

MORTALITY

(Large Loss-Of-Life Events Arranged by Mortality – highest to 500)

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/>

(Down to and including 500 deaths – **853** such entries noted as of

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Chronology

Event Typology (e.g. aviation, epidemics, explosions, fires heat, mining, hurricanes, violence).

Breakout of Events by States, District of Columbia and Territories.

Rank-ordering within Types by State.

Spreadsheet.

Contents below are:

Top Ten – (All are Epidemics and Disease)

Top Ten Non-Disease:

“Natural” Top Ten (excluding Disease)

“Natural” Top Ten (excluding Disease and Heat)

“Natural” Top Ten (excluding Disease and Heat)

“Man-Made” Top Ten – non-natural (though “nature” may be contributing factor)

“Technological” Top Ten (thus excluding intentional man-made violence)

Multiple-Death Fires (All Types --Top Ten)¹

All Large Loss-of-Life Events by Mortality (from highest down to 500)

¹ Includes Forest/wildfires, fires from maritime events, structural fires and 911 terrorism event. Have used death toll for all types of death in the 1906 San Francisco earthquake, given uncertainty over range of deaths attributable solely to fire (burns, however, were the leading cause of death -- see 1906 SF Earthquake document.)

Breakout of Events taking 500 or more lives, which have thus far been noted, by Type:

- 702 Diseases (especially infectious / contagious / communicable)**
 - 15 Cholera**
 - 5 COVID (Coronavirus-19)**
 - 6 Croup**
 - 9 Diarrhoea and Gastroenteritis of Infectious Origin**
 - 41 Diphtheria (sometimes includes croup)**
 - 28 Dysentery**
 - 6 Encephalitis, acute infectious and epidemic encephalitis**
 - 12 Hepatitis (Viral/Infectious)**
 - 15 HIV/AIDS**
 - 117 Influenza (sometimes, though rarely. including pneumonia)**
 - 21 Malaria**
 - 44 Measles**
 - 26 Meningococcal infections, especially Meningitis (including cerebrospinal)**
 - 46 Polio**
 - 1 Rubella (German measles)**
 - 28 Scarlet Fever**
 - 55 Smallpox**
 - 2 Syphilis (two years noted – 19,006 in 1940; 2,381 in 1967)**
 - 106 Tuberculosis**
 - 40 Typhoid Fever**
 - 5 Typhus (in NYC typhus and typhoid were reported together several years)**
 - 30 Whooping Cough**
 - 46 Yellow Fever**
 - 3 Unknown (1) and Multiple (2)**
- 62 Heat (exposure to excessive natural heat as well as effects of heat and light)**
- 38 Winter Weather (snow storms, blizzards, excessive natural cold, hypothermia)**
- 18 Hurricanes (includes one Northeast maritime gale)**
- 15 Violence**
- 6 Pellagra (Vitamin B3 deficiency/malnutrition)**
- 5 Flooding**
- 5 Maritime (ship/boat losses on fresh and salt water)**
- 4 Wildfires/Forest Fires**
- 3 Tornadoes**
- 2 Earthquakes**
- 2 Scurvy**
- 2 Structural Failures (Dams)**
- 1 Explosion**
- 1 Fire**

Top 100 Deadly Loss-of-Life Events noted below (actual numbers – not population adjusted):

Disease:	100	
Tuberculosis	32	(Sampling)
Influenza/Pneumonia	30	(Sampling)
Diphtheria	7	
Cholera	5	
Coronavirus-19	5	
HIV/AIDS	5	
Typhoid Fever	5	
Malarial Fever	4	
Scarlet Fever	3	
Whooping Cough	3	
Yellow Fever	3	
Croup	2	
Diarrhea & Dysentery	2	
Small Pox	2	
Unknown	2	
Measles (1 cross-listed)	1	
Meningococcal Meningitis	1	
Syphilis	1	
Other Than Disease		
Hurricanes:	1	
Other – not in top 100		
Epidemic Encephalitis		
Pellagra		

Top Ten – (All are Epidemics and Disease):

1. 1492-1800 – North American Native Population Decline, esp. due to **diseases** ~2,800,000
2. 1918 – **Influenza and Pneumonia** Epidemic --430,000-543,482
1918-1919, **Influenza and Pneumonia** Epidemic 531,851-728,922
3. 2021 -- **COVID-19** (coronavirus)US deaths per 1M pop., ~2.6K per million --437,984
4. 2020 -- Feb 29-Dec 31, **COVID-19/Coronavirus**, US deaths per 1M pop./1,070 --354,215
5. 1920 -- **Influenza and Pneumonia** (1918-1920 subset) --141,609-220,798
6. 2022 -- **COVID-19**/US death rate 6.5; esp. MO/9.9., FL/9.8, OH/9.8, IN/9.6, PA/9.5--217,370
7. 1919 -- **Influenza and Pneumonia** epidemic --101,851-185,440
8. 1957-58, esp. Fall-Spring -- **H2N2 “Asian” Influenza and Pneumonia** Pandemic ~116,000
9. 1917 -- **Influenza**/12,974; **Bronchitis**/12,311; **Pneumonia**/74,874 100,159-115,526
10. 1900 -- **Tuberculosis**, esp. CA, IL, IN, KY, MA, MO, NJ, NY, OH, PA, TN 109,750

Top Ten **Non-Disease**:

1. 1900 -- Sep 9, **Hurricane**, Galveston and southeast coastal area, TX --7,200-12,000
2. 1540 -- Oct 18, Spanish (de Soto) **battle/massacre**, with Atahachi, Mabila, AL 2,500-6,000
3. 1936 -- July-Aug (esp.), **Heat**, esp. MN/772, MO/644, IL/634, MI/617, WI/500 --4,678-5418
4. 1906 -- April 18, **Earthquake, Fires, Landslides**, San Francisco & vic., CA --3,000-5,000
5. 1901 -- June-July, **Heat waves**, except Pacific NW, esp. Northeast, June 27-July 6 --4,012
6. 1838 -- May-Mar 1839, **Cherokee Relocation**, NE AL/NW GA/SE TN/NW NC to OK² ~4,000
7. 1899 -- Aug 8-19, San Ciriaco **Hurricane** esp. Puerto Rico/3433 & NC/73, Aug 17/18 --3,507
8. 1889 -- May 31, South Fork **Dam Fails**, Flash Flood, Fire, Johnstown PA --2,100-3,188
9. 2001 -- Sep 11, **Violence, 9/11 Terrorist Attacks** --~3,064
10. 1928 -- Sep 6-20, Great Okeechobee **Hurricane**/Flood, Southeast FL --1,800-3,000

“Natural” Top Ten (excluding Disease):

1. 1900 -- Sep 9, **Hurricane**, Galveston and southeast coastal area, TX --7,200-12,000
2. 1936 -- July-Aug (esp.), **Heat**, esp. MN/772, MO/644, IL/634, MI/617, WI/500 --4,678-5418
3. 1906 -- April 18, **Earthquake, Fires, Landslides**, San Francisco & vic., CA --3,000-5,000
4. 1901 -- June-July, **Heat waves**, except Pacific NW, esp. Northeast, June 27-July 6 --4,012
5. 1899 -- Aug 8-19, San Ciriaco **Hurricane** esp. Puerto Rico/3433 & NC/73, Aug 17/18- 3,507
6. 1928 -- Sep 6-20, **Great Okeechobee Hurricane**/Flood, Southeast FL --1,800-3,000
7. 2017 -- Sep 20, **Hurricane Maria**, Puerto Rico (2,975), US Virgin Isl. (2), NJ (3) --2,980
8. 1966 -- July, **Heat Wave** and “excess deaths,” esp. IL, NYC, St. Louis, MO ~2,582-2,954
9. 1931 -- June-Sep, **Heat Waves**/excessive heat, West, Midwest, NE, esp. IL, IA, WI --2,768
10. 1871 -- Oct 8-9, **Wildfire/Firestorm**, Peshtigo/NE WI vic.; Birch Creek MI³ --1,228-2,400

² 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, 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.

³ Many sources put fatality high-range at 1,500. Several sources put death toll at 2,200, 2,400, or 2,500.

“Natural” Top Ten (excluding Disease and Heat):

1. 1900 -- Sep 9, **Hurricane**, Galveston and southeast coastal area, TX --7,200-12,000
2. 1906 -- Apr 18, **Earthquake, Fires, Landslides**, San Francisco & vic., CA 3,000-5,000
3. 1899 -- Aug 8-19, San Ciriaco **Hurricane** esp. Puerto Rico/3433 & NC/73, Aug 17/18- 3,507
4. 1928 -- Sep 6-20, **Great Okeechobee Hurricane/Flood**, Southeast FL 1,800-3,000
5. 2017 -- Sep 20, **Hurricane Maria**, Puerto Rico (2,975), US Virgin Isl. (2), NJ (3) --2,980
6. 1871 -- Oct 8-9, **Wildfire/Firestorm**, Peshtigo/NE WI vic.; Birch Creek MI⁴ 1,228-2,400
7. 1893 -- Aug 27-28, **Sea Islands Hurricane**, “Great Storm of 1893,” GA/SC 1,000-2,500
8. 1893 -- Oct 1-2, **Hurricane Cheniere Caminanda**, Gulf Coast esp. LA, MS, AL 1,700-2,000
9. 2005 -- Aug 25-31, **Hurricane Katrina**, FL, LA, esp. NOLA & MS⁵ ≥1,833-1,836
10. 1553 -- **Hurricane**, Lower Coast of TX 1,700

“Man-Made” Top Ten – non-natural (though “nature” may be contributing factor):

1. 1540 -- Oct 18, Spanish (de Soto) **battle/massacre**, with Atahachi, Mabila, AL 2,500-6,000
2. 1838 -- May-Mar 1839, **Cherokee Relocation**, NE AL/NW GA/SE TN/NW NC to OK⁶ ~4,000
3. 1889 -- May 31, South Fork **Dam Fails**, Flash Flood, Fire, Johnstown PA 2,100-3,188
4. 2001 -- Sep 11, **Violence, 9/11 Terrorist Attacks** 3,064
5. 1941 -- Dec 07, **Violence, Attack** by Japanese on Pearl Harbor, HI 2,402
6. 1865 -- Apr 27, Steamer **Sultana** explodes/burns, Miss. Riv., Redman Point, AR-1,547-1,947
7. 2005 -- Aug 29, **Hurricane Katrina Levee/floodwall failures/overtopping**, NOLA⁷ ~1,300
8. 1675 -- Dec 19, English Colonists **Massacre** Narragansetts, Great Swamp, RI --365-1,100
9. 1904 -- June 15, **General Slocum excursion steamer fire**, East River, NYC, NY --957-1,031
10. 1915 -- July 24, crowded **SS Steamer Eastland** rolls-over at dock, Chicago, IL --812-844

“Technological” Top Ten (thus excluding intentional man-made violence):

1. 1889 -- May 31, South Fork **Dam Fails**, Flash Flood, Fire, Johnstown PA 2,100-3,188
2. 1865 -- Apr 27, Steam **Sultana** explodes/burns, Miss. Riv., Redman Point, AR --1,547-1,947
3. 2005 -- Aug 29, **Hurricane Katrina Levee/floodwall failures/overtopping**, NOLA⁸ ~1,300
4. 1904 -- June 15, **General Slocum excursion steamer fire**, East River, NYC, NY --957-1,204
5. 1915 -- July 24, Crowded **SS Steamer Eastland** rolls-over at dock, Chicago, IL --812-844
6. 1903 -- Dec 30, **Fire, Suffocation, Trampling**, Iroquois Theater, Chicago, IL -- 602
7. 1928 -- March 12, **St. Francis Dam failure**, Ventura County, CA --400-600
8. 1947 -- Apr 16-17, **Grandcamp ammonium nitrate explosion**, Texas City, TX --581-600
9. 1854 -- Sep 27, **US Mail Steamer Arctic hit by Vesta**, Fog, Cape Race, NFLD --318-562
10. 1865 -- March 31, **Steam Transport General Lyon** Burns, Cape Hatteras, NC --400-500

⁴ Many sources put fatality high-range at 1,500. Several sources put the high-range at 2,200, 2,400, or 2,500.

⁵ There were 2 deaths in AL and 2 in GA. The numbers reflect those generally reported. We note “≥” (at least) in that there still are over 100 missing and presumed dead, as well as unreported health-related indirect deaths.

⁶ Also referred to as Cherokee Trail of Tears as well as a “forced-march” relocation..

⁷ We show 1,833-1,836 Hurricane Katrina deaths in FL, GA, AL, LA and MS – though the total number of deaths will never be known. Most deaths in AL and MS were from storm-surge. Most deaths in New Orleans were related to failures of or overtopping of man-made structures.

⁸ We show 1,833-1,836 Hurricane Katrina deaths in FL, GA, AL, LA and MS – though the total number of deaths will never be known. Most deaths in AL and MS were from storm-surge. Most deaths in New Orleans related to failures of or overtopping of man-made structures.

Top Ten Deadly **Disease** events (other than influenza, COVID-19 and tuberculosis):

1. 1861-65--Apr-June, **Dysentery**, Civil War, apparently Union & Confederate forces ~95,000
2. 1775-82 -- **Smallpox** Epidemic North America ~84,000
3. 1861-65--Apr 12-June 30; **Typhoid** **Fever**, Civil War, Confederate/Union forces ~65,000
4. 1849 -- **Cholera**, esp. OH (>7K); NY (>6K); Gold Rushers (~5K); Natives (~6K)⁹ >45K-51,428
5. 1879-80 -- June-May, **Diphtheria**, esp. PA/4.6K; IL/3.7K; NY/2.3K; IA/2.3K, ME/MI/WI 38,143
6. 1900 -- **Typhoid**, esp. AL, AR, GA, IN, KY, MS, MO, NY, NC, OH, PA, TN, TX 35,379
7. 1870 -- **Diarrhoea**, **Dysentery**, **Enteritis**, esp. NY/4641, PA/2633, IL/2551, MO/2270 --≥31,153
8. 1829-1833/esp. 1833--**Malaria**? epidemic, West Coast Natives; CA/20K, OR-WA/10K --30,000
9. 1889-90, June-May, **Diphtheria**, 48 States & DC, esp. NY/4K, PA/2.9K, IL/2.6K 27,815
10. 1889-90, June-May, **Typhoid** (Enteric) Fever, esp. PA, 2.8K, NY/1.7K, IL/1.7K, OH/1.6K-27,058

Multiple-Death **Fires** (All Types --Top Ten):¹⁰

1. 1906 -- Apr 18, Earthquake, Fire, Landslides, San Francisco & vicinity, CA¹¹ --3,000-5,000
2. 2001 -- Sep 11, World Trade Center Terrorist Attack and Fires, NYC, NY¹² --2,666
3. 1871 -- Oct 8-9, Wildfire/Firestorm, Peshtigo/NE WI vic.; Birch Creek MI¹³ --1,228-2,400
4. 1865 -- Apr 27, Steamer *Sultana* explodes/burns, MS. Riv., Redman Point, AR¹⁴-1,547-1,947
5. 1904 -- Jun 15, Fire, *General Slocum* Excursion Steamer, East Riv., NYC, NY -- 957-1,200
6. 1903 -- Dec 30, Iroquois Theater Fire, Chicago, IL¹⁵ -- 602
7. 1947 -- Apr 16, Ammonium Nitrate Explos., Fire, *Grandcamp*, Texas City, TX¹⁶ --552-600
8. 1918 -- Oct 12, Forest Fires, Cloquet, Moose Lake, many towns, northeast MN --453-559
9. 1881 -- Sep 1-6, Wildfire, "The Thumb Fire," Lower Michigan --169-500
10. 1942 -- Nov 28, Cocoanut Grove Night Club Fire, Boston, MA¹⁷ -- 492

⁹ There were outbreaks in other States (see narrative document). We note that 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).

¹⁰ Includes Forest/wildfires, fires from maritime events, structural fires and 911 terrorism event. Have used death toll for all types of death in the 1906 San Francisco earthquake, given uncertainty over range of deaths attributable solely to fire (burns, however, were the leading cause of death -- see 1906 SF Earthquake document.)

¹¹ Cross-listed in Earthquake and in Landslides, in that there were a small number of deaths due to slides.

¹² Cross-listed in Violence-Terrorism section.

¹³ Many sources put fatality high-range at 1,500. Several sources put the high-range at 2,200 (Frank, 2003; Gess and Lutz, 2002, inside front cover), 2,400 (Hipke, 2008), or 2,500 (Gess and Lutz, 2002, p. 211).

¹⁴ We are not implying that these deaths were all attributable to fire -- that is unknown. Many died from the explosion, some from scalding from the released boiler steam, some from drowning and others from hypothermia in the water, as examples. We do know that the boat burned to the waterline and many who could not swim stayed on the boat and burned to death, or burned to death when decks collapsed under or over them.

¹⁵ Cross-listed in Violence-Crushing, Trampling, Suffocation.

¹⁶ Cross-listed in Explosions and in Maritime.

¹⁷ Cross-listed in Violence-Crushing, Trampling, Suffocation.

Large Loss-of-Life Events by Mortality (Top Fifty)

1.	1492-1800 – North American Native Population Decline, esp. due to diseases	~2,800,000
2.	1918 -- Influenza and Pneumonia epidemic	430,000-543,482
3.	2021 -- COVID-19 (coronavirus), US deaths per 1M pop., ~2.6K per million	--437,984
4.	2020 -- Feb 29-Dec 31, Coronavirus , U.S. deaths per 1M population, 1,070	--354,215
5.	1920 -- Influenza and Pneumonia (1918-1920 subset)	141,609-220,798
6.	2022 -- COVID-19 /US death rate 6.5; esp. MO/9.9., FL/9.8, OH/9.8, IN/9.6, PA/9.5--217,370	
7.	1919 -- Influenza and Pneumonia epidemic	--101,851-185,440
8.	1957-58, esp. Fall-Spring -- H2N2 “Asian” Influenza and Pneumonia Pandemic	~116,000
9.	1917 -- Influenza /12,974; Bronchitis /12,311; Pneumonia /74,874	100,159-115,526
10.	1900 -- Tuberculosis , esp. CA, IL, IN, KY, MA, MO, NJ, NY, OH, PA, TN	109,750
11.	1920 -- Tuberculosis , esp. Denver, San Antonio, Nashville, New Orleans	99,916
12.	1939 -- Influenza (21,464) & Pneumonia , esp. CA, IL, MI MO, NY, OH, PA, TX	99,097
13.	1861-65--Apr-June, Dysentery , Civil War, apparently Union & Confederate forces	~95,000
14.	1940 -- Influenza and Pneumonia , esp. CA, IL, MO, NY, OH, PA, TN, TX	92,525
15.	1879 -- June-May 1880, Tuberculosis , esp., NY, PA, OH, IL, IN, TN, KY, MA	91,270
16.	1925 -- Tuberculosis , esp. NY/10,282, PA/7,300, CA/5,934, IL/5,537, OH/4,819	89,268
17.	1775-82 -- Smallpox epidemic North America	~84,000
18.	1931 -- Tuberculosis , esp. PA/10,857, NY/8,618, CA/5,308, OH/4,253, TN/2,962	81,395
19.	1907 -- Tuberculosis , esp. CA/Chicago, IN/MA/NY (esp. NYC)/PA (esp. Philly)	76,650
20.	2023 -- COVID (354K deaths/2020; 438K/2021; 217K/2022; 1.19M 2020-2023)	71,691
21.	1870 -- Tuberculosis (consumption), nationwide	69,896
22.	1932 -- Tuberculosis (respiratory), international list #23, <i>Mortality Statistics 1932</i>	67,789
23.	1933 -- Tuberculosis (respiratory system), int. list #23, <i>Mortality Statistics 1933</i>	67,422
24.	1936 -- Tuberculosis (respiratory system), int. list #23, <i>Mortality Statistics 1936</i>	65,043
25.	1861-65--Apr 12-June 30; Typhoid Fever , Civil War, Confederate/Union forces	~65,000
26.	1934 -- Tuberculosis (respiratory system), int. list #23, <i>Mortality Statistics 1934</i>	64,706
27.	1937 -- Tuberculosis (respiratory system), international list #23, <i>Vital Statistics Pt. I</i>	63,330
28.	1939 -- Tuberculosis , nationwide, esp. CA, IL, NY, OH, PA, TN, TX	61,609
29.	1941 -- Tuberculosis (all forms)	59,251
30.	1938 -- Tuberculosis (respiratory system), international list #23, <i>Vital Statistics Pt. I</i>	58,027
31.	1942 -- Tuberculosis ; Census Bureau. <i>Vital Statistics of US 1942 -- II...Mortality.</i>	57,690
32.	1943 -- Tuberculosis , all forms codes 13-22 (respiratory, code 13 was 52,407)	57,005
33.	1905 -- Tuberculosis (10 registration states, DC, 134 non-registration cities), esp. NY-56,770	
34.	1940 -- Tuberculosis , nationwide, especially CA, IL, NY, OH, PA and TX	55,576
35.	1944 -- Tuberculosis , nationwide, esp. CA, IL, MI, NJ, NY, OH, PA, TN, TX	54,731
36.	1849 -- Cholera , esp. OH (>7K); NY (>6K); Gold Rushers (~5K); Natives (~6K) ¹⁸ >45K-	51,428
37.	1928-29 -- Winter, Influenza and Pneumonia epidemic	~50,000
38.	1860 -- Tuberculosis (consumption), nationwide	49,082

¹⁸ There were outbreaks in other States (see narrative document). We note that 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).

39.	1946 --	Tuberculosis , respiratory, code 13 (all forms including respiratory, 50,911)	46,939
40.	2024 --	COVID-19 deaths (code U07,1) as of 12-21-2024	45,447
41.	1947 --	Tuberculosis , respiratory, code 13 (all forms including respiratory were 48,064)	44,462
42.	1948 --	Tuberculosis , respiratory, code 13 (all forms including respiratory were 43,833)	40,420
43.	1870 --	Pneumonia , esp. AL, GA, IL, IN, KY, MA, MO, NY, OH, PA, TN, TX, VA	40,012
44.	1879 --	June-May 1880, Diphtheria , esp. PA/4.6K; IL/3.7K; NY/2.3K; IA/2.3K, ME/MI/WI	38,143
45.	1937 --	Influenza , international list #11, US Census Bureau, <i>Vital Statistics, Part I</i>	38,005
46.	1932 --	Influenza , international list #11, US Census Bureau, <i>Mortality Statistics 1932</i>	37,066
47.	1949 --	Tuberculosis , respiratory (all forms including respiratory were 39,100)	35,988
48.	1900 --	Typhoid , esp. AL, AR, GA, IN, KY, MS, MO, NY, NC, OH, PA, TN, TX	35,379
49.	1936 --	Influenza , international list #11, Census Bureau. <i>Mortality Statistics 1936</i>	33,811
50.	1968-69 --	Sep-March, A2 “Hong Kong” Influenza (and Pneumonia) Epidemic	33,800

Large Loss-of-Life Events by Mortality (Top Fifty-One to Top One Hundred):

51.	1850 --	Tuberculosis (consumption), esp. NY/6,691, PA/3,520, MA/3,426, OH/2,558	33,516
52.	1933 --	Influenza , int. list #11, US Census Bureau, <i>Mortality Statistics 1933</i>	33,193
53.	1931 --	Influenza (additionally pneumonia, all forms was 96,974), esp. PA	31,701
54.	1951 --	Tuberculosis (respiratory), esp. NY/3.5K, PA/2.5K, CA/2.2K, TX/2K, IL/1.8K	31,163
55.	1870 --	Diarrhoea, Dysentery, Enteritis , esp. NY/4641, PA/2633, IL/2551, MO/2270	≥31,153
56.	1925 --	Influenza --esp. PA/2,068, OH/2,100, IL/1,558, IN/1,485, MO/1,464	30,538
57.	1829-1833/esp. 1833--	Malaria? epidemic, West Coast Natives; CA/20K, OR-WA/10K	30,000
58.	1861-65--	Apr-June, Malaria , Civil War, Union/10K & Confederate/20K forces	~30,000
59.	1950 --	Tuberculosis , pulmonary. Code 002, Sixth Rev. of International Lists, 1948	29,228
60.	1935 --	influenza, international list #11, Census Bureau. <i>Mortality Statistics 1935</i>	28,230
61.	1889-90, June-May,	Diphtheria , 48 States & DC, esp. NY/4K, PA/2.9K, IL/2.6K	27,815
62.	1889-90, June-May,	Typhoid (Enteric) Fever, esp. PA, 2.8K, NY/1.7K, IL/1.7K, OH/1.6K	27,058
63.	1860 --	Scarlatina (Scarlet Fever) , 38 Census “Registration” States and DC	26,402
64.	1910 --	Typhoid , avg. death rate 23.5; esp. NC, 57.7, CO/41.9, MD/40.7, MT/39.9	25,000
65.	1879 --	June-May 1880, Typhoid (“Enteric”) Fever, especially IL, IN, MO, OH, TX	23,339
66.	1930 --	Influenza , 48 States and District of Columbia (pneumonia was 88,770)	23,066
67.	1952 --	Tuberculosis (respiratory), esp. NY/2462, CA/1678, PA/1662, IL/1385, TX/12K	22,700
68.	2012-2013 (winter) --	Estimated Excess Influenza & Pneumonia Deaths	18,066-22,434
69.	1870 --	Typhoid Fever , nationwide, esp. IL, IN, MA, MO, NY, OH, PA	22,187
70.	1989 --	HIV AIDS , US death rate 8.9, DC/55.7, NY/25.6, NJ/19.6, FL/16.1, CA/15.	22,082
71.	1934 --	Influenza , international list #11, US Census Bureau, <i>Mortality Statistics 1934</i>	21,868
72.	1915 --	Dec-Jan 1916, Influenza & Pneumonia , esp. IL, MD, NY, OH, PA, WI	21,102
73.	1850 --	Dysentery , esp. NY/3691, PA/2683, OH/2568, MA/2437, IN/1270, CT/965	20,556
74.	1870 --	Scarlet Fever , esp. IL, MO, NY, PA, WI	20,339
75.	1879 --	June-May 1880, “ Malarial Fever ,” esp. AL, AR, GA, IL, MS and MO	20,231
76.	1837-38--	Smallpox epidemic , Upper Mid-West Native American Tribes	~20,000
77.	1878 --	June-Dec, Yellow Fever , esp. LA (esp. New Orleans), MS, TN (esp. Memphis)	~20,000
78.	1853 --	May-Dec, Yellow Fever , esp. AL/1293, LA/~15K, MS/1311 TX/871--	18,770-19,533
79.	1900 --	Meningitis , esp. NY/2602, PA/1613, IL/1318, MA/1206, OH/1189, NJ/909	--19,423
80.	1860 --	Typhoid Fever , Census “Registration” States	19,236
81.	1940 --	Syphilis , US death rate 14.4 per 100K pop, esp. FL DC AZ DE MS MD AL	19,006

Large Loss-of-Life Events by Mortality (Top Fifty-One to Top One Hundred, cont.):

82.	1916 --	Influenza	18,886
83.	1832 -- June–Dec 16,	Cholera Epidemics, esp. DC, LA, MD, NY, PA, VA	--16,781-18,491
84.	1879 -- June-May, 1880 --	Croup , especially Oct-Dec, especially IL, PA and TN	17,966
85.	1953 --	Tuberculosis /respiratory, esp. NY/1983, PA/1428, CA/1383, IL/1235, TX/948	--17,954
86.	1890 -- Jan-March ¹⁹	Influenza (La Grippe/Russian Flu), esp. NY/IL/CT/OH/PA	--16,295-17,807
87.	1866 -- May-Dec,	Cholera , esp. Cincinnati/New Orleans/NYC/St. Louis/TN/Philly/Army---	16K-17,742
88.	1912 --	Tuberculosis , Jan 1-Jun 8, CA, IL, IN, MA, MO, NJ, NYC, PA, TX, WI	17,463
89.	1944 --	Influenza , especially Jan-Apr & Dec, nationwide, especially OH, PA, TX	17,320
90.	1938 --	Influenza , international list #11, US Census Bureau, <i>Vital Statistics 1938 Pt. I</i>	--16,520
91.	1900 --	Influenza , esp. MA/1130, TN/1019, PA/978, NC/799, AL/778, VA/754, GA/667	16,645
92.	1988 --	HIV AIDS , US death rate 6.8, DC/39.0, NY/22.2, NJ/14.9, FL/11.7, CA/11.1	16,602
93.	1900 --	Diphtheria , esp. PA/2805, NY/2673, IL/1504, MA/1072, OH/698, NJ/678	16,475
94.	1880 --	Scarlet Fever , especially children, nationwide, especially IN, NY and PA	16,388
95.	2010 --	HIV/AIDS , U.S., nationally	15,525
96.	2010-11 (Winter)--	Estimated Excess Influenza & Pneumonia Deaths (95%CI)-	12,111-15,372
97.	1860 --	Croup (contagious upper airway viral infection), nationwide	15,188
98.	1954 --	Tuberculosis (respiratory), esp. NY/1667, CA/1108, PA/1100, IL/939, TX/843	--15,146
99.	1900 --	Malarial Fever , esp. AR/1730, TX/1331, LA/1030, AL/1005, GA/1001	14,874
100.	1850 --	Cholera , esp. Sac. & SF, CA, IL, IN, KY, LA, MO, OH, TN, WI ²⁰	--14,158-14,637
101.	1894 --	Diphtheria , NY/6.6K, esp. NYC/2785, MA/1.5K, Chicago, 1.4K, Philly, NJ	14,606
102.	1887 --	Diphtheria , esp. NY/6490 (NYC/4509), Chicago/1405, St. Louis/1112, Philly	14,507
103.	1861-65--	Apr-June, Tuberculosis , Civil War, Union/6,946 deaths, Confederate/?	~14,000
104.	1889-90,	June-May -- Croup , 48 States & DC, esp. NY/1.5K, PA/1.4K, IL/957	13,862
105.	1955 --	Tuberculosis (respiratory), esp. NY/1642, PA/1239, CA/1076, IL/797, TX/736	13,676
106.	1987 --	HIV Infection/AIDS , death rate 5.55, esp. DC/28.1, NY/19.1, NJ/13.7, CA/9.5	13,468
107.	1920 --	Diphtheria , esp. Detroit, Fall River, MA, Bridgeport, CT, St. Louis	13,395
108.	1941 --	Influenza , with respiratory complications specified; <i>Vital Statistics 1941</i>	13,188
109.	1835 --	Nov-Spring 1838, Smallpox , Sitka, Gulf of AK, Kodiak, Aleutian Isl. natives, AK	13,105
110.	1850 --	Typhoid Fever , 31 States, Washington, DC, four Territories	13,099
111.	1900 --	Measles , esp. TX/1,412, AR/1,274, NY/1,174, MS/950, PA/815, TN/974	12,866
112.	1907 --	Typhoid , esp. PA/3,538, NY/1702 IN/948 MI/594 CA/545 OH/523 MD/520-	12,670
113.	1900 --	Croup (Upper airway viral infection), esp. PA/1064, TN/958, KY/768 GA/686	12,484
114.	1891 --	March-May, Influenza & Pneumonia , esp. Chicago/6,800, NY/5,572	12,472
115.	2009 --	Apr 12-Apr 10, 2010, H1N1 "Swine Flu" Pandemic (U.S.)	12,469
116.	1957 --	Tuberculosis (respiratory), esp. NY/1493, PA/959, CA/833, TX/733, IL/673-	12,384

¹⁹ Technically, what became the flu epidemic of early 1890 began in late December 1889.

²⁰ This reflects zero Plains Native American deaths, whereas the range of cholera deaths amongst Plains natives in 1849 was 5,600-6,500. We believe that there must have significant loss of life, but have just not located sources.

117. 1958 -- **Tuberculosis**, esp. NY/1,380, PA/1013, CA/872, IL/725, TX/721, OH/550 12,361
 118. 1986 -- **HIV AIDS**, New York City (2,650), U.S. 12,053
 119. 1900 -- Sep 9, **Hurricane**, Galveston and southeast coastal area, TX 7,200-12,000

Large Loss-of-Life Events by Mortality (continued):

120. 1900 -- **Dysentery**, esp. AL/861 TX/794 GA/781 NY/676 TN/663 SC/578 AR/541 11,710
 121. 1738-39 -- **Smallpox**, Catawba (NC/SC) and Cherokee Natives (NC) --7,700-11,700
 122. 1959 -- **Tuberculosis**, esp. NY/1,316, PA/981, CA/815, IL/643, TX,633, OH/527 --11,456
 123. 2018 -- **Influenza**, ICD-10 codes J09-11.8, death rate 3.4 per 100K pop., esp. WV/6.6 --11,164
 124. 1879 -- June-May 1880, **Whooping Cough**, nationwide, esp. IN, GA, NC, TX, AL 11,064

 125. 1920 -- **Whooping Cough**, esp. Atlanta, Nashville, Kansas City, KS, Omaha 10,968
 126. 1911 -- **Tuberculosis**, Aug-Dec, NYC, NY, IL, CA, IN, MA, NJ, PA, TX 10,926
 127. 1942 -- **Influenza**. Census Bureau. *Vital Statistics US 1942 -- Part II...Mortality* --10,902
 128. 1881 -- **Diphtheria**, esp. NY/3.7K (NYC/2249, Brooklyn/1143), MI/2K, MA/1K, NJ/972 10,886
 129. 1960 -- **Tuberculosis**, death rate 6.1 per 100K; esp. AZ/12.1, DC/11.8, KY/10.7 --10,866
 130. 1885 -- **Diphtheria & Croup**, localities in 16 states; esp. NY/4508, MI/1552, NJ/1496 10,788
 131. 1850 -- **Croup** (contagious upper airway viral infection), nationwide 10,706
 132. 1870 -- **Croup** (contagious upper airway viral infection) nationwide 10,692
 133. 1914 -- **Influenza and Pneumonia**, The Year, NYC, NY 10,500
 134. 1854 -- **Cholera**, esp. NYC/2.5K, St. Louis/1.5K, Chicago, Detroit, Boston--10,275-10,467
 135. 1916 -- **Diphtheria**, especially children, esp. PA/1,653, NY/1,518, MI/486, NJ/444 --10,367
 136. 1907 -- **Diphtheria** and Croup, Nationwide, esp. NY and PA (esp. Philadelphia) 10,154
 137. 1907 -- **Influenza**, Census "Registration States and Localities" \geq 10,066
 138. 1867 -- Jul-Dec, **Yellow Fever**, esp. New Orleans, Galveston/Houston; also AL/FL/MS/TN 10,012
 139. 1659 -- **Measles** Epidemic, Native Americans, FL 10,000
 140. 1798 -- **Yellow Fever epidemic**, East Coast Port Cities, esp. Philly and NYC 10,000
 141. 1837 -- **Smallpox epidemic**, California Native Americans²¹ 2,000-10,000
 142. 1848 -- Sep-early '49, **Measles/Whooping Cough/Dysentery/Influenza** Epidemics, HI 10,000
 143. 1849-50 -- **Scurvy**,²² California Gold Rush Immigrants ~10,000
 144. 1988 -- **Heat Wave**, Summer, Central/eastern U.S. ~5,000-10,000
 145. 1980 -- June-Sep, **Heat**, esp. Midwest & So. Plains, esp. MO/TN/AR/TX >2,000~10,000

 146. 1900 -- **Whooping Cough**, esp. NY/988, PA/702, TX/576, IL/497, AL/494, TN/425--9,958
 147. 1961 -- **Tuberculosis**, US death rate 5.4 per 100K; esp. DC/12. KY/10, AR/10.6, AZ/9.4 --9,938
 148. 1872 -- **Smallpox**, esp. Philly/2591, NYC/1666, St. Louis/1.6K, Baltimore/1217, Boston/1K-- \geq 9,742
 149. 1861 -- May 1-June 30, 1866, **smallpox**, Union soldiers and Confederate prisoners²³--9,682
 150. 1850 -- **scarlet fever**, esp. PA/1,974, OH/1,301, NY/1,028, MA/571, MD/561, VA/523 --9,584
 151. 1962 -- **tuberculosis**, death rate 5.1 per 100K; esp. DC/11.9, KY/9.8, AZ&AR/9.7 --9,508
 152. 1953 -- **influenza**, esp. TX/716 OH/532 MO/484 PA/460 GA/427 TN/414 AL/393 --9,500

²¹ As noted in the narrative description section, 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 before him giving estimates of 100,000, and 200,000 to 300,000, are "obviously wild guesses." His own guestimate (p. 214) is 2,000. We simply recognize the range. In another book in 1978 he writes that "the mortality may have reached 10,000."

²² Severe vitamin C deficiency which can lead to death. GARD (Genetic and Rare Diseases Information Center).

²³ There is overlap with our 1863 entry (1,078 deaths) which includes Fort Delaware, Camp Chase, MD, and VA.

153. 1853 -- **smallpox**, esp. natives, HI, Nevada City vic., CA, OR/WA; also NYC--7,450-9,450
 154. 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
 155. 1889-90, June-May, **measles**, esp. NY/757, PA/676, KY/513, MO/513 OH/714 AL --9,256
 156. 1870 -- **Measles**, nationwide --9,237
 157. 1897 -- **typhoid** (enteric) fever, esp. NY/1.5K, OH/1.2K, MA/1.1K, IN/655, PA -->9,192
 158. 1919 -- **diphtheria**, 31 reporting states, DC & PR, esp. CT, DC, IL/MI/NJ/NY/OH --9,160
 159. 1918 -- **typhoid fever**, 33 Registration States, DC and Puerto Rico, esp. TX/1,057 --9,100
 160. 1801-02 -- **smallpox**, Natives, esp. Chinook, Omaha, Osage, esp. Central, Northwest->9,090
 161. 1870 -- **whooping or "hooping" cough**, nationwide, esp. NY, IL, IN, OH, PA --9,008

Large Loss-of-Life Events by Mortality (continued):

162. 1875 -- **Tuberculosis**/consumption; data on Chicago/880, MI/1419, NYC/4172, Philly/2359--8,830
 163. 1946 -- **Influenza**, infectious and parasitic diseases International List code 33 --8,783
 164. 1900 -- **Smallpox**, esp. MS/782, LA/708, NM/287, VA/263, AL/224 AR/195 TX/146 8,484
 165. 1860 -- **Whooping Cough**, nationwide, especially, NY, NC, OH, PA, and VA --8,408
 166. 1964 -- **Tuberculosis**, US death rate 4.3; esp. DC/12, AZ/9, AL/7.4, WV/7.2, TN/7.0 --8,303
 167. 1925 -- **Typhoid & paratyphoid Fever**, 48 States, esp. KY/668, TN/653, LA/649 --8,287
 168. 1880 -- **Measles**, nationwide, especially GA, IL, IN, KS and MO --8,254
 169. 2013 -- **Viral Hepatitis**, ICD-10 code B-15-B19, esp. OR/6.0 death rate, DC/5.9 --8,157
 170. 1913 -- **Measles**, US "registration area" (65.1%), esp. PA/1,578, NY/1,120, OH/679 --8,108
 171. 2014 -- **Viral Hepatitis**, ICD-10 code B-15-B19, esp. DC, OR (5.3 death rate per 100,000) --8,081
 172. 2012 -- **Viral Hepatitis**, ICD-10 code B-15-B19, esp. NM/99, AZ/291, CA/1,387 --8,062
 173. 1925 -- **Diphtheria**, esp. NY/1,006, PA/973, IL/409, OH/392, MI/360, NJ/337 --8,058
174. 1965 -- **Tuberculosis**, US death rate 4.1 per 100K; DC/12.7, AL/7.5, AZ/7.5, NM/6.6 --7,934
 175. 1960 -- **Influenza**,²⁴ US death rate 4.4 per 100K; esp. AL/11.5, SC/11.2, MS/10.9 --7,872
 176. 1976 -- **Influenza**, ICD-8 codes 470-474, death rate 3.6 per 100K, esp. NE/12.9 --7,877
 177. 2011 -- **Viral Hepatitis**, ICD-10 code B-15-19 (death rate 2.5 per 100K), esp. DC (7.1) --7,850
 178. 1920 -- **Measles** --7,712
 179. 1947 -- **Influenza**, infectious and parasitic diseases code 33 --7,664
 180. 1966 -- **Tuberculosis**, esp. NY/844, PA/589, CA/537, IL/410, TX/404, OH/340 --7,625
 181. 2010 -- **Viral Hepatitis**, ICD-10 code B-15-19 (death rate 2.4 per 100K), esp. OK (4.9) --7,564
 182. 1934 -- **Whooping cough**, international list #9, Census Bureau. *Mortality Statistics 1934* --7,518
 183. 1879 -- June-May 1880, **Meningitis**, especially KY, NY, PA, MO and TN --7,481
 184. 1957 -- **Influenza**, especially PA/476, NY/471, TX/459, OH/437. GA/341, NC/318 --7,463
 185. 2015 -- **Viral Hepatitis**, ICD-10 code B15-B19, esp. DC (death rate 6.4 per 100,000) --7,461
 186. 1963 -- **Influenza**,²⁵ US death rate 3.8; SC/11.9, KY/11.6, WV/11., MS/10.9 TN/9.3--7,083
 187. 1968 -- **Influenza**, ICD-8 codes 470-474/death rate 3.5 per 100K, esp. VE/15.0, NE/9.1 --7,062
 188. 1882 -- **Smallpox**, esp. Chicago/1292, Cincinnati/1249, PA/1111, Baltimore/551 -->7,056
 189. 1916 -- **Polio**, esp. July-Sep, esp. NYC/NY (3,331), NJ (1,180), PA (414) --6,745->7,000
190. 1934 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1934* --6,986
 191. 1925 -- **Whooping Cough**, esp. PA/648, NY/523, CA/481, OH/374, IL/315, MA/279--6,948

²⁴ Distinct from the 58,931 pneumonia deaths (codes 490493) noted in the Table 1-V, p. 1-42.

²⁵ Distinct from the 63,678 pneumonia deaths noted in the next column in Table 1-12.

192. 1985 -- **HIV AIDS**, New York City (1,663), U.S. --6,903
 193. 1967 -- **Tuberculosis** --6,901
 194. 1920 -- **Typhoid Fever** --6,805
 195. 1873 -- Feb-Sep, **Cholera**, esp. TN/>2K esp. Nashville/~1K, KY/~1K, St. Louis --5,814-6,519
 196. 2017 -- **influenza**; death rate 2.0 per 100K pop.; esp. ME/5.2, MT/5.1, OR/4.9 WA/4.2--6,515
 197. 1858 -- Jun-Dec, **Yellow Fever**, esp. Charleston SC; Galveston & Indianola; New Orleans/4855-6,490
 198. 2016 -- **Viral Hepatitis**, ICD-10 code B15-B19, esp. DC (death rate 4.8 per 100K; US 2.0) --6,421
 199. 1812 -- Oct-Jun 1813 (esp.), Peripneumony/**Lung Fever** (pneumonia), VT, esp. Burlington-4350-6,400
 200. 1833 -- May-Aug (esp.), **Cholera**, esp. KY/~2000, NOLA/1000, WV/OH/IN/TN/IL -6308-6,353
 201. 1900 -- **Scarlet Fever**, esp. PA/894, NY/812, TX/707, IL/643, MA/384, OH/334 --6,333
 202. 1870 -- **Diphtheria**, nationwide --6,303
 203. 1968 -- **Tuberculosis**, US death rate 3.2 per 100K, esp. DC/10.9 AZ/6.2 AL/6. WV/6. --6,292
 204. 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
 205. 1540 -- Oct 18, Spanish (de Soto) **Battle/massacre**, with Atahachi, Mabila, AL 2,500-6,000

Large Loss-of-Life Events by Mortality (continued):

206. 1969 -- **Influenza**, ICD-8 codes 470-474/death rate 2.96 per 100K, esp. KS/7., SC/6., MT/6. --5,971
 207. 2020 -- **Influenza** (distinct from 47,601 pneumonia deaths); death rate 1.8 per 100K --5,943
 208. 1855 -- **Yellow Fever epidemic**, Montgomery AL, New Orleans, MS, Memphis, VA 5,938
 209. 2019 -- **Influenza**, esp. CA/560 TX/396 NY/336 lives lost; VT/4.3 OR/3.7 NE/3.3 death rate-5,902
 210. 1891 -- **Typhoid Fever**, esp. Chicago/2K, NY/1926, Philadelphia/683, NJ/695, DC --5,840
 211. 1931 -- **Diphtheria**, especially children, especially AR, IL, KY and PA --5,738
 212. 2017 -- **HIV**, US death rate 1.75 per 100K, esp. DC/9.8, MS/3.8, FL/3.6, LA/3.5 --5,698
 213. 1952 -- **Influenza**, esp. TX/433 PA/377 OH/335 AL/283 NC/248 VA/239 MO/226 --5,649
 214. 1864 -- Feb 24-Apr 17, 1865, **Diarrhea & Dysentery**, Union POW's, Andersonville, GA-5,605
 215. 1969 -- **Tuberculosis**, US death rate 2.76 per 100K, esp. DC/9.6, AZ/6.0, AL/5.9 --5,567
 216. 2018 -- **HIV**; US death rate 1.66 per 100K, esp. DC/9.25, MS/4.15, LA/3.4 FL/3.3 --5,425
 217. 1932 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1932* --5,418
 218. 1936 -- July-Aug (esp.), **Heat**, esp. MN/772, MO/644, IL/634 MI/617 WI/500--4,678-5418
 219. 1932 -- **Whooping Cough**, international list #9, Census Bureau. *Mortality Statistics 1932*--5,364
 220. 1931 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1931* --5,298
 221. 1850 -- **Whooping Cough**, esp. NY/649, OH/450, GA/385, AL/305, PA/288, SC/269 --5,280
 222. 1881 -- **Smallpox**, esp. Philly/1336, Chicago/1180, NYC/503, Pittsburgh/448, HI/282 --5,275
 223. 2015 -- **Influenza** (ICD-10 codes J09, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8) --5,251
 224. 1970 -- **Tuberculosis**, US death rate 2.56 per 100K, esp. DC/6.8 AL/5.0 WV/4.5 KY/4.3--5,217
 225. 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
 226. 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
 227. 1905 -- **Cerebrospinal Meningitis** Epidemic, esp. NYC/1511-2025; also CT/NH/NJ/MA-5,114
 228. 1931 -- **Pellagra** (vitamin B3/niacin malnutrition); international list #62, Census Bur. --5,091
 229. 1906 -- **Measles**, nationwide, especially children --5,087
 230. 1948 -- **Influenza**, 1948 ICD infectious and parasitic diseases code 33 --5,068
 231. 2019 -- **HIV/AIDS**, US death rate 1.54 per 100K pop.; DC/10.0, FL/3.2, MD, 3.0 --5,044
 232. 1735-41 -- **Diphtheria** ("Throat Distemper")²⁶ (esp. 1735-37), esp. CT/ME/MA/NH-5,000

²⁶ 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.

233. 1793 -- **Yellow Fever** epidemic, Aug-Nov, Philadelphia, PA --4,041-5,000
 234. 1906 -- Apr 18, **Earthquake, Fires, Landslides**, San Francisco & vic., CA --3,000-5,000

Large Loss-of-Life Events by Mortality (continued):

235. 1972 -- **Influenza**, ICD-8 codes 470-474/death rate 2.38 per 100K, esp. SD/8.9 ME/8.7 --4,986
 236. 1937 -- **Whooping Cough**, international list #9, Census Bureau. *Vital Statistics Pt. I*--4,981
 237. 2021 -- **HIV**, US death rate 1.50, esp. DC/7.45, FL/2.89, GA/2.76, MS/2.71, LA/2.7--4,977
 238. 1933 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1933* --4,937
239. 1907 -- **Whooping Cough**), Census Registration States and localities --4,856
 240. 1938 -- **Whooping Cough**, international list #9, Census Bureau. *Vital Statistics Part I*--4,778
 241. 1935 -- **Whooping Cough**, international list #9, Census Bureau. *Mortality Statistics 1935*--4,753
 242. 2011-2012 (Winter) -- estimated excess **Influenza & Pneumonia** Deaths -- 3,691-4,747
 243. 1852 -- **Cholera**, esp. NY/1.3K, IL/1.2-1.3K, New Orleans/1K-1.3K, MO/~1K --4,381-4,736
 244. 1933 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1933* --4,678
 245. 1921 -- **Measles**, especially children, nationwide --4,667
 246. 1898 -- June-Dec, esp., **Typhoid**, esp. Spanish War Army Camps, esp. Southeast -->4,627
 247. 1931 -- **Whooping Cough**, esp. children, esp., by death rate, NM/11.7, ID/11.4 --4,619
 248. 2014 -- **Influenza** (ICD-10 codes J09, J10, J11), especially CA (457), TX (418) --4,605
 249. 1949 -- **Influenza** (codes 480-483); pneumonia (codes 490-493) was 40,038 --4,602
 250. 1870 -- **Smallpox**, nationwide --4,597
 251. 1934 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1934* --4,520
 252. 1871 -- **Smallpox**, esp. Philadelphia/1,879, Cincinnati/1,179, NYC/805, Chicago/MI/NJ--4,505
 253. 1971 -- **Tuberculosis**, US death rate 2.18 per 100K, esp. DC/5.8 AL/4.1 TN/3.5 AZ/3 --4,501
 254. 1933 -- **Whooping Cough**, int. list #9, Census Bureau. *Mortality Statistics 1933* --4,463
 255. 1914 -- **Measles**; US state and local “registration area” (66.8% of pop.), esp. DE/AL --4,461
 256. 1958 -- **Influenza**, esp. TX/415, AL/275, OH/260, TN/230, GA/206, MS/199, PA/199--4,442
 257. 1935 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1935* --4,435
 258. 1933 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1933* --4,389
 259. 1972 -- **Tuberculosis**, US death rate 2.09 per 100K, esp. DC/4.8 DE/4.2 AL/3.9 NM/3.9 --4,376
 260. 1932 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1932* --4,363
 261. 1912 -- **Pneumonia**, Mar 24-Jun 8, Chicago, IL, NYC, NY --4,342
 262. 1854 -- Jun-Dec, **Yellow Fever**, esp. Jacksonville, Charleston, Galveston, NOLA, Savannah--4,313
 263. 1907 -- **Scarlet Fever**, nationwide --4,309
 264. 1907 -- **Measles**, especially children, nationwide --4,302
 265. 1975 -- **Influenza**, ICD-8 codes 470-474, death rate 1.986 pre 100K, esp. KS/6.317 --4,277
 266. 1912 -- **Measles**, US “registration area” (~65% population), NYC (671) --4,240
 267. 1934 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1934* --4,162
 268. 1934 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1934* --4,159
 269. 1978 -- **Influenza**, ICD-8 codes 470-474, US death rate 1.8 per 100K, esp. ME/5.0, KS/4.7 --4,052
 270. 1901 -- June-July, **Heat waves**, except Pacific NW, esp. Northeast, June 27-July 6 --4,012
 271. 1920 -- **Scarlet Fever**, esp. Akron, OH, Wilmington, DE, Springfield, MA --4,004
 272. 1815-16, winter -- **Smallpox epidemic**, Comanche Nation²⁷ -->4,000

²⁷ 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.

273. 1838 -- May-Mar 1839, **Cherokee Relocation**, NE AL/NW GA/SE TN/NW NC to OK²⁸ ~4,000

Large Loss-of-Life Events by Mortality (continued):

274. 1874 -- **Scarlet Fever**, esp. NYC/879, Cincinnati/687, Brooklyn/479, Philly/461, VT--3,996
275. 1933 -- **Pellagra** (vitamin B3/niacin malnutrition); international list #62, Census Bur. --3,955
276. 1936 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1936* --3,943
277. 1935 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1935* --3,907
278. 1935 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1935* --3,901
279. 1860 -- **Measles**, especially NY, OH, MO and PA --3,809-3,900
280. 1973 -- **Tuberculosis**, US death rate 1.84 per 100K, esp. DC/5.0 TN/2.9 AL/2.8 WV/2.8 --3,875
281. 1941 -- **Whooping Cough**, Census Bureau. *Vital Statistics, Part I, Mortality*, p. 350--3,785
282. 1906 -- **Tuberculosis**, The Year, Philadelphia, PA --3,742
283. 1936 -- **Pellagra** (vitamin B3/niacin malnutrition); int. list #62, Census Bureau --3,740
284. 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
285. 2013 -- **Influenza**, ICD-10 codes J09-11, esp. SD (3.6) MT (3.5) ME (3.2) death rates --3,697
286. 1932 -- **Pellagra** (vitamin B3/niacin malnutrition); international list #62, Census Bur. --3,694
287. 1864 -- Feb-April 1865, **Scurvy**, Union POW's, Camp Sumter, Andersonville, GA --3,614
288. 1934 -- **Pellagra** (vitamin B3/niacin malnutrition); int. list #62, Census Bureau --3,602
289. 1873 -- July-Dec, **Yellow Fever**, esp. Memphis, AL, Pensacola, Louisville, LA, TX-3542-3584
290. 1984 -- **HIV AIDS**, New York City (952) --3,578
291. 1931 -- **Measles**, especially children, especially IL and PA --3,576
292. 1920 -- **Dysentery**, 33 registration states --3,574
293. 1930 -- **Malaria**, nationwide, esp. AL, AR, FL, GA, LA, MS, OK, SC, TN, TX --3,572
294. 1935 -- **Pellagra** (vitamin B3/niacin malnutrition); int. list #62, Census Bureau --3,543
295. 1974 -- **Tuberculosis**, US death rate 1.65 per 100K, esp. DC/5.1, KY/2.8, TN/2.6 --3,513
296. 1899 -- Aug 8-19, San Ciriaco **Hurricane** esp. Puerto Rico/3433 & NC/73, Aug 17/18-3,507
297. 1841 -- **Yellow Fever**, esp. FL & LA, esp. New Orleans, also Vicksburg, Charleston-3,498
298. 1909 -- **Tuberculosis**, Philadelphia, PA --3,496
299. 1908 -- **Tuberculosis**, Philadelphia, PA --3,490
300. 1935 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1935* --3,442
301. 1962 -- **Influenza**,²⁹ US death rate 1.8 per 100K; esp. NE/5, TN/5, MS/4.2, SC/4 --3,431
302. 1847 -- **Yellow Fever**, esp. NOLA, also Galveston/Mobile/Pensacola/Vicksburg³⁰ -->3,400
303. 1934 -- **Dysentery**, international list #13, Bureau of Census. *Mortality Statistics 1934* --3,373
304. 1943 -- **Whooping Cough**, especially children, nationwide --3,368
305. 1975 -- **Tuberculosis**, US death rate 1.55 per 100K, esp. DC/3.8, KY/2.74, TN/2.72--3,333
306. 1851 -- June-Aug esp., **Cholera**, esp. St. Louis, IL, New OrL., Cincinnati, SD Sioux--3314-3,322
307. 1952 -- **Polio**, esp. IL/258, TX/≥240, MI/218, CA/217, MN/200, IA/163 KY/132, NE/115 --3,300

²⁸ Also referred to as Cherokee Trail of Tears as well as a "forced-march" relocation. Geographic area of coverage from sources in Narrative document and map in Thornton (1990). 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, 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.

²⁹ Distinct from the 56,564 pneumonia deaths noted in the next column in Table 1-12, p. 1-20..

³⁰ 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.

308. 1938 -- **Measles**, international list #7, Census Bureau. *Vital Statistics 1938*, Part I --3,296
309. 1904 -- **Cerebrospinal Meningitis**, esp. NYC/1,083-1,403, Hartford, CT/108, NJ/245 --3,284
310. 1906 -- **Epidemic Cerebro-spinal Meningitis**, esp. NY/1,117 (NYC/600), PA/385 --3,258
311. 1925 -- **Dysentery**, esp. KY/297, WV/213, LA/211, SC/211, TN/207, VA/196 --3,257
312. 1934 -- summer, esp. mid-July-mid-Aug **Heat**, esp. Midwest, esp. MO, IL, KS, OH --3,250
313. 1910 -- **Tuberculosis**, the Year, Philadelphia, PA --3,190
314. 1889 -- May 31, South Fork **Dam Failure**, Flash Flood, Fire, Johnstown PA --2,209-3,188
315. 1896 -- **Measles**, esp. NYC/714, Brooklyn/333, Philadelphia/191, Cincinnati/100, CT --3,178
316. 1920 -- **Malaria**, esp. MS/683, LA/586, SC/487FL/344, NC/210 and TN/183³¹ --3,136
317. 1976 -- **Tuberculosis**, US death rate 1.44 per 100K, esp. DC/4.0, NM/2.8, AL/2.6 --3,130
318. 1936 -- **Dysentery**, international list #13, Census Bureau. *Mortality Statistics 1936* --3,122
319. 1936 -- **Typhoid Fever**, international list #1, Census Bureau. *Mortality Statistics 1936* --3,098
320. 1936 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1936* --3,065
321. 2001 -- Sep 11, **Violence, 9/11 Terrorist Attacks** --3,064
322. 1939 -- **Whooping Cough**, nationally, esp. AL, GA, IL, MS, NY, NC, PA, TX, VA --3,026
323. 1936 -- **Epidemic Cerebrospinal Meningitis**, int. list #18, Census Bur. *Mortality Statistics* - 3,020
324. 1819 -- **Yellow Fever**, esp. Charleston, Mobile, Natchez; most esp. New Orleans-2871-3019
325. 1981 -- **Influenza**, US death rate 1.31 per 100K, esp. SD/4.2, IA/3.5, UT/3.3, VT/3.3 --3,006
326. 1804 -- **Epidemic, Possibly Cholera** (or Typhoid or Plague) Natives, Oahu, HI >3,000
327. 1928 -- Sep 6-20, Great Okeechobee **Hurricane/Flood**, Southeast FL --1,800-3,000

Large Loss-of-Life Events by Mortality (continued):

328. 1850 -- **Measles**, especially NY/505, OH/363, PA/316, VA/222, MO/189, IN/163 --2,988
329. 2017 -- Sep 20, **Hurricane Maria**, Puerto Rico (2,975), US Virgin Isl. (2), NJ (3) --2,980
330. 1937 -- **Dysentery**, international list #13, Bureau of Census. *Vital Statistics Part I* --2,974
331. 1977 -- **Tuberculosis**, US death rate 1.35 per 100K, esp. DC/4.24, TN/2.8, KY/2.2 --2,968
332. 1966 -- July, **Heat Wave** and “excess deaths,” esp. IL, NYC, St. Louis, MO ~2,582-2,954
333. 1938 -- **Dysentery**, international list #13, Census Bureau. *Vital Statistics 1938 Part I* --2,933
334. 1940 -- **Whooping Cough**, nationwide, especially TX and KY --2,926
335. 1978 -- **Tuberculosis**, ICD-8 codes 010-019, esp. NY/283, CA/217, PA/185, IL/165 --2,914
336. 2016 -- **Influenza** (ICD-10 codes J09, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8) --2,905
337. 1883 -- **Smallpox**, esp. New Orleans/834 Baltimore/633 Cincinnati/189 Chattanooga/103 --2,868
338. 1950 -- **Influenza**; separate from influenza with pneumonia/3,492 and pneumonia/40,523 --2,857
339. 1959 -- **Influenza**,³² esp. TX/191, TN/133, OH/126, NY/126 IN/119 MI/108 GA/104 CA--2,845
340. 1931 -- “Epidemic **Cerebrospinal Meningitis**,”³³ U.S., especially IL, NY and PA --2,832
341. 1966 -- **influenza** (pneumonia deaths were 63,615), esp. CA/636, WA/154, OR/134 --2,830
342. 1933 -- **Dysentery**, international list #13, Census Bureau. *Mortality Statistics 1933* --2,815
343. 1933 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1933* --2,813
344. 1944 -- **Cerebrospinal Meningitis**, nationwide, esp. CA, IL, MI, NJ, NY, OH, PA --2,812

³¹ 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.

³² Distinct from the 52,195 pneumonia deaths (codes 490-493) noted in the Table 78, p. 406.

³³ “Epidemic Cerebrospinal Meningitis,” is the name used for this malady in U.S. Census, *Mortality Statistics 1931*.

345. 1875 -- **Smallpox**, esp. New York City (1,899), Cincinnati (745), Philadelphia (54) --2,770
 346. 1931 -- June-Sep, **Heat Waves**/excessive heat, West, Midwest, NE, esp. IL, IA, WI --2,768
 347. 1839 -- Jun-Oct, **Yellow Fever**, SC, FL, GA, TX, esp. Mobile, Natchez, New Orleans ~2,764
 348. 1925 -- **Scarlet Fever**, esp. PA/343, IL/279, OH/252, MI/216, NY/191, MO/169 --2,762
 349. 2009 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,756
 350. 1955 -- **Influenza**, esp. OH/187 AL/183 GA/181 TX/169 PA/154 TN/136 MS/106 --2,755
 351. 2011 -- **Diarrhoea & Gastroenteritis of Infections Origin** (ICD-10 code A09), esp. NJ --2,743
 352. 1822 -- **Yellow Fev.**, esp. late Sum-Fall, esp. NOLA/Marietta OH/NYC/Pensacola³⁴-1519-2,741
 353. 2010 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,741
 354. 1937 -- **Malaria**, international list #38, Census Bureau. *Vital Statistics, Part I* --2,729
 355. 1949 -- July-Nov esp., **Polio**, esp., NY/320, IL246, MI/210, TX/183 NJ/180 CA/236--2,720
 356. 1935 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1935* --2,718
 357. 1871 -- **Scarlet Fever**, esp. NYC/791, Baltimore/625, MI/696, MN/335, Philly/262 --2,709
 358. 1980 -- **Influenza**, US death rate 1.19 per 100K, esp. ND/4.3, MA/3.4, ME/3.3, MT/3 --2,702

Large Loss-of-Life Events by Mortality (continued):

359. 1954 -- **Influenza**, esp. TX/228 AL/180 GA/162 PA/154 OH/143 TN/120 M0/104 --2,696
 360. 2009-2010 (Winter) -- **Influenza** deaths (out of 1,595,870 US deaths) --2,691
 361. 2013 -- **Diarrhoea and gastroenteritis of infections origin** (ICD-10 code A09) --2,669
 362. 1936 -- **Whooping Cough**, international list #9, Census Bureau. *Mortality Statistics* --2,666
 363. 1937 -- **Typhoid**, international list #1, Census Bureau. *Vital Statistics 1938, Pt. I* --2,659
 364. 1935 -- **Epidemic Cerebrospinal Meningitis**, int. list #18, Census. *Mortality Statistics* --2,657
 365. 1931 -- **Scarlet Fever**, especially children, especially IL --2,651
 366. 1937 -- **Diphtheria**, international list #10, Census Bureau. *Vital Statistics Part I* --2,637
 367. 2012 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,610

 368. 1932 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1932* --2,577
 369. 1932 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1932* --2,568
 370. 1938 -- **Diphtheria**, international list #10, Census Bureau. *Vital Statistics Part I* --2,556
 371. 1933 -- **Scarlet Fever**, international list #8, Census Bur. *Mortality Statistics 1933* --2,546
 372. 1931 -- **Malaria**, esp. AL, AR, FL, GA, LA, MS, MO, SC, TN --2,536
 373. 1942 -- **Whooping Cough**. Census Bureau. *Vital Statistics ...1942...Mortality* --2,536
 374. 1934 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1934* --2,524
 375. 1865 -- **Smallpox**, esp. NYC/≤664, Philly/524, SC/GA/FL Sea Islands/~800³⁵ -2,500-2,510
 376. 1797 -- **Yellow Fever epidemic**, New Design, MO, NYC, Philly, Providence, RI --2,502
 377. 1876 -- **Smallpox**, 10 data-points, esp. Cincinnati/~930, SF CA/482, Philly/407, NYC/315~2500
 378. 1893 -- Aug 27-28, **Hurricane**, Sea Islands “Great Storm of 1893,” GA/SC --1,000-2,500
 379. 1900 -- June-Dec, **Measles** and **Influenza**, Native Alaskans, esp. west AK ~2,000-2,500

 380. 1936 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1936* --2,493
 381. 1863 -- **Smallpox**, esp. DC/700, Camp Chase OH, Fort Delaware DE, Baltimore/IL/PA-2.3K--2,490
 382. 2015 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,456
 383. 1910 -- sum-fall esp., **Polio**, esp. IA/161, MA/122, MN/97, NY/170, PA/269 --1459-2,449

³⁴ Also includes 101 fatalities on the U.S. Frigate *Macedonian*, sailing in the Caribbean late Spring to mid Summer.

³⁵ This does not take into account hundreds of smallpox fatalities in military ranks and especially military prisons.

384. 1931 -- **Dysentery**, international list #13, Bureau of Census. *Mortality Statistics 1931* --2,441
 385. 1935 -- **Dysentery**, international list #13, Bureau of Census. *Mortality Statistics 1935* --2,436
 386. 1864 -- **Yellow Fever**, esp. New Bern NC/1,359, Charleston, SC/700, Galveston, NOLA--2,414
 387. 2014 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,405
 388. 1925 -- **Measles**, 40 Registration states, esp. PA/503, MA/349, NY/323, IL/217, NJ/124 --2,404
 389. 1941 -- Dec 07, **Violence, Attack** by Japanese on Pearl Harbor, HI --2,402
 390. 1871 -- Oct 8-9, **Wildfire/Firestorm**, Peshtigo/NE WI vic.; Birch Creek MI --1,228-2,400

Large Loss-of-Life Events by Mortality (continued):

391. 1967 -- **Syphilis** --2,381
 392. 1938 -- **Malaria**, international list #38, Census Bureau. *Vital Statistics, Part I* --2,378
 393. 2016 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,361
 394. 1850 -- **Smallpox**, esp. OH/551, NY/276, MA/232, PA/208, KY/150, MD/144, IN/140- 2,352
 395. 1956 -- **Influenza**, esp. PA/139, TX/153, OH/134, AL/130, GA/109, MS/100, TN/96 --2,323
 396. 1880 -- **Diphtheria**, NY, esp. children, esp. NYC & Brooklyn; elsewhere NY--1,805-2,303

 397. 1965 -- **Influenza**,³⁶ death rate 1.2 per 100K, esp. ME/5.0, KS/4.0, NE/3.6, VE/3.3 --2,295
 398. 1941 -- **Measles**, esp. children, esp. VA (170), GA (160), KY (158), SC (138), TN (133) --2,279
 399. 1864 -- **Typhoid**, Chicago/192, Philadelphia/648; **Typhus**/Typhoid, NYC/1,425 --2,265
 400. 1937 -- **Epidemic cerebrospinal meningitis**, int. list #18, Census. *Vital Statistics, Pt. I* --2,208
 401. 1873 -- **Smallpox**, esp. Boston/668, Baltimore/631, Chicago/515, NYC/117, Charleston/106--2,201
 402. 1974 -- **Influenza**, ICD-8 codes 470-474, death rate 1.30 per 100K, esp. KS/3.48 --2,201
 403. 1893 -- Dec-Jan 1894, epidemic **Influenza**, NY --2,200

 404. 1911 -- **Heat waves**/excessive heat deaths, esp. June 4-23, July 1-13, esp. MW, NE ~2,190
 405. 2022 -- excessive **natural heat**, esp. AZ (1,030) esp. Maricopa County/425, TX/203--2,159
 406. 2023 -- excessive **natural heat**, esp. AZ (867), TX (440), NV (208), LA/82, FL/81 --2,155
 407. 1867 -- June-Dec, **Cholera**, esp. St. Louis, New Orleans, KS/OK/Chicago, US Army-2,145
 408. 1931 -- **Polio**, esp. July-Oct (Aug peak), esp. NY, NJ, MI, MA, IL, CT, PA --2,139-2,144
 409. 1961 -- **influenza**,³⁷ US death rate 1.2 per 100K; esp. AK/3.3, KS/ME/NE at 2.7 --2,137
 410. 1925 -- **Malaria**, esp. MS/426, FL/338, AL/306, LA/256, MO/189, SC/183, TN/155 --2,132
 411. 1902 -- **Smallpox**, esp. NJ/432, NYC/310, MA/283, Cleveland/233, Philly PA/231 --2,111
 412. 1964-65 -- **Rubella (German measles)**, last major US epidemic, especially newborn--2,100

 413. 1990 -- **Influenza**, US death rate 0.84 per 100K; esp. NE//3.5; IA/3.1; ID/2.3; SD/2.3 --2,098
 414. 1932 -- **Dysentery**, international list #13, Bureau of Census. *Mortality Statistics 1932* --2,083
 415. 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
 416. 1863 -- Sep-June 1865, **Diarrhea & Dysentery**, Confederate POWs, Point Lookout MD-2,050
 417. 1865 -- **Typhus/Typhoid** NYC/1,075; Typhoid/Chicago/190 and Philadelphia/773 --2,038
 418. 1896 -- Aug 1-14~, **Heat**, esp., NY/891, IL/277, PA/226, NJ/168, MO/81, WI/77 --2,038
 419. 1927 -- **Polio** (Acute), especially late Summer and Fall, especially children --2,013
 420. 1834 -- ~July-Nov, **Cholera**, esp. Baltimore, Cleveland, Detroit, Goliad TX, NYC-->2,010
 421. 1979 -- **Tuberculosis**, US death rate 0.89 per 100K, esp. DC/2.7, KY/1.7, MS/1.6 --2,007

³⁶ Distinct from the 61,903 pneumonia deaths noted in the next USPHS 1965 Mortality Data column in Table 1-14.

³⁷ Distinct from the 53,038 pneumonia deaths noted in the next column in Table 1-P, p. 1-32.

422. 1634-35, **Smallpox epidemic**, Five Nations, especially Mohawks, Upper NY³⁸ --≥2,000
 423. 1709-10, **Smallpox epidemic**, Native Americans, lower CA --≥2,000
 424. 1893 -- Oct 1-2, **Hurricane**, Cheniere Caminanda, Gulf Coast esp. LA, MS, AL 1700-2000

Large Loss-of-Life Events by Mortality (continued):

425. 1616 -- **Unknown Epidemic**, Natives, especially ~coasts of MA, ME, RI --thousands
426. 1939 -- **Diphtheria**, esp. Jan-Mar, Sep-Dec, Nationwide, esp. GA, IL, NC, TX, VA --1,997
 427. 1980 -- **Tuberculosis**, US death rate 0.87 per 100K, esp. DC/4.21, SC, 1.79, AL/1.74 --1,978
 428. 1989 -- **Tuberculosis**, US death rate 0.80 per 100K, esp. DC/2.55; NY/1.63; LA/1.34 --1,970
 429. 1947 -- **Whooping Cough**, Int. List No. 9 --1,954
 430. 1865 -- Apr 27, Steam **Sultana** explodes/burns, Miss. Riv., Redman Point, AR-1,547-1,947
 431. 1988 -- **Influenza**, US death rate 0.79 per 100K; esp. ID/3.7, IA/2.5, MT/2.6, SD/3.3 --1,943
 432. 1932 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1932* --1,941
 433. 1981 -- **Tuberculosis**, US death rate 0.84 per 100K, esp. AL/1.96, DC/1.57, FL/1.43 --1,937
 434. 1837 -- Aug-Nov, **Yellow Fever** epidemics, Mobile AL; New Orleans LA; Natchez MS--1550-1930
 435. 1944 -- **Measles**, especially Jan-June, Nationwide, esp. CA, GA, OH, PA, TX --1,923
 436. 2021 -- **excessive natural heat**, esp. AZ/854, WA/170, NV/166, CA/140, OR/133 --1,923
 437. 1939 -- **Typhoid**, international list #1, Census Bureau. *Vital Statistics 1939, Part I* --1,922
 438. 1988 -- **Tuberculosis**, US death rate 0.78 per 100K, esp. DC/2.05, NY/1.61, HI/1.48 --1,921
 439. 1943 -- **Dysentery**, Bureau of Census. *Vital Statistics...1943...II...Mortality*, p.192 --1,909
 440. 1950 -- **Polio**, esp. Jul-Nov (1,611 deaths), esp. CA, IL, MI, NY, OH, PA, TX --1,904
 441. 1980 -- June-Sep, **Heat**, esp. Midwest & So. Plains, esp. MO/TN/AR/TX/MS³⁹--1,863-1,904
442. 1948 -- **Polio**, especially CA, MN, NC, OH, SD, TX and WI --1,895
 443. 1944 -- **Whooping Cough**, Nationwide, especially NC, VA, TX, SC, KY, MS --1,878
 444. 1942 -- **Dysentery**. Census Bureau. *Vital Statistics...US 1942 -- Part II...Mortality* --1,877
 445. 1855 -- May-Aug, **Cholera**, IL//KS/KY/MO/OH/WI, esp. New Orleans/883 --1,797-1,869
 446. 1946 -- Especially July-Nov, **Polio**, nationwide, esp. IL, MN and TX --1,845
 447. 1986 -- **Influenza**, US death rate 0.76 per 100K, esp. VT/3.9 ME/3.59 MN/3.2 ND/2.84 --1,838
 448. 2005 -- Aug 25-31, **Hurricane Katrina**, FL, LA, esp. NOLA & MS⁴⁰ --≥1,833-1,836
 449. 1868 -- June-Dec, **Smallpox**, esp. San Francisco/960, Cincinnati/649, Chicago/150--≥1,825
 450. 1937 -- **Scarlet Fever**, international list #8, Census Bureau. *Vital Statistics 1938, Pt. I*--1,824
 451. 2005 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.613 per 100K; esp. SD (4.513) --1,812
 452. 1990 -- **Tuberculosis**, US death rate 0.73 per 100K, esp. DC/1.97; NY/1.63; MS/1.48 --1,810
 453. 1982 -- **Tuberculosis**, US death rate 0.78 per 100K, esp. DC/2.83, AL/1.63, TN/1.4--1,807
 454. 1800 -- **Yellow Fever**, esp. Baltimore, Charleston SC, Norfolk, Philly, Providence RI --1,806

³⁸ We are assuming that if thousands died, then at least 2,000 must have died.

³⁹ 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.

⁴⁰ There were 2 deaths in AL and 2 in GA. The numbers reflect those generally reported. We note “≥” (at least) in that there still are over 100 missing and presumed dead, as well as unreported health-related indirect deaths.

455.	2003	--	Influenza , ICD-10 codes J09-11; US death rate 0.618 per 100K; esp. ND (2.661)	--1,792
456.	1986	--	Tuberculosis , US death rate 0.74 per 100K, esp. DC/1.72, DE/1.43, NY/1.34-1,782	
457.	1983	--	Tuberculosis , US death rate 0.76 per 100K, esp. DC/3.63, AL/1.6, LA/1.2	--1,779
458.	2008	--	Influenza , ICD-10 codes J09-11; US death rate 0.57 per 100K; esp. SD (2.13)	--1,772
459.	1870	--	Typhus , nationwide, especially IL, IN, NY, and PA	--1,770
460.	2000	--	Influenza , ICD-10 codes J09-11.8; US death rate 0.63 per 100K; esp. SD (3.05)	--1,765
461.	1939	--	Malaria , esp. May-Nov, especially AL, AR, FL, GA, LA, MS, SC, TX	--1,761
462.	1987	--	Tuberculosis , US death rate 0.72 per 100K, esp. DC/2.82, AL/1.54, NY/1.5	--1,755
463.	1894	--	Smallpox , esp. Chicago/1033, WI/325, esp. Milwaukee/244; NY/147	--1,752
464.	1945	--	Whooping Cough , communicable disease No. 9 International List	--1,752
465.	1985	--	Tuberculosis , US death rate 0.74 per 100K, esp. DC/3.46, GA/1.34, AL/1.23	--1,752
466.	1984	--	Tuberculosis , US death rate 0.73 per 100K, esp. DC/3.62, AL/1.57, NY/1.21	--1,729
467.	1945	--	cerebrospinal (meningococcus) meningitis (code 6 communicable disease)	--1,728
468.	1998	--	Influenza , ICD-9 code 487.0; US death rate 0.62 per 100K; esp. MT (6.72)	--1,724
469.	1911	--	Typhoid Fever , PA	--1,716
470.	1991	--	Tuberculosis , US death rate 0.68 per 100K, esp. DC/2.32. NY/1.62; AR/1.17	--1,713
471.	1992	--	Tuberculosis , US death rate 0.66 per 100K, esp. NY, 1.38; MS, 1.33	--1,705
472.	1553	--	Hurricane , lower coast of TX	--1,700

Large Loss-of-Life Events by Mortality (continued):

473.	1964	--	influenza , ⁴¹ US death rate 0.9 per 100K, esp. MT/4.0 WA/3.8 NE/3.6 ND/3.1	--1,687
474.	1862	--	Yellow Fever , esp. Wilmington NC/>653; TX coast/≥328; Key West--1,131-1,679	
475.	1932	--	Epidemic Cerebrospinal Meningitis , int. list #18, Census. <i>Mortality Statistics</i>	--1,677
476.	1999	--	Influenza , ICD-10 codes J09-11.8; US death rate 0.597 per 100K; esp. SD/4.913	--1,665
477.	1993	--	Tuberculosis (US death rate 0.63 per 100K), esp. DC/2.51 and NY/1.16	--1,631
478.	1995	--	June-Aug, esp. July 12-17, Heat , esp. IL/>700 WI/154 PA/146 MO/58	1,563-1,601
479.	1921	--	Polio (acute), esp. late Summer-Fall, esp. children, esp. NY, IL, WA, MI	--1,597
480.	1989	--	Influenza , US death rate 0.64 per 100K; esp. IA/2.38, MT/2.1, ND/2.17, OR/2.0	--1,593
481.	1925	--	Excessive Heat , esp. NY (439), PA (299), NJ (112), CA (69), MA (65)	--1,587
482.	2009	--	Influenza (avian) , ICD-10 code J09 (US death rate 0.5 per 100K) esp. MT (1.3)	--1,557
483.	1951	--	Polio , especially July-Nov, especially CA, IL, TX	--1,551-1,555
484.	1847	--	Typhoid and Typhus , New York City (1,396), Typhus, New Orleans (154)	--1,550
485.	2011	--	Influenza , ICD-10 codes J09-11 (US death rate 0.5), esp. SD (2.3 per 100K)	--1,532
486.	1848	--	Typhus and Typhoid , New Orleans, LA/372, NYC/953, South Philly/205	--1,530
487.	1925	--	Polio , esp. late Sum.-Fall, esp. children, esp. NY/208, CA/149, MN/140	--1,519
488.	1971	--	Influenza , ICD-8 codes 470-474/death rate 0.73 per 100K, esp. ME/2.9, NE & WA/1.9-1,504	
489.	1937	--	Measles , international list #7, Census Bureau. <i>Vital Statistics 1938</i> , Part I	--1,501
490.	1689-1690	--	Smallpox epidemics , New England and NY, settlers and natives-≥820-1,500	
491.	1983	--	HIV AIDS , New York City (425), U.S.	--1,500
492.	1877	--	Smallpox , 7 data pts., esp. New Orleans/1.1K; Philadelphia/155; Cincinnati/56	--1,496
493.	1914	--	Diphtheria and Croup , the Year, NYC, NY	--1,489
494.	1933	--	Epidemic Cerebrospinal Meningitis , int. list #18, <i>Mortality Statistics 1933</i>	--1,482

⁴¹ Distinct from the 51,764 pneumonia deaths noted in the next column in Table 1-14.

495. 1843 -- July-Nov, **Yellow Fever**, esp. Mobile AL (240-750), New Orleans (487-700)--758-1,481
496. 1994 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.56 per 100K, esp. DC, 1.86 --1,478
497. 1967 -- **Influenza** --1,475
498. 1937 -- **Polio** (Acute), especially late Summer and Fall, especially children --1,461
499. 1940 -- **Diphtheria**, Census Bureau. *Vital Statistics Part II, 1940, Mortality*, p. 210 --1,457
500. 1953 -- **Polio** (acute), especially CA, IL, MI, and NY --1,450
501. 1940 -- **typhoid fever**, Census Bureau. *Vital Statistics, Part II, 1940, Mortality*, p.210--1,443
502. 1940 -- **Malaria**, especially AL, AR, GA, MS, SC and TX --1,442
503. 1949 -- **Dysentery**, infectious, all forms (codes 045-048) --1,440
504. 1983 -- **Influenza**, US death rate 0.61 per 100K, esp. ME/3.9, MT/3.2, MN/2.7 --1,431
505. 1803 -- July 18-Oct, **Yellow Fever**, Charleston SC, New York, VA, Philadelphia --1,403
506. 1952 -- **Heat**, excessive natural, Sixth Revision of International Lists, 1948, code E931 --1,401
507. 1864 -- July-June 1865, **Diarrhea and Dysentery**, Confederate POWs. Elmira, NY --1,394
508. 1954 -- **Polio**, acute; esp. TX/138 & CA/119; 33 other states double digit deaths --1,389
509. 1928 -- **Polio** acute, especially late Summer and Fall, especially children --1,381
510. 1944 -- **Polio**, especially July-Nov (1,070 deaths), esp. NY, OH and PA --1,381
511. 1930 -- **Polio**, especially late summer through fall --1,370
512. 1933 -- **Epidemic Encephalitis**, international list code #17, Census Bureau 1933 --1,357
513. 1799 -- **Yellow Fever**, Charleston, SC, NYC, Philadelphia, USS *General Greene* --1,356
514. 1851 -- **Typhus/Typhoid**, NYC/1,103, New Orleans/Typhus/228, Chicago/Typhoid/10 --1,341
515. 1995 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.5 per 100K, esp. DC, 1.89 --1,336
516. 1820 -- May-Dec, **Yellow Fever**, Savannah GA/New Orleans/NYC/Philadelphia --1,335
517. 1913 -- **Diphtheria and Croup**, the Year, NYC, NY --1,333
518. 1972 -- **Excessive heat**; heat as contributing factor, esp. July 12-25 NYC/891, MD/269 --1,324
519. 1912 -- **Typhoid Fever**, Pennsylvania --1,310
520. 1946 -- **Measles**, International List infectious and parasitic diseases code 35 --1,310
521. 1863 -- **Diphtheria**, Vermont -->1,300
522. 1977 -- **Influenza**, ICD-8 codes 470-474, US death rate 0.59 per 100K, esp. AL/1.98 --1,304
523. 1942 -- **Measles**. Census Bureau. *Vital Statistics of US 1942 -- Part II...Mortality* --1,302
524. 1943 -- **Measles**, especially children --1,301

Large Loss-of-Life Events by Mortality (continued):

525. 1862 -- Feb-Jun '65 (41 mo.), **pneumonia/pleurisy**, Confederate POWs, Camp Douglas IL- 1,296
526. 1876 -- **Yellow Fever**, Savannah (also Brunswick), GA; also New Orleans & Baltimore --1,293
527. 1941 -- **Diphtheria**, Census Bureau. *Vital Statistics, Part I, Mortality*, p. 150 --1,293
528. 1880 -- **Smallpox**, esp. TX/517, Philadelphia/429, Camden NJ/47 Chicago/43, NY --1,281
529. 1911 -- **Diphtheria**, especially NYC, Chicago, Philadelphia, MA --1,281
530. 1915 -- **Diphtheria and Croup**, The Year, NYC, NY --1,278
531. 1942 -- **Diphtheria** --1,273
532. 1934 -- **Epidemic Cerebrospinal Meningitis**, int. list #18, *Mortality Statistics* --1,272
533. 1860 -- **Smallpox epidemics**, especially MA and NY 1,263-1,271
534. 1936 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1936* --1,267
535. 1900 -- July-Aug (esp.) **Heat**, esp. NY/361, NJ/119, Chicago/102, St. Louis/90, PA/90-1,266
536. 1946 -- **Diphtheria**, infectious diseases International List No. 10 --1,259
537. 1946 -- **Cerebrospinal (meningococcus) meningitis** infections (Int. List No. 6) --1,257

538. 1946 -- **Whooping Cough**, International List No. 9 --1,241
539. 1817 -- June-Dec, **Yellow Fever**, esp. Charleston SC, Natchez MS, New Orleans-1208-1,233
540. 1994 -- **Influenza**, US death rate 0.47 per 100K; esp. SD/2.6; MT/1.7; IA/ 1.5; NE/1.22--1,229
541. 1913 -- **Heat**, esp. June 25-July 1, esp. PA/237, OH/178, MO/114, IL/92, NY/80 --1,226
542. 1938 -- **Scarlet Fever**, international list #8, Census Bureau. *Vital Statistics 1939*, Pt. I --1,206
543. 1996 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.45 per 100K, esp. DC, 1.92 --1,202
544. 1943 -- **Diphtheria**, infectious diseases International List No. 10 --1,196
545. 1945 -- Jan-Dec, **Polio**, especially July-Nov (Sept. peak) --1,186
546. 2020 -- excessive **heat**, natural sources; esp. AZ/522, CA/137, Clark Co., NV/124 --1,184
547. 1917 -- **Polio**, Census area (27 States/DC/43 cities), esp. Chicago/177 OH/128 VA/69, VT \geq 1,182
548. 2021 -- exposure to excessive **natural cold**/ICD-10 code X31, esp. AK/NM/IA/CO --1,179
549. 1941 -- **Malaria**. Census Bureau. *Vital Statistics, Part I, Mortality*, p. 150 --1,178
550. 1939 -- **Measles**, international list #35, Census Bureau. *Vital Statistics 1939*, Pt. I --1,174
551. 1997 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.43 per 100K, esp. HI, 0.99 --1,166
552. 1848 -- Dec, **Cholera**, New Orleans, also MS Riv., Paducah KY, NYC, Port Lavaca TX--1,159
553. 1943 -- **Polio**, especially late Summer and Fall, especially children --1,151
554. 1829 -- **Yellow Fever**, esp. FL, Mobile AL/130; Natchez MS/90; New Orleans LA/900-1,146
555. 1948 -- **Whooping Cough** --1,146
556. 1991 -- **Influenza**, US death rate 0.45 per 100K; esp. NE/2.38, ND/1.73, IA/1.54 --1,137
557. 1905 -- May 21-Nov, **Yellow Fever**, esp. LA (esp. New Orleans/455), Pensacola, MS-1,131
558. 1919 -- Sep 10-14, **Hurricane**, Florida Keys, Gulf & Corpus Christi area, TX 500-1,131
559. 1912 -- **Diphtheria**, NYC, NY --1,125
560. 1950 -- **Whooping Cough**, code 056 of 6th rev. of international lists, 1948 (US PHS)--1,118
561. 2019 -- Exposure to excessive natural **cold/hypothermia**, esp. MI/70 NY/65 PA/61 --1,115
562. 1998 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.40 per 100K, esp. LA, 0.72 --1,112
563. 2012 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.4; SD, 2.5 per 100K --1,106
564. 2006 -- **excessive natural heat**, esp. CA/194, AZ/169, NY/148, TX/106, IL/51, PA/50--1,104
565. 1675 -- Dec 19, English Colonists **Massacre** Narragansetts, Great Swamp, RI --365-1,100
566. 2004 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.376 per 100K; esp. ME (1.827) --1,100

Large Loss-of-Life Events by Mortality (continued):

567. 1984 -- **Influenza**, US death rate 0.46 per 100K, esp. MT, 2.3, OR/1.7, WA/1.4, AR/1.3 --1,096
568. 1925 -- **Meningococcus meningitis**, esp. NY/148, PA/79, IL/56, OH/53, MA/51 --1,095
569. 1872 -- **Cerebral Spinal Meningitis**, MA (esp. Boston), NYC, PA (esp. Philly) --1,090
570. 1901 -- **Smallpox**, esp. NY/436 (Bronx/312), PA/202 (Philly/178), NJ/139 (Newark/71)--1,085
571. 1912 -- **Polio**, acute anterior, code 63; Census “registration area” was 63.2% of pop.--1,081
572. 1772 -- **Measles** epidemics, Charleston, SC (800-900), Philadelphia, PA (180) --980-1,080
573. 1924 -- **Polio** (acute), especially late summer and fall, especially children --1,079
574. 1948 -- **Dysentery**, infectious and parasitic diseases ICD code 27 --1,078
575. 1939 -- June-Sep, **Heat**, esp. Sep 15-23, Los Angeles (546), TX (42), MO (37)⁴²-527-1,073
576. 2011 -- excessive **natural heat**, esp. TX/183, AZ/177, PA/57, MO/52 IL/50 NY/45 --1,060
577. 1911 -- **Polio**, US registration area (63.1%), esp. OH/137, NY/101, PA/93, IN/69, KY/61--1,060

⁴² 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.”

578. 1852 -- **Smallpox**, Nevada City, CA natives, NYC (407-516), Philadelphia/427--943-1,052
579. 1999 -- **excessive natural heat**, esp. IL/153, PA/97, MO/92, TX/63, AZ/58, NY/56 --1,050
580. 1993 -- **Influenza**, US death rate 0.40 per 100K; esp. ID 2.62; VE 2.42; MT 1.54; OR 1.37 --1,044
581. 1955 -- **Polio** (acute); all States, esp. MA/168 (Boston ~200), WI/166, NY/77, TX/76--1,043
582. 1935 -- **Polio** (acute), especially late Summer-and Fall, especially children --1,040
583. 1870 -- May-Dec, **Yellow Fever**, esp. New Orleans/587 Mobile/173 Brunswick GA--1,038
584. 1904 -- June 15, Fire, **General Slocum** excursion steamer, East River, NYC, NY-957-1,031
585. 2018 -- exposure to excessive natural **cold/hypothermia**, esp. MN/36 CO/34 IN/35 --1,028
586. 1899 -- **Typhoid fever** epidemics/outbreaks, Greensboro, NC; PA, esp. Philadelphia-1,026
587. 1940 -- **Polio**, Nationwide, especially IL, IN, IA, KS, MI, OH and WV --1,026
588. 1933 -- **excessive heat**, international list #191. Census Bur. *Mortality Statistics 1933* --1,025
589. 1938 -- **epidemic cerebrospinal meningitis**, international list #18, *Vital Statistics*, Pt. I--1,024
590. 1941 -- **Typhoid Fever**, Census Bureau. *Vital Statistics, Part I, Mortality*, p. 150 --1,022
591. 2018 -- **excessive natural heat**, esp. AZ/252, Clark Co., NV/163, CA/106, TX/89 --1,012
592. 1992 -- **Influenza**, US death rate 0.39 per 100K; esp. ME/1.94; MT/1.21; WV/1.27 --1,006
593. 1633-34 -- **Smallpox epidemic**, New England Natives, Plymouth Colonists, MA >1,000
594. 1663 -- **Smallpox**, Fort Orange, NY and Northern "NY" Native American Tribes --1,000
595. 1677-78 -- **Smallpox epidemic**, Massachusetts Bay Colony --1,000
596. 1818 -- Sep 12-14, **Hurricane**, Galveston, TX <1,000
597. 1833 -- early Aug-early Nov, **Yellow Fever epidemic**, New Orleans, LA --1,000
598. 1861-62 -- winter-spring, **Flooding**, CA, OR, WA, British Columbia ~1,000
599. 1918 -- Oct 12-15, **Forest Fire**, Cloquet-Moose Lake, MN/WI 400-1,000
600. 1927 -- Apr-May, rain, MS River **Flood**/levee breaks, MS, AR, LA, KY, MO --246-1,000

Large Loss-Of-Life Events By Mortality (continued):

601. 1721-22, Apr-Apr, **Smallpox**, Massachusetts Colony, esp. Boston & Charlestown--944-991
602. 1731 -- **Smallpox epidemics**, New York City (548-700) and Philadelphia (288) --836-988
603. 1796 -- **Yellow Fever**, esp. Charleston, SC/300, New Orleans/250-400; Wilmington, NC/150--836-986
604. 1954 -- **Heat** (esp. July), esp. MO/235, OK/178, KS/139, TX/95, IL/50, GA/39 --978-984
605. 1961 -- **Hepatitis**, infectious -- 976
606. 1931 -- **Epidemic Encephalitis**, int. list infectious diseases code 17, Census Bur. *1931* -- 972
607. 1848 -- **Yellow Fever**, Mobile AL~76, New Orleans/850-872, NY Marine Hosp./12 --937-960
608. 1951 -- **whooping cough**/pertussis, esp. TX/110, GA/86, MS/72 NC/52 VA/48 AL/45--960
609. 1864 -- Feb-Jun 1865 (17 mo.), **pneumonia/pleurisy**, Confederate POWs, Camp Chase OH--954
610. 1946 -- **Dysentery**, infectious and parasitic diseases International List code 27 -- 952
611. 1949 -- **Measles** (code 085); PHS, *Vital Statistics...[US] 1949, Part II...Mortality* -- 949
612. 1955 -- Aug 31--Sep 9, **Heatwave**/excessive **deaths**, greater Los Angeles, CA⁴³ --115-946
613. 1887 -- **Yellow Fever**, esp. Fernandina and Tampa, FL and New Orleans, LA -- 941
614. 1760 -- **Smallpox epidemic**, Charleston SC (also undocumented Native deaths) --730-940
615. 1952 -- **Dysentery**, infectious, all forms (codes 045-048), esp. TX/249 MS/71 KY/61 GA/46--939
616. 2005 -- **excessive natural heat**, esp. AZ/244, NYC/~140, TX/111 CA/64, MD/47, NV/43--939

⁴³ The figure 115 refers to reporting by LA Coroner's Office of deaths directly attributable to the heat. The larger number is undoubtedly a compilation of the daily "above-the-norm" deaths (compared to the previous year) reported by the Coroner. At the beginning of the heatwave it was dozens higher than the previous year. At the end it was hundreds. Some source (which the four sources we cite copy) has apparently compiled those figures to obtain 946.

617. 1960 -- **Hepatitis**, infectious -- 938
618. 1876 -- **Smallpox epidemic**, Cincinnati, OH -- 934
619. 1999 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.333 per 100K, esp. NM, 0.608 -- 930
620. 2014 -- Exposure to excessive natural **cold/hypothermia** esp. PA IL NY OH MT NM-- 930
621. 1988 -- **Heat**, Summer (esp.); esp. IL/341, MI/121, IN/~44, MO/~44, CA/37 --913-921
622. 2020 -- Exposure to excessive **natural cold**; ICD-10⁴⁴ code X31, esp. AK/NM/CO/MN--919
623. 1947 -- **cerebrospinal (meningococcus) meningitis infections** (Int. List No. 6) -- 917
624. 1949 -- **Meningococcal infections** (code 057) ; *Vital Statistics...[US] 1949, Part II* -- 917
625. 1849 -- Aug-Dec, **Yellow Fever**, Charleston SC, Mobile AL, New Orleans -- 912
626. 2019 -- Exposure to **excessive natural heat**, esp. AZ/283, TX/101, NV/88 --911-915
627. 1851 -- **Smallpox**, esp., NYC/562-586, Philadelphia/316; Augusta GA/7, Chicago/5 --895-909
628. 1875 -- **Croup and Diphtheria**, MI (374) and Hudson County, NJ (533) -- 907
629. 1756 -- **Smallpox epidemic**, Philadelphia --800-900

Large-Loss-of-Life Events by Mortality (continued):

630. 1916 -- June 18-Aug 22, **Heat Waves**, esp. Chicago, Detroit, Milwaukee, St. Louis -- ~895
631. 1948 -- **Measles**, 1948 ICD infectious and parasitic diseases code 35 -- 888
632. 1953 -- **Dysentery**, infectious, all forms (codes 045-048), esp. TX/268, MS/52, GA/41-- 886
633. 2012 -- **excessive heat**, esp. AZ/209, CA/66, TX/62, IL/54, MO/54, MD/46, VA/24 -- 879
634. 1966 -- **Meningococcal infections**, esp. CA/109, TX/59, OH/50, NY/40, NC/38 -- 876
635. 1932 -- **Epidemic Encephalitis**, int. list infectious diseases code 17, Census Bur. 1932 -- 874
636. 2010 -- **excessive natural heat**, esp. AZ/228, TX/64, CA/46, NV/46, TN/45, PA/37 -- 874
637. 1948 -- **Cerebrospinal (meningococcus) meningitis infections** (code 6, ICD 1, 1948)--873
638. 1947 -- **Dysentery**, infectious and parasitic diseases Int. List code 27 -- 869
639. 1913 -- **Polio**, acute, esp. June-Sep (Sep peak), US “registration area” (65.1% pop.) -- 864
640. 1939 -- **cerebrospinal meningitis**, int. list #6, Census Bureau. *Vital Statistics 1939*, Pt. I--863
641. 1850 -- Jan-Oct, **Yellow Fever**, esp. Jefferson/Orleans Parishes/New Orleans, LA & SC⁴⁵-- 862
642. 1942 -- **Malaria**. Census Bureau. *Vital Statistics...1942 -- Part II...Mortality* -- 861
643. 1939 -- **Scarlet Fever**, international list #8, Census Bureau. *Vital Statistics 1939*, Pt. I--853
644. 1934 -- **Polio** (acute), especially late Summer and Fall, especially children -- 852
645. 1926 -- **Polio** (acute), especially late Summer and Fall, especially children -- 851
646. 1809 -- **Yellow Fever**, esp. Brooklyn/NYC (42); New Orleans (civilian/military; ~800) -- 850
647. 1923 -- **Polio** (acute), especially late Summer and Fall, especially children -- 850
648. 2006 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.285 per 100K; esp. VE (1.605) -- 849
649. 1796 -- **Scarlet Fever** epidemic (especially children), Marblehead, MA and esp. VT--681-846
650. 1915 -- July 24, crowded SS steamer **Eastland rolls-over** at dock, Chicago, IL --812-844
651. 1967 -- **Infectious Hepatitis** -- 844
652. 1947 -- **Encephalitis**, acute infectious, Int. List infectious diseases code 37 -- 830
653. 1932 -- **Polio** (acute), especially late summer and fall, especially children -- 828
654. 1937 -- **Excessive Heat**, international list #191. Census Bureau. *Vital Statistics, Part I*--826
655. 1837 -- **Scarlet Fever**, Boston, MA, New York City, NY, Philadelphia, PA -- 823
656. 2017 -- exposure to **excessive natural heat**, esp. AZ/264, NV/235, CA/93, TX/40 -- ≥817

⁴⁴ Tenth revision of International Classification of Diseases.

⁴⁵ Seventh Census data supplemented by addition of at least 97 yellow fever deaths in New Orleans Aug-Sep.

657. 2015 -- Exposure to excessive natural **cold/hypothermia**, esp. PA NY OH AK NM -- 815
 658. 1929 -- **Polio** (acute), especially late summer and fall, especially children -- 812
 659. 1805 -- **Yellow Fever**, esp. NYC/270-340, Philly/300-400, Providence, RI/10, SC/≤59--750-809
 660. 1941 -- **Polio**, especially late summer and fall, especially children -- 807
 661. 2017 -- Exposure to excessive natural **cold/hypothermia**, esp. AK WA MN CA MI -- 804
 662. 1599 -- Jan 21, Spanish (Oñate) **Massacre** Acoma Natives, punitive expedition, NM-300-800
 663. 1795 -- July 19–Oct 12, **Yellow Fever** epidemic, NY City, also Providence RI ~745-800
 664. 1833 -- **Malaria** Epidemic, ConCow Maidu Villages, Butte County, CA vicinity -- ~800
 665. 1926 -- Sep 16–21, **Great Miami Hurricane**, Cat 4, FL, MS, AL⁴⁶ -- ~800

Large-Loss-of-Life Events by Mortality (continued):

666. 1947 -- **Diphtheria**, infectious diseases Int. List No. 10 -- 799
 667. 1933 -- **Polio** (acute), especially late Summer and Fall, especially children -- 797
 668. 1925 -- Mar 18, **Tornadoes**, esp. Tri-State Tornado (IL/IN/MO) 695; AL/KY/TN --740-792
 669. 1922 -- **Polio** (acute), especially late Summer and Fall, especially children -- 790
 670. 1944 -- Dec 18, **three ships capsize, Navy Task Force 38**, , typhoon off Philippines-- ~790
 671. 1940 -- **excessive heat**, international code 191. Census Bureau. Vital Statistics 1940-- 787
 672. 1879 -- June-Dec, **Yellow Fever**, Forest City, AR, Louisiana, MS, Memphis, TN--682-786
 673. 2016 -- exposure to **excessive natural heat**, esp. AZ (219), NV (89), CA (70), TX/86-- 786
 674. 1864 -- **Cerebrospinal Meningitis** epidemic, Carbondale & Philadelphia PA -- 784
 675. 2002 -- **Tuberculosis**, ICD-10 code A16-19, death rate .273 per 100K, esp. AR, .443-- 784
 676. 1936 -- **Polio** (acute), especially late Summer and Fall, especially children -- 780
 677. 1862 -- Aug 17-23 especially, **Dakota “insurrection,”** southcentral MN; also IA --750-779
 678. 2000 -- **Tuberculosis**, ICD-10 code A16-19; death rate 0.276 per 100K, esp. LA, 0.559 -- 776
 679. 1864 -- July-June 1865 (12 mo.), **pneumonia/pleurisy**, Confederate POWs, Elmira NY-773
 680. 1939 -- **Polio**, especially late Summer through Fall, especially children -- 773
 681. 1920 -- **Polio** (33 “registration states), especially young children -- 769
 682. 2001 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.268 per 100K, esp. DC, 1.741 -- 764
 683. 1861 -- **Smallpox epidemic**, Philadelphia, PA -- 758
 684. 1854 -- **smallpox**, esp. Charleston SC/59, Chicago/12, Jacksonville FL/~15, NYC/624, Philly/40-- 750

 685. 1919 -- **Polio** (acute). Especially late Summer and Fall, especially children -- 747
 686. 1824 -- **Smallpox epidemics**, NYC, NY, Philadelphia, PA, Sandusky, OH --740-745
 687. 1852 -- **Yellow Fever epidemics**, Charleston SC, New Orleans, Savannah GA -- 745
 688. 1996 -- **Influenza**, ICD-9 code 487; US death rate 0.276 per 100K; esp. SD (1.616) -- 745
 689. 2000 -- exposure to excessive natural **cold/hypothermia**; ICD-10 code X31, esp. PA/48-742
 690. 1911 -- **Scarlet Fever**, NYC, NY -- 741
 691. 1911 -- Oct-June 8, 1912, **Cerebrospinal Meningitis** Epidemic, esp. TX , OK, MO -- 740
 692. 2016 -- Exposure to excessive natural **cold/hypothermia**, esp. AK CA MI MT OH SD-- 731
 693. 1935 -- **Excessive Heat**, int. list #191. Census Bureau. *Mortality Statistics 1935* -- 728
 694. 1949 -- **Whooping Cough**, Public Health Service. *Vital Statistics...[US] 1949, Part II--727*
 695. 1982 -- **Influenza**, US death rate 0.31 per 100K, esp. NE/1.78, SD/1.74, ND/1.34 -- 727
 696. 2002 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.253 per 100K; esp. SD (2.237)-- 727
 697. 2013 -- Exposure to excessive natural **cold/hypothermia**, esp. IL NY PA MN AZ WI--725

⁴⁶ Includes missing, presumed dead – see Narrative Information and footnotes below.

698. 1914 -- **Polio** (acute anterior), esp. late sum.-fall, esp. children, esp. NY/88, PA/65, VT/54--720
 699. 1997 -- **Influenza**, ICD-9 code 487.0; US death rate 0.26 per 100K; esp. KS (0.99) -- 720
 700. 1941 -- **Cerebrospinal Meningitis** -- 713
 701. 1864 -- **Smallpox**, Fort Alton IL, Chicago/283, Philly/260, Northern VA/112, SC, DC-- 712
 702. 1938 -- Sep 21, Long Island, NY & New England **Hurricane**, esp. RI, MA, CT --682-712
 703. 2003 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.25 per 100K, esp. LA, 0.49 -- 711
 704. 2007 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 X31 code; esp. NY/53-711
 705. 2010 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31 -- 710
 706. 1925 -- **Smallpox**, esp. MN/196, WI/134, CA/59, NJ/48, OH/47, IA/42, PA/29, IL/23-- 709
 707. 1940 -- **Measles**, international code number 35. Census Bureau. *Vital Statistics 1940*-- 706
 708. 1637 -- May 27, **Massacre**, Eng. Colonists Attack Pequot village, Mystic Riv. CT--400-700
 709. 1644 -- Feb, Dutch / Eng. **Massacre**, Siwanoy, Petuquapaen, ~Cos Cob, CT⁴⁷ --500-700
 710. 1881 -- Aug 27, **Hurricane**, Cat 2, Savannah (Georgia-South Carolina) -- 700
 711. 2005 -- exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. MI/40-- 700

Large-Loss-of-Life Events by Mortality -- ≥ 500 (continued):

712. 1862 -- Feb-June 1865, **Diarrhea & Dysentery**, Confederate POWs, Camp Douglas, IL- 698
 713. 1940 -- **cerebrospinal meningitis**, Census Bureau. *Vital Statistics II, 1940, Mortality*, 210--694
 714. 1881 -- **Typhoid Fever**, Birmingham AL, Washington DC, Minneapolis, NYC -- 692
 715. 1848 -- **Smallpox**, esp. New York City, NY/585 and Philadelphia, PA/100 -- 691
 716. 1915 -- **Polio**, esp. late summer-fall, US registration area (67-1% pop.) esp. children-- 691
 717. 1932 -- **Excessive Heat**, international list #191. Census Bur. *Mortality Statistics 1932*--689
 718. 1951 -- **Measles**, esp. TX/102, KY/43, OH/39, CA/37, IL/31, MO/30, PA/26, OK/25-- 688
 719. 1881 -- July 6-16 esp., **heat**/sunstroke, esp. OH/585 (Cincinnati/456), also Pittsburgh -- ≥ 687
 720. 1996 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901; esp. PA/43--685
 721. 2004 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. PA/45--676
 722. 2011 -- Exposure to excessive natural **cold/hypothermia**; 0.2 death rate; esp. AK, SD-- 672
 723. 1912 -- **Measles**, New York City, NY -- 671
 724. 1913 -- March 23-27, Ohio Valley **Flooding**, dam/levee failures, esp. OH, IN --593-670
 725. 1940 -- **Scarlet Fever**, Census Bureau. *Vital Statistics, Part II, 1940, Mortality*, p.210-- 668
 726. 1917 -- summer to fall (esp.), **Excessive Heat**, New York City (530), State of NY -- 665
 727. 1911 -- **Measles**, New York City, NY -- 659
 728. 2004 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.22 per 100K, esp. KY, 0.36 -- 657
 729. 1809 -- May-Feb 1810 -- **Disease/Illness**, U.S. Army, MS -- 656
 730. 1954 -- **Dysentery**, infectious, all forms (codes 045-048), esp. TX/172 and MS/61 -- 655
 731. 1941 -- **Excessive heat**, International List #191, Census Bureau. *Vital Statistics* -- 654
 732. 1978 -- Exposure to excessive natural **cold/hypothermia** (ICD-8 E901), esp. OH/39 -- 652
 733. 2006 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.22 per 100K, esp. AR/.35, LA/.33-- 652
 734. 2013 -- **Excessive natural heat**, esp. AZ/151, NV/80, CA/67, TX/53, NY/42, IL/23 -- 651
 735. 1862 -- Aug 17-Sep, **Violence, Sioux "Insurrection,"** Litchfield, elsewhere, MN--300-650
 736. 2005 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.22 per 100K, esp. LA, 0.39 -- 648
 737. 1943 -- **Malaria**, Bureau of Census. *Vital Statistics...1943, Part II...Mortality*. P. 192-- 646
 738. 2002 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. PA/47-- 646

⁴⁷ Some place massacre in Westchester Co., NY (Dinan. "Historians Sift Clues..." *Greenwich Time*, 3-5-2006.)

739. 1863 -- Aug-Jun 1865, **Diarrhea & Dysentery**, Confederate POWs, Fort Delaware, DE-644
740. 1946 -- **Encephalitis**, acute infectious, International List infectious diseases code 37-- 642
741. 1993 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901 code, esp. MI/42-- 641
742. 2008 -- exposure to excessive natural **cold/hypothermia**; ICD-10 code X31, esp. MI/45-- 641
743. 1967 -- **Meningococcal infections** -- 635
744. 1948 -- **Diphtheria**, infectious diseases code 10 -- 634
745. 1977 -- **cold/hypothermia**, exposure to excessive natural (ICD-8 E901); esp. OH/43-- 634
746. 1994 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901, esp. NY/38--633
747. 1987 -- **Influenza**, death rate 0.26 per 100K; esp. NE/1.02 (16), SD/1.29 (9), VE/1.11 (6) -- 632
748. 1915 -- **Measles**, New York City, NY -- 630
749. 2002 -- **excessive natural heat**, esp. AZ/130, TX/62, PA/56, IL/54, MD/50, CA/44 -- 626
750. 1794 -- **Yellow Fever** epidemics, Baltimore, MD, and New Haven, CT -- 624
751. 1952 -- **Measles**, 24 states double digits, esp. PA/49, NY/48, AL&TN/40 IN&KY/30 IL/25-- 621
752. 2003 -- Exposure to excessive natural **cold/hypothermia**; ICD code X31, esp. PA/46-- 620
753. 1982 -- **HIV AIDS**, U.S. -- 618
754. 1897 -- July 1-11, **heat**, esp. upper midwest/NE, esp. Chicago/Cincinnati/St. Louis --608-616
755. 2009 -- Exposure to excessive natural **cold/hypothermia** (ICD-10 code X31) -- 616
756. 1912 -- **Scarlet Fever**, New York City, NY -- 615
757. 1955 -- excessive natural **heat** (US Public Health Service code E931) -- 615
758. 2021 -- **Influenza** (distinct from 41,309 pneumonia deaths); death rate 0.18, esp. TN/0.60--608
759. 1995 -- **Influenza**, ICD-9 code 487.0; US death rate 0.23 per 100K; esp. WV, 1.32 -- 606
760. 1979 -- **Influenza**, US death rate 0.27 per 100K, esp. ID/1.18, NE/1.15, KS/.98, WA/.85--604
761. 1903 -- Dec 30, **fire, suffocation, trampling**, Iroquois Theater, Chicago, IL -- 602
762. 2021 -- **tuberculosis**, ICD-10 codes A16-A19, esp. CA/106, TX/58, FL/36, NY/36 VA/22--602
763. 1835 -- Apr-Aug, **Cholera**, esp. Madison, IN; KY, esp. Russellville; New Orleans, TN--590-601
764. 1559 -- Sep 19-20, **hurricane**, Spanish ships and colonists, west coast of FL --?-600
765. 1759 -- **Smallpox** epidemic, Philadelphia --500-600
766. 1853 -- Burnt Ranch **massacre**, Settlers kill Tolowa, Yontocket, Smith Riv., No. CA --450-600
767. 1873 -- Aug 14-27, "Nova Scotia" **Hurricane**, off East Coast -- >600
768. 1928 -- Mar 12, **St. Francis dam failure**, Ventura County, CA --400-600
769. 1947 -- Apr 16-17, **Grandcamp ammonium nitrate explosion**, Texas City, TX --581-600
770. 2020 -- **Tuberculosis**, ICD-10 codes A16-A19; esp. CA/119, TX/66, NY/36, FL/30-- 600

Large-Loss-of-Life Events by Mortality -- ≥ 500 (continued):

771. 1853 -- **Cholera**, New Orleans (554-585); Choctaw on Arkansas River, OK/14 --568-599
772. 2001 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. MI/29-- 599
773. 1999 -- exposure to excessive natural **cold/hypothermia**; esp. NY/36, PA/36 -- 598
774. 1983 -- July-Aug esp., **heat** (esp. July 15-30) esp. MO/70 KY/57 IL/53 GA/35 TX/35-595-597
775. 1990 -- Exposure to excessive **natural cold/hypothermia**; ICD9 code E901; esp. IL/45--596
776. 1863 -- Nov 23-Mar 27 1865 (16 mo.), **Dysentery**,⁴⁸ Union POWs, Prison Hosp., Danville VA-592
777. 1844 -- **Yellow Fever** epidemic, Galveston, TX; Mobile, AL; New Orleans, LA -- 590
778. 1991 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901 code, esp. IL/63-- 588
779. 2008 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.19; esp. MS (above avg. rate) -- 585
780. 2005 -- June-Aug esp., **heat**, esp. AZ/244 TX/112 MD/47 PA/26 MO/25 NV/17 -- 584

⁴⁸ "Diarrhoea and Dysentery."

781. 2007 -- **excessive natural heat**, esp. AZ/134, CA/74, TX/43, MO/39, TN/34, SC/26-- 582
782. 1823 -- July-Nov 1, **yellow fever** epidemic, Natchez & vicinity, MS, New Orleans -- 581
783. 1873 -- **Scarlet Fever**, especially children, MI -- 580
784. 1944 -- **Malaria**, infectious and parasitic diseases International List code 28 -- 580
785. 1947 -- **Polio** -- 580
786. 1936 -- **Excessive Cold**, international list #190. Census Bureau. *Mortality Statistics 1936*--579
787. 1953 -- **Heat**, esp. Aug 22-Sep 5, esp. MO/71, NY/43, TX/41, PA/40 -- 576
788. 1949 -- **Diphtheria**, code 055 -- 574
789. 1702 -- summer to late fall, **yellow fever** epidemic, New York City, NY --500-570
790. 1948 -- **Encephalitis**, acute infectious (viral), 1948 ICD infectious diseases code 37 -- 570
791. 1752 -- early in year through at least Sum., **smallpox** epidemic, Boston, MA --535-569
792. 1909 -- **Polio** (acute), especially MA (74), MN (30), NE (135), and ND (19) -- 569
793. 2010 -- **Tuberculosis**, esp. AL, CA, KY, TX (above avg. death rate) -- 569
794. 2015 -- exposure to **excessive natural heat**, esp. AZ/139; NV/69, TX/64, CA/51 -- 567
795. 1956 -- **Polio**, especially late summer and fall, especially children -- 566
796. 1872 -- **scarlet fever**, especially children, MI -- 565
797. 1854 -- Sep 27, **US Mail steamer Arctic** hit by *Vesta*, Fog, Cape Race, NFLD --318-562
798. 1802 -- **Yellow Fever** epidemics, Wilmington DE, MD, MA, Philadelphia, NH, SC -- 561
799. 1942 -- **Polio**, especially late summer and fall, especially children -- 561
800. 1949 -- **Hepatitis**, infectious (code 092); PHS. *Vital Statistics...1949...Mortality* -- 560
801. 1918 -- Oct 12, **forest fires**, Cloquet, Moose Lake, many towns, northeast MN --453-559
802. 1992 -- Exposure to excessive natural **cold/hypothermia** (ICD9 code E901), esp. PA/37--558
803. 2009 -- **Excessive natural heat**, esp. AZ/156, TX/79, CA/63, FL/39, IL/21 -- 555
804. 2013 -- **Tuberculosis**, ICD-10 Code A16-A19, especially CA (133) and TX (61) -- 555
805. 2007 -- **Tuberculosis**, death rate 0.184 per 100K, esp. TN/.389 above avg. -- 554
806. 1995 -- Exposure to excessive natural **cold/hypothermia** (ICD9 code E901); esp. IL/41--553
807. 1868 -- July 6-18, **excessive heat/sunstroke**, esp. NY/313, St. Louis/45, OH/42 -- 552
808. 1950 -- **Hepatitis**, infectious, code 092, 6th rev. of International Lists/1948, US PHS-- 552
809. 1958 -- **Measles**, esp. TX/50, OH/36, IL/34, NY/NC/PA/28 each, KY, 23, IN/20 -- 552
810. 1957 -- June 26-28, **Hurricane Audrey**, SW LA/526; also TX, IL, IN, NY, Can. --545-550

Large-Loss-of-Life Events by Mortality -- ≥ 500 (continued):

811. 1888 -- July-Dec, **Yellow Fever** epidemic, FL esp. Jacksonville/430; Decatur AL/35-- 546
812. 2018 -- **Tuberculosis**, ICD-10 codes A16-A19, esp. CA/100, TX/50, NY/39, FL/38 -- 542
813. 1947 -- **Heat**, excessive, International list code 191 -- 540
814. 2011 -- **Tuberculosis**, ICD-10 Code A16-A19, esp. CA (108), NY, SC (above avg. DR)-- 539
815. 2001 -- **excessive natural heat**, esp. AZ/74, TX/59, MO/41, IL/38, FL/30, CA/29, PA/28--538
816. 1875 -- **Scarlet Fever**, Michigan and Hudson County, NJ -- 537
817. 1936 -- Jan-Feb, **Arctic cold waves, snow, blizzards, snowslides**, flooding⁴⁹ --484-536
818. 1945 -- **Typhoid Fever** (471), Int. List No. 1; paratyphoid fever (63), Int. List No. 2-- 534
819. 1699 -- **Yellow Fever** epidemics, Charleston, SC (170-311); Philadelphia (220) --390-531
820. 1956 -- **Measles**, 21 states double digits, esp. IL/41 TX/31 OH/30 NC/29 PA/28 MI/26-- 530
821. 2009 -- **Tuberculosis**, ICD-10 code A16-19, esp. CA, LA, OK, TX (above avg. death rate)-- 529
822. 1939 -- **Excessive Heat**, international list #191. Census Bureau. *Vital Statistics*, Part 1--527

⁴⁹ In our data documents and spreadsheet there are two entries -- one for January and one for February.

823. 2019 -- **Tuberculosis**, ICD-10 codes A16-A19, esp. CA/112, TX/54, NY/37, FL/35 -- 526
 824. 1954 -- **Measles**, 21 states double digits, esp. NY/36, TX/36, NC/35, PA/34, KY/27 -- 524
 825. 1989 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901.0; esp. IL/45--524
 826. 1897 -- Sep-Dec, **Yellow Fever**, esp. Mobile/48, New Orleans/298, MS, Memphis -- ~520
 827. 1903 -- June-Aug (esp. July 1-11), **Heat**, esp. NY/144, NJ/60, IN/17, Chicago/15, CT/18 -- 520
 828. 1985 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901.0; esp. IL/39 -- 519
 829. 2006 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. MI/37--519
 830. 2017 -- **Tuberculosis**, IDC-10 code A16-19, esp. CA/108 TX/49 NY/31 PA/22 NJ/21-- 515
 831. 1915 -- Aug 16-17/19-20, **Hurricane**/trop. storm, Gulf, SE TX coast, remnant, MO--453-510
 832. 1983 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901.0; esp. GA/36-- 510
 833. 2012 -- **Tuberculosis**, ICD-10 Code A16-A19, especially CA (101) and TX (63) -- 510
 834. 1920 -- **Smallpox**, 34 registration states, esp. LA/167, MS/45, MO/28, NC/28⁵⁰ -- 508
 835. 1913 -- **Scarlet Fever**, NYC, NY -- 507
 836. 1730 -- **Smallpox** epidemic, Massachusetts Bay Colony, especially Boston -- \geq 502
 837. 2008 -- **Excessive natural heat**, esp. AZ/112, TX/66, CA/51, PA/36, NV/35, NC/25-- 502
 838. 1997 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901; esp. IL/36-- 501
 839. 2012 -- Exposure to excessive natural **cold/hypothermia**; esp. CA/32 NY/31 IL/25 -- 501

Large-Loss-of-Life Events by Mortality -- \geq 500 (continued):

840. 1644 -- Apr 18 (or Mar 18), **Powhatans attack** English colonists along James River VA--400-500
 841. 1690 -- spring-fall, **Smallpox**, Iroquois Native Americans, esp. upper NY ~300-500
 842. 1793 -- **Influenza** epidemic, VA, 5 counties, 4 weeks -- 500
 843. 1804 -- GA, SC, NC **Hurricane**, September 7-9 -- 500
 844. 1811 -- **Yellow Fever** epidemic, New Orleans, LA -- >500
 845. 1811-12 -- Dec 16-May, **earthquakes**, New Madrid, KY, TN, NE AR, MO --100-500
 1842 -- June 16, **tornado**, Adams County, MS [**do not believe this happened**] -- 500
 846. 1864 --July 30, **Rebels kill wounded/surrendered/trapped black soldiers**, Petersburg, VA~500
 847. 1864 -- Sep, general **massacre** of Yana Natives, Northern CA -->335-500
 848. 1865 -- Mar 31, steam transport **General Lyon** burns, Cape Hatteras, NC --400-500
 849. 1881 -- Sep 01-06, **wildfire**, "The Thumb Fire," Lower Michigan --169-500
 850. 1888 -- Jan 11-12, Schoolchildren's **Blizzard**, IA/KS/ND/MN/MT/NE/SD/TX --315-500
 851. 1898 -- Nov 26-27, **Portland Gale**, **SS Portland sinks** (Cape Ann MA), New Eng.⁵¹-400-500
 852. 2010 -- **Influenza**, ICD-10 codes J09-J11; US death rate 0.2 per 100K; esp. AK, KS (.4) -- 500

⁵⁰ 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.

⁵¹ There were deaths from and sinkings of multiple vessels. The loss of life on the Portland estimated at 127-192.