -- Exposure to excessive natural cold/hypothermia; ICD9 E901.0; esp. MI/19	--	302
1980 -- Influenza, US death rate 1.19 per 100K, esp. ND/4.3, MA/3.4, ME/3.3, MT/3	--	2,702
1980 -- Measles, ICD-9 codes 055-056; CA/3, NJ/2, NY/2, KS/MN/OK/PA/TN (1 each)	--	12
1980 -- Plague (All forms/5, Bubonic/2), New Mexico (3), CA (1), NV (1)	--	5
1980 -- Polio, DE (1), NY (2), OH (2), PA (1)	--	6
1980 -- Tuberculosis, US death rate 0.87 per 100K, esp. DC/4.21, SC, 1.79, AL/1.74	--	1,978
1980 -- Whooping Cough, under 1 year/10, 1-4 years/1, CA/FL/GA/KY/NY/PA/VA	--	11
1980 -- Jan 08-10, snowstorm, OR (6) and WA (3)	--	9
1980 -- June-Sep, heat, esp. Midwest & So. Plains, esp. MO/TN/AR/TX/MS <sup>1001</sup>	--	1,863-1,904
1980 -- Aug 06-10, Hurricane Allen, TX & off LA coast (including copter crash 13)	--	24

#### **Multi-State Large Loss-of-Life Events (continued):**

1981 -- chickenpox; US death rate 0.04 per 100K, esp. IL/8, CA/7, NY/7, OH/6, NJ/5	--	84
1981 -- exposure to excessive natural cold/hypothermia (ICD9 E901.0); esp. VA/20	--	289
1981 -- HIV AIDS (Human Immunodeficiency Virus Infection/Acquired Immune Deficiency Syndrome)	--	234
1981 -- influenza, US death rate 1.31 per 100K, esp. SD/4.2, IA/3.5, UT/3.3, VT/3.3	--	3,006
1981 -- measles, US death rate 0.003 per 100K; CA/FL/IN/MA/WA (1 each), OH/2	--	6
1981 -- tuberculosis, US death rate 0.84 per 100K, esp. AL/1.96, DC/1.57, FL/1.43	--	1,937
1981 -- whooping cough/pertussis, one death each: CO, GA, KY, ND, WA, WI	--	6
1981 -- June-Aug (esp.), heat, esp. CA/44, GA/32, TX/23, OR/19, AZ/17, NY/16, AR/14	--	≥345
1981 -- Nov 13-15, windstorms, Pacific Northwest, especially OR/10 and WA/5	--	15
1982 -- Chickenpox; US death rate 0.03 per 100K, especially CA/11, FL/6, NY/6	--	61
1982 -- Exposure to excessive natural cold/hypothermia; ICD9 E901.0, esp. VA/26 <sup>1002</sup>	--	402
1982 -- HIV AIDS, U.S.	--	618
1982 -- Influenza, US death rate 0.31 per 100K, esp. NE/1.78, SD/1.74, ND/1.34	--	727
1982 -- Measles, US death rate 0.003 per 100K; AZ, KY, MI, MS, NH, NY	--	6
1982 -- Scurvy/ascorbic acid deficiency, IN, KY, MD, MA, OH, TX (1 death each)	--	6
1982 -- Tuberculosis, US death rate 0.78 per 100K, esp. DC/2.83, AL/1.63, TN/1.4	--	1,807

<sup>1001</sup> Our range is based on a State by State tally using best available sources which actually counted deaths. There are "estimates" for 1980 of 2,000-10,000 deaths, for which we find no explanation of how the estimates were made. We suspect they were based on looking at spikes in deaths during high heat, and attributing a percentage of the spikes to heat, at least as a contributing or aggravating factor. No doubt it is true that spikes in deaths during high heat can be associated with the heat. However, we seek to provide tallies based on counting, as opposed to estimating.

<sup>1002</sup> Probable double-counting from one or more of the dated winter events noted below for 1982.

1982 -- Jan 07-18, extreme cold waves, ice/snow storms, esp. South, NE, Midwest --256-314  
 1982 -- Apr 02, tornadoes, AR/IL/IA/KS/LA/MS/NE/OK/TN/TX esp. AR/15, MS/3, MO/2 TX/11--31  
 1982 -- Apr 05-08, snow/blizzards/wind/cold, Midwest to New England, esp. IL, OH --61-67  
 1982 -- June-Aug (esp.), heat (ICD Code E900, Excessive heat/hyperthermia) -- 196

**Multi-State Large Loss-of-Life Events (continued):**

1983 -- chickenpox; US death rate 0.02 per 100K, especially NY/8, CA/5, TX/5 -- 57  
 1983 -- Exposure to excessive natural cold/hypothermia; ICD9 E901.0; esp. GA/36<sup>1003</sup> -- 510  
 1983 -- HIV AIDS, New York City (425), U.S. --1,500  
 1983 -- Influenza, US death rate 0.61 per 100K, esp. ME/3.9, MT/3.2, MN/2.7 --1,431  
 1983 -- Measles/Rubella (German Measles) CA/1, FL/1, KS/1, MI/1, MN/1, NM/1, NC/1 -- 7  
 1983 -- Tuberculosis, US death rate 0.76 per 100K, esp. DC/3.63, AL/1.6, LA/1.2 --1,779  
 1983 -- Feb 10-12, snow storm/blizzard, Mid-Atlantic Coast, Southern New England -- 13  
 1983 -- July-Aug esp., heat (esp. July 15-30) esp. MO/70 KY/57 IL/53 GA/35 TX/35 --595-597  
 1983 -- Dec 14-31, snow/extreme cold (eastern two-thirds US), sleet/ice (esp. South) --469-471

1984 -- Chickenpox; US death rate 0.02 per 100K, especially CA/8, TX/7, NY/5 -- 53  
 1984 -- Exposure to excessive natural cold/hypothermia; ICD-9 E901.0; esp. MN/21<sup>1004</sup> -- 359  
 1984 -- HIV AIDS, New York City (952) --3,578  
 1984 -- Influenza, US death rate 0.46 per 100K, esp. MT, 2.3, OR/1.7, WA/1.4, AR/1.3 --1,096  
 1984 -- Meningococcal Meningitis, ICD-9 code 036.0, esp. CA and NY (8 each) -- 95  
 1984 -- tuberculosis, US death rate 0.73 per 100K, esp. DC/3.62, AL/1.57, NY/1.21 --1,729  
 1984 -- Jan 17-22, cold wave/snowstorms, especially West, Midwest, Northeast --63-65  
 1984 -- Feb 04-05, snow, deep cold, wind, blizzard, esp. Upper Plains, esp. MN (16) --47-52  
 1984 -- Feb 26-29, snowstorms, Mid-MS/OH Valleys NE to New Eng., esp. IL, NY, OH -- 65  
 1984 -- Mar 07-10, severe cold/snow, especially Upper Midwest and Northeast --32-33  
 1984 -- Mar 28-30, nor'easter, wind/snow storms, Northeast, esp. NY/~16, PA/~11 -- ~33  
 1984 -- Mar 28, tornadoes and severe weather, NC (42-44) and SC (21) --63-65  
 1984 -- May 06-10, severe storms, flooding/12 deaths, tornadoes, SE, esp. KY/7, TN/3 -- 16  
 1984 -- June-early Sep, heat, especially CA/53, TX/23, AZ/16, PA/15, NY/14 -- 228  
 1984 -- June 07, tornadoes (13), high wind, flash flooding, WI/9, OK, IA/4, MO/2 -- 15

1985 -- chickenpox; US death rate 0.03 per 100K, esp. CA/13 and NY/10 -- 68  
 1985 -- Exposure to excessive natural cold/hypothermia; ICD9 E901.0; esp. IL/39<sup>1005</sup> -- 519  
 1985 -- HIV AIDS, New York City (1,663), U.S. --6,903  
 1985 -- Influenza, death rate 0.86 per 100K, esp. NE/4.1, MT/2.8, IA/2.6, KS/2.4, WY/2.2 --2,054  
 1985 -- Malaria, ICD-9 codes 084.0-084.9, death rate 0.01 per 100,000 -- 13  
 1985 -- Measles ICD-9, 055 code, AZ (1); IL (1); ME (1); MA (1) MO (1, rubella/056) -- 5  
 1985 -- Meningococcal Meningitis, especially TX (9), NY (8), CA (7), NJ/5, PA/5 -- 88  
 1985 -- Tuberculosis, US death rate 0.74 per 100K, esp. DC/3.46, GA/1.34, AL/1.23 --1,752  
 1985 -- Jan 08-13, winter cold wave and snow storms, esp. PA/6; MA/5 and TX/5 -- 36  
 1985 -- Jan 18-24 (esp. 19-21), winter cold wave/storms, esp. East and South --176-184

<sup>1003</sup> Probable double-counting from one or more of the dated winter events noted below for 1983.

<sup>1004</sup> Probable double-counting from one or more of the dated winter events noted below for 1984.

<sup>1005</sup> Probable double-counting from one or more of the dated winter events noted below.



1985 -- summer heat, ICD-9 E900 (excessive heat/hyperthermia), esp. CA/29; GA/26 -- 227  
 1985 -- Sep 27-28, Hurricane Gloria, East Coast, esp. NC/NJ/NY/CT/MA/NH/RI<sup>1006</sup> --15-16  
 1985 -- Nov 04-05, flooding, Hurricane Juan remnants, WV, VA, PA, MD (esp. WV)<sup>1007</sup> --71-74

### **Multi-State Large Loss-of-Life Events (continued):**

1986 -- chickenpox; US death rate 0.02 per 100K, esp. NY (9), TX (7), CA (5) -- 47  
 1986 -- Exposure to excessive natural cold/hypothermia; ICD9 E901.0; esp. IL/32 -- 301  
 1986 -- HIV AIDS, New York City (2,650), U.S. 12,053  
 1986 -- Influenza, US death rate 0.76 per 100K, esp. VT/3.93, ME/3.59, MN/3.19, ND/2.84 --1,838  
 1986 -- Measles, ICD-9, 055; LA/1, MS/1; ICD-9 056 (Rubella/German measles) TX/1 -- 3  
 1986 -- Meningococcal Meningitis, ICD-9 code 036.0, esp. CA (13), NY (10) -- 88  
 1986 -- Tuberculosis, US death rate 0.74 per 100K, esp. DC/1.72, DE/1.43, NY/1.34 --1,782  
 1986 -- June-Aug, heat, esp. GA/41 TX/38 IL/30 AR/25 MS/23 CA/22 SC/22 NC/20 -- ≥400

1987 -- Chickenpox, US death rate 0.04 per 100K, esp. NY (14), CA (10) -- 89  
 1987 -- Exposure to excessive natural cold/hypothermia; ICD9 E901.0, esp. VA/28 -- 326  
 1987 -- Heat, summer, esp. Philadelphia/50, MO/28, FL/24, GA/24, TX/23, AR/21<sup>1008</sup> -- 388  
 1987 -- HIV Infection/AIDS, death rate 5.55, esp. DC/28.1, NY/19.1, NJ/13.7, CA/9.5 13,468  
 1987 -- Influenza, death rate 0.26 per 100K; esp. NE/1.02 (16), SD/1.29 (9), VE/1.11 (6) -- 632  
 1987 -- Meningococcal Meningitis, ICD-9 code 036.0, death rate 0.03 per 100K, esp. CA/13-- 64  
 1987 -- Tuberculosis, US death rate 0.72 per 100K, esp. DC/2.82, AL/1.54, NY/1.5 --1,755  
 1987 -- Mar 27-29, snowstorms and cold, especially Midwest and Plains -- ≥11

1988 -- chickenpox, US death rate 0.03 per 100K, esp. WY/0.22 (1), AK/018 (1) -- 83  
 1988 -- Exposure to excessive natural cold/hypothermia; ICD9 E901.0; esp. IL/48 -- 431  
 1988 -- Heat, Summer (esp.); esp. IL/341, MI/121, IN/~44, MO/~44, MA/40, CA/37 --913-921  
 1988 -- HIV AIDS, US death rate 6.8, DC/39.0, NY/22.2, NJ/114.9, FL/11.7, CA/11.1 16,602  
 1988 -- Influenza, US death rate 0.79 per 100K; esp. ID/3.7, IA/2.5, MT/2.6, SD/3.3 --1,943  
 1988 -- Measles, LA County, CA/1 Palm Beach Co., FL/1 Palm Beach Co., OR/1 -- 3  
 1988 -- Meningococcal Meningitis, ICD-9 code 036.0/death rate 0.04 per 100K, esp. CA/13-- 87  
 1988 -- Tuberculosis, US death rate 0.78 per 100K, esp. DC/2.05, NY/1.61, HI/1.48 --1,921  
 1988 -- June 11-June 18, 2003, Charles Cullen Hospital Serial Killer, NJ, PA --35-45

1989 -- Chickenpox, US death rate 0.04 per 100K, esp. CA/0.06 (18), NJ/0.13 (10) -- 89  
 1989 -- Exposure to excessive natural cold/hypothermia; ICD9 code E901.0; esp. IL/45 -- 524  
 1989 -- HIV AIDS, US death rate 8.9, DC/55.7, NY/25.6, NJ/19.6, FL/16.1, CA/14.9 22,082  
 1989 -- Influenza, US death rate 0.64 per 100K; esp. IA/2.38, MT/2.1, ND/2.17, OR/2.0 --1,593  
 1989 -- Malaria, ICD-9 codes 084.0-084.9, death rate 0.004 per 100,000 -- 11  
 1989 -- Meningococcal Meningitis, ICD-9 code 036.0, especially CA/20, NY/13 -- 88  
 1989 -- Tuberculosis, US death rate 0.80 per 100K, esp. DC/2.55; NY/1.63; LA/1.34 --1,970  
 1989 -- Whooping Cough (ICD-9 code 033.0), 9 (under 1 year), 3 (1-4 years old) -- 12  
 1989 -- Jan 31-Feb 9, Arctic "Siberian Express" out of Alaska, two-thirds of US --76-91

<sup>1006</sup> The range -- we can find no substantiation for a report of one life lost in a plane crash in NY related to the storm.

<sup>1007</sup> Cross-listed in Flooding. This is separate from Oct 27-31 Hurricane Juan entry in Gulf Coast and coastal LA.

<sup>1008</sup> Does not include 18 illegal immigrants who died of dehydration and heat in locked RR car, Sierra Blanca, TX.

1989 -- Apr 19, <i>USS Iowa</i> No. 2 turret explosion, near Puerto Rico	-- 47
1989 -- heat, especially June-August, especially MO (~18) and T (9)	-- 201
1989 -- June 26-July 5, Tropical Storm Allison & remnants, esp., LA, MS, TX, NC, DE, NJ--	20
1989 -- Sep 18 (Puerto Rico); 21-22 (SC/NC), Hurricane Hugo, also VA, NY, USVI	--59-86

### **Multi-State Large Loss-of-Life Events (continued):**

1990 -- chickenpox, US death rate 0.05 per 100K, esp. CA (26), NY (14), TX (10)--	120
1990 -- Exposure to excessive natural cold/hypothermia; ICD9 code E901; esp. IL/45	-- 596
1990 -- Influenza, US death rate 0.84 per 100K; esp. NE//3.5; IA/3.1; ID/2.3; SD/2.3	--2,098
1990 -- Tuberculosis, US death rate 0.73 per 100K, esp. DC/1.97; NY/1.63; MS/1.48	--1,810
1990 -- Whooping Cough (ICD-9 code 033.0), 11 (under 1 year), 1 (1-4 years old)	-- 12
1990 -- Feb 23 (evening)-24, Snowstorm, cold front, wind, MI, IN, OH (blizzard)	--22-23
1990 -- June-Aug, Heat; esp. FL (10 deaths); LA (21); MO (12); and OK (11)	-- 92
1990 -- Oct 10-12, Tropical Storms Marco and Klaus remnants, FL, GA, SC, NC	-- 12
1991 -- chickenpox, US death rate 0.03 per 100K, especially CA, 0.06 (17 deaths) --	81
1991 -- exposure to excessive natural cold/hypothermia; ICD9 E901 code, esp. IL/63	-- 588
1991 -- influenza, US death rate 0.45 per 100K; esp. NE/2.38, ND/1.73, IA/1.54	--1,137
1991 -- meningococcal meningitis, US death rate 0.02 per 100K, CA 0.03/10 deaths	-- 59
1991 -- tuberculosis, US death rate 0.68 per 100K, esp. DC/2.32. NY/1.62; AR/1.17	--1,713
1991 -- Aug 19-20, Hurricane Bob, coastal SC, NC, NY, and New England	--15-16
1991 -- Oct 28-Nov 1, Perfect Storm Nor'easter, East Coast, <i>Andrea Gail</i> Lost	-- 13
1992 -- chickenpox, US death rate 0.04 per 100K, esp. TX (12 deaths) at 0.07	-- 100
1992 -- exposure to excessive natural cold/hypothermia; ICD-9 code E901, esp. PA/37	-- 558
1992 -- influenza, US death rate 0.39 per 100K; esp. ME/1.94; MT/1.21; WV/1.27--1,006	
1992 -- measles, especially young children	-- 3-11
1992 -- meningococcal meningitis, US death rate 0.02 per 100K	-- 61
1992 -- tuberculosis, US death rate 0.66 per 100K, esp. NY, 1.38; MS, 1.33	--1,705
1992 -- July-Aug (especially), heat; especially CA/37, TX/20, AZ, GA, MS 10 each	-- 155
1992 -- Nov 21-23, tornado outbreak, GA/6 KY/1 MS/15 NC/2 SC/1 TN/1	-- 26
1992 -- Dec 10-13, East Coast Nor'easter; snow/high waves/wind; esp. PA (9)	-- ~23
1993 -- Chickenpox, US death rate 0.04 per 100K, especially CA (17), NY (16)	-- 100
1993 -- Exposure to excessive natural cold/hypothermia; ICD9 E901 code, esp. MI/42 <sup>1009</sup>	-- 641
1993 -- Influenza, US death rate 0.40 per 100K; esp. ID 2.62; VE 2.42; MT 1.54; OR 1.37	--1,044
1993 -- Malaria, ICD-9 codes 084.0-084.9, death rate 0.005 per 100,000	-- 12
1993 -- Meningococcal Meningitis, US death rate 0.10 per 100K; esp. CA & GA, 0.14	-- 260
1993 -- Tuberculosis (US death rate 0.63 per 100K), esp. DC/2.51 and NY/1.16	--1,631
1993 -- Mar 12-14, Gulf/East Coast late Winter Storm <sup>1010</sup> ; esp. FL/51 & PA/52 --247 (US)--	318
1993 -- May esp., Hantavirus Pulmonary Syndrome, esp. Native Americans, NM/AZ	--13-16
1993 -- May-early Nov, especially July, Midwest Flooding, esp. MS & MO Rivers	--66-85
1993 -- June-Aug (esp.), Heat, especially July 6-16 Philadelphia Heatwave (118)	-- 311

<sup>1009</sup> Will be some double-counting in that there were no doubt hypothermia deaths in the dated winter events below.

<sup>1010</sup> Sometimes referred to as the "Superstorm of 1993," or the "Storm of the Century."

1993 -- Dec 24-30, cold-wave/snow/sleet, MT to New Eng., south to OK and East -- 26

**Multi-State Large Loss-of-Life Events (continued):**

1994 -- chickenpox, especially CA (17), MI (10), NY (10) and TX (48)	-- 124
1994 -- exposure to excessive natural cold/hypothermia; ICD-9 code E901, esp. NY/38 <sup>1011</sup>	-- 633
1994 -- influenza, US death rate 0.47 per 100K; esp. SD/2.6; MT/1.7; IA/ 1.5; NE/1.22	--1,229
1994 -- meningococcal meningitis, ICD-9 code 36.0; death rate 0.10 per 100K; esp. CO	-- 276
1994 -- shigellosis (infectious diarrhea / bacillary dysentery) ICD-9 code 004.0	-- 13
1994 -- tuberculosis, ICD-9 code 010-018, death rate 0.56 per 100K, esp. DC, 1.86	--1,478
1994 -- Jan 04-05, 'Nor'easter,' heavy snow, East Coast, esp. northeast, esp. PA (10)	-- ~17
1994 -- Jan 14-21, winter extreme cold and snow, Northeast, Midwest, South <sup>1012</sup>	--78-110
1994 -- Feb 08-13, Southeast, Southwest, Midwest ice, snow, freezing rain, sleet	-- ≥15
1994 -- June-Aug esp., heat, esp. AZ/47 (esp. July), CA/33, PA/22 (esp. July 5-10), TX/16	-- 221
1994 -- July, early to mid, Tropical Storm Alberto, Southeast Flooding	-- 50
1995 -- adenovirus infection, ICD-9 code 079.0, death rate 0.004 per 100,000	-- 11
1995 -- chickenpox, esp. children <9 (38) and 25-34 (30), esp. PA (10), TX (12)	-- 115
1995 -- exposure to excessive natural cold/hypothermia (ICD9 code E901); esp. IL/41	-- 553
1995 -- influenza, ICD-9 code 487.0; US death rate 0.23 per 100K; esp. WV, 1.32	-- 606
1995 -- meningococcal meningitis, ICD-9 code 036.0; death rate 0.03	-- 82
1995 -- tuberculosis, ICD-9 code 010-018, death rate 0.5 per 100K, esp. DC, 1.89	--1,336
1995 -- June-Aug, esp. July 12-17, heat, esp. IL/>700 WI/154 PA/146 MO/58	1,563-1,601
1995 -- Aug 13-19 Hurricane Felix, especially NC and NJ (also RI and VA)	-- 12
1995 -- Aug 23-28, Tropical Storm Jerry, especially FL, SC, NC	-- 13
1995 -- Sep 15-16, Hurricane Marilyn, U.S. Virgin Islands, Puerto Rico	-- 10
1995 -- Oct 04, Hurricane/Tropical Storm Opal, FL panhandle, AL, NC, esp. GA	--30-34
1996 -- chickenpox (varicella), ICD-9 code 052	-- 81
1996 -- exposure to excessive natural cold/hypothermia; ICD9 code E901; esp. PA/43 <sup>1013</sup>	-- 685
1996 -- influenza, ICD-9 code 487; US death rate 0.276 per 100K; esp. SD (1.616)	-- 745
1996 -- meningococcal meningitis, ICD-9 code 036.0; death rate 0.03	-- 82
1996 -- tuberculosis, ICD-9 code 010-018, death rate 0.45 per 100K, esp. DC, 1.92	--1,202
1996 -- Jan 06-08, Blizzard of '96, East Coast and Northeast	-- 187
1996 -- Jan 19-20, East Coast flooding, especially PA (19) and NY (10)	-- 38
1996 -- Feb 05-09, heavy rain, flooding, mudslides, Pacific Northwest, esp. western OR	-- 9
1996 -- June-Aug esp., heat, especially AZ/54, CA/40, TX/39, OK/15, GA/11, IL/10	-- 249
1996 -- July 09 (Puerto Rico), and 12-13 (East Coast), Hurricane Bertha, esp. NC	-- 12
1996 -- Dec 26-Jan 03, 1997, storms, snow, heavy rain, snowmelt, flooding, CA/OR/WA	-- 19
1997 -- adenovirus infection, ICD-9 code 079.0, death rate 0.004 per 100,000	-- 11
1997 -- Chickenpox (Varicella), ICD-9 code 052, especially CA (12)	-- 99
1997 -- Exposure to excessive natural cold/hypothermia; ICD-9 code E901; esp. IL/36	-- 501

<sup>1011</sup> Undoubtedly includes exposure deaths from date specific 1994 storms and extreme cold noted below.

<sup>1012</sup> There were *Associated Press* reports dated Jan 21 and 22 noting, depending on the report, 113, over 130, and 142 weather-related deaths, but we have not been able to verify this reporting.

<sup>1013</sup> This number may include fatalities recorded in the dated winter storms noted for 1996 below.

1997 -- Influenza, ICD-9 code 487.0; US death rate 0.26 per 100K; esp. KS (0.99)	-- 720
1997 -- meningococcal meningitis, ICD-9 code 036.0; death rate 0.03; esp. CA/12	-- 89
1997 -- tuberculosis, ICD-9 code 010-018, death rate 0.43 per 100K, esp. HI, 0.99	--1,166
1997 -- Mar 01, tornadoes; especially AR (27 deaths) MS (1 death) and TN (1) <sup>1014</sup>	-- 29
1997 -- Mar 01-03, flash floods & flooding, esp. Ohio River Valley, esp. KY (21)	--33-36
1997 -- June-Aug esp., heat, especially PA/36 IL/29 AZ/23 TX/22 CA/19 LA/11	-- 182
1997 -- July 18-26, Hurricane and Tropical Storm Danny, Gulf, lower East Coasts	--10-12

### **Multi-State Large Loss-of-Life Events (continued):**

1998 -- adenovirus infection, ICD-9 code 079.0, death rate 0.01 per 100,000	-- 16
1998 -- chickenpox (varicella), ICD-9 code 052, especially CA (10)	-- 81
1998 -- exposure to excessive natural cold/hypothermia, ICD9 code E901, esp. VA/26	-- 420
1998 -- infectious colitis, enteritis, gastroenteritis, ICD-9 code 009.0, death rate 0.124 per 100K	-- 342
1998 -- influenza, ICD-9 code 487.0; US death rate 0.62 per 100K; esp. MT (6.72)	--1,724
1998 -- meningococcal meningitis, ICD-9 code 036.0; death rate 0.03; esp. CA (13)	-- 73
1998 -- tuberculosis, ICD-9 code 010-018, death rate 0.40 per 100K, esp. LA, 0.72	--1,112
1998 -- Jan 05-09, Gulf storm system; southern flooding (15); northeast ice storm (21)	-- 36
1998 -- June-Aug, heat, esp. July, esp. TX/120 AZ/74 LA/41 CA/32 OK/32 FL & IL/18	-- 435
1998 -- Aug-Feb 1999 -- Listeria tainted hot dog and deli meat food poisoning deaths	-- 21
1998 -- Aug 22-25, Tropical Storm Charley, TX, LA	-- 12
1998 -- Sep 21 (PR), 25-29, Hurricane Georges, Puerto Rico, AL, FL, GA, LA, MS	-- 17
1999 -- adenovirus infection, ICD-10 code B34.0, death rate 0.004 per 100,000	-- 11
1999 -- chickenpox (varicella), ICD-10 code B01	-- 48
1999 -- diarrhoea and gastroenteritis of infectious origin; no State with 10 deaths	-- 96
1999 -- exposure to excessive natural cold/hypothermia; code X31, esp. NY/36, PA/36	-- 598
1999 -- excessive natural heat, esp. IL/153, PA/97, MO/92, TX/63, AZ/58, NY/56	--1,050
1999 -- influenza, ICD-10 codes J09-11.8; US death rate 0.597 per 100K; esp. SD/4.913	--1,665
1999 -- meningococcal meningitis, ICD-10 code A39.0; death rate 0.024; esp. CA (10)	-- 67
1999 -- streptococcal toxic shock syndrome, ICD-10 code A48.3, no state $\geq$ 10 deaths	-- 55
1999 -- tuberculosis, ICD-10 code A16-19, death rate 0.333 per 100K, esp. NM, 0.608	-- 930
1999 -- Jan 01-5, winter storms/Cold, esp. Midwest; most esp. greater Chicago vic., IL	--89~100
1999 -- May 3, tornadoes (74; 58 in OK); KS (6 deaths) & especially OK (45) <sup>1015</sup>	--51-55
1999 -- Sep 15-17, Hurricane Floyd, mid-Atlantic, Northeast, particularly NC	--88-89
2000 -- adenovirus infection, ICD-10 code B34.0, death rate 0.004 per 100,000	-- 11
2000 -- chickenpox (varicella), ICD-10 code B01	-- 44
2000 -- Diarrhoea/Gastroenteritis, Infectious Origin; no State as many as 10 deaths	-- 65
2000 -- exposure to excessive natural cold/hypothermia; ICD-10 code X31, esp. PA/48	-- 742
2000 -- excessive natural heat, esp. TX/135, AZ/66, CA/49, LA/23, MO/22, PA/17	-- 494
2000 -- Influenza, ICD-10 codes J09-11.8; US death rate 0.63 per 100K; esp. SD (3.05)	--1,765
2000 -- Meningococcal Meningitis, ICD-10 code A39.0; death rate 0.025; esp. CA (15)	-- 71

<sup>1014</sup> Includes one indirect electrocution death in Pulaski County, AR, on March 2, during clean-up; male, 35.

<sup>1015</sup> We show a range of 51-55 in that we have one National Weather Service source noting 55 fatalities and several other NWS and NOAA sources noting 45-46. We have identified fifty-one deaths, including five indirect fatalities.



2000 -- streptococcal toxic shock syndrome, ICD-10 code A48.3, esp. CA (11) -- 74  
 2000 -- tuberculosis, ICD-10 code A16-19; death rate 0.276 per 100K, esp. LA, 0.559 -- 776  
 2000 -- whooping cough (ICD-10 code A37.0), (all under 1 year-old) -- 12

**Multi-State Large Loss-of-Life Events (continued):**

2001 -- adenovirus infection, ICD-10 code B34.0, death rate 0.004 per 100,000 -- 12  
 2001 -- chickenpox (varicella), ICD-10 code B01 -- 26  
 2001 -- diarrhoea/gastroenteritis, infectious origin; no state as many as 10 deaths -- 56  
 2001 -- exposure to excessive natural cold/hypothermia; ICD-10 code X31; esp. MI/29 -- 599  
 2001 -- excessive natural heat, esp. AZ/74, TX/59, MO/41, IL/38, FL/30, CA/29, PA/28 -- 538  
 2001 -- influenza, ICD-10 codes J09-11; US death rate 0.09 per 100K; esp. WI (0.20) -- 257  
 2001 -- malaria, ICD-10 codes B50-B54, death rate 0.003 per 100,000 -- 9  
 2001 -- meningococcal meningitis, ICD-10 code A39.0; no state over 9 deaths -- 61  
 2001 -- streptococcal toxic shock syndrome, ICD-10 code A48.3, esp. CA (10) -- 75  
 2001 -- tuberculosis, ICD-10 code A16-19, death rate 0.268 per 100K, esp. DC, 1.741 -- 764  
 2001 -- whooping cough (ICD-10 code A37.0), (16 under 1 year; 1, 1-4 years-old) -- 17  
 2001 -- June 08, Tropical Storm Allison flooding, TX, LA, FL, NC, VA, PA -- ~ 50  
 2001 -- Sep 11, 9/11 Terrorist Attacks, WTC (NYC), Pentagon, Shanksville, PA --3,064  
     --Sep 11, World Trade Center, American 11 and United 175, NY --2,830  
     --Sep 11, American Airlines hits Pentagon, Arlington, VA -- 189  
     --Sep 11, United Airlines N591UA crash Shanksville, PA -- 45

2002 -- adenovirus infection, ICD-10 code B34.0, death rate 0.004 per 100,000 -- 12  
 2002 -- chickenpox (varicella), ICD-10 code B01 -- 32  
 2002 -- diarrhoea/gastroenteritis, infectious origin, esp. CA/12 (above avg. .034 death rate) -- 93  
 2002 -- exposure to excessive natural cold/hypothermia; ICD-10 code X31; esp. PA/47 -- 646  
 2002 -- excessive natural heat, esp. AZ/130, TX/62, PA/56, IL/54, MD/50, CA/44 -- 626  
 2002 -- influenza, ICD-10 codes J09-11; US death rate 0.253 per 100K; esp. SD (2.237) -- 727  
 2002 -- malaria, ICD-10 code B50-54, death rate 0.004 per 100K; all States <10 deaths -- 12  
 2002 -- meningococcal meningitis, ICD-10 code A39.0; no state over 9 deaths -- 53  
 2002 -- streptococcal toxic shock syndrome, ICD-10 code A48.3, esp. CA (10) -- 78  
 2002 -- tuberculosis, ICD-10 code A16-19, death rate 0.273 per 100K, esp. AR, 0.443 -- 784  
 2002 -- whooping cough (ICD-10 code A37.0), all 18 under 1 year-old -- 18  
 2002 -- July-Sep, food poisoning Listeriosis outbreak, sliceable turkey deli meat, northeast- 7-10  
 2002 -- Nov 10, tornado outbreak, AL (12) MS (1) OH (5) PA (1) TN (15) -- 34

2003 -- adenovirus infection, ICD-10 code B34.0, death rate 0.003 per 100,000 -- 8  
 2003 -- chickenpox (varicella), ICD-10 code B01 -- 16  
 2003 -- diarrhoea/gastroenteritis of infectious origin, esp. FL/17, NY/10 (above avg. death rate)-- 98  
 2003 -- exposure to excessive natural cold/hypothermia; ICD code X31, esp. PA/46 -- 620  
 2003 -- excessive natural heat, esp. AZ/153, TX/64, CA/39, FL/22, NV/21, MO/19 -- 426  
 2003 -- influenza, ICD-10 codes J09-11; US death rate 0.618 per 100K; esp. ND (2.661) --1,792  
 2003 -- meningococcal meningitis, ICD-10 code A39.0, CA only state over 9 deaths -- 49  
 2003 -- streptococcal toxic shock syndrome, ICD-10 code A48.3 (all States below 10) -- 71  
 2003 -- tuberculosis, ICD-10 code A16-19, death rate 0.25 per 100K, esp. LA, 0.49 -- 711

2003 -- whooping cough (ICD-10 code A37.0), 10 under 1 year-old	--	11
2003 -- May, tornado outbreak (516), South, Midwest	--	38
2003 -- June-Aug esp., heat, especially AZ/153, TX/63, CA/35, FL/18, MO/17	--	351

### **Multi-State Large Loss-of-Life Events (continued):**

2004 -- adenovirus infection, ICD-10 code B34.0, death rate 0.003 per 100,000	--	9
2004 -- chickenpox (varicella), ICD-10 code B01	--	19
2004 -- diarrhoea/gastroenteritis, infectious origin, esp. FL/10, IL/10 (above avg. death rate)	--	111
2004 -- exposure to excessive natural cold/hypothermia; ICD-10 code X31; esp. PA/45	--	676
2004 -- excessive natural heat, especially AZ/130, TX/55, CA/39, FL/31, NV/14	--	≥335
2004 -- influenza, ICD-10 codes J09-11; US death rate 0.376 per 100K; esp. ME (1.827)	--	1,100
2004 -- meningococcal meningitis, ICD-10 code A39.0 (all states below 10 deaths)	--	38
2004 -- streptococcal toxic shock syndrome, ICD-10 code A48.3, esp. CA (10)	--	71
2004 -- whooping cough (ICD-10 code A37.0), 15 under 1 year-old	--	16
2004 -- Sep 05-08, Hurricane Frances, FL, GA, SC, NC, OH (esp. FL)	--	64
2004 -- Sep 15, Hurricane Ivan and tornadoes, FL, GA, NC, MS	--	57
2005 -- adenovirus infection, ICD-10 code B34.0, death rate 0.005 per 100,000	--	16
2005 -- chickenpox (varicella), ICD-10 code B01	--	13
2005 -- diarrhoea/gastroenteritis, infectious origin, esp. CA/17, IL/11 (above avg. death rate)	--	132
2005 -- exposure to excessive natural cold/hypothermia; ICD-10 code X31; esp. MI/40	--	700
2005 -- excessive natural heat, esp. AZ/244, NYC/~140, TX/111, CA/64, MD/47, NV/43	--	939
2005 -- influenza, ICD-10 codes J09-11; US death rate 0.613 per 100K; esp. SD (4.513)	--	1,812
2005 -- meningococcal meningitis, ICD-10 code A39.0 (all states below 10 deaths)	--	27
2005 -- streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	--	55
2005 -- tuberculosis, ICD-10 code A16-19, death rate 0.22 per 100K, esp. LA, 0.39	--	648
2005 -- whooping cough (ICD-10 code A37.0), 28 under 1 year-old	--	31
2006 -- adenovirus infection, ICD-10 code B34.0, death rate 0.005 per 100,000	--	15
2006 -- chickenpox (varicella), ICD-10 code B01	--	18
2006 -- diarrhoea/gastroenteritis, infectious origin, esp. CA/20, PA/14 (above avg. death rate)	--	149
2006 -- exposure to excessive natural cold/hypothermia; ICD-10 code X31; esp. MI/37	--	519
2006 -- excessive natural heat, esp. CA/194, AZ/169, NY/148, TX/106, IL/51, PA/50	--	1,104
2006 -- influenza, ICD-10 codes J09-11; US death rate 0.285 per 100K; esp. VE (1.605)	--	849
2006 -- meningococcal meningitis, ICD-10 Code A39.0 (all states below 10 deaths)	--	24
2006 -- streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	--	57
2006 -- tuberculosis, ICD-10 code A16-19, death rate 0.22 per 100K, esp. AR/.35, LA/.33	--	652
2006 -- Apr 02, tornadoes, high-wind storms, AR, IL, IN, MO, esp. NW TN	--	29-30
2006 -- Nov 29 (late)-Dec 1, winter storms, especially the Midwest, also NY, PA	--	23-24
2007 -- chickenpox (varicella), ICD-10 code B01	--	14
2007 -- diarrhoea & gastroenteritis, infectious origin, esp. IL/10, NJ/10 (above avg. death rate)	--	127
2007 -- exposure to excessive natural cold/hypothermia; ICD-10 X31 code; esp. NY/53 <sup>1016</sup>	--	711
2007 -- excessive natural heat, esp. AZ/134, CA/74, TX/43, MO/39, TN/34, SC/26	--	582

<sup>1016</sup> Probably includes deaths noted in Nov 30-Dec 1, Dec 1-4, Dec 15-16 and Dec 22-23 storms.

2007 -- influenza, ICD-10 codes J09-11; US death rate 0.14 per 100K; esp. IA (0.33)	-- 411
2007 -- meningococcal meningitis, ICD-10 Code A39.0 (all states below 10 deaths)	-- 24
2007 -- streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	-- 18
2007 -- tuberculosis, death rate 0.184 per 100K, esp. TN/.389 above avg. death rate	-- 554
2007 -- Feb 17-18, avalanche deaths; Utah (4); Montana (2); Idaho (1)	-- 7
2007 -- Nov 30-Dec 1, winter storms, especially the Midwest, also Northeast	-- <sub>≥</sub> 16-19
2007 -- Dec 01-04, winter storm (The Great Coastal Gale of 2007) Pacific NW	-- 13
2007 -- Dec 15-16, midwest and east coast snow storm	-- ~10
2007 -- Dec 22-23, winter storm, Midwest, MN/WI/WY (3 each); TX (2); KS (1)	--12-19

### **Multi-State Large Loss-of-Life Events (continued):**

2008 -- adenovirus infection, ICD-10 code B34.0, death rate 0.005 per 100,000	-- 16
2008 -- chickenpox (varicella), ICD-10 code B01	-- 18
2008 -- diarrhoea and gastroenteritis of infectious origin, esp. CA (160, NY (23)	-- 134
2008 -- exposure to excessive natural cold/hypothermia; ICD-10 code X31, esp. MI/45	-- 641
2008 -- excessive natural heat, esp. AZ/112, TX/66, CA/51, PA/36, NV/35, NC/25	-- 502
2008 -- influenza, ICD-10 codes J09-11; US death rate 0.57 per 100K; esp. SD (2.13)	--1,772
2008 -- meningococcal meningitis, ICD-10 Code A39.0 (all states below 10 deaths)	-- 31
2008 -- streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	-- 20
2008 -- tuberculosis, ICD-10 code A16-19, death rate 0.19; esp. MS (above avg. rate)	-- 585
2008 -- whooping cough (ICD-10 code A37.0), 18 under 1 year-old	-- 20
2008 -- Feb 05-06, "Super Tuesday" tornado outbreak, AL, AR, KY, TN	--62-63
2008 -- June 04-12, heavy rain leading to flash flooding and flooding, midwest states	-- 11
2008 -- Sep-March, 2009; salmonella food poisoning; peanut butter; ID/MN/NC/OH/VA	-- 9
2008-09 -- influenza deaths (out of 1,585,938 US deaths)	-- 473
2009 -- adenovirus infection, ICD-10 code B34.0, death rate 0.006 per 100,000	-- 19
2009 -- chickenpox (varicella), ICD-10 code B01	-- 22
2009 -- diarrhoea and gastroenteritis of infectious origin (ICD-10 code A09)	--2,756
2009 -- exposure to excessive natural cold/hypothermia (ICD-10 code X31) <sup>1017</sup>	-- 616
2009 -- exposure to excessive natural heat, esp. AZ/156, TX/79, CA/63, FL/39, IL/21	-- 555
2009 -- hepatitis A, ICD-10 code B15.0, US death rate 0.008 (no State over 9 deaths)	-- 26
2009 -- influenza (avian), ICD-10 code J09 (US death rate 0.5 per 100K) esp. MT (1.3)	--1,557
2009 -- Meningococcal Meningitis, ICD-10 Code A39.0 (all states below 10 deaths)	-- 28
2009 -- Streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	-- 21
2009 -- tuberculosis, ICD-10 code A16-19, esp. CA, LA, OK, TX (above avg. death rate)	-- 529
2009 -- whooping cough (ICD-10 code A37.0), all under 1 year-old	-- 15
2009 -- Jan 26-29, Ice and Snow Storm, esp. Central/Eastern U.S., esp. KY and AR	-- 91
2009 -- Apr 12-Apr 10, 2010, H1N1 "Swine Flu" Pandemic (U.S.)	12,469
2009 -- Apr 15-Oct 2, 2010 -- Pediatric Influenza Deaths during H1N1 Flu Pandemic	-- 348
2009 -- Dec 07-09, winter storm/blizzard, extreme cold, esp. Midwest to East Coast	-- 24

<sup>1017</sup> May well include deaths noted in Jan 26-29 and Dec 7-9 storms.

2010 -- adenovirus infection, ICD-10 code B34.0, death rate 0.005 per 100,000	-- 15
2010 -- chickenpox (varicella), ICD-10 code B01	-- 15
2010 -- diarrhoea and gastroenteritis of infectious origin (ICD-10 code A09)	--2,741
2010 -- exposure to excessive natural cold/hypothermia, ICD-10 code X31	-- 710
2010 -- excessive natural heat, esp. AZ/228, TX/64, CA/46, NV/46, TN/45, PA/37	-- 874
2010 -- HIV/AIDS, U.S., nationally	15,525
2010 -- Influenza, ICD-10 codes J09-J11; US death rate 0.2 per 100K; esp. AK, KS (.4) <sup>1018</sup>	-- 500
2010 -- Malaria, ICD-10 codes B50-B54, no State had at least 10 deaths	-- 10
2010 -- Meningococcal Meningitis, ICD 10 Code A39.0 (CA/12 only state >10 deaths)	-- 79
2010 -- Streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	-- 24
2010 -- Tuberculosis, ICD-10 Code A16-19, esp. AL, CA, KY & TX (above avg. death rate)	-- 569
2010 -- Viral Hepatitis, ICD-10 code B-15-19 (death rate 2.4 per 100K), esp. OK (4.9)	--7,564
2010 -- Whooping Cough (ICD-10 code A37.0), 25 under 1 year-old	-- 26
2010 -- Mar 13, Nor'easter, Heavy Rain, Strong Wind, NJ, NY, CT, RI, WV	-- 13
2010 -- May 01-02, Severe Storms with Flash Floods, Tornadoes, KY, MS, esp. TN	--31-35

### **Multi-State Large Loss-of-Life Events (continued):**

2010-11 (winter) -- estimated excess influenza & pneumonia deaths (95%CI) -- 12,111-15,372

2011 -- adenovirus infection, ICD-10 code B34.0, death rate 0.007 per 100,000	-- 21
2011 -- chickenpox (varicella), ICD-10 code B01	-- 14
2011 -- Diarrhoea & Gastroenteritis of Infectious Origin (ICD-10 code A09), esp. NJ	--2,743
2011 -- exposure to excessive natural cold/hypothermia; 0.2 death rate; esp. AK, SD <sup>1019</sup>	-- 672
2011 -- excessive natural heat, esp. TX/183, AZ/177, PA/57, MO/52, IL/50, NY/45	--1,060
2011 -- Influenza, ICD-10 codes J09-11 (US death rate 0.5), esp. SD (2.3 per 100K)	--1,532
2011 -- Meningococcal Meningitis, ICD 10 Code A39.0 (no state 10 or more deaths)	-- 26
2011 -- Streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	-- 23
2011 -- Tuberculosis, ICD-10 Code A16-A19, esp. CA (108), NY, SC (above avg. DR)	-- 539
2011 -- Viral Hepatitis, ICD-10 code B-15-19 (death rate 2.5 per 100K), esp. DC (7.1)	--7,850
2011 -- Apr 14-16, Storms, wind, tornadoes, flash flood, AL, AR, MS, NC, OK, VA	-- 46
2011 -- Aug-Oct, Listeriosis food poisoning; cantaloupes; packing facility ~Holly, CO	-- 33
2011 -- Aug 27-28, Hurricane Irene, CT/DE/FL/MD/MA/NH/NJ/NY/NC/PA/VA/VT	--44-46
2011 -- Sep 02-10, Tropical Storm Lee, AL/GA/LA/MS/TX/TN/VA/MD/PA/NJ/NY	-- 22
2011 -- Oct 29, nor'easter snowstorm, Northeast -- CT, MA, NJ, NY, PA	-- 36

2011-2012 (winter) -- estimated excess Influenza & Pneumonia Deaths -- 3,691-4,747

2012 -- Chickenpox (Varicella), ICD-10 code B01, especially $\geq 85$ (7)	-- 16
2012 -- Diarrhoea and Gastroenteritis of Infectious Origin (ICD-10 code A09)	--2,610
2012 -- excessive heat, esp. AZ/209, CA/66, TX/62, IL/54, MO/54, MD/46, VA/WI/24	-- 879
2012 -- Exposure to excessive natural cold/hypothermia; esp. CA/32 NY/31 IL/25 <sup>1020</sup>	-- 501

<sup>1018</sup> The ICD-10 Code for Influenza and Pneumonia (J09-J18), for 2010, shows 50,097 deaths (death rate of 16.2).

<sup>1019</sup> Possibly includes deaths noted below in Jan 29-Feb 3 and Oct 29 storms.

<sup>1020</sup> Possibly includes some deaths noted below during the Dec 25-27 winter storm with 16-17 deaths, though we are unaware of specific hypothermia deaths – the great majority being vehicular, and some tree-fall deaths.



2012 -- Fungal Meningitis Outbreak due to tainted steroid injections	-- 64
2012 -- Influenza, ICD-10 codes J09-11; US death rate 0.4; SD, 2.5 per 100K	--1,106
2012 -- meningococcal meningitis, ICD 10 Code A39.0	-- 11
2012 -- streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	-- 13
2012 -- tuberculosis, ICD-10 Code A16-A19, especially CA (101) and TX (63)	-- 510
2012 -- Viral Hepatitis, ICD-10 code B-15-B19, esp. NM (99), AZ (291), CA (1,387)	--8,062
2012 -- Whooping Cough (ICD-10 code A37.0), 15 under 1 year-old	-- 17
2012 -- Feb 30, severe weather, tornadoes, Harrisburg, IL, KS, KY, MO, NE, TN	-- 12
2012 -- June 29, derecho, esp. Mid-Atlantic, Deaths: DC/KY/MD/OH/NJ/VA	--20-24
2012 -- March-July 1, wildfires, Western U.S., esp. CA, CO, MT, UT, WY	-- 8
2012 -- Sep-Jan 2013, pediatric Influenza deaths reported to the CDC, multiple States	-- 171
2012 -- Oct 29-30, Hurricane Sandy, Mid-Atlantic, esp. NY, NJ, PA MD, CT, WV	--154-155
2012 -- Dec 25-27, winter storm, AL, AR, IN, KY, LA, OH, OK, NY, PA, TX, VA	--16-17
2012-2013 (winter) -- estimated excess influenza & pneumonia deaths	-- 18,066-22,434

### **Multi-State Large Loss-of-Life Events (chronological- continued):**

2013 -- adenovirus infection, ICD-10 code B34.0, death rate 0.006 per 100,000	-- 20
2013 -- diarrhoea and gastroenteritis of infectious origin (ICD-10 code A09)	--2,669
2013 -- exposure to excessive natural cold/hypothermia, esp. IL NY PA MN AZ WI	-- 725
2013 -- excessive natural heat, esp. AZ/151, NV/80, CA/67, TX/53, NY/42, IL/23	-- 651
2013 -- hepatitis, viral; ICD-10 code B-15-B19, esp. OR/6.0 death rate, DC/5.9	--8,157
2013 -- influenza, ICD-10 codes J09-11, esp. SD (3.6) MT (3.5) ME (3.2) death rates	--3,697
2013 -- malaria, ICD-10 Codes B50-B54	-- 10
2013 -- meningococcal meningitis, ICD 10 Code A39.0	-- 9
2013 -- streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	-- 16
2013 -- tuberculosis, ICD-10 Code A16-A19, especially CA (133) and TX (61)	-- 555
2013 -- whooping cough (ICD-10 code A37.0), 10 under 1 year-old	-- 12
2013 -- Feb 08-09, Winter Storm Nemo, northeast, esp., CT, ME, MA, NH, NJ, NY	-- 18
2013 -- Nov 22-25, Winter Storm Boreas, traffic accidents, esp. CA, OK, TX	-- 13
2014 -- Adenovirus infection, ICD-10 code B34.0, death rate 0.009 per 100,000	-- 29
2014 -- Diarrhoea and Gastroenteritis of Infectious Origin (ICD-10 code A09)	--2,405
2014 -- Enterovirus infection outbreak, ICD-10 code B34.1, death rate 0.010	-- 31
2014 -- Exposure to excessive natural heat, esp. AZ/91, CA/53, TX/38, NV/29	-- 360
2014 -- Viral Hepatitis, ICD-10 code B-15-B19, esp. DC, OR (5.3 death rate per 100,000)	--8,081
2014 -- hypothermia (exposure to excessive natural cold), esp. PA IL NY OH MT NM <sup>1021</sup>	-- 930
2014 -- Influenza (ICD-10 codes J09, J10, J11), especially CA (457), TX (418)	--4,605
2014 -- Meningococcal Meningitis, ICD 10 Code A39.0 (no state with $\geq 10$ deaths)	-- 10
2014 -- Streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease)	-- 12
2014 -- Tuberculosis, ICD-10 Code A16-A19, especially CA (101)	-- 493
2014 -- Whooping Cough (ICD-10 code A37.0), 10 under 1 year-old	-- 14
2014 -- Jan 01-07, Winter Storms and Polar Vortex Cold Wave	--44-45

<sup>1021</sup> Will be some double-counting from the three Jan, Feb and Nov storms noted below, though these events include other weather related deaths such as traffic accidents and heart-attacks during or shortly after snow removal efforts.

2014 -- Jan 28-29, Winter Storm Snow/Ice, traffic accidents, AL, GA, MS, NC, SC -- 14  
 2014 -- Feb 11-16, Winter Storm Pax,<sup>1022</sup> Ice and Snow Storm, esp. East Coast --25-29

**Multi-State Large Loss-of-Life Events (continued):**

2015 -- adenovirus infection, ICD-10 code B34.0, death rate 0.015 per 100,000 -- 48  
 2015 -- chickenpox (varicella), ICD-10 code B01, especially children -- 14  
 2015 -- diarrhoea and gastroenteritis of infectious origin (ICD-10 code A09) --2,456  
 2015 -- exposure to excessive natural cold (hypothermia), esp. PA NY OH AK NM -- 815  
 2015 -- exposure to excessive natural heat, esp. AZ/139; NV/69, TX/64, CA/51 -- 567  
 2015 -- influenza (ICD-10 codes J09, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8) --5,251  
 2015 -- meningococcal meningitis, ICD 10 Code A39.0 (no state with  $\geq 10$  deaths) -- 15  
 2015 -- streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease) -- 21  
 2015 -- tuberculosis, ICD-10 Codes A16-A19, esp. CA/85, TX/61, NY/35, PA/22 -- 470  
 2015 -- viral hepatitis, ICD-10 code B15-B19, esp. DC (death rate 6.4 per 100,000) --7,461  
 2015 -- Dec 23, winter storms and tornadoes, AR (1 death) MS (10 deaths) and TN (6) -- 17

2016 -- adenovirus infection, ICD-10 code B34.0, death rate 0.014 per 100,000 -- 46  
 2016 -- diarrhoea and gastroenteritis of infectious origin (ICD-10 code A09) --2,361  
 2016 -- exposure to excessive natural cold/hypothermia, esp. AK CA MI MT OH SD -- 731  
 2016 -- exposure to excessive natural heat, esp. AZ (219), NV (89), CA (70), TX (86) -- 786  
 2016 -- hantavirus (cardio)-pulmonary syndrome (HPS), ICD 10 Code B33.4 -- 10  
 2016 -- HIV AIDS, US death rate 1.9, DC/12.0, FL/4.2, LA/3.9 GA/3.4 MD/3.2 --6,160  
 2016 -- influenza (ICD-10 codes J09, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8) --2,905  
 2016 -- streptococcal toxic shock syndrome, ICD-10 code A48.3 (emerging disease) -- 26  
 2016 -- tuberculosis, ICD-10 Codes A16-A19, esp. CA/111, TX/55, FL/36, OK/14 -- 528  
 2016 -- hepatitis (viral), ICD-10 code B15-B19, esp. DC (death rate 4.8 per 100K; US 2.0) --6,421  
 2016 -- whooping cough (ICD-10 code A37.0) -- 11

2017 -- chickenpox (varicella), ICD-10 code B01 (CDC Wonder site) -- 16  
 2017 -- exposure to excessive natural cold/hypothermia, esp. AK, WA, MN, CA, MI, IL -- 804  
 2017 -- exposure to excessive natural heat, esp. AZ/264, NV/235, CA/93, TX/40 --  $\geq 817$   
 2017 -- HIV, US death rate 1.75 per 100K, esp. DC/9.8, MS/3.8, FL/3.6, LA/3.5 --5,698  
 2017 -- influenza; death rate 2.0 per 100K pop.; esp. ME/5.2, MT/5.1, OR/4.9, WA/4.2 --6,515  
 2017 -- tuberculosis, IDC-10 code A16-19, esp. CA/108 TX/49 NY/31 PA/22 NJ/21 -- 515  
 2017 -- whooping cough (pertussis), ICD-10 code 137.0-A37.9 -- 9  
 2017 -- Sep 06, Hurricane Irma, PR, US Virgin Isl.; Sep 10-11, GA, SC, NC, esp. FL -- 107  
 2017 -- Dec 26-Jan 6, 2018, bitter cold (exposure), ice/snow (vehicular), much of US --39-40

2017-2018 -- winter (March 2018 end) Influenza (primarily H3N2) ~80,000

2018 -- adenovirus infection, ICD-10 code B34.0, death rate 0.01 per 100,000 pop. -- 49  
 2018 -- chickenpox (varicella), ICD-10 code B01 (CDC Wonder site) -- 20  
 2018 -- exposure to excessive natural cold/hypothermia, esp. MN/36, CO/34, IN/35 --1,028  
 2018 -- excessive natural heat, esp. AZ/252, Clark Co., NV/163, CA/106, TX/89 --1,012

<sup>1022</sup> The name "Pax" came from *The Weather Channel*.

2018 -- HIV; US death rate 1.66 per 100K, esp. DC/9.25, MS/4.15, LA/3.41, FL/3.25 --5,425  
 2018 -- influenza, ICD-10 codes J09-11.8, death rate 3.4 per 100K pop., esp. WV/6.6 --11,164  
 2018 -- tuberculosis, ICD-10 codes A16-A19, esp. CA/100, TX/50, NY/39, FL/38-- 542  
 2018 -- whooping cough (Pertussis), ICD-10 code A37.0-A37.9; CDC Wonder site -- 9  
 2018 -- Jan 17, winter storm, snow, deep cold, deaths in GA LA NC TN TX VA WV -- 15  
 2018 -- Sep 14, Hurricane Florence (Wrightsville Beach landfall); NC/SC/VA aftermath --55-57  
 2018 -- Oct 10, Hurricane Michael ~Mexico Beach, FL, deaths also in GA/NC/VA --57-59

**Multi-State Large Loss-of-Life Events (continued):**

2019 -- adenovirus infection, ICD-10 code B34.0, death rate 0.02 per 100K pop. -- 74  
 2019 -- chickenpox (Varicella); ICD-10 code B01 (CDC Wonder site) -- 18  
 2019 -- exposure to excessive natural cold (hypothermia), esp. MI/70 NY/65 PA/61<sup>1023</sup> --1,115  
 2019 -- heat; exposure to excessive natural heat, esp. AZ/283, TX/101, NV/88 --911-915  
 2019 -- HIV/AIDS, US death rate 1.54 per 100K pop.; DC/10.0, FL/3.2, MD, 3.0, GA/2.7--5,044  
 2019 -- influenza, esp. CA/560 TX/396 NY/336 lives lost; VT/4.3 OR/3.7 NE/3.3 death rate --5,902  
 2019 -- tuberculosis, ICD-10 codes A16-A19, esp. CA/112, TX/54, NY/37, FL/35 -- 526  
 2019 -- whooping cough, ICD-10 code A36 (CDC Wonder site); 6 under 5, 4 75-89 -- 10  
 2019 -- Jan 10-13, winter storm Gia (highway deaths), IL/2, IN/1, KS/3, MO/3, VA/3, WV/1--13  
 2019 -- Dec 15-16, winter storm and vehicular crashes icy roads, IN, KS, MO, NE -- 12

2020 -- COVID-19 (coronavirus), 1,070 US deaths per 1 million population --354,215  
 2020 -- exposure to excessive natural cold; ICD-10<sup>1024</sup> code X31, esp. AK, NM, CO, MN -- 919  
 2020 -- excessive heat, natural sources; esp. AZ/522, CA/137, Clark Co., NV/124 --1,174  
 2020 -- HIV, US death rate 1.55, esp. DC/9.4, FL/3.1, MS/3.34, GA/3.1, MD/2.96 --5,155  
 2020 -- influenza (distinct from 47,601 pneumonia deaths); death rate 1.8 per 100K --5,943  
 2020 -- tuberculosis, ICD-10 Codes A16-A19, esp. CA/119, TX/66, NY/36, FL/30 -- 600

2021 -- chickenpox (varicella), ICD-10 code B01.0 (CDC WONDER, no state data) -- 14  
 2021 -- COVID-19 (coronavirus), ~2,559 US deaths per 1 million population --437,984  
 2021 -- exposure to excessive natural cold/ICD-10 code X31, esp. AK, NM, IA, CO --1,179  
 2021 -- excessive natural heat, esp. AZ/854, WA/170, NV/166, CA/140, OR/133 --1,923  
 2021 -- HIV, US death rate 1.50, esp. DC/7.46, FL/2.89, GA/2.76, MS/2.71, LA/2.7 --4,977  
 2021 -- influenza (distinct from 41,309 pneumonia deaths); death rate 0.18, esp. TN/0.60 -- 608  
 2021 -- tuberculosis, ICD-10 codes A16-A19, esp. CA/106, TX/58, FL/36, NY/36, VA/22 -- 602  
 2021 -- Aug 29-Sep 1, Hurricane Ida & remnants, mid-Gulf Coast and Northeast -- 91  
 2021 -- Dec 10, tornadoes and severe weather, AR/2, IL/6, KY/76, MO/2, TN/5 -- ≥91

2022 -- excessive natural heat, esp. AZ (1,030) esp. Maricopa County/425, TX/203 --2,159  
 2022 -- Sep 28-29, Hurricane Ian, FL/139-140, esp. Lee County (62), NC/5, VA/1 --145-146  
 2022 -- Dec 19-26, snowstorms/cold, deaths in 20 States and Canada, esp. NW NY (42) -- 102  
 2022 -- COVID-19/US death rate 6.50; esp. MO/9.99, FL/9.8, OH/9.8, IN/9.6, PA/9.5 --217,370

2023 -- COVID (354K deaths/2020; 438K/2021; 217K/2022; 1.19M 2020-2023) 71,691

<sup>1023</sup> There is some double-listing, given exposure deaths in Jan 10-13 storm and Jan 28-Feb 2 cold wave.

<sup>1024</sup> Tenth revision of International Classification of Diseases.

2023 -- excessive natural heat, esp. AZ/867, TX/440, NV/208, LA/82, FL/81, CA/75 --2,155

2023 -- Mar 02-03, late winter storms, AL (3), AK (1), CA (1), KY (5), MS (1), TN (2) -- 14

2024 -- Jan 12-21, winter storms/cold, esp. TN/36, OR/16, MS/12, IL/7 --91-101



## Native Americans

1633 -- Smallpox epidemic, Native Americans, New England	-- 950
*1637 -- Mystic massacre, English Colonists Attack Pequot Village, CT	-- 700
1644 -- New Amsterdam English massacre sleeping Native village	-- ~500
*1690 -- Feb 08, massacre at Schenectady by French and Indians, NY, NY	-- 60
*1692 -- Massacre at York, Maine by French and Indians, January 25	-- 75
1729 -- Natchez massacre, Native American attack	-- 200
*1738 -- Smallpox epidemic, Cherokee Nation, Charleston SC,	--3,311
1812 -- Aug 15, Pottawatomic massacre of soldiers and homesteaders, IL	-- ~98
*1813 -- Sep 01, Creek massacre of two families in Clarke County, AL	-- 12
1815-16, Winter -- Smallpox epidemic, Comanche Nation <sup>1025</sup>	-->4,000
*1828 -- Jedediah Smith Massacre, near Gardiner, OR	-- 15
1829-1833 -- Epidemic, Pacific Northwest Native Americans	--10,000
*1832 -- Aug 02, Battle Island Massacre/Massacre of Bad Axe, WI	-- < 60
*1833 -- Epidemic, California Native Americans, summer, CA	--20,000
1837 -- Smallpox, Native American tribes	--10,555
*1857 -- Sep 03, Bluewater Creek massacre, Col. Harney Attacks Sioux Camp CO	-- 85
*1860 -- Feb 26, Eel River/Wiyot Indian massacre by Larrabee Gang CA	-- <100
1862 -- Late summer, Minnesota Native American Indian "Insurrection"	-- ~300
*1863 -- Jan 29, Massacre at Shoshoni Village, Bear River, UT Territory	-- 384
*1864 -- Nov 29, Sand Creek Massacre, Cheyenne/Arapaho Camp Attacked, CO	-- 150
*1868 -- Nov 27, "Battle" of the Washita, Custer attacks Cheyenne vil., OK	-- 103
*1870 -- Jan 23, Marias River Piegan Tribe Massacre, 2 <sup>nd</sup> Cav. MT Territory	-- 173
*1871 -- Apr 20, Camp Grant Arivaipa Apache Massacre, AZ Territory	-- 150
*1884 -- May 6-8 & July 6-7, Nativist Riots, Philadelphia, PA	--< 30
*1888 -- Measles epidemic, Omaha Nation, NE	-- 87
*1889 -- Measles epidemic, Omaha Nation, NE	-- 50
*1890 -- Dec 29, Wounded Knee massacre, U.S. 7 <sup>th</sup> Cavalry, SD	-- 350
*1898 -- Smallpox epidemic, Moqui Indian Tribe, AZ	-- 220
*1967 -- Dec 14, Blizzard, Navajo Reservation, NM	-- 51

## African American

*1712 -- Apr 06, fear of insurrection of blacks, NYC, NY	-- 21
*1741 -- Slave Uprising, Freedom-Fighters Executed, New York City, NY	-- 52
*1800 -- Aug 30, Gabriel's Rebellion/Slave Uprising/Mass Hanging, Richmond, VA	-- 35
*1811 -- Jan, Deslondes Slave Rebellion and Retaliation, German Coast, LA	-- 101
*1822 -- June, Slave Insurrection Conspiracy charge/ex., Charleston, SC	-- 35
*1831 -- Slave Insurrection, VA & NC Border Area	-- 55
*1866 -- May 1-3, Memphis Massacre (Racial) TN	-- 46
*1868 -- Sep 28, Opelousas Massacre (Racial), LA	-- 300
*1873 -- Apr 13, Colfax Massacre (Racial), Colfax, LA	-- 153
*1886 -- Mar 18, Racial Hate Crime Carrollton Massacre, Carrollton, MS	-- >12
*1906 -- Sep 22-26, Race Riot, Atlanta, GA	--25-40

<sup>1025</sup> We note "greater than" 4,000 in that 4,000 is the estimated Comanche loss, whereas it has been written that the Kiowa, for example, lost to smallpox numbers in a ratio comparable to the Comanche.

*1910 -- July 30, racial violence, Palestine/Elkhart/Slocum, TX	-- 28
*1917 -- July 1-3, Race Riot East St. Louis, IL	-- 152
*1919 -- July 27-August 3, Race Riots, Chicago, IL	-- 38
*1919 -- September 30-October 2, Elaine Race Riot/Elaine Race Massacre, AR	-- <100
*1921 -- May 31-June 1, Race Riot, "The Black Wall Street," Tulsa, OK	-- 200
*1965 -- August 11-17, Watts Race Riots, Los Angeles, CA	-- 34
*1967 -- July 12-17, Race Riot, Newark, NJ	-- 26
*1967 -- July 23, Detroit Race Riot, 82 <sup>nd</sup> Airborne, MING, Detroit Police, MI	-- 43

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