

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 – 956 such entries noted as of

May 4, 2025

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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:

- 792 Diseases (especially infectious / contagious / communicable)**
 - 15 Cholera**
 - 5 COVID (Coronavirus-19)**
 - 6 Croup**
 - 9 Diarrhoea and Gastroenteritis of Infectious Origin**
 - 49 Diphtheria (sometimes includes croup)**
 - 35 Dysentery**
 - 14 Encephalitis, acute infectious, epidemic encephalitis, lethargic encephalitis**
 - 12 Hepatitis (Viral/Infectious)**
 - 15 HIV/AIDS**
 - 124 Influenza (sometimes, though rarely. including pneumonia)**
 - 28 Malaria**
 - 52 Measles**
 - 33 Meningococcal infections, especially Meningitis (including cerebrospinal)**
 - 46 Polio**
 - 1 Rubella (German measles)**
 - 36 Scarlet Fever**
 - 57 Smallpox**
 - 2 Syphilis (two years noted – 19,006 in 1940; 2,381 in 1967)**
 - 114 Tuberculosis**
 - 47 Typhoid Fever**
 - 5 Typhus (in NYC typhus and typhoid were reported together several years)**
 - 38 Whooping Cough**
 - 46 Yellow Fever**
 - 3 Unknown (1) and Multiple (2)**
- 68 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 Pellagra (Vitamin B3 deficiency/malnutrition)**
- 15 Violence**
- 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	38	(Sampling)
Influenza/Pneumonia	28	(Sampling)
Typhoid Fever	6	
Coronavirus-19	5	
Malarial Fever	3	
Cholera	2	
Diarrhea & Dysentery	2	
Diphtheria	2	
Scarlet Fever	2	
Small Pox	2	
Yellow Fever	2	
Unknown	2	
Croup	1	
HIV/AIDS	1	
Measles (1 cross-listed)	1	
Meningococcal Meningitis	1	
Syphilis	1	

Other Than Disease

Hurricanes:	1
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Other – not in top 100

Epidemic Encephalitis
Excessive Heat
Pellagra
Whooping Cough

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.	1922 -- Tuberculosis , international list #31-37 (respiratory system--	79,104)
17.	1925 -- Tuberculosis , esp. NY/10,282, PA/7,300, CA/5,934, IL/5,537, OH/4,819	89,268
18.	1775-82 -- Smallpox epidemic North America	~84,000
19.	1931 -- Tuberculosis , esp. PA/10,857, NY/8,618, CA/5,308, OH/4,253, TN/2,962	81,395
20.	1926 -- Tuberculosis (respiratory system), int'l. list #31, <i>Mortality Statistics 1926</i>	80,375
21.	1928 -- Tuberculosis (respiratory system), int'l. list #31, <i>Mortality Statistics 1928</i>	80,285
22.	1923 -- Tuberculosis (respiratory system), int'l. list #31, <i>Mortality Statistics 1923</i>	79,534
23.	1929 -- Tuberculosis (respiratory system), int. list #31, <i>Mortality Statistics 1929</i>	78,624
24.	1924 -- Tuberculosis (respiratory system), int'l. list #31, <i>Mortality Statistics 1924</i>	78,096
25.	1927 -- Tuberculosis (respiratory system), int'l. list #31, <i>Mortality Statistics 1927</i>	77,195
26.	1907 -- Tuberculosis , esp. CA/Chicago, IN/MA/NY (esp. NYC)/PA (esp. Philly)	76,650
27.	1930 -- Tuberculosis (respiratory system), int. list #23, <i>Mortality Statistics 1930-31</i>	75,120
28.	2023 -- COVID (354K deaths/2020; 438K/2021; 217K/2022; 1.19M 2020-2023)	71,691
29.	1870 -- Tuberculosis (consumption), nationwide	69,896
30.	1932 -- Tuberculosis (respiratory), international list #23, <i>Mortality Statistics 1932</i>	67,789
31.	1933 -- Tuberculosis (respiratory system), int. list #23, <i>Mortality Statistics 1933</i>	67,422
32.	1936 -- Tuberculosis (respiratory system), int. list #23, <i>Mortality Statistics 1936</i>	65,043
33.	1861-65--Apr 12-June 30; Typhoid Fever , Civil War, Confederate/Union forces	~65,000
34.	1934 -- Tuberculosis (respiratory system), int. list #23, <i>Mortality Statistics 1934</i>	64,706
35.	1929 -- Influenza , international list #11, Census Bureau, <i>Mortality Statistics 1929</i>	64,583
36.	1937 -- Tuberculosis (respiratory system), international list #23, <i>Vital Statistics Pt. I</i>	63,330
37.	1939 -- Tuberculosis , nationwide, esp. CA, IL, NY, OH, PA, TN, TX	61,609
38.	1941 -- Tuberculosis (all forms)	59,251
39.	1938 -- Tuberculosis (respiratory system), international list #23, <i>Vital Statistics Pt. I</i>	58,027
40.	1942 -- Tuberculosis ; Census Bureau. <i>Vital Statistics of US 1942 -- II...Mortality.</i>	57,690
41.	1943 -- Tuberculosis , all forms codes 13-22 (respiratory, code 13 was 52,407)	57,005
42.	1905 -- Tuberculosis (10 registration states, DC, 134 non-registration cities), esp. NY--	56,770
43.	1940 -- Tuberculosis , nationwide, especially CA, IL, NY, OH, PA and TX	55,576
44.	1944 -- Tuberculosis , nationwide, esp. CA, IL, MI, NJ, NY, OH, PA, TN, TX	54,731

45. 1928 --	Influenza	, international list #11, Census Bureau, <i>Mortality Statistics 1928</i>	51,741
46. 1849 --	Cholera	, esp. OH (>7K); NY (>6K); Gold Rushers (~5K); Natives (~6K) ¹⁸	>45K- 51,428
47. 1928-29 --	winter, Influenza and Pneumonia	epidemic	~50,000
48. 1860 --	Tuberculosis	(consumption), nationwide	49,082
49. 1946 --	Tuberculosis	, respiratory, code 13 (all forms including respiratory, 50,911)	46,939
50. 2024 --	COVID-19	deaths (code U07,1) as of 12-21-2024	45,447

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

51. 1947 --	Tuberculosis	, respiratory, code 13 (all forms including respiratory were 48,064)	44,462
52. 1923 --	Influenza	, international list #11, Census Bureau, <i>Mortality Statistics 1923</i>	43,370
		--27,847 influenza (with pulmonary complications) #11a	
		--15,523 influenza (other and unspecified) #11b	
53. 1926 --	Influenza	, international list #11, Census Bureau, <i>Mortality Statistics 1926</i>	42,809
54. 1948 --	Tuberculosis	, respiratory, code 13 (all forms including respiratory were 43,833)	40,420
55. 1870 --	Pneumonia	, esp. AL, GA, IL, IN, KY, MA, MO, NY, OH, PA, TN, TX, VA	40,012
56. 1879 --	June-May 1880, Diphtheria	, esp. PA/4.6K; IL/3.7K; NY/2.3K; IA/2.3K, ME/MI/WI	38,143
57. 1937 --	Influenza	, international list #11, US Census Bureau, <i>Vital Statistics, Part I</i>	38,005
58. 1932 --	Influenza	, international list #11, US Census Bureau, <i>Mortality Statistics 1932</i>	37,066
59. 1949 --	Tuberculosis	, respiratory (all forms including respiratory were 39,100)	35,988
60. 1900 --	Typhoid	, esp. AL, AR, GA, IN, KY, MS, MO, NY, NC, OH, PA, TN, TX	35,379
61. 1936 --	Influenza	, international list #11, Census Bureau. <i>Mortality Statistics 1936</i>	33,811
62. 1968-69 --	Sep-March, A2 "Hong Kong" Influenza (and Pneumonia)	Epidemic	33,800
63. 1850 --	Tuberculosis	(consumption), esp. NY/6,691, PA/3,520, MA/3,426, OH/2,558	33,516
64. 1933 --	Influenza	, int. list #11, US Census Bureau, <i>Mortality Statistics 1933</i>	33,193
65. 1931 --	Influenza	(additionally pneumonia, all forms was 96,974), esp. PA	31,701
66. 1951 --	Tuberculosis	(respiratory), esp. NY/3.5K, PA/2.5K, CA/2.2K, TX/2K, IL/1.8K	31,163
67. 1870 --	Diarrhoea, Dysentery, Enteritis	, esp. NY/4641, PA/2633, IL/2551, MO/2270	≥31,153
68. 1925 --	Influenza	--esp. PA/2,068, OH/2,100, IL/1,558, IN/1,485, MO/1,464	30,538
69. 1829-1833/esp. 1833--	Malaria?	epidemic, West Coast Natives; CA/20K, OR-WA/10K	30,000
70. 1861-65--	Apr-June, Malaria	, Civil War, Union/10K & Confederate/20K forces	~30,000
71. 1922 --	Influenza	, international list #11, Census Bureau, <i>Mortality Statistics 1922</i>	29,277
72. 1950 --	Tuberculosis	, pulmonary. Code 002, Sixth Rev. of International Lists, 1948	29,228
73. 1935 --	Influenza	, international list #11, Census Bureau. <i>Mortality Statistics 1935</i>	28,230
74. 1889-90, June-May,	Diphtheria	, 48 States & DC, esp. NY/4K, PA/2.9K, IL/2.6K	27,815
75. 1889-90, June-May,	Typhoid	(Enteric) Fever, esp. PA, 2.8K, NY/1.7K, IL/1.7K, OH/1.6K	27,058
76. 1860 --	Scarlatina (Scarlet Fever)	, 38 Census "Registration" States and DC	26,402
77. 1910 --	Typhoid	, avg. death rate 23.5; esp. NC, 57.7, CO/41.9, MD/40.7, MT/39.9	25,000
78. 1927 --	Influenza	, international list #11, Census Bureau, <i>Mortality Statistics 1927</i>	24,471

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).

79.	1879 -- June-May 1880, Typhoid (“Enteric”) Fever, especially IL, IN, MO, OH, TX	23,339
80.	1930 -- Influenza , 48 States and District of Columbia (pneumonia was 88,770)	23,066
81.	1952 -- Tuberculosis (respiratory), esp. NY/2462, CA/1678, PA/1662, IL/1385, TX/12K	22,700
82.	2012-2013 (winter) -- Estimated Excess Influenza & Pneumonia Deaths	18,066-22,434
83.	1870 -- Typhoid Fever , nationwide, esp. IL, IN, MA, MO, NY, OH, PA	22,187
84.	1989 -- HIV AIDS , US death rate 8.9, DC/55.7, NY/25.6, NJ/19.6, FL/16.1, CA/15.	22,082
85.	1934 -- Influenza , international list #11, US Census Bureau, <i>Mortality Statistics 1934</i>	21,868
86.	1915 -- Dec-Jan 1916, Influenza & Pneumonia , esp. IL, MD, NY, OH, PA, WI	21,102
87.	1850 -- Dysentery , esp. NY/3691, PA/2683, OH/2568, MA/2437, IN/1270, CT/965	20,556
88.	1870 -- Scarlet Fever , esp. IL, MO, NY, PA, WI	20,339
89.	1879 -- June-May 1880, “ Malarial Fever ,” esp. AL, AR, GA, IL, MS and MO	20,231
90.	1837-38-- Smallpox epidemic , Upper Mid-West Native American Tribes	~20,000
91.	1878 -- June-Dec, Yellow Fever , esp. LA (esp. New Orleans), MS, TN (esp. Memphis)	~20,000

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

92.	1853 -- May-Dec, Yellow Fever , esp. AL/1293, LA/~15K, MS/1311 TX/871--	18,770-19,533
93.	1900 -- Meningitis , esp. NY/2602, PA/1613, IL/1318, MA/1206, OH/1189, NJ/909	--19,423
94.	1924 -- Influenza , international list #11, Census Bureau, <i>Mortality Statistics 1924</i>	--19,374
95.	1860 -- Typhoid Fever , Census “Registration” States	19,236
96.	1940 -- Syphilis , US death rate 14.4 per 100K pop, esp. FL DC AZ DE MS MD AL	19,006
97.	1916 -- Influenza	18,886
98.	1832 -- June-Dec 16, Cholera epidemics, esp. DC, LA, MD, NY, PA, VA	--16,781-18,491
99.	1879 -- June-May, 1880 -- Croup , especially Oct-Dec, especially IL, PA and TN	17,966
100.	1953 -- Tuberculosis /respiratory, esp. NY/1983, PA/1428, CA/1383, IL/1235, TX/948	17,954
101.	1890 -- Jan-Mar ¹⁹ Influenza (La Grippe/Russian Flu), esp. NY/IL/CT/OH/PA	--16,295-17,807
102.	1866 -- May-Dec, Cholera , esp. Cincinnati/New Orleans/NYC/St. Louis/TN/Army	---16K-17,742
103.	1912 -- Tuberculosis , Jan 1-Jun 8, CA, IL, IN, MA, MO, NJ, NYC, PA, TX, WI	17,463
104.	1944 -- Influenza , especially Jan-Apr & Dec, nationwide, especially OH, PA, TX	17,320
105.	1938 -- Influenza , international list #11, US Census Bur., <i>Vital Statistics 1938 Pt. I</i>	16,520
106.	1900 -- Influenza , esp. MA/1130, TN/1019, PA/978, NC/799, AL/778, VA/754, GA/667	16,645
107.	1988 -- HIV AIDS , US death rate 6.8, DC/39.0, NY/22.2, NJ/14.9, FL/11.7, CA/11	16,602
108.	1900 -- Diphtheria , esp. PA/2805, NY/2673, IL/1504, MA/1072, OH/698, NJ/678--	16,475
109.	1880 -- Scarlet Fever , especially children, nationwide, especially IN, NY and PA	16,388
110.	2010 -- HIV/AIDS , U.S., nationally	15,525
111.	2010-11 (winter)--estimated excess Influenza & Pneumonia Deaths (95%CI)-	12,111-15,372
112.	1860 -- Croup (contagious upper airway viral infection), nationwide	15,188
113.	1954 -- Tuberculosis (respiratory), esp. NY/1667, CA/1108, PA/1100, IL/939, TX/843	--15,146
114.	1900 -- Malarial Fever , esp. AR/1730, TX/1331, LA/1030, AL/1005, GA/1001	14,874

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

115. 1850 -- **Cholera**, esp. Sac. & SF, CA, IL, IN, KY, LA, MO, OH, TN, WI²⁰--14,158-14,637
116. 1894 -- **Diphtheria**, NY/6.6K, esp. NYC/2785, MA/1.5K, Chicago, 1.4K, Philly, NJ 14,606
117. 1887 -- **Diphtheria**, esp. NY/6490 (NYC/4509), Chicago/1405, St. Louis/1112, Philly 14,507
118. 1861-65--Apr-June, **Tuberculosis**, Civil War, Union/6,946 deaths, Confederate/? ~14,000

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

119. 1889-90, June-May -- **Croup**, 48 States & DC, esp. NY/1.5K, PA/1.4K, IL/957 13,862
120. 1955 -- **Tuberculosis** (respiratory), esp. NY/1642, PA/1239, CA/1076, IL/797, TX/736 13,676
121. 1922 -- **Diphtheria**, international list #10. Census Bur., *Mortality Statistics 1922* --13,659
122. 1987 -- **HIV Infection/AIDS**, death rate 5.55, esp. DC/28.1, NY/19.1, NJ/13.7, CA/9.5 13,468
123. 1920 -- **Diphtheria**, esp. Detroit, Fall River, MA, Bridgeport, CT, St. Louis 13,395
124. 1941 -- **Influenza**, with respiratory complications specified; *Vital Statistics 1941* 13,188
125. 1835 -- Nov-Spring 1838, **Smallpox**, Sitka, Gulf of AK, Kodiak, Aleutian Isl. natives, AK 13,105
126. 1850 -- **Typhoid Fever**, 31 States, Washington, DC, four Territories 13,099

127. 1900 -- **Measles**, esp. TX/1,412, AR/1,274, NY/1,174, MS/950, PA/815, TN/974 12,866
128. 1907 -- **Typhoid**, esp. PA/3,538, NY/1702 IN/948 MI/594 CA/545 OH/523 MD/520-12,670
129. 1900 -- **Croup** (Upper airway viral infection), esp. PA/1064, TN/958, KY/768 GA/686 12,484
130. 1891 -- March-May, **Influenza & Pneumonia**, esp. Chicago/6,800, NY/5,572 12,472
131. 2009 -- Apr 12-Apr 10, 2010, **H1N1 "Swine Flu" Pandemic** (U.S.) 12,469
132. 1957 -- **Tuberculosis** (respiratory), esp. NY/1493, PA/959, CA/833, TX/733, IL/673-12,384
133. 1958 -- **Tuberculosis**, esp. NY/1,380, PA/1013, CA/872, IL/725, TX/721, OH/550 12,361
134. 1986 -- **HIV AIDS**, New York City (2,650), U.S. 12,053
135. 1900 -- Sep 9, **Hurricane**, Galveston and southeast coastal area, TX 7,200-12,000

136. 1923 -- **Diphtheria**, international list #10, Census Bur. *Mortality Statistics 1923* --11,733
137. 1900 -- **Dysentery**, esp. AL/861 TX/794 GA/781 NY/676 TN/663 SC/578 AR/541 11,710
138. 1738-39 -- **Smallpox**, Catawba (NC/SC) and Cherokee Natives (NC) --7,700-11,700
139. 1959 -- **Tuberculosis**, esp. NY/1,316, PA/981, CA/815, IL/643, TX,633, OH/527 --11,456
140. 2018 -- **Influenza**, ICD-10 codes J09-11.8, death rate 3.4 per 100K pop., esp. WV/6.6 --11,164
141. 1879 -- June-May 1880, **Whooping Cough**, nationwide, esp. IN, GA, NC, TX, AL 11,064

142. 1920 -- **Whooping Cough**, esp. Atlanta, Nashville, Kansas City, KS, Omaha 10,968
143. 1911 -- **Tuberculosis**, Aug-Dec, NYC, NY, IL, CA, IN, MA, NJ, PA, TX 10,926
144. 1942 -- **Influenza**. Census Bureau. *Vital Statistics US 1942 -- Part II...Mortality* 10,902
145. 1881 -- **Diphtheria**, esp. NY/3.7K (NYC/2249, Brooklyn/1143), MI/2K, MA/1K, NJ/972 10,886
146. 1960 -- **Tuberculosis**, death rate 6.1 per 100K; esp. AZ/12.1, DC/11.8, KY/10.7 10,866
147. 1885 -- **Diphtheria & Croup**, localities in 16 states; esp. NY/4508, MI/1552, NJ/1496 10,788
148. 1850 -- **Croup** (contagious upper airway viral infection), nationwide 10,706
149. 1870 -- **Croup** (contagious upper airway viral infection) nationwide 10,692
150. 1914 -- **Influenza and Pneumonia**, The Year, NYC, NY 10,500
151. 1854 -- **Cholera**, esp. NYC/2.5K, St. Louis/1.5K, Chicago, Detroit, Boston--10,275-10,467
152. 1923 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1923* 10,457

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.

153. 1916 -- **Diphtheria**, especially children, esp. PA/1,653, NY/1,518, MI/486, NJ/444 10,367
154. 1907 -- **Diphtheria** and Croup, Nationwide, esp. NY and PA (esp. Philadelphia) 10,154
155. 1907 -- **Influenza**, Census "Registration States and Localities" ≥10,066
156. 1867 -- Jul-Dec, **Yellow Fever**, esp. New Orleans, Galveston/Houston; also AL/FL/MS/TN 10,012
157. 1659 -- **Measles** Epidemic, Native Americans, FL 10,000
158. 1798 -- **Yellow Fever** epidemic, East Coast Port Cities, esp. Philly and NYC 10,000
159. 1837 -- **Smallpox** epidemic, California Native Americans²¹ 2,000-10,000
160. 1848 -- Sep-early '49, **Measles/Whooping Cough/Dysentery/Influenza** Epidemics, HI 10,000
161. 1849-50 -- **Scurvy**,²² California Gold Rush Immigrants ~10,000
162. 1988 -- **Heat Wave**, Summer, Central/eastern U.S. ~5,000-10,000
163. 1980 -- June-Sep, **Heat**, esp. Midwest & So. Plains, esp. MO/TN/AR/TX >2,000~10,000

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

164. 1900 -- **Whooping Cough**, esp. NY/988, PA/702, TX/576, IL/497, AL/494, TN/425--9,958
165. 1961 -- **Tuberculosis**, US death rate 5.4 per 100K; esp. DC/12. KY/10, AR/10.6, AZ/9.4 --9,938
166. 1872 -- **Smallpox**, esp. Philly/2591, NYC/1666, St. Louis/1.6K, Baltimore/1217, Boston/1K--9,742
167. 1861 -- May 1-June 30, 1866, **smallpox**, Union soldiers and Confederate prisoners²³--9,682
168. 1850 -- **scarlet fever**, esp. PA/1,974, OH/1,301, NY/1,028, MA/571, MD/561, VA/523 --9,584
169. 1962 -- **Tuberculosis**, death rate 5.1 per 100K; esp. DC/11.9, KY/9.8, AZ&AR/9.7 --9,508
170. 1953 -- **Influenza**, esp. TX/716 OH/532 MO/484 PA/460 GA/427 TN/414 AL/393 --9,500
171. 1853 -- **smallpox**, esp. natives, HI, Nevada City vic., CA, OR/WA; also NYC--7,450-9,450
172. 1923 -- **Whooping cough**, international list #9, Census Bur. *Mortality Statistics 1923*--9,440
173. 1926 -- **Whooping Cough**, international list #9, Census Bur. *Mortality Statistics 1926* --9,317
174. 1924 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1924* --9,316
175. 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
176. 1889-90, June-May, **measles**, esp. NY/757, PA/676, KY/513, MO/513 OH/714 AL --9,256
177. 1870 -- **Measles**, nationwide --9,237
178. 1897 -- **typhoid** (enteric) fever, esp. NY/1.5K, OH/1.2K, MA/1.1K, IN/655, PA --9,192
179. 1919 -- **Diphtheria**, 31 reporting states, DC & PR, esp. CT, DC, IL/MI/NJ/NY/OH--9,160
180. 1918 -- **typhoid fever**, 33 Registration States, DC and Puerto Rico, esp. TX/1,057 --9,100
181. 1801-02 -- **smallpox**, Natives, esp. Chinook, Omaha, Osage, esp. Central, Northwest-->9,090
182. 1870 -- **Whooping or "hooping" cough**, nationwide, esp. NY, IL, IN, OH, PA --9,008
183. 1875 -- **Tuberculosis**/consumption; data on Chicago/880, MI/1419, NYC/4172, Philly/2359--8,830
184. 1946 -- **Influenza**, infectious and parasitic diseases International List code 33 --8,783
185. 1926 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1926* --8,607
186. 1924 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1924* --8,517
187. 1900 -- **Smallpox**, esp. MS/782, LA/708, NM/287, VA/263, AL/224 AR/195 TX/146 8,484
188. 1927 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1927* --8,426
189. 1860 -- **Whooping Cough**, nationwide, especially, NY, NC, OH, PA, and VA --8,408

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.

190. 1964 -- **Tuberculosis**, US death rate 4.3; esp. DC/12, AZ/9, AL/7.4, WV/7.2, TN/7.0 --8,303
191. 1925 -- **Typhoid & paratyphoid Fever**, 48 States, esp. KY/668, TN/653, LA/649 --8,287
192. 1928 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1928* --8,263
193. 1880 -- **Measles**, nationwide, especially GA, IL, IN, KS and MO --8,254
194. 1924 -- **Whooping cough**, international list #9, Census. *Mortality Statistics 1924* --8,188
195. 2013 -- **Viral Hepatitis**, ICD-10 code B-15-B19, esp. OR/6.0 death rate, DC/5.9 --8,157
196. 1913 -- **Measles**, US “registration area” (65.1%), esp. PA/1,578, NY/1,120, OH/679 --8,108
197. 2014 -- **Viral Hepatitis**, ICD-10 code B-15-B19, esp. DC, OR (5.3 death rate per 100,000) --8,081
198. 2012 -- **Viral Hepatitis**, ICD-10 code B-15-B19, esp. NM/99, AZ/291, CA/1,387 --8,062
199. 1925 -- **Diphtheria**, esp. NY/1,006, PA/973, IL/409, OH/392, MI/360, NJ/337 --8,058

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

200. 1965 -- **Tuberculosis**, US death rate 4.1 per 100K; DC/12.7, AL/7.5, AZ/7.5, NM/6.6 --7,934
201. 1960 -- **Influenza**,²⁴ US death rate 4.4 per 100K; esp. AL/11.5, SC/11.2, MS/10.9 --7,872
202. 1976 -- **Influenza**, ICD-8 codes 470-474, death rate 3.6 per 100K, esp. NE/12.9 --7,877
203. 1926 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1926* --7,856
204. 2011 -- **Viral Hepatitis**, ICD-10 code B-15-19 (death rate 2.5 per 100K), esp. DC (7.1) --7,850
205. 1920 -- **Measles** --7,712
206. 1929 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1929* --7,685
207. 1947 -- **Influenza**, infectious and parasitic diseases code 33 --7,664
208. 1966 -- **Tuberculosis**, esp. NY/844, PA/589, CA/537, IL/410, TX/404, OH/340 --7,625
209. 2010 -- **Viral Hepatitis**, ICD-10 code B-15-19 (death rate 2.4 per 100K), esp. OK (4.9) --7,564
210. 1934 -- **Whooping cough**, international list #9, Census Bureau. *Mortality Statistics 1934* --7,518
211. 1879 -- June-May 1880, **Meningitis**, especially KY, NY, PA, MO and TN --7,481
212. 1957 -- **Influenza**, especially PA/476, NY/471, TX/459, OH/437. GA/341, NC/318 --7,463
213. 2015 -- **Viral Hepatitis**, ICD-10 code B15-B19, esp. DC (death rate 6.4 per 100,000) --7,461
214. 1927 -- **Whooping Cough**, int’l list #9, Census Bureau. *Mortality Statistics 1927* --7,445
215. 1929 -- **Whooping Cough**, int’l list #9, Census Bureau *Mortality Statistics 1929* --7,310
216. 1963 -- **Influenza**,²⁵ US death rate 3.8; SC/11.9, KY/11.6, WV/11., MS/10.9 TN/9.3 --7,083
217. 1968 -- **Influenza**, ICD-8 codes 470-474/death rate 3.5 per 100K, esp. VE/15.0, NE/9.1 --7,062
218. 1882 -- **Smallpox**, esp. Chicago/1292, Cincinnati/1249, PA/1111, Baltimore/551 --≥7,056
219. 1916 -- **Polio**, esp. July-Sep, esp. NYC/NY (3,331), NJ (1,180), PA (414) --6,745->7,000
220. 1934 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1934* --6,986
221. 1928 -- **Pellagra** (vitamin B3/niacin malnutrition); international list #54, Census --6,969
222. 1925 -- **Whooping Cough**, esp. PA/648, NY/523, CA/481, OH/374, IL/315, MA/279 --6,948
223. 1922 -- **Typhoid Fever**, international list #1. Census Bur. *Mortality Statistics 1922* --6,905
224. 1985 -- **HIV AIDS**, New York City (1,663), U.S. --6,903
225. 1967 -- **Tuberculosis** --6,901
226. 1926 -- **Typhoid/paratyphoid Fever**, international list #1, *Mortality Statistics 1926* --6,826
227. 1920 -- **Typhoid Fever** --6,805
228. 1929 -- **Pellagra** (vitamin B3/niacin malnutrition); international list #54, Census Bur. --6,793
229. 1924 -- **Typhoid** & paratyphoid fever, int’l. list #1. *Mortality Statistics 1924* --6,677

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.

230. 1923 -- **Typhoid** & paratyphoid fever, int'l. list #1. *Mortality Statistics 1923* --6,635
231. 1873 -- Feb-Sep, **Cholera**, esp. TN/>2K esp. Nashville/~1K, KY/~1K, St. Louis --5,814-6,519
232. 2017 -- **influenza**; death rate 2.0 per 100K pop.; esp. ME/5.2, MT/5.1, OR/4.9 WA/4.2--6,515
233. 1858 -- Jun-Dec, **Yellow Fever**, esp. Charleston SC; Galveston & Indianola; New Orleans/4855-6,490
234. 2016 -- **Viral Hepatitis**, ICD-10 code B15-B19, esp. DC (death rate 4.8 per 100K; US 2.0) --6,421
235. 1812 -- Oct-Jun 1813 (esp.), Peripneumony/**Lung Fever** (pneumonia), VT, esp. Burlington-4350-6,400
236. 1833 -- May-Aug (esp.), **Cholera**, esp. KY/~2000, NOLA/1000, WV/OH/IN/TN/IL -6308-6,353
237. 1900 -- **Scarlet Fever**, esp. PA/894, NY/812, TX/707, IL/643, MA/384, OH/334 --6,333
238. 1930 -- **Pellagra** (vitamin B3/niacin malnutrition); int. list #62, Census Bureau --6,333
239. 1870 -- **Diphtheria**, nationwide --6,303
240. 1968 -- **Tuberculosis**, US death rate 3.2 per 100K, esp. DC/10.9 AZ/6.2 AL/6. WV/6. --6,292
241. 1928 -- **Whooping cough**, international list #9, Census Bur. *Mortality Statistics 1928*--6,234
242. 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
243. 1928 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1928* --6,146
244. 1540 -- Oct 18, Spanish (de Soto) **Battle/massacre**, with Atahachi, Mabila, AL 2,500-6,000

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

245. 1969 -- **Influenza**, ICD-8 codes 470-474/death rate 2.96 per 100K, esp. KS/7., SC/6., MT/6. --5,971
246. 2020 -- **Influenza** (distinct from 47,601 pneumonia deaths); death rate 1.8 per 100K --5,943
247. 1855 -- **Yellow Fever epidemic**, Montgomery AL, New Orleans, MS, Memphis, VA 5,938
248. 2019 -- **Influenza**, esp. CA/560 TX/396 NY/336 lives lost; VT/4.3 OR/3.7 NE/3.3 death rate-5,902
249. 1891 -- **Typhoid Fever**, esp. Chicago/2K, NY/1926, Philadelphia/683, NJ/695, DC --5,840
250. 1927 -- **Typhoid Fever**, int'l list #1a, *Mortality Statistics 1927* (42 states & DC) --5,830
251. 1930 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1930* --5,822
252. 1931 -- **Diphtheria**, especially children, especially AR, IL, KY and PA --5,738
253. 1930 -- **Whooping Cough**, international list #9, *Mortality Statistics 1930* --5,707
254. 2017 -- **HIV**, US death rate 1.75 per 100K, esp. DC/9.8, MS/3.8, FL/3.6, LA/3.5 --5,698
255. 1952 -- **Influenza**, esp. TX/433 PA/377 OH/335 AL/283 NC/248 VA/239 MO/226 --5,649
256. 1928 -- **Typhoid**/paratyphoid, int. list #1, *Mortality Statistics 1929* (44 states, DC) --5,620
257. 1930 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1931* --5,610
258. 1864 -- Feb 24-Apr 17, 1865, **Diarrhea & Dysentery**, Union POW's, Andersonville, GA-5,605
259. 1969 -- **Tuberculosis**, US death rate 2.76 per 100K, esp. DC/9.6, AZ/6.0, AL/5.9 --5,567
260. 2018 -- **HIV**; US death rate 1.66 per 100K, esp. DC/9.25, MS/4.15, LA/3.4 FL/3.3 --5,425
261. 1927 -- **Pellagra** (vitamin B3/niacin malnutrition); int'l list #54, Census Bureau --5,418
262. 1932 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1932* --5,418
263. 1936 -- July-Aug (esp.), **Heat**, esp. MN/772, MO/644, IL/634 MI/617 WI/500--4,678-5418
264. 1932 -- **Whooping Cough**, international list #9, Census Bureau. *Mortality Statistics 1932*--5,364
265. 1931 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1931* --5,298
266. 1850 -- **Whooping Cough**, esp. NY/649, OH/450, GA/385, AL/305, PA/288, SC/269 --5,280
267. 1881 -- **Smallpox**, esp. Philly/1336, Chicago/1180, NYC/503, Pittsburgh/448, HI/282 --5,275
268. 2015 -- **Influenza** (ICD-10 codes J09, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8) --5,251
269. 1922 -- **Whooping Cough**, int'l list #9, Census Bureau. *Mortality Statistics 1922* --5,220
270. 1970 -- **Tuberculosis**, US death rate 2.56 per 100K, esp. DC/6.8 AL/5.0 WV/4.5 KY/4.3 --5,217
271. 1929 -- **Meningococcus Meningitis**, int. list #24, Census. *Mortality Statistics 1929* --5,208
272. 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
273. 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

274. 1905 -- **Cerebrospinal Meningitis** Epidemic, esp. NYC/1511-2025; also CT/NH/NJ/MA-5,114
275. 1931 -- **Pellagra** (vitamin B3/niacin malnutrition); international list #62, Census Bur. --5,091
276. 1906 -- **Measles**, nationwide, especially children --5,087
277. 1948 -- **Influenza**, 1948 ICD infectious and parasitic diseases code 33 --5,068
278. 2019 -- **HIV/AIDS**, US death rate 1.54 per 100K pop.; DC/10.0, FL/3.2, MD, 3.0 --5,044
279. 1735-41 -- **Diphtheria** ("Throat Distemper")²⁶ (esp. 1735-37), esp. CT/ME/MA/NH-5,000
280. 1793 -- **Yellow Fever** epidemic, Aug-Nov, Philadelphia, PA --4,041-5,000
281. 1906 -- Apr 18, **Earthquake, Fires, Landslides**, San Francisco & vic., CA --3,000-5,000

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

282. 1972 -- **Influenza**, ICD-8 codes 470-474/death rate 2.38 per 100K, esp. SD/8.9 ME/8.7 --4,986
283. 1937 -- **Whooping Cough**, international list #9, Census Bureau. *Vital Statistics Pt. I*--4,981
284. 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
285. 1933 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1933* --4,937
286. 1929 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1929* --7,685
287. 1907 -- **Whooping Cough**, Census Registration States and localities --4,856
288. 1929 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1929* --4,778
289. 1938 -- **Whooping Cough**, international list #9, Census Bureau. *Vital Statistics Part I*--4,778
290. 1935 -- **Whooping Cough**, international list #9, Census Bureau. *Mortality Statistics 1935*--4,753
291. 2011-2012 (Winter) -- estimated excess **Influenza & Pneumonia** Deaths -- 3,691-4,747
292. 1852 -- **Cholera**, esp. NY/1.3K, IL/1.2-1.3K, New Orleans/1K-1.3K, MO/~1K --4,381-4,736
293. 1933 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1933* --4,678
294. 1921 -- **Measles**, especially children, nationwide --4,667
295. 1898 -- June-Dec, esp., **Typhoid**, esp. Spanish War Army Camps, esp. Southeast -->4,627
296. 1931 -- **Whooping Cough**, esp. children, esp., by death rate, NM/11.7, ID/11.4 --4,619
297. 2014 -- **Influenza** (ICD-10 codes J09, J10, J11), especially CA (457), TX (418) --4,605
298. 1949 -- **Influenza** (codes 480-483); pneumonia (codes 490-493) was 40,038) --4,602
299. 1870 -- **Smallpox**, nationwide --4,597
300. 1934 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1934* --4,520
301. 1871 -- **Smallpox**, esp. Philadelphia/1,879, Cincinnati/1,179, NYC/805, Chicago/MI/NJ--4,505
302. 1971 -- **Tuberculosis**, US death rate 2.18 per 100K, esp. DC/5.8 AL/4.1 TN/3.5 AZ/3 --4,501
303. 1933 -- **Whooping Cough**, int. list #9, Census Bureau. *Mortality Statistics 1933* --4,463
304. 1914 -- **Measles**; US state and local "registration area" (66.8% of pop.), esp. DE/AL --4,461
305. 1958 -- **Influenza**, esp. TX/415, AL/275, OH/260, TN/230, GA/206, MS/199, PA/199--4,442
306. 1935 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1935* --4,435
307. 1927 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1927* --4,433
308. 1933 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1933* --4,389
309. 1972 -- **Tuberculosis**, US death rate 2.09 per 100K, esp. DC/4.8 DE/4.2 AL/3.9 NM/3.9 --4,376
310. 1932 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1932* --4,363
311. 1912 -- **Pneumonia**, Mar 24-Jun 8, Chicago, IL, NYC, NY --4,342
312. 1854 -- Jun-Dec, **Yellow Fever**, esp. Jacksonville, Charleston, Galveston, NOLA, Savannah--4,313
313. 1907 -- **Scarlet Fever**, nationwide --4,309

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.

314. 1907 -- **Measles**, especially children, nationwide --4,302
315. 1975 -- **Influenza**, ICD-8 codes 470-474, death rate 1.986 pre 100K, esp. KS/6.317 --4,277
316. 1912 -- **Measles**, US “registration area” (~65% population), NYC (671) --4,240
317. 1928 -- **Malaria**, international list #5, Census Bureau. *Mortality Statistics 1928* --4,167
318. 1934 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1934* --4,162
319. 1934 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1934* --4,159
320. 1929 -- **Malaria**, international list #5, Census Bureau. *Mortality Statistics 1929* --4,084
321. 1978 -- **Influenza**, ICD-8 codes 470-474, US death rate 1.8 per 100K, esp. ME/5.0, KS/4.7 --4,052
322. 1922 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1922* --4,042
323. 1901 -- June-July, **Heat waves**, except Pacific NW, esp. Northeast, June 27-July 6 --4,012
324. 1920 -- **Scarlet Fever**, esp. Akron, OH, Wilmington, DE, Springfield, MA --4,004
325. 1815-16, winter -- **Smallpox epidemic**, Comanche Nation²⁷ -->4,000
326. 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):

327. 1874 -- **Scarlet Fever**, esp. NYC/879, Cincinnati/687, Brooklyn/479, Philly/461, VT--3,996
328. 1933 -- **Pellagra** (vitamin B3/niacin malnutrition); international list #62, Census Bur. --3,955
329. 1936 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1936* --3,943
330. 1935 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1935* --3,907
331. 1935 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1935* --3,901
332. 1860 -- **Measles**, especially NY, OH, MO and PA --3,809-3,900
333. 1973 -- **Tuberculosis**, US death rate 1.84 per 100K, esp. DC/5.0 TN/2.9 AL/2.8 WV/2.8 --3,875
334. 1926 -- **Pellagra** (vitamin B3/niacin malnutrition); international list #54, Census --3,854
335. 1930 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1930* --3,820
336. 1941 -- **Whooping Cough**, Census Bureau. *Vital Statistics, Part I, Mortality*, p. 350 --3,785
337. 1906 -- **Tuberculosis**, The Year, Philadelphia, PA --3,742
338. 1936 -- **Pellagra** (vitamin B3/niacin malnutrition); int. list #62, Census Bureau --3,740
339. 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
340. 2013 -- **Influenza**, ICD-10 codes J09-11, esp. SD (3.6) MT (3.5) ME (3.2) death rates --3,697
341. 1932 -- **Pellagra** (vitamin B3/niacin malnutrition); international list #62, Census Bur. --3,694
342. 1864 -- Feb-April 1865, **Scurvy**, Union POW's, Camp Sumter, Andersonville, GA --3,614
343. 1934 -- **Pellagra** (vitamin B3/niacin malnutrition); int. list #62, Census Bureau --3,602
344. 1873 -- July-Dec, **Yellow Fever**, esp. Memphis, AL, Pensacola, Louisville, LA, TX-3542-3584
345. 1984 -- **HIV AIDS**, New York City (952) --3,578
346. 1931 -- **Measles**, especially children, especially IL and PA --3,576
347. 1920 -- **Dysentery**, 33 registration states --3,574
348. 1930 -- **Malaria**, nationwide, esp. AL, AR, FL, GA, LA, MS, OK, SC, TN, TX --3,572

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.

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.

349. 1935 -- **Pellagra** (vitamin B3/niacin malnutrition); int. list #62, Census Bureau --3,543
 350. 1974 -- **Tuberculosis**, US death rate 1.65 per 100K, esp. DC/5.1, KY/2.8, TN/2.6 --3,513
 351. 1899 -- Aug 8-19, San Ciriaco **Hurricane** esp. Puerto Rico/3433 & NC/73, Aug 17/18-3,507

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

352. 1841 -- **Yellow Fever**, esp. FL & LA, esp. New Orleans, also Vicksburg, Charleston-3,498
 353. 1909 -- **Tuberculosis**, Philadelphia, PA --3,496
 354. 1908 -- **Tuberculosis**, Philadelphia, PA --3,490
 355. 1935 -- **Typhoid**, international list #1, Census Bureau. *Mortality Statistics 1935* --3,442
 356. 1923 -- **Scarlet fever**, international list #8, Census Bureau. *Mortality Statistics 1923*--3,440
 357. 1962 -- **Influenza**,²⁹ US death rate 1.8 per 100K; esp. NE/5, TN/5, MS/4.2, SC/4 --3,431
 358. 1847 -- **Yellow Fever**, esp. NOLA, also Galveston/Mobile/Pensacola/Vicksburg³⁰ --≥3,400

 359. 1934 -- **Dysentery**, international list #13, Bureau of Census. *Mortality Statistics 1934* --3,373
 360. 1943 -- **Whooping Cough**, especially children, nationwide --3,368
 361. 1930 -- **Dysentery**, international list #13, Census Bureau. *Mortality Statistics 1930* --3,356
 362. 1925 -- **Pellagra** (vitamin B3/niacin malnutrition); int'l list #54, Census Bureau --3,344
 363. 1922 -- **Malaria**, international list #5, Census Bureau. *Mortality Statistics 1922* --3,336
 364. 1975 -- **Tuberculosis**, US death rate 1.55 per 100K, esp. DC/3.8, KY/2.74, TN/2.72--3,333
 365. 1851 -- June-Aug esp., **Cholera**, esp. St. Louis, IL, New Orl., Cincinnati, SD Sioux--3314-3,322
 366. 1952 -- **Polio**, esp. IL/258, TX/≥240, MI/218, CA/217, MN/200, IA/163 KY/132, NE/115 --3,300

 367. 1938 -- **Measles**, international list #7, Census Bureau. *Vital Statistics 1938*, Part I --3,296
 368. 1904 -- **Cerebrospinal Meningitis**, esp. NYC/1,083-1,403, Hartford, CT/108, NJ/245 --3,284
 369. 1906 -- **Epidemic Cerebro-spinal Meningitis**, esp. NY/1,117 (NYC/600), PA/385 --3,258
 370. 1925 -- **Dysentery**, esp. KY/297, WV/213, LA/211, SC/211, TN/207, VA/196 --3,257
 371. 1922 -- **Scarlet Fever**, international list #8, Census Bur. *Mortality Statistics 1922* --3,256
 372. 1934 -- **Heat**, esp. mid-July-mid-Aug, esp. Midwest, esp. MO, IL, KS, OH --3,250
 373. 1928 -- **Dysentery**, international list #16, Census Bureau. *Mortality Statistics 1928* --3,215

 374. 1910 -- **Tuberculosis**, the Year, Philadelphia, PA --3,190
 375. 1889 -- May 31, South Fork **Dam Failure**, flash flood, fire, Johnstown PA --2,209-3,188
 376. 1896 -- **Measles**, esp. NYC/714, Brooklyn/333, Philadelphia/191, Cincinnati/100, CT--3,178
 377. 1920 -- **Malaria**, esp. MS/683, LA/586, SC/487FL/344, NC/210 and TN/183³¹ --3,136
 378. 1976 -- **Tuberculosis**, US death rate 1.44 per 100K, esp. DC/4.0, NM/2.8, AL/2.6 --3,130
 379. 1924 -- **Scarlet Fever**, international list #8, Census Bur. *Mortality Statistics 1924* --3,122
 380. 1936 -- **Dysentery**, international list #13, Census Bureau. *Mortality Statistics 1936* --3,122
 381. 1923 -- **Dysentery**, international list #16, Census Bureau. *Mortality Statistics 1923* --3,118

 382. 1936 -- **Typhoid Fever**, international list #1, Census Bureau. *Mortality Statistics 1936*--3,098

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.

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.

383. 1936 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1936* --3,065
384. 2001 -- Sep 11, **Violence, 9/11 Terrorist Attacks** --3,064
385. 1939 -- **Whooping Cough**, nationally, esp. AL, GA, IL, MS, NY, NC, PA, TX, VA --3,026
386. 1936 -- **Epidemic Cerebrospinal Meningitis**, int. list #18, Census Bur. *Mortality Statistics*- 3,020
387. 1819 -- **Yellow Fever**, esp. Charleston, Mobile, Natchez; most esp. New Orleans-2871-3019
388. 1981 -- **Influenza**, US death rate 1.31 per 100K, esp. SD/4.2, IA/3.5, UT/3.3, VT/3.3 --3,006
389. 1804 -- **Epidemic, Possibly Cholera** (or Typhoid or Plague) Natives, Oahu, HI >3,000
390. 1928 -- Sep 6-20, Great Okeechobee **Hurricane/Flood**, Southeast FL --1,800-3,000

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

391. 1850 -- **Measles**, especially NY/505, OH/363, PA/316, VA/222, MO/189, IN/163 --2,988
392. 2017 -- Sep 20, **Hurricane Maria**, Puerto Rico (2,975), US Virgin Isl. (2), NJ (3) --2,980
393. 1937 -- **Dysentery**, international list #13, Bureau of Census. *Vital Statistics Part I* --2,974
394. 1977 -- **Tuberculosis**, US death rate 1.35 per 100K, esp. DC/4.24, TN/2.8, KY/2.2 --2,968
395. 1966 -- July, **Heat Wave** and “excess deaths,” esp. IL, NYC, St. Louis, MO ~2,582-2,954
396. 1924 -- **Dysentery**, international list #16, Census Bureau. *Mortality Statistics 1924* --2,946
397. 1938 -- **Dysentery**, international list #13, Census Bureau. *Vital Statistics 1938 Part I* --2,933
398. 1940 -- **Whooping Cough**, nationwide, especially TX and KY --2,926
399. 1928 -- **Meningococcus Meningitis**, int. list #24, Census. *Mortality Statistics 1928* --2,923
400. 1929 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1929* --2,923
401. 1926 -- **Dysentery**, international list #16, Census Bureau. *Mortality Statistics 1926* --2,921
402. 1978 -- **Tuberculosis**, ICD-8 codes 010-019, esp. NY/283, CA/217, PA/185, IL/165 --2,914
403. 2016 -- **Influenza** (ICD-10 codes J09, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8) --2,905
404. 1927 -- **malaria**, international list #5, Census Bureau. *Mortality Statistics 1927* --2,875
405. 1883 -- **Smallpox**, esp. New Orleans/834 Baltimore/633 Cincinnati/189 Chattanooga/103 --2,868
406. 1950 -- **Influenza**; separate from influenza with pneumonia/3,492 and pneumonia/40,523 --2,857
407. 1959 -- **Influenza**,³² esp. TX/191, TN/133, OH/126, NY/126 IN/119 MI/108 GA/104 CA--2,845
408. 1931 -- “Epidemic **Cerebrospinal Meningitis**,”³³ U.S., especially IL, NY and PA --2,832
409. 1966 -- **influenza** (pneumonia deaths were 63,615), esp. CA/636, WA/154, OR/134 --2,830
410. 1933 -- **Dysentery**, international list #13, Census Bureau. *Mortality Statistics 1933* --2,815
411. 1933 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1933* --2,813
412. 1944 -- **Cerebrospinal Meningitis**, nationwide, esp. CA, IL, MI, NJ, NY, OH, PA --2,812
413. 1929 -- **Dysentery**, international list #16, Census Bureau. *Mortality Statistics 1929* --2,777
414. 1875 -- **Smallpox**, esp. New York City (1,899), Cincinnati (745), Philadelphia (54) --2,770
415. 1931 -- June-Sep, **Heat Waves**/excessive heat, West, Midwest, NE, esp. IL, IA, WI --2,768
416. 1839 -- Jun-Oct, **Yellow Fever**, SC, FL, GA, TX, esp. Mobile, Natchez, New Orleans ~2,764
417. 1925 -- **Scarlet Fever**, esp. PA/343, IL/279, OH/252, MI/216, NY/191, MO/169 --2,762
418. 2009 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,756
419. 1955 -- **Influenza**, esp. OH/187 AL/183 GA/181 TX/169 PA/154 TN/136 MS/106 --2,755
420. 2011 -- **Diarrhoea & Gastroenteritis of Infections Origin** (ICD-10 code A09), esp. NJ --2,743
421. 1822 -- **Yellow Fev.**, esp. late Sum-Fall, esp. NOLA/Marietta OH/NYC/Pensacola³⁴-1519-2,741

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*.

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

422. 2010 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,741
423. 1923 -- **Malaria**, international list #5, Census Bureau. *Mortality Statistics 1923* --2,736
424. 1922 -- **Dysentery**, int'l. list #16, Bureau of Census. *Mortality Statistics 1922* --2,735
425. 1937 -- **Malaria**, international list #38, Census Bureau. *Vital Statistics 1937, Part I* --2,729
426. 1949 -- July-Nov esp., **Polio**, esp., NY/320, IL/246, MI/210, TX/183 NJ/180 CA/236--2,720
427. 1935 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1935* --2,718
428. 1871 -- **Scarlet Fever**, esp. NYC/791, Baltimore/625, MI/696, MN/335, Philly/262 --2,709
429. 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):

430. 1954 -- **Influenza**, esp. TX/228 AL/180 GA/162 PA/154 OH/143 TN/120 MO/104 --2,696
431. 2009-2010 (Winter) -- **Influenza** deaths (out of 1,595,870 US deaths) --2,691
432. 2013 -- **Diarrhoea and gastroenteritis of infections origin** (ICD-10 code A09) --2,669
433. 1936 -- **Whooping Cough**, international list #9, Census Bureau. *Mortality Statistics* --2,666
434. 1926 -- **Scarlet Fever**, international list #8, Census Bur. *Mortality Statistics 1926* --2,662
435. 1937 -- **Typhoid**, international list #1, Census Bureau. *Vital Statistics 1938, Pt. I* --2,659
436. 1935 -- **Epidemic Cerebrospinal Meningitis**, int. list #18, Census. *Mortality Statistics* --2,657
437. 1931 -- **Scarlet Fever**, especially children, especially IL --2,651
438. 1922 -- **Pellagra** (vitamin B3/niacin malnutrition); int'l. list #54, *Mortality Stats.* --2,640
439. 1937 -- **Diphtheria**, international list #10, Census Bureau. *Vital Statistics Part I* --2,637
440. 2012 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,610
441. 1927 -- **Dysentery**, int'l list #16, Bureau of Census. *Mortality Statistics 1927* --2,605

442. 1932 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1932* --2,577
443. 1932 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1932* --2,568
444. 1938 -- **Diphtheria**, international list #10, Census Bureau. *Vital Statistics Part I* --2,556
445. 1933 -- **Scarlet Fever**, international list #8, Census Bur. *Mortality Statistics 1933* --2,546
446. 1931 -- **Malaria**, esp. AL, AR, FL, GA, LA, MS, MO, SC, TN --2,536
447. 1942 -- **Whooping Cough**. Census Bureau. *Vital Statistics ...1942...Mortality* --2,536
448. 1934 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1934* --2,524
449. 1865 -- **Smallpox**, esp. NYC/≤664, Philly/524, SC/GA/FL Sea Islands/~800³⁵ -2,500-2,510
450. 1797 -- **Yellow Fever epidemic**, New Design, MO, NYC, Philly, Providence, RI --2,502
451. 1876 -- **Smallpox**, 10 data-points, esp. Cincinnati/~930, SF CA/482, Philly/407, NYC/315~2500
452. 1893 -- Aug 27-28, **Hurricane**, Sea Islands "Great Storm of 1893," GA/SC --1,000-2,500
453. 1900 -- June-Dec, **Measles** and **Influenza**, Native Alaskans, esp. west AK ~2,000-2,500

454. 1936 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1936* --2,493
455. 1863 -- **Smallpox**, esp. DC/700, Camp Chase OH, Fort Delaware DE, Baltimore/IL/PA-2.3K--2,490
456. 1929 -- **Scarlet Fever**, international list #8, Census Bur. *Mortality Statistics 1929* --2,468
457. 2015 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,456
458. 1910 -- sum-fall esp., **Polio**, esp. IA/161, MA/122, MN/97, NY/170, PA/269 --1459-2,449
459. 1924 -- **Malaria**, international list #5, Census Bureau. *Mortality Statistics 19264* --2,441
460. 1931 -- **Dysentery**, international list #13, Bureau of Census. *Mortality Statistics 1931* --2,441
461. 1927 -- **Scarlet Fever**, international list #8, Census Bur. *Mortality Statistics 1927* --2,440

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

462. 1935 -- **Dysentery**, international list #13, Bureau of Census. *Mortality Statistics 1935* --2,436
 463. 1864 -- **Yellow Fever**, esp. New Bern NC/1,359, Charleston, SC/700, Galveston, NOLA--2,414
 464. 2014 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,405
 465. 1925 -- **Measles**, 40 Registration states, esp. PA/503, MA/349, NY/323, IL/217, NJ/124 --2,404
 466. 1941 -- Dec 07, **Violence, Attack** by Japanese on Pearl Harbor, HI --2,402
 467. 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):

468. 1967 -- **Syphilis** --2,381
 469. 1938 -- **Malaria**, international list #38, Census Bureau. *Vital Statistics, Part I* --2,378
 470. 2016 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,361
 471. 1850 -- **Smallpox**, esp. OH/551, NY/276, MA/232, PA/208, KY/150, MD/144, IN/140- 2,352
 472. 1923 -- **Pellagra** (vitamin B3/niacin malnutrition); int'l. list #54, Census Bureau --2,352
 473. 1924 -- **Pellagra** (vitamin B3/niacin malnutrition); int'l. list #54, Census Bureau --2,347
 474. 1956 -- **Influenza**, esp. PA/139, TX/153, OH/134, AL/130, GA/109, MS/100, TN/96 --2,323
 475. 1880 -- **Diphtheria**, NY, esp. children, esp. NYC & Brooklyn; elsewhere NY--1,805-2,303

 476. 1965 -- **Influenza**,³⁶ death rate 1.2 per 100K, esp. ME/5.0, KS/4.0, NE/3.6, VE/3.3 --2,295
 477. 1930 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1932* --2,279
 478. 1941 -- **Measles**, esp. children, esp. VA (170), GA (160), KY (158), SC (138), TN (133) --2,279
 479. 1864 -- **Typhoid**, Chicago/192, Philadelphia/648; **Typhus**/Typhoid, NYC/1,425 --2,265
 480. 1928 -- **Scarlet Fever**, international list #8, Census Bur. *Mortality Statistics 1928* --2,229
 481. 1937 -- **Epidemic cerebrospinal meningitis**, int. list #18, Census. *Vital Statistics, Pt. I* --2,208
 482. 1873 -- **Smallpox**, esp. Boston/668, Baltimore/631, Chicago/515, NYC/117, Charleston/106--2,201
 483. 1974 -- **Influenza**, ICD-8 codes 470-474, death rate 1.30 per 100K, esp. KS/3.48 --2,201
 484. 1893 -- Dec-Jan 1894, epidemic **Influenza**, NY --2,200

 485. 1911 -- **Heat waves**/excessive heat deaths, esp. June 4-23, July 1-13, esp. MW, NE ~2,190
 486. 2022 -- excessive **natural heat**, esp. AZ (1,030) esp. Maricopa County/425, TX/203--2,159
 487. 2023 -- excessive **natural heat**, esp. AZ (867), TX (440), NV (208), LA/82, FL/81 --2,155
 488. 1867 -- June-Dec, **Cholera**, esp. St. Louis, New Orleans, KS/OK/Chicago, US Army-2,145
 489. 1931 -- **Polio**, esp. July-Oct (Aug peak), esp. NY, NJ, MI, MA, IL, CT, PA --2,139-2,144
 490. 1961 -- **influenza**,³⁷ US death rate 1.2 per 100K; esp. AK/3.3, KS/ME/NE at 2.7 --2,137
 491. 1925 -- **Malaria**, esp. MS/426, FL/338, AL/306, LA/256, MO/189, SC/183, TN/155 --2,132
 492. 1902 -- **Smallpox**, esp. NJ/432, NYC/310, MA/283, Cleveland/233, Philly PA/231 --2,111
 493. 1964-65 -- **Rubella (German measles)**, last major US epidemic, especially newborn--2,100

 494. 1990 -- **Influenza**, US death rate 0.84 per 100K; esp. NE//3.5; IA/3.1; ID/2.3; SD/2.3 --2,098
 495. 1932 -- **Dysentery**, international list #13, Bureau of Census. *Mortality Statistics 1932* --2,083
 496. 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
 497. 1863 -- Sep-June 1865, **Diarrhea & Dysentery**, Confederate POWs, Point Lookout MD-2,050
 498. 1865 -- **Typhus/Typhoid** NYC/1,075; Typhoid/Chicago/190 and Philadelphia/773 --2,038
 499. 1896 -- Aug 1-14~, **Heatwave**, esp., NY/891, IL/277 PA/226 NJ/168 MO/81 WI/77--2,038

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.

500. 1927 -- **Polio** (Acute), especially late Summer and Fall, especially children --2,013
 501. 1834 -- ~July-Nov, **Cholera**, esp. Baltimore, Cleveland, Detroit, Goliad TX, NYC--≥2,010
 502. 1979 -- **Tuberculosis**, US death rate 0.89 per 100K, esp. DC/2.7, KY/1.7, MS/1.6 --2,007
 503. 1926 -- **Malaria**, international list #5, Census Bureau. *Mortality Statistics 1926* --2,006
 504. 1634-35, **Smallpox epidemic**, Five Nations, especially Mohawks, Upper NY³⁸ --≥2,000
 505. 1709-10, **Smallpox epidemic**, Native Americans, lower CA --≥2,000
 506. 1893 -- Oct 1-2, **Hurricane**, Cheniere Caminanda, Gulf Coast esp. LA, MS, AL 1700-2000

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

507. 1616 -- **Unknown Epidemic**, Natives, especially ~coasts of MA, ME, RI --thousands
 508. 1939 -- **Diphtheria**, esp. Jan-Mar, Sep-Dec, Nationwide, esp. GA, IL, NC, TX, VA --1,997
 509. 1980 -- **Tuberculosis**, US death rate 0.87 per 100K, esp. DC/4.21, SC, 1.79, AL/1.74 --1,978
 510. 1989 -- **Tuberculosis**, US death rate 0.80 per 100K, esp. DC/2.55; NY/1.63; LA/1.34 --1,970
 511. 1923 -- **lethargic encephalitis** (sleeping sickness), int'l. list #23. *Mortality Statistics* --1,966
 512. 1947 -- **Whooping Cough**, Int. List No. 9 --1,954
 513. 1865 -- Apr 27, Steam **Sultana** explodes/burns, Miss. Riv., Redman Point, AR-1,547-1,947
 514. 1988 -- **Influenza**, US death rate 0.79 per 100K; esp. ID/3.7, IA/2.5, MT/2.6, SD/3.3 --1,943
 515. 1932 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1932* --1,941
 516. 1981 -- **Tuberculosis**, US death rate 0.84 per 100K, esp. AL/1.96, DC/1.57, FL/1.43 --1,937
 517. 1837 -- Aug-Nov, **Yellow Fever** epidemics, Mobile AL; New Orleans LA; Natchez MS--1550-1930
 518. 1944 -- **Measles**, especially Jan-June, Nationwide, esp. CA, GA, OH, PA, TX --1,923
 519. 2021 -- **excessive natural heat**, esp. AZ/854, WA/170, NV/166, CA/140, OR/133 --1,923
 520. 1939 -- **Typhoid**, international list #1, Census Bureau. *Vital Statistics 1939, Part I* --1,922
 521. 1988 -- **Tuberculosis**, US death rate 0.78 per 100K, esp. DC/2.05, NY/1.61, HI/1.48 --1,921
 522. 1943 -- **Dysentery**, Bureau of Census. *Vital Statistics...1943...II...Mortality*, p.192 --1,909
 523. 1950 -- **Polio**, esp. Jul-Nov (1,611 deaths), esp. CA, IL, MI, NY, OH, PA, TX --1,904
 524. 1980 -- June-Sep, **Heat**, esp. Midwest & So. Plains, esp. MO/TN/AR/TX/MS³⁹--1,863-1,904
 525. 1948 -- **Polio**, especially CA, MN, NC, OH, SD, TX and WI --1,895
 526. 1944 -- **Whooping Cough**, Nationwide, especially NC, VA, TX, SC, KY, MS --1,878
 527. 1942 -- **Dysentery**. Census Bureau. *Vital Statistics...US 1942 -- Part II...Mortality* --1,877
 528. 1855 -- May-Aug, **Cholera**, IL//KS/KY/MO/OH/WI, esp. New Orleans/883 --1,797-1,869
 529. 1946 -- Especially July-Nov, **Polio**, nationwide, esp. IL, MN and TX --1,845
 530. 1986 -- **Influenza**, US death rate 0.76 per 100K, esp. VT/3.9 ME/3.59 MN/3.2 ND/2.84 --1,838
 531. 2005 -- Aug 25-31, **Hurricane Katrina**, FL, LA, esp. NOLA & MS⁴⁰ --≥1,833-1,836
 532. 1868 -- June-Dec, **Smallpox**, esp. San Francisco/960, Cincinnati/649, Chicago/150--≥1,825
 533. 1937 -- **Scarlet Fever**, international list #8, Census Bureau. *Vital Statistics 1938, Pt. I*--1,824

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.

534. 2005 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.613 per 100K; esp. SD (4.513) --1,812
 535. 1990 -- **Tuberculosis**, US death rate 0.73 per 100K, esp. DC/1.97; NY/1.63; MS/1.48 --1,810
 536. 1982 -- **Tuberculosis**, US death rate 0.78 per 100K, esp. DC/2.83, AL/1.63, TN/1.4--1,807
 537. 1800 -- **Yellow Fever**, esp. Baltimore, Charleston SC, Norfolk, Philly, Providence RI --1,806

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

538. 2003 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.618 per 100K; esp. ND (2.661) --1,792
 539. 1986 -- **Tuberculosis**, US death rate 0.74 per 100K, esp. DC/1.72, DE/1.43, NY/1.34-1,782
 540. 1983 -- **Tuberculosis**, US death rate 0.76 per 100K, esp. DC/3.63, AL/1.6, LA/1.2 --1,779
 541. 2008 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.57 per 100K; esp. SD (2.13) --1,772
 542. 1870 -- **Typhus**, nationwide, especially IL, IN, NY, and PA --1,770
 543. 2000 -- **Influenza**, ICD-10 codes J09-11.8; US death rate 0.63 per 100K; esp. SD (3.05) --1,765
 544. 1939 -- **Malaria**, esp. May-Nov, especially AL, AR, FL, GA, LA, MS, SC, TX --1,761
 545. 1987 -- **Tuberculosis**, US death rate 0.72 per 100K, esp. DC/2.82, AL/1.54, NY/1.5 --1,755
 546. 1894 -- **Smallpox**, esp. Chicago/1033, WI/325, esp. Milwaukee/244; NY/147 --1,752
 547. 1945 -- **Whooping Cough**, communicable disease No. 9 International List --1,752
 548. 1985 -- **Tuberculosis**, US death rate 0.74 per 100K, esp. DC/3.46, GA/1.34, AL/1.23 --1,752
 549. 1984 -- **Tuberculosis**, US death rate 0.73 per 100K, esp. DC/3.62, AL/1.57, NY/1.21 --1,729
 550. 1945 -- **cerebrospinal** (meningococcus) **meningitis** (code 6 communicable disease)--1,728
 551. 1998 -- **Influenza**, ICD-9 code 487.0; US death rate 0.62 per 100K; esp. MT (6.72) --1,724
 552. 1911 -- **Typhoid Fever**, PA --1,716
 553. 1991 -- **Tuberculosis**, US death rate 0.68 per 100K, esp. DC/2.32. NY/1.62; AR/1.17 --1,713
 554. 1927 -- **Meningococcus Meningitis**,” int’l list #24. *Mortality Statistics 1927* --1,705
 555. 1992 -- **Tuberculosis**, US death rate 0.66 per 100K, esp. NY, 1.38; MS, 1.33 --1,705
 556. 1553 -- **Hurricane**, lower coast of TX --1,700
557. 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
 558. 1862 -- **Yellow Fever**, esp. Wilmington NC/>653; TX coast/>328; Key West--1,131-1,679
 559. 1932 -- **Epidemic Cerebrospinal Meningitis**, int. list #18, Census. *Mortality Statistics* --1,677
 560. 1999 -- **Influenza**, ICD-10 codes J09-11.8; US death rate 0.597 per 100K; esp. SD/4.913 --1,665
 561. 1993 -- **Tuberculosis** (US death rate 0.63 per 100K), esp. DC/2.51 and NY/1.16 --1,631
 562. 1925 -- **Lethargic Encephalitis** (sleeping sickness), int’l. list #23. *Mortality Stats 1925*--1,630
 563. 1995 -- June-Aug, esp. July 12-17, **Heat**, esp. IL/>700 WI/154 PA/146 MO/58 1,563-1,601
564. 1921 -- **Polio** (acute), esp. late Summer-Fall, esp. children, esp. NY, IL, WA, MI --1,597
 565. 1989 -- **Influenza**, US death rate 0.64 per 100K; esp. IA/2.38, MT/2.1, ND/2.17, OR/2.0 --1,593
 566. 1925 -- **Excessive Heat**, esp. NY (439), PA (299), NJ (112), CA (69), MA (65) --1,587
 567. 2009 -- **Influenza (avian)**, ICD-10 code J09 (US death rate 0.5 per 100K) esp. MT (1.3) --1,557
 568. 1951 -- **Polio**, especially July-Nov, especially CA, IL, TX --1,551-1,555
 569. 1847 -- **Typhoid** and **Typhus**, New York City (1,396), Typhus, New Orleans (154) --1,550
 570. 2011 -- **Influenza**, ICD-10 codes J09-11 (US death rate 0.5), esp. SD (2.3 per 100K) --1,532
 571. 1848 -- **Typhus** and **Typhoid**, New Orleans, LA/372, NYC/953, South Philly/205 --1,530
 572. 1925 -- **Polio**, esp. late Sum.-Fall, esp. children, esp. NY/208, CA/149, MN/140 --1,519
 573. 1971 -- **Influenza**, ICD-8 codes 470-474/death rate 0.73 per 100K, esp. ME/2.9, NE & WA/1.9-1,504

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

574. 1937 -- **Measles**, international list #7, Census Bureau. *Vital Statistics 1938*, Part I --1,501
 575. 1689-1690 -- **Smallpox epidemics**, New England and NY, settlers and natives-≥820-1,500
 576. 1983 -- **HIV AIDS**, New York City (425), U.S. --1,500

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

577. 1926 -- **Lethargic encephalitis** (sleeping sickness), int'l. list #23. *Mortality Statistics 1926* --1,499
 578. 1877 -- **Smallpox**, 7 data pts., esp. New Orleans/1.1K; Philadelphia/155; Cincinnati/56 --1,496
 579. 1914 -- **Diphtheria and Croup**, the Year, NYC, NY --1,489
 580. 1930 -- **excessive heat**, international list #191. Census. *Mortality Statistics 1930* --1,487
 581. 1933 -- **Epidemic Cerebrospinal Meningitis**, int. list #18, *Mortality Statistics 1933* --1,482
 582. 1843 -- July-Nov, **Yellow Fever**, esp. Mobile AL (240-750), New Orleans (487-700)--758-1,481
 583. 1994 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.56 per 100K, esp. DC, 1.86 --1,478
 584. 1967 -- **Influenza** --1,475
 585. 1937 -- **Polio** (Acute), especially late Summer and Fall, especially children --1,461
 586. 1940 -- **Diphtheria**, Census Bureau. *Vital Statistics Part II, 1940, Mortality*, p. 210 --1,457
 587. 1953 -- **Polio** (acute), especially CA, IL, MI, and NY --1,450
 588. 1940 -- **typhoid fever**, Census Bureau. *Vital Statistics, Part II, 1940, Mortality*, p.210--1,443
 589. 1940 -- **Malaria**, especially AL, AR, GA, MS, SC and TX --1,442
 590. 1924 -- **Lethargic Encephalitis** (sleeping sickness), int'l. list #23. *Mortality Statistics* --1,441
 591. 1949 -- **Dysentery**, infectious, all forms (codes 045-048) --1,440
 592. 1983 -- **Influenza**, US death rate 0.61 per 100K, esp. ME/3.9, MT/3.2, MN/2.7 --1,431
 593. 1926 -- **Meningococcus Meningitis**, int'l list #24. *Mortality Statistics 1926* --1,413
 594. 1803 -- July 18-Oct, **Yellow Fever**, Charleston SC, New York, VA, Philadelphia --1,403
 595. 1952 -- **Heat**, excessive natural, Sixth Revision of International Lists, 1948, code E931 --1,401
596. 1864 -- July-June 1865, **Diarrhea and Dysentery**, Confederate POWs. Elmira, NY --1,394
 597. 1954 -- **Polio**, acute; esp. TX/138 & CA/119; 33 other states double digit deaths --1,389
 598. 1928 -- **Polio** acute, especially late Summer and Fall, especially children --1,381
 599. 1944 -- **Polio**, especially July-Nov (1,070 deaths), esp. NY, OH and PA --1,381
 600. 1928 -- **Lethargic encephalitis/sleeping sickness**, int'l. list #23. *Mortality Statistics 1928*--1,373
 601. 1930 -- **Polio**, especially late summer through fall --1,370
 602. 1933 -- **Epidemic Encephalitis**, international list code #17, Census Bureau 1933 --1,357
 603. 1799 -- **Yellow Fever**, Charleston, SC, NYC, Philadelphia, USS *General Greene* --1,356
 604. 1851 -- **Typhus/Typhoid**, NYC/1,103, New Orleans/Typhus/228, Chicago/Typhoid/10 --1,341
 605. 1995 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.5 per 100K, esp. DC, 1.89 --1,336
 606. 1820 -- May-Dec, **Yellow Fever**, Savannah GA/New Orleans/NYC/Philadelphia --1,335
 607. 1913 -- **Diphtheria and Croup**, the Year, NYC, NY --1,333
 608. 1927 -- **Lethargic encephalitis** (sleeping sickness), int'l. list #23. *Mortality Statistics 1927*--1,325
 609. 1972 -- **Excessive heat**; heat as contributing factor, esp. July 12-25 NYC/891, MD/269 --1,324
 610. 1929 -- **Lethargic encephalitis** (sleeping sickness), int. list #23. *Mortality Statistics 1929*--1,313
 611. 1912 -- **Typhoid Fever**, Pennsylvania --1,310
 612. 1946 -- **Measles**, International List infectious and parasitic diseases code 35 --1,310
 613. 1863 -- **Diphtheria**, Vermont -->1,300
 614. 1977 -- **Influenza**, ICD-8 codes 470-474, US death rate 0.59 per 100K, esp. AL/1.98 --1,304
 615. 1942 -- **Measles**. Census Bureau. *Vital Statistics of US 1942 -- Part II...Mortality* --1,302
 616. 1943 -- **Measles**, especially children --1,301

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

617. 1862 -- Feb-Jun '65 (41 mo.), **pneumonia/pleurisy**, Confederate POWs, Camp Douglas IL- 1,296
618. 1876 -- **Yellow Fever**, Savannah (also Brunswick), GA; also New Orleans & Baltimore --1,293
619. 1941 -- **Diphtheria**, Census Bureau. *Vital Statistics, Part I, Mortality*, p. 150 --1,293
620. 1880 -- **Smallpox**, esp. TX/517, Philadelphia/429, Camden NJ/47 Chicago/43, NY --1,281
621. 1911 -- **Diphtheria**, especially NYC, Chicago, Philadelphia, MA --1,281
622. 1915 -- **Diphtheria and Croup**, The Year, NYC, NY --1,278
623. 1942 -- **Diphtheria** --1,273
624. 1934 -- **Epidemic Cerebrospinal Meningitis**, int. list #18, *Mortality Statistics* --1,272
625. 1860 -- **Smallpox epidemics**, especially MA and NY 1,263-1,271
626. 1922 -- **Lethargic encephalitis**/sleeping sickness, int'l. list #23. *Mortality Stats. 1922* --1,268
627. 1936 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1936* --1,267
628. 1900 -- July-Aug (esp.) **Heat**, esp. NY/361, NJ/119, Chicago/102, St. Louis/90, PA/90-1,266
629. 1946 -- **Diphtheria**, infectious diseases International List No. 10 --1,259
630. 1946 -- **Cerebrospinal (meningococcus) meningitis** infections (Int. List No. 6) --1,257
631. 1946 -- **Whooping Cough**, International List No. 9 --1,241
632. 1817 -- June-Dec, **Yellow Fever**, esp. Charleston SC, Natchez MS, New Orleans-1208-1,233
633. 1994 -- **Influenza**, US death rate 0.47 per 100K; esp. SD/2.6; MT/1.7; IA/ 1.5; NE/1.22--1,229
634. 1913 -- **Heat**, esp. June 25-July 1, esp. PA/237, OH/178, MO/114, IL/92, NY/80 --1,226
635. 1938 -- **Scarlet Fever**, international list #8, Census Bureau. *Vital Statistics 1939*, Pt. I --1,206
636. 1996 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.45 per 100K, esp. DC, 1.92 --1,202
637. 1943 -- **Diphtheria**, infectious diseases International List No. 10 --1,196
638. 1945 -- Jan-Dec, **Polio**, especially July-Nov (Sept. peak) --1,186
639. 2020 -- excessive **heat**, natural sources; esp. AZ/522, CA/137, Clark Co., NV/124 --1,184
640. 1917 -- **Polio**, Census area (27 States/DC/43 cities), esp. Chicago/177 OH/128 VA/69, VT≥1,182
641. 2021 -- exposure to excessive **natural cold**/ICD-10 code X31, esp. AK/NM/IA/CO --1,179
642. 1941 -- **Malaria**. Census Bureau. *Vital Statistics, Part I, Mortality*, p. 150 --1,178
643. 1939 -- **Measles**, international list #35, Census Bureau. *Vital Statistics 1939*, Pt. I --1,174
644. 1997 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.43 per 100K, esp. HI, 0.99 --1,166
645. 1848 -- Dec, **Cholera**, New Orleans, also MS Riv., Paducah KY, NYC, Port Lavaca TX--1,159
646. 1943 -- **Polio**, especially late Summer and Fall, especially children --1,151
647. 1829 -- **Yellow Fever**, esp. FL, Mobile AL/130; Natchez MS/90; New Orleans LA/900-1,146
648. 1948 -- **Whooping Cough** --1,146
649. 1991 -- **Influenza**, US death rate 0.45 per 100K; esp. NE/2.38, ND/1.73, IA/1.54 --1,137
650. 1905 -- May 21-Nov, **Yellow Fever**, esp. LA (esp. New Orleans/455), Pensacola, MS-1,131
651. 1919 -- Sep 10-14, **Hurricane**, Florida Keys, Gulf & Corpus Christi area, TX 500-1,131
652. 1912 -- **Diphtheria**, NYC, NY --1,125
653. 1950 -- **Whooping Cough**, code 056 of 6th rev. of international lists, 1948 (US PHS)--1,118
654. 2019 -- Exposure to excessive natural **cold/hypothermia**, esp. MI/70 NY/65 PA/61 --1,115
655. 1998 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.40 per 100K, esp. LA, 0.72 --1,112
656. 2012 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.4; SD, 2.5 per 100K --1,106
657. 2006 -- **excessive natural heat**, esp. CA/194, AZ/169, NY/148, TX/106, IL/51, PA/50--1,104
658. 1675 -- Dec 19, English Colonists **Massacre** Narragansetts, Great Swamp, RI --365-1,100
659. 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):

660. 1984 -- **Influenza**, US death rate 0.46 per 100K, esp. MT, 2.3, OR/1.7, WA/1.4, AR/1.3 --1,096
661. 1925 -- **Meningococcus meningitis**, esp. NY/148, PA/79, IL/56, OH/53, MA/51 --1,095
662. 1872 -- **Cerebral Spinal Meningitis**, MA (esp. Boston), NYC, PA (esp. Philly) --1,090
663. 1901 -- **Smallpox**, esp. NY/436 (Bronx/312), PA/202 (Philly/178), NJ/139 (Newark/71)--1,085
664. 1912 -- **Polio**, acute anterior, code 63; Census “registration area” was 63.2% of pop.--1,081
665. 1772 -- **Measles** epidemics, Charleston, SC (800-900), Philadelphia, PA (180) --980-1,080
666. 1924 -- **Polio** (acute), especially late summer and fall, especially children --1,079
667. 1948 -- **Dysentery**, infectious and parasitic diseases ICD code 27 --1,078
668. 1939 -- June-Sep, **Heat**, esp. Sep 15-23, Los Angeles (546), TX (42), MO (37)⁴²--527-1,073
669. 1930 -- **Epidemic Encephalitis**, int. list infectious diseases code 17, Census. 1930 --1,062
670. 2011 -- excessive **natural heat**, esp. TX/183, AZ/177, PA/57, MO/52 IL/50 NY/45 --1,060
671. 1911 -- **Polio**, US registration area (63.1%), esp. OH/137, NY/101, PA/93, IN/69, KY/61--1,060
672. 1852 -- **Smallpox**, Nevada City, CA natives, NYC (407-516), Philadelphia/427--943-1,052
673. 1999 -- **excessive natural heat**, esp. IL/153, PA/97, MO/92, TX/63, AZ/58, NY/56 --1,050
674. 1993 -- **Influenza**, US death rate 0.40 per 100K; esp. ID 2.62; VE 2.42; MT 1.54; OR 1.37 --1,044
675. 1955 -- **Polio** (acute); all States, esp. MA/168 (Boston ~200), WI/166, NY/77, TX/76 --1,043
676. 1935 -- **Polio** (acute), especially late Summer-and Fall, especially children --1,040
677. 1870 -- May-Dec, **Yellow Fever**, esp. New Orleans/587 Mobile/173 Brunswick GA--1,038
678. 1904 -- June 15, Fire, **General Slocum** excursion steamer, East River, NYC, NY-957-1,031
679. 2018 -- exposure to excessive natural **cold/hypothermia**, esp. MN/36 CO/34 IN/35 --1,028
680. 1899 -- **Typhoid fever** epidemics/outbreaks, Greensboro, NC; PA, esp. Philadelphia-1,026
681. 1923 -- **Meningococcus meningitis**, int’l list #24. Census, *Mortality Statistics 1923*--1,026
682. 1940 -- **Polio**, Nationwide, especially IL, IN, IA, KS, MI, OH and WV --1,026
683. 1933 -- **excessive heat**, international list #191. Census Bur. *Mortality Statistics 1933* --1,025
684. 1938 -- **epidemic cerebrospinal meningitis**, international list #18, *Vital Statistics*, Pt. I--1,024
685. 1941 -- **Typhoid Fever**, Census Bureau. *Vital Statistics, Part I, Mortality*, p. 150 --1,022
686. 2018 -- **excessive natural heat**, esp. AZ/252, Clark Co., NV/163, CA/106, TX/89 --1,012
687. 1992 -- **Influenza**, US death rate 0.39 per 100K; esp. ME/1.94; MT/1.21; WV/1.27 --1,006
688. 1633-34 -- **Smallpox epidemic**, New England Natives, Plymouth Colonists, MA >1,000
689. 1663 -- **Smallpox**, Fort Orange, NY and Northern “NY” Native American Tribes --1,000
690. 1677-78 -- **Smallpox epidemic**, Massachusetts Bay Colony --1,000
691. 1818 -- Sep 12-14, **Hurricane**, Galveston, TX <1,000
692. 1833 -- early Aug-early Nov, **Yellow Fever epidemic**, New Orleans, LA --1,000
693. 1861-62 -- winter-spring, **Flooding**, CA, OR, WA, British Columbia ~1,000
694. 1918 -- Oct 12-15, **Forest Fire**, Cloquet-Moose Lake, MN/WI 400-1,000
695. 1927 -- Apr-May, rain, MS River **Flood**/levee breaks, MS, AR, LA, KY, MO --246-1,000
696. 1721-22, Apr-Apr, **Smallpox**, Massachusetts Colony, esp. Boston & Charlestown--944-991
697. 1731 -- **Smallpox epidemics**, New York City (548-700) and Philadelphia (288) --836-988

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.”

698. 1796 -- **Yellow Fever**, esp. Charleston, SC/300, New Orleans/250-400; Wilmington, NC/150--836-986
 699. 1954 -- **Heat** (esp. July), esp. MO/235, OK/178, KS/139, TX/95, IL/50, GA/39 --978-984
 700. 1961 -- **Hepatitis**, infectious -- 976
 701. 1931 -- **Epidemic Encephalitis**, int. list infectious diseases code 17, Census Bur. 1931 -- 972
 702. 1924 -- **meningococcus meningitis**, int'l list #24. Census Bur., *Mortality Statistics* 1924--964
 703. 1848 -- **Yellow Fever**, Mobile AL~76, New Orleans/850-872, NY Marine Hosp./12 --937-960
 704. 1951 -- **whooping cough**/pertussis, esp. TX/110, GA/86, MS/72 NC/52 VA/48 AL/45--960
 705. 1864 -- Feb-Jun 1865 (17 mo.), **pneumonia/pleurisy**, Confederate POWs, Camp Chase OH--954
 706. 1946 -- **Dysentery**, infectious and parasitic diseases International List code 27 -- 952

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

707. 1949 -- **Measles** (code 085); PHS, *Vital Statistics...*[US] 1949, *Part II...Mortality* -- 949
 708. 1955 -- Aug 31--Sep 9, **Heatwave**/excessive **deaths**, greater Los Angeles, CA⁴³ --115-946
 709. 1887 -- **Yellow Fever**, esp. Fernandina and Tampa, FL and New Orleans, LA -- 941
 710. 1760 -- **Smallpox epidemic**, Charleston SC (also undocumented Native deaths) --730-940
 711. 1952 -- **Dysentery**, infectious, all forms (codes 045-048), esp. TX/249 MS/71 KY/61 GA/46--939
 712. 2005 -- **excessive natural heat**, esp. AZ/244, NYC/~140, TX/111 CA/64, MD/47, NV/43--939
 713. 1960 -- **Hepatitis**, infectious -- 938
 714. 1876 -- **Smallpox epidemic**, Cincinnati, OH -- 934
 715. 1999 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.333 per 100K, esp. NM, 0.608 -- 930
 716. 2014 -- Exposure to excessive natural **cold/hypothermia** esp. PA IL NY OH MT NM-- 930
 717. 1988 -- **Heat**, Summer (esp.); esp. IL/341, MI/121, IN/~44, MO/~44, CA/37 --913-921
 718. 2020 -- Exposure to excessive **natural cold**; ICD-10⁴⁴ code X31, esp. AK/NM/CO/MN--919
 719. 1947 -- **cerebrospinal (meningococcus) meningitis infections** (Int. List No. 6) -- 917
 720. 1949 -- **Meningococcal infections** (code 057) ; *Vital Statistics...*[US] 1949, *Part II* -- 917
 721. 1849 -- Aug-Dec, **Yellow Fever**, Charleston SC, Mobile AL, New Orleans -- 912
 722. 2019 -- Exposure to **excessive natural heat**, esp. AZ/283, TX/101, NV/88 --911-915
 723. 1851 -- **Smallpox**, esp., NYC/562-586, Philadelphia/316; Augusta GA/7, Chicago/5 --895-909
 724. 1875 -- **Croup and Diphtheria**, MI (374) and Hudson County, NJ (533) -- 907
 725. 1756 -- **Smallpox epidemic**, Philadelphia --800-900

 726. 1916 -- June 18-Aug 22, **Heat Waves**, esp. Chicago, Detroit, Milwaukee, St. Louis -- ~895
 727. 1922 -- **Meningococcus Meningitis**, int'l list #24. *Mortality Statistics* 1922 -- 895
 728. 1948 -- **Measles**, 1948 ICD infectious and parasitic diseases code 35 -- 888
 729. 1953 -- **Dysentery**, infectious, all forms (codes 045-048), esp. TX/268, MS/52, GA/41-- 886
 730. 2012 -- **excessive heat**, esp. AZ/209, CA/66, TX/62, IL/54, MO/54, MD/46, VA/24 -- 879
 731. 1966 -- **Meningococcal infections**, esp. CA/109, TX/59, OH/50, NY/40, NC/38 -- 876
 732. 1924 -- **Smallpox**, international list #6, Census Bureau. *Mortality Statistics* 1924 -- 874
 733. 1932 -- **Epidemic Encephalitis**, int. list infectious diseases code 17, Census Bur. 1932 -- 874
 734. 2010 -- **excessive natural heat**, esp. AZ/228, TX/64, CA/46, NV/46, TN/45, PA/37 -- 874
 735. 1948 -- **Cerebrospinal (meningococcus) meningitis infections** (code 6, ICD 1, 1948)--873

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.

⁴⁴ Tenth revision of International Classification of Diseases.

736.	1947 --	Dysentery , infectious and parasitic diseases Int. List code 27	-- 869
737.	1913 --	Polio , acute, esp. June-Sep (Sep peak), US “registration area” (65.1% pop.)	-- 864
738.	1939 --	cerebrospinal meningitis , int. list #6, Census Bureau. <i>Vital Statistics 1939</i> , Pt. I--	863
739.	1850 --	Jan-Oct, Yellow Fever , esp. Jefferson/Orleans Parishes/New Orleans, LA & SC ⁴⁵ --	862
740.	1942 --	Malaria . Census Bureau. <i>Vital Statistics...1942 -- Part II...Mortality</i>	-- 861
741.	1939 --	Scarlet Fever , international list #8, Census Bureau. <i>Vital Statistics 1939</i> , Pt. I--	853
742.	1934 --	Polio (acute), especially late summer and fall, especially children	-- 852
743.	1926 --	Polio (acute), especially late summer and fall, especially children	-- 851

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

744.	1809 --	Yellow Fever , esp. Brooklyn/NYC (42); New Orleans (civilian/military; ~800)	-- 850
745.	1923 --	Polio (acute), especially late summer and fall, especially children	-- 850
746.	2006 --	Influenza , ICD-10 codes J09-11; US death rate 0.285 per 100K; esp. VE (1.605)	-- 849
747.	1796 --	Scarlet Fever epidemic (especially children), Marblehead, MA and esp. VT--	681-846
748.	1915 --	July 24, crowded SS steamer Eastland rolls-over at dock, Chicago, IL	--812-844
749.	1967 --	Infectious Hepatitis	-- 844
750.	1947 --	Encephalitis , acute infectious, Int. List infectious diseases code 37	-- 830
751.	1932 --	Polio (acute), especially late summer and fall, especially children	-- 828
752.	1937 --	Excessive Heat , international list #191. Census Bureau. <i>Vital Statistics, Part I</i> --	826
753.	1837 --	Scarlet Fever , Boston, MA, New York City, NY, Philadelphia, PA	-- 823
754.	2017 --	exposure to excessive natural heat , esp. AZ/264, NV/235, CA/93, TX/40	-- ≥ 817
755.	2015 --	Exposure to excessive natural cold/hypothermia , esp. PA NY OH AK NM	-- 815
756.	1929 --	Polio (acute), especially late summer and fall, especially children	-- 812
757.	1805 --	Yellow Fever , esp. NYC/270-340, Philly/300-400, Providence, RI/10, SC/ ≤ 59 --	750-809
758.	1941 --	Polio , especially late summer and fall, especially children	-- 807
759.	2017 --	Exposure to excessive natural cold/hypothermia , esp. AK WA MN CA MI	-- 804
760.	1599 --	Jan 21, Spanish (Oñate) Massacre Acoma Natives, punitive expedition, NM--	300-800
761.	1795 --	July 19–Oct 12, Yellow Fever epidemic, NY City, also Providence RI	~745-800
762.	1833 --	Malaria Epidemic, ConCow Maidu Villages, Butte County, CA vicinity	-- ~800
763.	1926 --	Sep 16–21, Great Miami Hurricane , Cat 4, FL, MS, AL ⁴⁶	-- ~800
764.	1947 --	Diphtheria , infectious diseases Int. List No. 10	-- 799
765.	1933 --	Polio (acute), especially late Summer and Fall, especially children	-- 797
766.	1925 --	Mar 18, Tornadoes , esp. Tri-State Tornado (IL/IN/MO) 695; AL/KY/TN	--740-792
767.	1922 --	Polio (acute), especially late Summer and Fall, especially children	-- 790
768.	1944 --	Dec 18, three ships capsize , Navy Task Force 38, , typhoon off Philippines--	~790
769.	1940 --	excessive heat , international code 191. Census Bureau. <i>Vital Statistics 1940</i> --	787
770.	1879 --	June-Dec, Yellow Fever , Forest City, AR, Louisiana, MS, Memphis, TN--	682-786
771.	2016 --	exposure to excessive natural heat , esp. AZ (219), NV (89), CA (70), TX/86--	786
772.	1864 --	Cerebrospinal Meningitis epidemic, Carbondale & Philadelphia PA	-- 784
773.	2002 --	Tuberculosis , ICD-10 code A16-19, death rate .273 per 100K, esp. AR, .443--	784
774.	1936 --	Polio (acute), especially late Summer and Fall, especially children	-- 780
775.	1862 --	Aug 17-23 especially, Dakota “insurrection,” southcentral MN; also IA	--750-779

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

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

776. 2000 -- **Tuberculosis**, ICD-10 code A16-19; death rate 0.276 per 100K, esp. LA, 0.559 -- 776
 777. 1864 -- July-June 1865 (12 mo.), **pneumonia/pleurisy**, Confederate POWs, Elmira NY--773
 778. 1939 -- **Polio**, especially late Summer through Fall, especially children -- 773
 779. 1920 -- **Polio** (33 "registration states), especially young children -- 769
 780. 2001 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.268 per 100K, esp. DC, 1.741 -- 764
 781. 1861 -- **Smallpox epidemic**, Philadelphia, PA -- 758
 782. 1854 -- **smallpox**, esp. Charleston SC/59, Chicago/12, Jacksonville FL/~15, NYC/624, Philly/40-- 750

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

783. 1919 -- **Polio** (acute). Especially late Summer and Fall, especially children -- 747
 784. 1824 -- **Smallpox epidemics**, NYC, NY, Philadelphia, PA, Sandusky, OH --740-745
 785. 1852 -- **Yellow Fever epidemics**, Charleston SC, New Orleans, Savannah GA -- 745
 786. 1996 -- **Influenza**, ICD-9 code 487; US death rate 0.276 per 100K; esp. SD (1.616) -- 745
 787. 2000 -- exposure to excessive natural **cold/hypothermia**; ICD-10 code X31, esp. PA/48--742
 788. 1911 -- **Scarlet Fever**, NYC, NY -- 741
 789. 1911 -- Oct-June 8, 1912, **Cerebrospinal Meningitis** Epidemic, esp. TX , OK, MO -- 740
 790. 2016 -- Exposure to excessive natural **cold/hypothermia**, esp. AK CA MI MT OH SD-- 731
 791. 1935 -- **Excessive Heat**, int. list #191. Census Bureau. *Mortality Statistics 1935* -- 728
 792. 1949 -- **Whooping Cough**, Public Health Service. *Vital Statistics...[US] 1949, Part II*--727
 793. 1982 -- **Influenza**, US death rate 0.31 per 100K, esp. NE/1.78, SD/1.74, ND/1.34 -- 727
 794. 2002 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.253 per 100K; esp. SD (2.237)-- 727
 795. 2013 -- Exposure to excessive natural **cold/hypothermia**, esp. IL NY PA MN AZ WI--725
 796. 1914 -- **Polio** (acute anterior), esp. late sum.-fall, esp. children, esp. NY/88, PA/65, VT/54--720
 797. 1997 -- **Influenza**, ICD-9 code 487.0; US death rate 0.26 per 100K; esp. KS (0.99) -- 720
 798. 1941 -- **Cerebrospinal Meningitis** -- 713
 799. 1864 -- **Smallpox**, Fort Alton IL, Chicago/283, Philly/260, Northern VA/112, SC, DC-- 712
 800. 1938 -- Sep 21, Long Island, NY & New England **Hurricane**, esp. RI, MA, CT --682-712
 801. 2003 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.25 per 100K, esp. LA, 0.49 -- 711
 802. 2007 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 X31 code; esp. NY/53--711
 803. 2010 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31 -- 710
 804. 1925 -- **Smallpox**, esp. MN/196, WI/134, CA/59, NJ/48, OH/47, IA/42, PA/29, IL/23-- 709
 805. 1940 -- **Measles**, international code number 35. Census Bureau. *Vital Statistics 1940*-- 706
 806. 1637 -- May 27, **Massacre**, Eng. Colonists Attack Pequot village, Mystic Riv. CT--400-700
 807. 1644 -- Feb, Dutch / Eng. **Massacre**, Siwanoy, Petuquapaen, ~Cos Cob, CT⁴⁷ --500-700
 808. 1881 -- Aug 27, **Hurricane**, Cat 2, Savannah (Georgia-South Carolina) -- 700
 809. 2005 -- exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. MI/40-- 700

 810. 1862 -- Feb-June 1865, **Diarrhea & Dysentery**, Confederate POWs, Camp Douglas, IL- 698
 811. 1940 -- **cerebrospinal meningitis**, Census Bureau. *Vital Statistics II, 1940, Mortality*, 210--694
 812. 1881 -- **Typhoid Fever**, Birmingham AL, Washington DC, Minneapolis, NYC -- 692
 813. 1848 -- **Smallpox**, esp. New York City, NY/585 and Philadelphia, PA/100 -- 691
 814. 1915 -- **Polio**, esp. late summer-fall, US registration area (67-1% pop.) esp. children-- 691
 815. 1932 -- **Excessive Heat**, international list #191. Census Bur. *Mortality Statistics 1932*--689
 816. 1951 -- **Measles**, esp. TX/102, KY/43, OH/39, CA/37, IL/31, MO/30, PA/26, OK/25-- 688

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

817. 1881 -- July 6-16 esp., **heat**/sunstroke, esp. OH/585 (Cincinnati/456), also Pittsburgh -- ≥687
818. 1996 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901; esp. PA/43--685
819. 2004 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. PA/45--676
820. 2011 -- Exposure to excessive natural **cold/hypothermia**; 0.2 death rate; esp. AK, SD-- 672
821. 1912 -- **Measles**, New York City, NY -- 671
822. 1913 -- March 23-27, Ohio Valley **Flooding**, dam/levee failures, esp. OH, IN --593-670
823. 1940 -- **Scarlet Fever**, Census Bureau. *Vital Statistics, Part II, 1940, Mortality*, p.210-- 668
824. 1917 -- summer to fall (esp.), **Excessive Heat**, New York City (530), State of NY -- 665
825. 1911 -- **Measles**, New York City, NY -- 659
826. 2004 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.22 per 100K, esp. KY, 0.36 -- 657
827. 1809 -- May-Feb 1810 -- **Disease/Illness**, U.S. Army, MS -- 656
828. 1954 -- **Dysentery**, infectious, all forms (codes 045-048), esp. TX/172 and MS/61 -- 655
829. 1928 -- **Excessive Heat**, international list #194. Census Bur. *Mortality Statistics 1928*--654
830. 1941 -- **Excessive Heat**, International List #191, Census Bureau. *Vital Statistics* -- 654
831. 1978 -- Exposure to excessive natural **cold/hypothermia** (ICD-8 E901), esp. OH/39 -- 652
832. 2006 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.22 per 100K, esp. AR/.35, LA/.33-- 652
833. 2013 -- **Excessive natural Heat**, esp. AZ/151, NV/80, CA/67, TX/53, NY/42, IL/23-- 651
834. 1862 -- Aug 17-Sep, **Violence, Sioux "Insurrection,"** Litchfield, elsewhere, MN--300-650

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

835. 2005 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.22 per 100K, esp. LA, 0.39 -- 648
836. 1926 -- **Excessive Heat**, international list #194. Census Bur. *Mortality Statistics 1926*--646
837. 1943 -- **Malaria**, Bureau of Census. *Vital Statistics...1943, Part II...Mortality*. P. 192-- 646
838. 2002 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. PA/47-- 646
839. 1863 -- Aug-Jun 1865, **Diarrhea & Dysentery**, Confederate POWs, Fort Delaware, DE--644
840. 1946 -- **Encephalitis**, acute infectious, International List infectious diseases code 37-- 642
841. 1993 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901 code, esp. MI/42-- 641
842. 2008 -- exposure to excessive natural **cold/hypothermia**; ICD-10 code X31, esp. MI/45-- 641
843. 1967 -- **Meningococcal infections** -- 635
844. 1948 -- **Diphtheria**, infectious diseases code 10 -- 634
845. 1977 -- **cold/hypothermia**, exposure to excessive natural (ICD-8 E901); esp. OH/43-- 634
846. 1994 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901, esp. NY/38--633
847. 1987 -- **Influenza**, death rate 0.26 per 100K; esp. NE/1.02 (16), SD/1.29 (9), VE/1.11 (6) -- 632
848. 1915 -- **Measles**, New York City, NY -- 630
849. 1922 -- **Smallpox**, int'l. list #6, *Mortality Statistics 1922*, esp. Denver, CO (273) -- 628
850. 2002 -- **excessive natural heat**, esp. AZ/130, TX/62, PA/56, IL/54, MD/50, CA/44 -- 626
851. 1794 -- **Yellow Fever** epidemics, Baltimore, MD, and New Haven, CT -- 624
852. 1952 -- **Measles**, 24 states double digits, esp. PA/49, NY/48, AL&TN/40 IN&KY/30 IL/25- -621
853. 2003 -- Exposure to excessive natural **cold/hypothermia**; ICD code X31, esp. PA/46-- 620
854. 1982 -- **HIV AIDS**, U.S. -- 618
855. 1897 -- July 1-11, **heat**, esp. upper midwest/NE, esp. Chicago/Cincinnati/St. Louis --608-616
856. 2009 -- Exposure to excessive natural **cold/hypothermia** (ICD-10 code X31) -- 616
857. 1912 -- **Scarlet Fever**, New York City, NY -- 615
858. 1955 -- excessive natural **heat** (US Public Health Service code E931) -- 615
859. 2021 -- **Influenza** (distinct from 41,309 pneumonia deaths); death rate 0.18, esp. TN/0.60--608
860. 1995 -- **Influenza**, ICD-9 code 487.0; US death rate 0.23 per 100K; esp. WV, 1.32 -- 606

861. 1979 -- **Influenza**, US death rate 0.27 per 100K, esp. ID/1.18, NE/1.15, KS/.98, WA/.85--604
 862. 1903 -- Dec 30, **fire, suffocation, trampling**, Iroquois Theater, Chicago, IL -- 602
 863. 2021 -- **tuberculosis**, ICD-10 codes A16-A19, esp. CA/106, TX/58, FL/36, NY/36 VA/22--602
 864. 1835 -- Apr-Aug, **Cholera**, esp. Madison, IN; KY, esp. Russellville; New Orleans, TN--590-601

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

865. 1559 -- Sep 19-20, **hurricane**, Spanish ships and colonists, west coast of FL --?-600
 866. 1759 -- **Smallpox** epidemic, Philadelphia --500-600
 867. 1853 -- Burnt Ranch **massacre**, Settlers kill Tolowa, Yontocket, Smith Riv., No. CA --450-600
 868. 1873 -- Aug 14-27, "Nova Scotia" **Hurricane**, off East Coast -- >600
 869. 1928 -- Mar 12, **St. Francis dam failure, drownings**, Ventura County, CA --400-600
 870. 1947 -- Apr 16-17, **Grandcamp ammonium nitrate explosion**, Texas City, TX --581-600
 871. 2020 -- **Tuberculosis**, ICD-10 codes A16-A19; esp. CA/119, TX/66, NY/36, FL/30-- 600
 872. 1853 -- **Cholera**, New Orleans (554-585); Choctaw on Arkansas River, OK/14 --568-599
 873. 2001 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. MI/29-- 599
 874. 1999 -- exposure to excessive natural **cold/hypothermia**; esp. NY/36, PA/36 -- 598
 875. 1983 -- July-Aug esp., **heat** (esp. July 15-30) esp. MO/70 KY/57 IL/53 GA/35 TX/35-595-597
 876. 1990 -- Exposure to excessive **natural cold/hypothermia**; ICD9 code E901; esp. IL/45--596
 877. 1863 -- Nov 23-Mar 27 1865 (16 mo.), **Dysentery**,⁴⁸ Union POWs, Prison Hosp., Danville VA-592
 878. 1844 -- **Yellow Fever** epidemic, Galveston, TX; Mobile, AL; New Orleans, LA -- 590
 879. 1991 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901 code, esp. IL/63-- 588
 880. 2008 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.19; esp. MS (above avg. rate) -- 585
 881. 2005 -- June-Aug esp., **Heat**, esp. AZ/244 TX/112 MD/47 PA/26 MO/25 NV/17 -- 584
 882. 2007 -- **excessive natural Heat**, esp. AZ/134, CA/74, TX/43, MO/39, TN/34, SC/26-- 582
 883. 1823 -- July-Nov 1, **yellow fever** epidemic, Natchez & vicinity, MS, New Orleans -- 581
 884. 1873 -- **Scarlet Fever**, especially children, MI -- 580
 885. 1944 -- **Malaria**, infectious and parasitic diseases International List code 28 -- 580
 886. 1947 -- **Polio** -- 580
 887. 1936 -- **Excessive Cold**, international list #190. Census Bureau. *Mortality Statistics 1936*--579
 888. 1953 -- **Heat**, esp. Aug 22-Sep 5, esp. MO/71, NY/43, TX/41, PA/40 -- 576
 889. 1949 -- **Diphtheria**, code 055 -- 574
 890. 1702 -- summer to late fall, **Yellow Fever** epidemic, New York City, NY --500-570
 891. 1948 -- **Encephalitis**, acute infectious (viral), 1948 ICD infectious diseases code 37 -- 570
 892. 1752 -- early in year through at least Sum., **smallpox** epidemic, Boston, MA --535-569
 893. 1909 -- **Polio** (acute), especially MA (74), MN (30), NE (135), and ND (19) -- 569
 894. 2010 -- **Tuberculosis**, esp. AL, CA, KY, TX (above avg. death rate) -- 569
 895. 2015 -- exposure to **excessive natural heat**, esp. AZ/139; NV/69, TX/64, CA/51 -- 567
 896. 1956 -- **Polio**, especially late summer and fall, especially children -- 566
 897. 1872 -- **Scarlet Fever**, especially children, MI -- 565
 898. 1854 -- Sep 27, **US Mail steamer Arctic** hit by *Vesta*, Fog, Cape Race, NFLD --318-562
 899. 1802 -- **Yellow Fever** epidemics, Wilmington DE, MD, MA, Philadelphia, NH, SC -- 561
 900. 1942 -- **Polio**, especially late summer and fall, especially children -- 561
 901. 1949 -- **Hepatitis**, infectious (code 092); PHS. *Vital Statistics...1949...Mortality* -- 560

⁴⁸ "Diarrhoea and Dysentery."

902. 1918 -- Oct 12, **forest fires**, Cloquet, Moose Lake, many towns, northeast MN --453-559
 903. 1992 -- Exposure to excessive natural **cold/hypothermia** (ICD9 code E901), esp. PA/37--558
 904. 2009 -- **Excessive natural heat**, esp. AZ/156, TX/79, CA/63, FL/39, IL/21 -- 555
 905. 2013 -- **Tuberculosis**, ICD-10 Code A16-A19, especially CA (133) and TX (61) -- 555
 906. 2007 -- **Tuberculosis**, death rate 0.184 per 100K, esp. TN/.389 above avg. -- 554
 907. 1995 -- exposure to excessive natural **cold/hypothermia** (ICD9 code E901); esp. IL/41-- 553
 908. 1868 -- July 6-18, **excessive heat/sunstroke**, esp. NY/313, St. Louis/45, OH/42 -- 552
 909. 1950 -- **Hepatitis**, infectious, code 092, 6th rev. of International Lists/1948, US PHS-- 552
 910. 1958 -- **Measles**, esp. TX/50, OH/36, IL/34, NY/NC/PA/28 each, KY, 23, IN/20 -- 552
 911. 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):

912. 1888 -- July-Dec, **Yellow Fever** epidemic, FL esp. Jacksonville/430; Decatur AL/35-- 546
 913. 2018 -- **Tuberculosis**, ICD-10 codes A16-A19, esp. CA/100, TX/50, NY/39, FL/38 -- 542
 914. 1947 -- **Heat**, excessive, International list code 191 -- 540
 915. 2011 -- **Tuberculosis**, ICD-10 Code A16-A19, esp. CA (108), NY, SC (above avg. DR)-- 539
 916. 2001 -- **excessive natural Heat**, esp. AZ/74, TX/59, MO/41, IL/38, FL/30, CA/29, PA/28--538
 917. 1875 -- **Scarlet Fever**, Michigan and Hudson County, NJ -- 537
 918. 1936 -- Jan-Feb, **Arctic cold waves, snow, blizzards, snowslides**, flooding⁴⁹ --484-536
 919. 1945 -- **Typhoid Fever** (471), Int. List No. 1; paratyphoid fever (63), Int. List No. 2-- 534
 920. 1699 -- **Yellow Fever** epidemics, Charleston, SC (170-311); Philadelphia (220) --390-531
 921. 1927 -- **Excessive Heat**, international list #194. Census Bur. *Mortality Statistics 1927*--530
 922. 1956 -- **Measles**, 21 states double digits, esp. IL/41 TX/31 OH/30 NC/29 PA/28 MI/26-- 530
 923. 1923 -- **Excessive Heat**, international list #193. Census Bur. *Mortality Statistics 1923*--529
 924. 2009 -- **Tuberculosis**, ICD-10 code A16-19, esp. CA, LA, OK, TX (above avg. death rate)-- 529
 925. 1939 -- **Excessive Heat**, international list #191. Census Bureau. *Vital Statistics*, Part 1--527
 926. 2019 -- **Tuberculosis**, ICD-10 codes A16-A19, esp. CA/112, TX/54, NY/37, FL/35 -- 526
 927. 1954 -- **Measles**, 21 states double digits, esp. NY/36, TX/36, NC/35, PA/34, KY/27 -- 524
 928. 1989 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901.0; esp. IL/45--524
 929. 1897 -- Sep-Dec, **Yellow Fever**, esp. Mobile/48, New Orleans/298, MS, Memphis -- ~520
 930. 1903 -- June-Aug (esp. July 1-11), **Heat**, esp. NY/144, NJ/60, IN/17, Chicago/15, CT/18 -- 520
 931. 1985 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901.0; esp. IL/39 -- 519
 932. 2006 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. MI/37--519
 933. 2017 -- **Tuberculosis**, IDC-10 code A16-19, esp. CA/108 TX/49 NY/31 PA/22 NJ/21-- 515
 934. 1915 -- Aug 16-17/19-20, **Hurricane**/trop. storm, Gulf, SE TX coast, remnant, MO--453-510
 935. 1983 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901.0; esp. GA/36-- 510
 936. 2012 -- **Tuberculosis**, ICD-10 Code A16-A19, especially CA (101) and TX (63) -- 510
 937. 1920 -- **Smallpox**, 34 registration states, esp. LA/167, MS/45, MO/28, NC/28⁵⁰ -- 508
 938. 1913 -- **Scarlet Fever**, NYC, NY -- 507
 939. 1730 -- **Smallpox** epidemic, Massachusetts Bay Colony, especially Boston -- ≥ 502
 940. 2008 -- **Excessive natural heat**, esp. AZ/112, TX/66, CA/51, PA/36, NV/35, NC/25-- 502
 941. 1997 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901; esp. IL/36-- 501

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

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.

942. 2012 -- Exposure to excessive natural **cold/hypothermia**; esp. CA/32 NY/31 IL/25 -- 501

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

943. 1644 -- Apr 18 (or Mar 18), **Powhatans attack** English colonists along James River VA--400-500
944. 1690 -- spring-fall, **Smallpox**, Iroquois Native Americans, esp. upper NY ~300-500
945. 1793 -- **Influenza** epidemic, VA, 5 counties, 4 weeks -- 500
946. 1804 -- GA, SC, NC **Hurricane**, September 7-9 -- 500
947. 1811 -- **Yellow Fever** epidemic, New Orleans, LA -- >500
948. 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
949. 1864 --July 30, **Rebels kill wounded/surrendered/trapped black soldiers**, Petersburg, VA~500
950. 1864 -- Sep, general **Massacre** of Yana Natives, Northern CA -->335-500

951. 1865 -- Mar 31, steam transport **General Lyon** burns, Cape Hatteras, NC --400-500
952. 1881 -- Sep 01-06, **Wildfire**, “The Thumb Fire,” Lower Michigan --169-500
953. 1888 -- Jan 11-12, Schoolchildren’s **Blizzard**, IA/KS/ND/MN/MT/NE/SD/TX --315-500
954. 1898 -- Nov 26-27, **Portland Gale**, **SS Portland sinks** (Cape Ann MA), New Eng.⁵¹-400-500
955. 1929 -- **Excessive Heat**, international list #194. Census Bur. *Mortality Statistics 1929*--500
956. 2010 -- **Influenza**, ICD-10 codes J09-J11; US death rate 0.2 per 100K; esp. AK, KS (.4) -- 500

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