

## **MORTALITY**

**Large Loss-Of-Life Events Arranged by**

### **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 -- 801 such entries noted as of**

**November 27, 2024**

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

**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)<sup>1</sup>

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

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<sup>1</sup> 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:**

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

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

<b>Disease:</b>	<b>100</b>	
<b>Tuberculosis</b>	<b>31</b>	<b>(Sampling)</b>
<b>Influenza/Pneumonia</b>	<b>27</b>	<b>(Sampling)</b>
Diphtheria	10	
HIV/AIDS	6	
Cholera	5	
Typhoid Fever	5	
Coronavirus	4	
Malarial Fever	4	
Croup	3	
Scarlet Fever	3	
Whooping Cough	3	
Yellow Fever	3	
Diarrhea & Dysentery	2	
Small Pox	2	
Unknown	2	
Measles (1 cross-listed)	1	
Meningococcal Meningitis	1	
Syphilis	1	
<b>Other Than Disease</b>		
<b>Hurricanes:</b>	<b>1</b>	

### 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 OK<sup>2</sup> ~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 MI<sup>3</sup> --1,228-2,400

<sup>2</sup> Also referred to as Cherokee Trail of Tears as well as a “forced-march” relocation. Geographic area of coverage comes from sources in Narrative document and map in Thornton (1990) from Morris, Goins and McReynolds ([1965] 1986:20), entitled “The Trail of Tears.” Shows two Cherokee relocation routes from area encompassing north/northwest GA, southwest NC, southeast TN and northeast AL. One route is northwest through TN into KY, westward to southern IL, then down into southeastern MO, into northern Ark. and then westward into OK. Second route was westward through TN and AR to OK.

<sup>3</sup> 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 MI<sup>4</sup> 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 & MS<sup>5</sup> ≥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 OK<sup>6</sup> ~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**, NOLA<sup>7</sup> ~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**, NOLA<sup>8</sup> ~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

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

<sup>5</sup> 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.

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

<sup>7</sup> 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.

<sup>8</sup> 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)<sup>9</sup> >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):<sup>10</sup>

1. 1906 -- Apr 18, Earthquake, Fire, Landslides, San Francisco & vicinity, CA<sup>11</sup> --3,000-5,000
2. 2001 -- Sep 11, World Trade Center Terrorist Attack and Fires, NYC, NY<sup>12</sup> --2,666
3. 1871 -- Oct 8-9, Wildfire/Firestorm, Peshtigo/NE WI vic.; Birch Creek MI<sup>13</sup> --1,228-2,400
4. 1865 -- Apr 27, Steamer *Sultana* explodes/burns, MS. Riv., Redman Point, AR<sup>14</sup>-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, IL<sup>15</sup> -- 602
7. 1947 -- Apr 16, Ammonium Nitrate Explos., Fire, *Grandcamp*, Texas City, TX<sup>16</sup> --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, MA<sup>17</sup> -- 492

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<sup>9</sup> 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).

<sup>10</sup> 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.)

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

<sup>12</sup> Cross-listed in Violence-Terrorism section.

<sup>13</sup> 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).

<sup>14</sup> 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.

<sup>15</sup> Cross-listed in Violence-Crushing, Trampling, Suffocation.

<sup>16</sup> Cross-listed in Explosions and in Maritime.

<sup>17</sup> 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 <b>diseases</b>	~2,800,000
2.	1918 -- <b>Influenza and Pneumonia</b> epidemic	430,000-543,482
3.	2021 -- <b>COVID-19</b> (coronavirus), US deaths per 1M pop., ~2.6K per million	--437,984
4.	2020 -- Feb 29-Dec 31, <b>Coronavirus</b> , U.S. deaths per 1M population, 1,070	--354,215
5.	1920 -- <b>Influenza</b> and Pneumonia (1918-1920 subset)	141,609-220,798
6.	2022 -- <b>COVID-19</b> /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 -- <b>Influenza and Pneumonia</b> epidemic	--101,851-185,440
8.	1931 -- <b>Influenza</b> (31,701) and <b>Pneumonia</b> , all forms (96,974), especially PA	128,675
9.	1957-58, esp. Fall-Spring -- <b>H2N2 “Asian” Influenza and Pneumonia</b> Pandemic	~116,000
10.	1917 -- <b>Influenza</b> /12,974; <b>Bronchitis</b> /12,311; <b>Pneumonia</b> /74,874	100,159-115,526
11.	1900 -- <b>Tuberculosis</b> , esp. CA, IL, IN, KY, MA, MO, NJ, NY, OH, PA, TN	109,750
12.	1920 -- <b>Tuberculosis</b> , esp. Denver, San Antonio, Nashville, New Orleans	99,916
13.	1939 -- <b>Influenza</b> (21,464) & <b>Pneumonia</b> , esp. CA, IL, MI MO, NY, OH, PA, TX	99,097
14.	1861-65--Apr-June, <b>Dysentery</b> , Civil War, apparently Union & Confederate forces	~95,000
15.	1940 -- <b>Influenza and Pneumonia</b> , esp. CA, IL, MO, NY, OH, PA, TN, TX	92,525
16.	1879 -- June-May 1880, <b>Tuberculosis</b> , esp., NY, PA, OH, IL, IN, TN, KY, MA	91,270
17.	1925 -- <b>Tuberculosis</b> , esp. NY/10,282, PA/7,300, CA/5,934, IL/5,537, OH/4,819	89,268
18.	1775-82 -- <b>Smallpox</b> epidemic North America	~84,000
19.	1931 -- <b>Tuberculosis</b> , esp. PA/10,857, NY/8,618, CA/5,308, OH/4,253, TN/2,962	81,395
20.	1907 -- <b>Tuberculosis</b> , esp. CA/Chicago, IN/MA/NY (esp. NYC)/PA (esp. Philly)	76,650
21.	2023 -- <b>COVID</b> (354K deaths/2020; 438K/2021; 217K/2022; 1.19M 2020-2023)	71,691
22.	1870 -- <b>Tuberculosis</b> (consumption), nationwide	69,896
23.	1936 -- <b>Tuberculosis</b> (respiratory system), int. list #23, <i>Mortality Statistics 1936</i>	65,043
24.	1861-65--Apr 12-June 30; <b>Typhoid Fever</b> , Civil War, Confederate/Union forces	~65,000
25.	1937 -- <b>Tuberculosis</b> (respiratory system), international list #23, <i>Vital Statistics Pt. I</i>	63,330
26.	1939 -- <b>Tuberculosis</b> , nationwide, esp. CA, IL, NY, OH, PA, TN, TX	61,609
27.	1941 -- <b>Tuberculosis</b> (all forms)	59,251
28.	1938 -- <b>Tuberculosis</b> (respiratory system), international list #23, <i>Vital Statistics Pt. I</i>	58,027
29.	1942 -- <b>Tuberculosis</b> ; Census Bureau. <i>Vital Statistics of US 1942 -- II...Mortality.</i>	57,690
30.	1943 -- <b>Tuberculosis</b> , all forms codes 13-22 (respiratory, code 13 was 52,407)	57,005
31.	1905 -- <b>Tuberculosis</b> (10 registration states, DC, 134 non-registration cities), esp. NY-56,770	
32.	1940 -- <b>Tuberculosis</b> , nationwide, especially CA, IL, NY, OH, PA and TX	55,576
33.	1944 -- <b>Tuberculosis</b> , nationwide, esp. CA, IL, MI, NJ, NY, OH, PA, TN, TX	54,731
34.	1849 -- <b>Cholera</b> , esp. OH (>7K); NY (>6K); Gold Rushers (~5K); Natives (~6K) <sup>18</sup> >45K-	51,428
35.	1928-29 -- Winter, <b>Influenza and Pneumonia</b> epidemic	~50,000
36.	1860 -- <b>Tuberculosis</b> (consumption), nationwide	49,082
37.	1946 -- <b>Tuberculosis</b> , respiratory, code 13 (all forms including respiratory, 50,911)	--46,939
38.	1947 -- <b>Tuberculosis</b> , respiratory, code 13 (all forms including respiratory were 48,064)	44,462

<sup>18</sup> 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).

**Top Fifty (continued) -- all are Diseases:**

39.	1948 --	<b>Tuberculosis</b> , respiratory, code 13 (all forms including respiratory were 43,833)	40,420
40.	1870 --	<b>Pneumonia</b> , esp. AL, GA, IL, IN, KY, MA, MO, NY, OH, PA, TN, TX, VA	40,012
41.	1879 --	June-May 1880, <b>Diphtheria</b> , esp. PA/4.6K; IL/3.7K; NY/2.3K; IA/2.3K, ME/MI/WI--	38,143
42.	1937 --	<b>Influenza</b> , international list #11, US Census Bureau, <i>Vital Statistics, Part I</i>	38,005
43.	1949 --	<b>Tuberculosis</b> , respiratory (all forms including respiratory were 39,100)	35,988
44.	1900 --	<b>Typhoid</b> , esp. AL, AR, GA, IN, KY, MS, MO, NY, NC, OH, PA, TN, TX	35,379
45.	1936 --	<b>Influenza</b> , international list #11, Census Bureau. <i>Mortality Statistics 1936</i>	33,811
46.	1968-69 --	Sep-March, A2 "Hong Kong" <b>Influenza (and Pneumonia)</b> Epidemic	33,800
47.	1850 --	<b>Tuberculosis</b> (consumption), esp. NY/6,691, PA/3,520, MA/3,426, OH/2,558 --	33,516
48.	1931 --	<b>Influenza</b> (additionally pneumonia, all forms was 96,974), esp. PA	--31,701
49.	1951 --	<b>Tuberculosis</b> (respiratory), esp. NY/3.5K, PA/2.5K, CA/2.2K, TX/2K, IL/1.8K --	31,163
50.	1870 --	<b>Diarrhoea, Dysentery, Enteritis</b> , esp. NY/4641, PA/2633, IL/2551, MO/2270 --	≥31,153

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

51.	1925 --	<b>Influenza</b> --esp. PA/2,068, OH/2,100, IL/1,558, IN/1,485, MO/1,464	30,538
52.	1829-1833/esp. 1833--	<b>Malaria?</b> epidemic, West Coast Natives; CA/20K, OR-WA/10K --	30,000
53.	1861-65--	Apr-June, <b>Malaria</b> , Civil War, Union/10K & Confederate/20K forces	~30,000
54.	1950 --	<b>Tuberculosis</b> , pulmonary. Code 002, Sixth Rev. of International Lists, 1948	--29,228
55.	1889-90, June-May,	<b>Diphtheria</b> , 48 States & DC, esp. NY/4K, PA/2.9K, IL/2.6K	27,815
56.	1889-90, June-May,	<b>Typhoid</b> (Enteric) Fever, esp. PA, 2.8K, NY/1.7K, IL/1.7K, OH/1.6K--	27,058
57.	1860 --	<b>Scarlatina (Scarlet Fever)</b> , 38 Census "Registration" States and DC	26,402
58.	1910 --	<b>Typhoid</b> , avg. death rate 23.5; esp. NC, 57.7, CO/41.9, MD/40.7, MT/39.9	25,000
59.	1879 --	June-May 1880, <b>Typhoid</b> ("Enteric") Fever, especially IL, IN, MO, OH, TX	23,339
60.	1930 --	<b>Influenza</b> , 48 States and District of Columbia (pneumonia was 88,770)	--23,066
61.	1952 --	<b>Tuberculosis</b> (respiratory), esp. NY/2462, CA/1678, PA/1662, IL/1385, TX/12K--	22,700
62.	2012-2013 (winter) --	Estimated Excess <b>Influenza &amp; Pneumonia Deaths</b>	18,066-22,434
63.	1870 --	<b>Typhoid Fever</b> , nationwide, esp. IL, IN, MA, MO, NY, OH, PA	22,187
64.	1989 --	<b>HIV AIDS</b> , US death rate 8.9, DC/55.7, NY/25.6, NJ/19.6, FL/16.1, CA/15.	22,082
65.	1915 --	Dec-Jan 1916, <b>Influenza &amp; Pneumonia</b> , esp. IL, MD, NY, OH, PA, WI	21,102
66.	1850 --	<b>Dysentery</b> , esp. NY/3691, PA/2683, OH/2568, MA/2437, IN/1270, CT/965	20,556
67.	1870 --	<b>Scarlet Fever</b> , esp. IL, MO, NY, PA, WI	20,339
68.	1879 --	June-May 1880, " <b>Malarial Fever</b> ," esp. AL, AR, GA, IL, MS and MO	20,231
69.	1837-38--	<b>Smallpox epidemic</b> , Upper Mid-West Native American Tribes	~20,000
70.	1878 --	June-Dec, <b>Yellow Fever</b> , esp. LA (esp. New Orleans), MS, TN (esp. Memphis)--	20,000
71.	1853 --	May-Dec, <b>Yellow Fever</b> , esp. AL/1293, LA/~15K, MS/1311 TX/871--	18,770-19,533
72.	1900 --	<b>Meningitis</b> , esp. NY/2602, PA/1613, IL/1318, MA/1206, OH/1189, NJ/909	--19,423
73.	1860 --	<b>Typhoid Fever</b> , Census "Registration" States	19,236
74.	1940 --	<b>Syphilis</b> , US death rate 14.4 per 100K pop, esp. FL DC AZ DE MS MD AL	19,006
75.	1916 --	<b>Influenza</b>	18,886
76.	1832 --	June-Dec 16, <b>Cholera</b> Epidemics, esp. DC, LA, MD, NY, PA, VA	--16,781-18,491
77.	1879 --	June-May, 1880 -- <b>Croup</b> , especially Oct-Dec, especially IL, PA and TN	17,966



78. 1953 -- **Tuberculosis**/respiratory, esp. NY/1983, PA/1428, CA/1383, IL/1235, TX/948 --17,954  
 79. 1890 -- Jan-March<sup>19</sup> **Influenza** (La Grippe/Russian Flu), esp. NY/IL/CT/OH/PA --16,295-17,807  
 80. 1866 -- May-Dec, **Cholera**, esp. Cincinnati/New Orleans/NYC/St. Louis/TN/Philly/Army---~16K-17,742  
 81. 1912 -- **Tuberculosis**, Jan 1-Jun 8, CA, IL, IN, MA, MO, NJ, NYC, PA, TX, WI 17,463  
 82. 1944 -- **Influenza**, especially Jan-Apr & Dec, Nationwide, especially OH, PA, TX 17,320

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

83. 1938 -- **Influenza**, international list #11, US Census Bureau, *Vital Statistics 1938 Pt. I* --16,520  
 84. 1900 -- **Influenza**, esp. MA/1130, TN/1019, PA/978, NC/799, AL/778, VA/754, GA/667 16,645  
 85. 1988 -- **HIV AIDS**, US death rate 6.8, DC/39.0, NY/22.2, NJ/14.9, FL/11.7, CA/11.1 16,602  
 86. 1900 -- **Diphtheria**, esp. PA/2805, NY/2673, IL/1504, MA/1072, OH/698, NJ/678 16,475  
 87. 1880 -- **Scarlet Fever**, especially children, nationwide, especially IN, NY and PA 16,388
88. 2010 -- **HIV/AIDS**, U.S., nationally 15,525  
 89. 2010-11 (Winter)--Estimated Excess **Influenza & Pneumonia** Deaths (95%CI)-12,111-15,372  
 90. 1860 -- **Croup** (contagious upper airway viral infection), nationwide 15,188  
 91. 1954 -- **Tuberculosis** (respiratory), esp. NY/1667, CA/1108, PA/1100, IL/939, TX/843 --15,146
92. 1900 -- **Malarial Fever**, esp. AR/1730, TX/1331, LA/1030, AL/1005, GA/1001 14,874  
 93. 1850 -- **Cholera**, esp. Sac. & SF, CA, IL, IN, KY, LA, MO, OH, TN, WI<sup>20</sup> --14,158-14,637  
 94. 1894 -- **Diphtheria**, NY/6.6K, esp. NYC/2785, MA/1.5K, Chicago, 1.4K, Philly, NJ 14,606  
 95. 1887 -- **Diphtheria**, esp. NY/6490 (NYC/4509), Chicago/1405, St. Louis/1112, Philly 14,507  
 96. 1861-65--Apr-June, **Tuberculosis**, Civil War, Union/6,946 deaths, Confederate/? ~14,000
97. 1889-90, June-May -- **Croup**, 48 States & DC, esp. NY/1.5K, PA/1.4K, IL/957, MO 13,862  
 98. 1955 -- **Tuberculosis** (respiratory), esp. NY/1642, PA/1239, CA/1076, IL/797, TX/736--13,676  
 99. 1987 -- **HIV Infection/AIDS**, death rate 5.55, esp. DC/28.1, NY/19.1, NJ/13.7, CA/9.5 13,468  
 100. 1920 -- **Diphtheria**, esp. Detroit, Fall River, MA, Bridgeport, CT, St. Louis 13,395
101. 1941 -- **Influenza**, with respiratory complications specified; *Vital Statistics 1941* 13,188  
 102. 1835 -- Nov-Spring 1838, **Smallpox**, Sitka, Gulf of AK, Kodiak, Aleutian Isl. natives, AK 13,105  
 103. 1850 -- **Typhoid Fever**, 31 States, Washington, DC, four Territories 13,099  
 104. 1900 -- **Measles**, esp. TX/1,412, AR/1,274, NY/1,174, MS/950, PA/815, TN/974 12,866  
 105. 1907 -- **Typhoid**, esp. PA/3,538, NY/1702 IN/948 MI/594 CA/545 OH/523 MD/520-12,670  
 106. 1900 -- **Croup** (Upper airway viral infection), esp. PA/1064, TN/958, KY/768 GA/686 12,484  
 107. 1891 -- March-May, **Influenza & Pneumonia**, esp. Chicago/6,800, NY/5,572 12,472  
 108. 2009 -- Apr 12-Apr 10, 2010, **H1N1 "Swine Flu" Pandemic** (U.S.) 12,469  
 109. 1957 -- **Tuberculosis** (respiratory), esp. NY/1493, PA/959, CA/833, TX/733, IL/673-12,384  
 110. 1958 -- **Tuberculosis**, esp. NY/1,380, PA/1013, CA/872, IL/725, TX/721, OH/550 12,361  
 111. 1986 -- **HIV AIDS**, New York City (2,650), U.S. 12,053  
 112. 1900 -- Sep 9, **Hurricane**, Galveston and southeast coastal area, TX 7,200-12,000
113. 1900 -- **Dysentery**, esp. AL/861 TX/794 GA/781 NY/676 TN/663 SC/578 AR/541 11,710

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

<sup>20</sup> 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.

114. 1738-39 -- **Smallpox**, Catawba (NC/SC) and Cherokee Natives (NC) --7,700-11,700  
 115. 1959 -- **Tuberculosis**, esp. NY/1,316, PA/981, CA/815, IL/643, TX,633, OH/527 --11,456  
 116. 2018 -- **Influenza**, ICD-10 codes J09-11.8, death rate 3.4 per 100K pop., esp. WV/6.6 --11,164  
 117. 1879 -- June-May 1880, **Whooping Cough**, nationwide, esp. IN, GA, NC, TX, AL 11,064

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

118. 1920 -- **Whooping Cough**, esp. Atlanta, Nashville, Kansas City, KS, Omaha 10,968  
 119. 1911 -- **Tuberculosis**, Aug-Dec, NYC, NY, IL, CA, IN, MA, NJ, PA, TX 10,926  
 120. 1942 -- **Influenza**. Census Bureau. *Vital Statistics US 1942 -- Part II...Mortality* --10,902  
 121. 1881 -- **Diphtheria**, esp. NY/3.7K (NYC/2249, Brooklyn/1143), MI/2K, MA/1K, NJ/972 10,886  
 122. 1960 -- **Tuberculosis**, death rate 6.1 per 100K; esp. AZ/12.1, DC/11.8, KY/10.7 --10,866  
 123. 1885 -- **Diphtheria & Croup**, localities in 16 states; esp. NY/4508, MI/1552, NJ/1496 10,788  
 124. 1850 -- **Croup** (contagious upper airway viral infection), nationwide 10,706  
 125. 1870 -- **Croup** (contagious upper airway viral infection) nationwide 10,692  
 126. 1914 -- **Influenza and Pneumonia**, The Year, NYC, NY 10,500  
 127. 1854 -- **Cholera**, esp. NYC/2.5K, St. Louis/1.5K, Chicago, Detroit, Boston--10,275-10,467  
 128. 1916 -- **Diphtheria**, especially children, esp. PA/1,653, NY/1,518, MI/486, NJ/444 --10,367  
 129. 1907 -- **Diphtheria** and Croup, Nationwide, esp. NY and PA (esp. Philadelphia) 10,154  
 130. 1907 -- **Influenza**, Census "Registration States and Localities" ≥10,066  
 131. 1867 -- Jul-Dec, **Yellow Fever**, esp. New Orleans, Galveston/Houston; also AL/FL/MS/TN 10,012  
 132. 1659 -- **Measles** Epidemic, Native Americans, FL 10,000  
 133. 1798 -- **Yellow Fever** epidemic, East Coast Port Cities, esp. Philly and NYC 10,000  
 134. 1837 -- **Smallpox** epidemic, California Native Americans<sup>21</sup> 2,000-10,000  
 135. 1848 -- Sep-early '49, **Measles/Whooping Cough/Dysentery/Influenza** Epidemics, HI 10,000  
 136. 1849-50 -- **Scurvy**,<sup>22</sup> California Gold Rush Immigrants ~10,000  
 137. 1988 -- **Heat Wave**, Summer, Central/eastern U.S ~5,000-10,000  
 138. 1980 -- June-Sep, **Heat**, esp. Midwest & So. Plains, esp. MO/TN/AR/TX >2,000~10,000
139. 1900 -- **Whooping Cough**, esp. NY/988, PA/702, TX/576, IL/497, AL/494, TN/425--9,958  
 140. 1961 -- **Tuberculosis**, US death rate 5.4 per 100K; esp. DC/12. KY/10, AR/10.6, AZ/9.4 --9,938  
 141. 1872 -- **Smallpox**, esp. Philly/2591, NYC/1666, St. Louis/1.6K, Baltimore/1217, Boston/1K->9,742  
 142. 1861 -- May 1-June 30, 1866, **smallpox**, Union soldiers and Confederate prisoners<sup>23</sup>--9,682  
 143. 1850 -- **scarlet fever**, esp. PA/1,974, OH/1,301, NY/1,028, MA/571, MD/561, VA/523 --9,584  
 144. 1962 -- **tuberculosis**, death rate 5.1 per 100K; esp. DC/11.9, KY/9.8, AZ&AR/9.7 --9,508  
 145. 1953 -- **influenza**, esp. TX/716 OH/532 MO/484 PA/460 GA/427 TN/414 AL/393 --9,500  
 146. 1853 -- **smallpox**, esp. natives, HI, Nevada City vic., CA, OR/WA; also NYC--7,450-9,450  
 147. 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  
 148. 1889-90, June-May, **measles**, esp. NY/757, PA/676, KY/513, MO/513 OH/714 AL --9,256  
 149. 1870 -- **Measles**, nationwide --9,237  
 150. 1897 -- **typhoid** (enteric) fever, esp. NY/1.5K, OH/1.2K, MA/1.1K, IN/655, PA -->9,192

<sup>21</sup> 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."

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

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

151. 1919 -- **diphtheria** , 31 reporting states, DC & PR, esp. CT, DC, IL/MI/NJ/NY/OH --9,160  
 152. 1918 -- **typhoid fever**, 33 Registration States, DC and Puerto Rico, esp. TX/1,057 --9,100  
 153. 1801-02 -- **smallpox**, Natives, esp. Chinook, Omaha, Osage, esp. Central, Northwest->9,090  
 154. 1870 -- **whooping or “hooping” cough**, nationwide, esp. NY, IL, IN, OH, PA --9,008

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

155. 1875 -- **Tuberculosis**/consumption; data on Chicago/880, MI/1419, NYC/4172, Philly/2359--8,830  
 156. 1946 -- **Influenza**, infectious and parasitic diseases International List code 33 --8,783  
 157. 1900 -- **Smallpox**, esp. MS/782, LA/708, NM/287, VA/263, AL/224 AR/195 TX/146 8,484  
 158. 1860 -- **Whooping Cough**, nationwide, especially, NY, NC, OH, PA, and VA --8,408  
 159. 1964 -- **Tuberculosis**, US death rate 4.3; esp. DC/12, AZ/9, AL/7.4, WV/7.2, TN/7.0--8,303  
 160. 1925 -- **Typhoid & paratyphoid Fever**, 48 States, esp. KY/668, TN/653, LA/649 --8,287  
 161. 1880 -- **Measles**, nationwide, especially GA, IL, IN, KS and MO --8,254  
 162. 2013 -- **Viral Hepatitis**, ICD-10 code B-15-B19, esp. OR/6.0 death rate, DC/5.9 --8,157  
 163. 1913 -- **Measles**, US “registration area” (65.1%), esp. PA/1,578, NY/1,120, OH/679 --8,108  
 164. 2014 -- **Viral Hepatitis**, ICD-10 code B-15-B19, esp. DC, OR (5.3 death rate per 100,000) --8,081  
 165. 2012 -- **Viral Hepatitis**, ICD-10 code B-15-B19, esp. NM/99, AZ/291, CA/1,387 --8,062  
 166. 1925 -- **Diphtheria**, esp. NY/1,006, PA/973, IL/409, OH/392, MI/360, NJ/337 --8,058
167. 1965 -- **Tuberculosis**, US death rate 4.1 per 100K; DC/12.7, AL/7.5, AZ/7.5, NM/6.6 --7,934  
 168. 1960 -- **Influenza**,<sup>24</sup> US death rate 4.4 per 100K; esp. AL/11.5, SC/11.2, MS/10.9 --7,872  
 169. 1976 -- **Influenza**, ICD-8 codes 470-474, death rate 3.6 per 100K, esp. NE/12.9 --7,877  
 170. 2011 -- **Viral Hepatitis**, ICD-10 code B-15-19 (death rate 2.5 per 100K), esp. DC (7.1) --7,850  
 171. 1920 -- **Measles** --7,712  
 172. 1947 -- **Influenza**, infectious and parasitic diseases code 33 --7,664  
 173. 1966 -- **Tuberculosis**, esp. NY/844, PA/589, CA/537, IL/410, TX/404, OH/340 --7,625  
 174. 2010 -- **Viral Hepatitis**, ICD-10 code B-15-19 (death rate 2.4 per 100K), esp. OK (4.9) --7,564  
 175. 1879 -- June-May 1880, **Meningitis**, especially KY, NY, PA, MO and TN --7,481  
 176. 1957 -- **Influenza**, especially PA/476, NY/471, TX/459, OH/437. GA/341, NC/318 --7,463  
 177. 2015 -- **Viral Hepatitis**, ICD-10 code B15-B19, esp. DC (death rate 6.4 per 100,000) --7,461  
 178. 1963 -- **Influenza**,<sup>25</sup> US death rate 3.8; SC/11.9, KY/11.6, WV/11., MS/10.9 TN/9.3--7,083  
 179. 1968 -- **Influenza**, ICD-8 codes 470-474/death rate 3.5 per 100K, esp. VE/15.0, NE/9.1 --7,062  
 180. 1882 -- **Smallpox**, esp. Chicago/1292, Cincinnati/1249, PA/1111, Baltimore/551 -->7,056  
 181. 1916 -- **Polio**, esp. July-Sep, esp. NYC/NY (3,331), NJ (1,180), PA (414) --6,745->7,000
182. 1925 -- **Whooping Cough**, esp. PA/648, NY/523, CA/481, OH/374, IL/315, MA/279--6,948  
 183. 1985 -- **HIV AIDS**, New York City (1,663), U.S. --6,903  
 184. 1967 -- **Tuberculosis** --6,901  
 185. 1920 -- **Typhoid Fever** --6,805  
 186. 1873 -- Feb-Sep, **Cholera**, esp. TN/>2K esp. Nashville/~1K, KY/~1K, St. Louis--5814-6519  
 187. 2017 -- **influenza**; death rate 2.0 per 100K pop.; esp. ME/5.2, MT/5.1, OR/4.9 WA/4.2--6,515  
 188. 1858 -- Jun-Dec, **Yellow Fever**, esp. Charleston SC; Galveston & Indianola; New Orleans/4855-6,490  
 189. 2016 -- **Viral Hepatitis**, ICD-10 code B15-B19, esp. DC (death rate 4.8 per 100K; US 2.0) --6,421

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

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

190. 1812 -- Oct-Jun 1813 (esp.), Peripneumony/**Lung Fever** (pneumonia), VT, esp. Burlington-4350-6,400  
 191. 1833 -- May-Aug (esp.), **Cholera**, esp. KY/~2000, NOLA/1000, WV/OH/IN/TN/IL -6308-6,353  
 192. 1900 -- **Scarlet Fever**, esp. PA/894, NY/812, TX/707, IL/643, MA/384, OH/334 --6,333  
 193. 1870 -- **Diphtheria**, nationwide --6,303  
 194. 1968 -- **Tuberculosis**, US death rate 3.2 per 100K, esp. DC/10.9 AZ/6.2 AL/6. WV/6. --6,292  
 195. 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  
 196. 1540 -- Oct 18, Spanish (de Soto) **Battle/massacre**, with Atahachi, Mabila, AL 2,500-6,000

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

197. 1969 -- **Influenza**, ICD-8 codes 470-474/death rate 2.96 per 100K, esp. KS/7., SC/6., MT/6. --5,971  
 198. 2020 -- **Influenza** (distinct from 47,601 pneumonia deaths); death rate 1.8 per 100K --5,943  
 199. 1855 -- **Yellow Fever epidemic**, Montgomery AL, New Orleans, MS, Memphis, VA 5,938  
 200. 2019 -- **Influenza**, esp. CA/560 TX/396 NY/336 lives lost; VT/4.3 OR/3.7 NE/3.3 death rate-5,902  
 201. 1891 -- **Typhoid Fever**, esp. Chicago/2K, NY/1926, Philadelphia/683, NJ/695, DC --5,840  
 202. 1931 -- **Diphtheria**, especially children, especially AR, IL, KY and PA --5,738  
 203. 2017 -- **HIV**, US death rate 1.75 per 100K, esp. DC/9.8, MS/3.8, FL/3.6, LA/3.5 --5,698  
 204. 1952 -- **Influenza**, esp. TX/433 PA/377 OH/335 AL/283 NC/248 VA/239 MO/226 --5,649  
 205. 1864 -- Feb 24-Apr 17, 1865, **Diarrhea & Dysentery**, Union POW's, Andersonville, GA-5,605  
 206. 1969 -- **Tuberculosis**, US death rate 2.76 per 100K, esp. DC/9.6, AZ/6.0, AL/5.9 --5,567  
 207. 2018 -- **HIV**; US death rate 1.66 per 100K, esp. DC/9.25, MS/4.15, LA/3.4 FL/3.3 --5,425  
 208. 1936 -- July-Aug (esp.), **Heat**, esp. MN/772, MO/644, IL/634 MI/617 WI/500--4,678-5418  
 209. 1850 -- **Whooping Cough**, esp. NY/649, OH/450, GA/385, AL/305, PA/288, SC/269 --5,280  
 210. 1881 -- **Smallpox**, esp. Philly/1336, Chicago/1180, NYC/503, Pittsburgh/448, HI/282 --5,275  
 211. 2015 -- **Influenza** (ICD-10 codes J09, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8) --5,251  
 212. 1970 -- **Tuberculosis**, US death rate 2.56 per 100K, esp. DC/6.8 AL/5.0 WV/4.5 KY/4.3 --5,217  
 213. 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  
 214. 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  
 215. 1905 -- **Cerebrospinal Meningitis** Epidemic, esp. NYC/1511-2025; also CT/NH/NJ/MA-5,114  
 216. 1906 -- **Measles**, nationwide, especially children --5,087  
 217. 1948 -- **Influenza**, 1948 ICD infectious and parasitic diseases code 33 --5,068  
 218. 2019 -- **HIV/AIDS**, US death rate 1.54 per 100K pop.; DC/10.0, FL/3.2, MD, 3.0 --5,044  
 219. 1735-41 -- **Diphtheria** ("Throat Distemper")<sup>26</sup> (esp. 1735-37), esp. CT/ME/MA/NH-5,000  
 220. 1793 -- **Yellow Fever epidemic**, Aug-Nov, Philadelphia, PA --4,041-5,000  
 221. 1906 -- Apr 18, **Earthquake, Fires, Landslides**, San Francisco & vic., CA --3,000-5,000  
 222. 1972 -- **Influenza**, ICD-8 codes 470-474/death rate 2.38 per 100K, esp. SD/8.9 ME/8.7 --4,986  
 223. 1937 -- **Whooping Cough**, international list #9, Census Bureau. *Vital Statistics Pt. I*--4,981  
 224. 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  
 225. 1907 -- **Whooping Cough**, Census Registration States and localities --4,856  
 226. 1938 -- **Whooping Cough**, international list #9, Census Bureau. *Vital Statistics Part I*--4,778  
 227. 2011-2012 (Winter) -- estimated excess **Influenza & Pneumonia** Deaths -- 3,691-4,747  
 228. 1852 -- **Cholera**, esp. NY/1.3K, IL/1.2-1.3K, New Orleans/1K-1.3K, MO/~1K --4,381-4,736  
 229. 1921 -- **Measles**, especially children, nationwide --4,667

<sup>26</sup> Referred to as throat distemper, and other names at the time, descriptions point to what was later named diphtheria. Scarlet fever occurred as well, with deaths, but sources indicate the major epidemic was diphtheria.

230. 1898 -- June-Dec, esp., **Typhoid**, esp. Spanish War Army Camps, esp. Southeast -->4,627
231. 1931 -- **Whooping Cough**, esp. children, esp., by death rate, NM/11.7, ID/11.4 --4,619
232. 2014 -- **Influenza** (ICD-10 codes J09, J10, J11), especially CA (457), TX (418) --4,605
233. 1949 -- **Influenza** (codes 480-483); pneumonia (codes 490-493) was 40,038 --4,602
234. 1870 -- **Smallpox**, nationwide --4,597
235. 1871 -- **Smallpox**, esp. Philadelphia/1,879, Cincinnati/1,179, NYC/805, Chicago/MI/NJ--4,505
236. 1971 -- **Tuberculosis**, US death rate 2.18 per 100K, esp. DC/5.8 AL/4.1 TN/3.5 AZ/3 --4,501
237. 1914 -- **Measles**; US state and local “registration area” (66.8% of pop.), esp. DE/AL--4.461
238. 1958 -- **Influenza**, esp. TX/415, AL/275, OH/260, TN/230, GA/206, MS/199, PA/199--4,442
239. 1972 -- **Tuberculosis**, US death rate 2.09 per 100K, esp. DC/4.8 DE/4.2 AL/3.9 NM/3.9 --4,376
240. 1912 -- **Pneumonia**, Mar 24-Jun 8, Chicago, IL, NYC, NY --4,342
241. 1854 -- Jun-Dec, **Yellow Fever**, esp. Jacksonville, Charleston, Galveston, NOLA, Savannah--4,313
242. 1907 -- **Scarlet Fever**, Nationwide --4,309
243. 1907 -- **Measles**, especially children, nationwide --4,302
244. 1975 -- **Influenza**, ICD-8 codes 470-474, death rate 1.986 pre 100K, esp. KS/6.317 --4,277
245. 1912 -- **Measles**, US “registration area” (~65% population), NYC (671) --4,240
246. 1978 -- **Influenza**, ICD-8 codes 470-474, US death rate 1.8 per 100K, esp. ME/5.0, KS/4.7 --4,052
247. 1901 -- June-July, **Heat waves**, except Pacific NW, esp. Northeast, June 27-July 6 --4,012
248. 1920 -- **Scarlet Fever**, esp. Akron, OH, Wilmington, DE, Springfield, MA --4,004
249. 1815-16, Winter -- **Smallpox epidemic**, Comanche Nation<sup>27</sup> -->4,000
250. 1838 -- May-Mar 1839, **Cherokee Relocation**, NE AL/NW GA/SE TN/NW NC to OK<sup>28</sup> ~4,000

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

251. 1874 -- **Scarlet Fever**, esp. NYC/879, Cincinnati/687, Brooklyn/479, Philly/461, VT--3,996
252. 1936 -- **Malaria**, international list #38, Census Bureau. *Mortality Statistics 1936* --3,943
253. 1935 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1935* --3,907
254. 1860 -- **Measles**, especially NY, OH, MO and PA --3,809-3,900
255. 1973 -- **Tuberculosis**, US death rate 1.84 per 100K, esp. DC/5.0 TN/2.9 AL/2.8 WV/2.8 --3,875
256. 1941 -- **Whooping Cough**, Census Bureau. *Vital Statistics, Part I, Mortality*, p. 350--3,785
257. 1906 -- **Tuberculosis**, The Year, Philadelphia, PA --3,742
258. 1936 -- **Pellagra** (vitamin B3/niacin malnutrition); int. list #62, Census Bureau --3,740
259. 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
260. 2013 -- **Influenza**, ICD-10 codes J09-11, esp. SD (3.6) MT (3.5) ME (3.2) death rates --3,697
261. 1864 -- Feb-April 1865, **Scurvy**, Union POW’s, Camp Sumter, Andersonville, GA --3,614
262. 1873 -- July-Dec, **Yellow Fever**, esp. Memphis, AL, Pensacola, Louisville, LA, TX-3542-3584
263. 1984 -- **HIV AIDS**, New York City (952) --3,578
264. 1931 -- **Measles**, especially children, especially IL and PA --3,576
265. 1920 -- **Dysentery**, 33 registration states --3,574

<sup>27</sup> We note “greater than” 4,000 in that 4,000 is the estimated Comanche loss, whereas it has been written that the Kiowa, for example, lost to smallpox numbers in a ratio comparable to the Comanche.

<sup>28</sup> Also referred to as Cherokee Trail of Tears as well as a “forced-march” relocation. Geographic area of coverage comes from sources in Narrative document and map in Thornton (1990) from Morris, Goins and McReynolds ([1965] 1986:20), entitled “The Trail of Tears.” Shows two Cherokee relocation routes from area encompassing north/northwest GA, southwest NC, southeast TN and northeast AL. One route is northwest through TN into KY, 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.

266. 1930 -- **Malaria**, nationwide, esp. AL, AR, FL, GA, LA, MS, OK, SC, TN, TX --3,572  
 267. 1974 -- **Tuberculosis**, US death rate 1.65 per 100K, esp. DC/5.1, KY/2.8, TN/2.6 --3,513  
 268. 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):

269. 1841 -- **Yellow Fever**, esp. FL & LA, esp. New Orleans, also Vicksburg, Charleston-3,498  
 270. 1909 -- **Tuberculosis**, Philadelphia, PA --3,496  
 271. 1908 -- **Tuberculosis**, Philadelphia, PA --3,490  
 272. 1962 -- **Influenza**,<sup>29</sup> US death rate 1.8 per 100K; esp. NE/5, TN/5, MS/4.2, SC/4 --3,431  
 273. 1847 -- **Yellow Fever**, esp. NOLA, also Galveston/Mobile/Pensacola/Vicksburg<sup>30</sup> --≥3,400  
 274. 1943 -- **Whooping Cough**, especially children, nationwide --3,368  
 275. 1975 -- **Tuberculosis**, US death rate 1.55 per 100K, esp. DC/3.8, KY/2.74, TN/2.72--3,333  
 276. 1851 -- June-Aug esp., **Cholera**, esp. St. Louis, IL, New OrL., Cincinnati, SD Sioux--3314-3,322  
 277. 1952 -- **Polio**, esp. IL/258, TX/≥240, MI/218, CA/217, MN/200, IA/163 KY/132, NE/115 --3,300  
 278. 1938 -- **Measles**, international list #7, Census Bureau. *Vital Statistics 1938*, Part I --3,296  
 279. 1904 -- **Cerebrospinal Meningitis**, esp. NYC/1,083-1,403, Hartford, CT/108, NJ/245 --3,284  
 280. 1906 -- **Epidemic Cerebro-spinal Meningitis**, esp. NY/1,117 (NYC/600), PA/385 --3,258  
 281. 1925 -- **Dysentery**, esp. KY/297, WV/213, LA/211, SC/211, TN/207, VA/196 --3,257  
 282. 1934 -- Summer, esp. mid-July-mid-Aug **Heat**, esp. Midwest, esp. MO, IL, KS, OH--3,250  
 283. 1910 -- **Tuberculosis**, the Year, Philadelphia, PA --3,190  
 284. 1889 -- May 31, South Fork **Dam Failure**, Flash Flood, Fire, Johnstown PA --2,209-3,188  
 285. 1896 -- **Measles**, esp. NYC/714, Brooklyn/333, Philadelphia/191, Cincinnati/100, CT--3,178  
 286. 1920 -- **Malaria**, esp. MS/683, LA/586, SC/487FL/344, NC/210 and TN/183<sup>31</sup> --3,136  
 287. 1976 -- **Tuberculosis**, US death rate 1.44 per 100K, esp. DC/4.0, NM/2.8, AL/2.6 --3,130  
 288. 1936 -- **Dysentery**, international list #13, Census Bureau. *Mortality Statistics 1936* --3,122  
 289. 1936 -- **Typhoid Fever**, international list #1, Census Bureau. *Mortality Statistics 1936*--3,098  
 290. 1936 -- **Diphtheria**, international list #10, Census Bureau. *Mortality Statistics 1936*--3,065  
 291. 2001 -- Sep 11, **Violence, 9/11 Terrorist Attacks** --3,064  
 292. 1939 -- **Whooping Cough**, nationally, esp. AL, GA, IL, MS, NY, NC, PA, TX, VA--3,026  
 293. 1936 -- **Epidemic Cerebrospinal Meningitis**, int. list #18, Census Bur. *Mortality Statistics*- 3,020  
 294. 1819 -- **Yellow Fever**, esp. Charleston, Mobile, Natchez; most esp. New Orleans-2871-3019  
 295. 1981 -- **Influenza**, US death rate 1.31 per 100K, esp. SD/4.2, IA/3.5, UT/3.3, VT/3.3 --3,006  
 296. 1804 -- **Epidemic, Possibly Cholera** (or Typhoid or Plague) Natives, Oahu, HI >3,000  
 297. 1928 -- Sep 6-20, Great Okeechobee **Hurricane**/Flood, Southeast FL --1,800-3,000
298. 1850 -- **Measles**, especially NY/505, OH/363, PA/316, VA/222, MO/189, IN/163 --2,988  
 299. 2017 -- Sep 20, **Hurricane Maria**, Puerto Rico (2,975), US Virgin Isl. (2), NJ (3) --2,980  
 300. 1937 -- **Dysentery**, international list #13, Bureau of Census. *Vital Statistics Part I* --2,974  
 301. 1977 -- **Tuberculosis**, US death rate 1.35 per 100K, esp. DC/4.24, TN/2.8, KY/2.2 --2,968  
 302. 1966 -- July, **Heat Wave** and “excess deaths,” esp. IL, NYC, St. Louis, MO ~2,582-2,954

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

<sup>30</sup> Was in at least 10 Louisiana locations other than New Orleans; also in six known locations other than Vicksburg in Mississippi; was in Memphis, TN, and Brazos, Houston and Matamoros, Texas. Mostly late Summer and Fall.

<sup>31</sup> Based on death certificate data from 34 “registration states” as well as 17 cites in non-registration states of AL, GA, ND, OK, TX and WV, with an estimated population of 87,45,921 or 82.3% of total estimated U.S. and Hawaii territory population. AK was not a State. Other non-reporting states were AZ, AR, ID, IA, MN, NM, SD, and WY.

303. 1938 -- **Dysentery**, international list #13, Census Bureau. *Vital Statistics 1938 Part I* --2,933  
 304. 1940 -- **Whooping Cough**, nationwide, especially TX and KY --2,926  
 305. 1978 -- **Tuberculosis**, ICD-8 codes 010-019, esp. NY/283, CA/217, PA/185, IL/165 --2,914  
 306. 2016 -- **Influenza** (ICD-10 codes J09, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8) --2,905

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

307. 1883 -- **Smallpox**, esp. New Orleans/834 Baltimore/633 Cincinnati/189 Chattanooga/103 --2,868  
 308. 1950 -- **Influenza**; separate from influenza with pneumonia/3,492 and pneumonia/40,523 --2,857  
 309. 1959 -- **Influenza**,<sup>32</sup> esp. TX/191, TN/133, OH/126, NY/126 IN/119 MI/108 GA/104 CA--2,845  
 310. 1931 -- “Epidemic **Cerebrospinal Meningitis**,”<sup>33</sup> U.S., especially IL, NY and PA --2,832  
 311. 1966 -- **influenza** (pneumonia deaths were 63,615), esp. CA/636, WA/154, OR/134 --2,830  
 312. 1944 -- **Cerebrospinal Meningitis**, nationwide, esp. CA, IL, MI, NJ, NY, OH, PA --2,812
313. 1875 -- **Smallpox**, esp. New York City (1,899), Cincinnati (745), Philadelphia (54) --2,770  
 314. 1931 -- June-Sep, **Heat Waves**/excessive heat, West, Midwest, NE, esp. IL, IA, WI --2,768  
 315. 1839 -- Jun-Oct, **Yellow Fever**, SC, FL, GA, TX, esp. Mobile, Natchez, New Orleans ~2,764  
 316. 1925 -- **Scarlet Fever**, esp. PA/343, IL/279, OH/252, MI/216, NY/191, MO/169 --2,762  
 317. 2009 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,756  
 318. 1955 -- **Influenza**, esp. OH/187 AL/183 GA/181 TX/169 PA/154 TN/136 MS/106 --2,755  
 319. 2011 -- **Diarrhoea & Gastroenteritis of Infections Origin** (ICD-10 code A09), esp. NJ --2,743  
 320. 1822 -- **Yellow Fev.**, esp. late Sum-Fall, esp. NOLA/Marietta OH/NYC/Pensacola<sup>34</sup>-1519-2,741  
 321. 2010 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,741  
 322. 1937 -- **Malaria**, international list #38, Census Bureau. *Vital Statistics, Part I* --2,729  
 323. 1949 -- July-Nov esp., **Polio**, esp., NY/320, IL246, MI/210, TX/183 NJ/180 CA/236--2,720  
 324. 1871 -- **Scarlet Fever**, esp. NYC/791, Baltimore/625, MI/696, MN/335, Philly/262 --2,709  
 325. 1980 -- **Influenza**, US death rate 1.19 per 100K, esp. ND/4.3, MA/3.4, ME/3.3, MT/3 --2,702
326. 1954 -- **Influenza**, esp. TX/228 AL/180 GA/162 PA/154 OH/143 TN/120 M0/104 --2,696  
 327. 2009-2010 (Winter) -- **Influenza** deaths (out of 1,595,870 US deaths) --2,691  
 328. 2013 -- **Diarrhoea and gastroenteritis of infections origin** (ICD-10 code A09) --2,669  
 329. 1936 -- **Whooping Cough**, international list #9, Census Bureau. *Mortality Statistics*--2,666  
 330. 1937 -- **Typhoid**, international list #1, Census Bureau. *Vital Statistics 1938, Pt. I* --2,659  
 331. 1931 -- **Scarlet Fever**, especially children, especially IL --2,651  
 332. 1937 -- **Diphtheria**, international list #10, Census Bureau. *Vital Statistics Part I* --2,637  
 333. 2012 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,610
334. 1938 -- **Diphtheria**, international list #10, Census Bureau. *Vital Statistics Part I* --2,556  
 335. 1931 -- **Malaria**, esp. AL, AR, FL, GA, LA, MS, MO, SC, TN --2,536  
 336. 1942 -- **Whooping Cough**. Census Bureau. *Vital Statistics ...1942...Mortality* --2,536  
 337. 1865 -- **Smallpox**, esp. NYC/≤664, Philly/524, SC/GA/FL Sea Islands/~800<sup>35</sup> -2,500-2,510  
 338. 1797 -- **Yellow Fever epidemic**, New Design, MO, NYC, Philly, Providence, RI --2,502  
 339. 1876 -- **Smallpox**, 10 data-points, esp. Cincinnati/~930, SF CA/482, Philly/407, NYC/315~2500

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

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

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

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

340. 1893 -- Aug 27-28, **Hurricane**, Sea Islands “Great Storm of 1893,” GA/SC --1,000-2,500  
 341. 1900 -- June-Dec, **Measles** and **Influenza**, Native Alaskans, esp. west AK ~2,000-2,500

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

342. 1936 -- **Scarlet Fever**, international list #8, Census Bureau. *Mortality Statistics 1936* --2,493  
 343. 1863 -- **Smallpox**, esp. DC/700, Camp Chase OH, Fort Delaware DE, Baltimore/IL/PA-2.3K--2,490  
 344. 2015 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,456  
 345. 1910 -- Sum-Fall esp., **Polio**, esp. IA/161, MA/122, MN/97, NY/170, PA/269 --1459-2,449  
 346. 1864 -- **Yellow Fever**, esp. New Bern NC/1,359, Charleston, SC/700, Galveston, NOLA--2,414  
 347. 2014 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,405  
 348. 1925 -- **Measles**, 40 Registration states, esp. PA/503, MA/349, NY/323, IL/217, NJ/124 --2,404  
 349. 1941 -- Dec 07, **Violence, Attack** by Japanese on Pearl Harbor, HI --2,402  
 350. 1871 -- Oct 8-9, **Wildfire/Firestorm**, Peshtigo/NE WI vic.; Birch Creek MI --1,228-2,400
351. 1967 -- **Syphilis** --2,381  
 352. 1938 -- **Malaria**, international list #38, Census Bureau. *Vital Statistics, Part I* --2,378  
 353. 2016 -- **Diarrhoea and Gastroenteritis of Infections Origin** (ICD-10 code A09) --2,361  
 354. 1850 -- **Smallpox**, esp. OH/551, NY/276, MA/232, PA/208, KY/150, MD/144, IN/140- 2,352  
 355. 1956 -- **Influenza**, esp. PA/139, TX/153, OH/134, AL/130, GA/109, MS/100, TN/96 --2,323  
 356. 1880 -- **Diphtheria**, NY, esp. children, esp. NYC & Brooklyn; elsewhere NY--1,805-2,303
357. 1965 -- **Influenza**,<sup>36</sup> death rate 1.2 per 100K, esp. ME/5.0, KS/4.0, NE/3.6, VE/3.3 --2,295  
 358. 1941 -- **Measles**, esp. children, esp. VA (170), GA (160), KY (158), SC (138), TN (133) --2,279  
 359. 1864 -- **Typhoid**, Chicago/192, Philadelphia/648; **Typhus**/Typhoid, NYC/1,425 --2,265  
 360. 1937 -- **Epidemic cerebrospinal meningitis**, int. list #18, Census. *Vital Statistics, Pt. I* --2,208  
 361. 1873 -- **Smallpox**, esp. Boston/668, Baltimore/631, Chicago/515, NYC/117, Charleston/106--2,201  
 362. 1974 -- **Influenza**, ICD-8 codes 470-474, death rate 1.30 per 100K, esp. KS/3.48 --2,201  
 363. 1893 -- Dec-Jan 1894, epidemic **Influenza**, NY --2,200
364. 1911 -- **Heat waves**/excessive heat deaths, esp. June 4-23, July 1-13, esp. MW, NE ~2,190  
 365. 2022 -- excessive **natural heat**, esp. AZ (1,030) esp. Maricopa County/425, TX/203--2,159  
 366. 2023 -- excessive **natural heat**, esp. AZ (867), TX (440), NV (208), LA/82, FL/81 --2,155  
 367. 1867 -- June-Dec, **Cholera**, esp. St. Louis, New Orleans, KS/OK/Chicago, US Army-2,145  
 368. 1931 -- **Polio**, esp. July-Oct (Aug peak), esp. NY, NJ, MI, MA, IL, CT, PA --2,139-2,144  
 369. 1961 -- **influenza**,<sup>37</sup> US death rate 1.2 per 100K; esp. AK/3.3, KS/ME/NE at 2.7 --2,137  
 370. 1925 -- **Malaria**, esp. MS/426, FL/338, AL/306, LA/256, MO/189, SC/183, TN/155 --2,132  
 371. 1902 -- **Smallpox**, esp. NJ/432, NYC/310, MA/283, Cleveland/233, Philly PA/231 --2,111  
 372. 1964-65 -- **Rubella (German measles)**, last major US epidemic, especially newborn--2,100
373. 1990 -- **Influenza**, US death rate 0.84 per 100K; esp. NE//3.5; IA/3.1; ID/2.3; SD/2.3 --2,098  
 374. 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  
 375. 1863 -- Sep-June 1865, **Diarrhea & Dysentery**, Confederate POWs, Point Lookout MD-2,050  
 376. 1865 -- **Typhus/Typhoid** NYC/1,075; Typhoid/Chicago/190 and Philadelphia/773 --2,038

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

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



377. 1896 -- Aug 1-14~, **Heat**, esp., NY/891, IL/277, PA/226, NJ/168, MO/81, WI/77 --2,038  
 378. 1927 -- **Polio** (Acute), especially late Summer and Fall, especially children --2,013  
 379. 1834 -- ~July-Nov, **Cholera**, esp. Baltimore, Cleveland, Detroit, Goliad TX, NYC-->2,010  
 380. 1979 -- **Tuberculosis**, US death rate 0.89 per 100K, esp. DC/2.7, KY/1.7, MS/1.6 --2,007  
 381. 1634-35, **Smallpox epidemic**, Five Nations, especially Mohawks, Upper NY<sup>38</sup> -->2,000  
 382. 1709-10, **Smallpox epidemic**, Native Americans, lower CA -->2,000  
 383. 1893 -- Oct 1-2, **Hurricane**, Cheniere Caminanda, Gulf Coast esp. LA, MS, AL 1700-2000

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

384. 1616 -- **Unknown Epidemic**, Natives, especially ~coasts of MA, ME, RI --thousands  
 385. 1939 -- **Diphtheria**, esp. Jan-Mar, Sep-Dec, Nationwide, esp. GA, IL, NC, TX, VA --1,997  
 386. 1980 -- **Tuberculosis**, US death rate 0.87 per 100K, esp. DC/4.21, SC, 1.79, AL/1.74 --1,978  
 387. 1989 -- **Tuberculosis**, US death rate 0.80 per 100K, esp. DC/2.55; NY/1.63; LA/1.34 --1,970  
 388. 1947 -- **Whooping Cough**, Int. List No. 9 --1,954  
 389. 1865 -- Apr 27, Steam **Sultana** explodes/burns, Miss. Riv., Redman Point, AR-1,547-1,947  
 390. 1988 -- **Influenza**, US death rate 0.79 per 100K; esp. ID/3.7, IA/2.5, MT/2.6, SD/3.3 --1,943  
 391. 1981 -- **Tuberculosis**, US death rate 0.84 per 100K, esp. AL/1.96, DC/1.57, FL/1.43 --1,937  
 392. 1837 -- Aug-Nov, **Yellow Fever** epidemics, Mobile AL; New Orleans LA; Natchez MS--1550-1930  
 393. 1944 -- **Measles**, especially Jan-June, Nationwide, esp. CA, GA, OH, PA, TX --1,923  
 394. 2021 -- **excessive natural heat**, esp. AZ/854, WA/170, NV/166, CA/140, OR/133 --1,923  
 395. 1939 -- **Typhoid**, international list #1, Census Bureau. *Vital Statistics 1939*, Part I --1,922  
 396. 1988 -- **Tuberculosis**, US death rate 0.78 per 100K, esp. DC/2.05, NY/1.61, HI/1.48 --1,921  
 397. 1943 -- **Dysentery**, Bureau of Census. *Vital Statistics...1943...II...Mortality*, p.192 --1,909  
 398. 1950 -- **Polio**, esp. Jul-Nov (1,611 deaths), esp. CA, IL, MI, NY, OH, PA, TX --1,904  
 399. 1980 -- June-Sep, **Heat**, esp. Midwest & So. Plains, esp. MO/TN/AR/TX/MS<sup>39</sup>--1,863-1,904  
 400. 1948 -- **Polio**, especially CA, MN, NC, OH, SD, TX and WI --1,895  
 401. 1944 -- **Whooping Cough**, Nationwide, especially NC, VA, TX, SC, KY, MS --1,878  
 402. 1942 -- **Dysentery**. Census Bureau. *Vital Statistics...US 1942 -- Part II...Mortality* --1,877  
 403. 1855 -- May-Aug, **Cholera**, IL//KS/KY/MO/OH/WI, esp. New Orleans/883 --1,797-1,869  
 404. 1946 -- Especially July-Nov, **Polio**, nationwide, esp. IL, MN and TX --1,845  
 405. 1986 -- **Influenza**, US death rate 0.76 per 100K, esp. VT/3.9 ME/3.59 MN/3.2 ND/2.84 --1,838  
 406. 2005 -- Aug 25-31, **Hurricane Katrina**, FL, LA, esp. NOLA & MS<sup>40</sup> -->1,833-1,836  
 407. 1868 -- June-Dec, **Smallpox**, esp. San Francisco/960, Cincinnati/649, Chicago/150-->1,825  
 408. 1937 -- **Scarlet Fever**, international list #8, Census Bureau. *Vital Statistics 1938, Pt. I*--1,824  
 409. 2005 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.613 per 100K; esp. SD (4.513) --1,812  
 410. 1990 -- **Tuberculosis**, US death rate 0.73 per 100K, esp. DC/1.97; NY/1.63; MS/1.48 --1,810

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

<sup>39</sup> Our range is based on a State by State tally using best available sources which actually counted deaths. There are "estimates" for 1980 of 2,000-10,000 deaths, for which we find no explanation of how the estimates were made. We suspect they were based on looking at spikes in deaths during high heat, and attributing a percentage of the spikes to heat, at least as a contributing or aggravating factor. No doubt it is true that spikes in deaths during high heat can be associated with the heat. However, we seek to provide tallies based on counting, as opposed to estimating.

<sup>40</sup> 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.

411. 1982 -- **Tuberculosis**, US death rate 0.78 per 100K, esp. DC/2.83, AL/1.63, TN/1.4--1,807  
 412. 1800 -- **Yellow Fever**, esp. Baltimore, Charleston SC, Norfolk, Philly, Providence RI --1,806

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

413. 2003 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.618 per 100K; esp. ND (2.661) --1,792  
 414. 1986 -- **Tuberculosis**, US death rate 0.74 per 100K, esp. DC/1.72, DE/1.43, NY/1.34-1,782  
 415. 1983 -- **Tuberculosis**, US death rate 0.76 per 100K, esp. DC/3.63, AL/1.6, LA/1.2 --1,779  
 416. 2008 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.57 per 100K; esp. SD (2.13) --1,772  
 417. 1870 -- **Typhus**, nationwide, especially IL, IN, NY, and PA --1,770  
 418. 2000 -- **Influenza**, ICD-10 codes J09-11.8; US death rate 0.63 per 100K; esp. SD (3.05) --1,765  
 419. 1939 -- **Malaria**, esp. May-Nov, especially AL, AR, FL, GA, LA, MS, SC, TX --1,761  
 420. 1987 -- **Tuberculosis**, US death rate 0.72 per 100K, esp. DC/2.82, AL/1.54, NY/1.5 --1,755  
 421. 1894 -- **Smallpox**, esp. Chicago/1033, WI/325, esp. Milwaukee/244; NY/147 --1,752  
 422. 1945 -- **Whooping Cough**, communicable disease No. 9 International List --1,752  
 423. 1985 -- **Tuberculosis**, US death rate 0.74 per 100K, esp. DC/3.46, GA/1.34, AL/1.23 --1,752  
 424. 1984 -- **Tuberculosis**, US death rate 0.73 per 100K, esp. DC/3.62, AL/1.57, NY/1.21 --1,729  
 425. 1945 -- **cerebrospinal (meningococcus) meningitis** (code 6 communicable disease)--1,728  
 426. 1998 -- **Influenza**, ICD-9 code 487.0; US death rate 0.62 per 100K; esp. MT (6.72) --1,724  
 427. 1911 -- **Typhoid Fever**, PA --1,716  
 428. 1991 -- **Tuberculosis**, US death rate 0.68 per 100K, esp. DC/2.32. NY/1.62; AR/1.17 --1,713  
 429. 1992 -- **Tuberculosis**, US death rate 0.66 per 100K, esp. NY, 1.38; MS, 1.33 --1,705  
 430. 1553 -- **Hurricane**, lower coast of TX --1,700
431. 1964 -- **influenza**,<sup>41</sup> US death rate 0.9 per 100K, esp. MT/4.0 WA/3.8 NE/3.6 ND/3.1 --1,687  
 432. 1862 -- **Yellow Fever**, esp. Wilmington NC/>653; TX coast/≥328; Key West--1,131-1,679  
 433. 1999 -- **Influenza**, ICD-10 codes J09-11.8; US death rate 0.597 per 100K; esp. SD/4.913 --1,665  
 434. 1993 -- **Tuberculosis** (US death rate 0.63 per 100K), esp. DC/2.51 and NY/1.16 --1,631  
 435. 1995 -- June-Aug, esp. July 12-17, **Heat**, esp. IL/>700 WI/154 PA/146 MO/58 1,563-1,601
436. 1921 -- **Polio** (acute), esp. late Summer-Fall, esp. children, esp. NY, IL, WA, MI --1,597  
 437. 1989 -- **Influenza**, US death rate 0.64 per 100K; esp. IA/2.38, MT/2.1, ND/2.17, OR/2.0 --1,593  
 438. 1925 -- **Excessive Heat**, esp. NY (439), PA (299), NJ (112), CA (69), MA (65) --1,587  
 439. 2009 -- **Influenza (avian)**, ICD-10 code J09 (US death rate 0.5 per 100K) esp. MT (1.3) --1,557  
 440. 1951 -- **Polio**, especially July-Nov, especially CA, IL, TX --1,551-1,555  
 441. 1847 -- **Typhoid** and **Typhus**, New York City (1,396), Typhus, New Orleans (154) --1,550  
 442. 2011 -- **Influenza**, ICD-10 codes J09-11 (US death rate 0.5), esp. SD (2.3 per 100K) --1,532  
 443. 1848 -- **Typhus** and **Typhoid**, New Orleans, LA/372, NYC/953, South Philly/205 --1,530  
 444. 1925 -- **Polio**, esp. late Sum.-Fall, esp. children, esp. NY/208, CA/149, MN/140 --1,519  
 445. 1971 -- **Influenza**, ICD-8 codes 470-474/death rate 0.73 per 100K, esp. ME/2.9, NE & WA/1.9-1,504  
 446. 1937 -- **Measles**, international list #7, Census Bureau. *Vital Statistics 1938*, Part I --1,501  
 447. 1689-1690 -- **Smallpox epidemics**, New England and NY, settlers and natives-≥820-1,500  
 448. 1983 -- **HIV AIDS**, New York City (425), U.S. --1,500
449. 1877 -- **Smallpox**, 7 data pts., esp. New Orleans/1.1K; Philadelphia/155; Cincinnati/56 --1,496

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

450. 1914 -- **Diphtheria and Croup**, the Year, NYC, NY --1,489  
 451. 1843 -- July-Nov, **Yellow Fever**, esp. Mobile AL (240-750), New Orleans (487-700)--758-1,481  
 452. 1994 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.56 per 100K, esp. DC, 1.86 --1,478  
 453. 1967 -- **Influenza** --1,475  
 454. 1937 -- **Polio** (Acute), especially late Summer and Fall, especially children --1,461  
 455. 1940 -- **Diphtheria**, Census Bureau. *Vital Statistics Part II, 1940, Mortality*, p. 210 --1,457  
 456. 1953 -- **Polio** (acute), especially CA, IL, MI, and NY --1,450  
 457. 1940 -- **typhoid fever**, Census Bureau. *Vital Statistics, Part II, 1940, Mortality*, p.210--1,443  
 458. 1940 -- **Malaria**, especially AL, AR, GA, MS, SC and TX --1,442  
 459. 1949 -- **Dysentery**, infectious, all forms (codes 045-048) --1,440  
 460. 1983 -- **Influenza**, US death rate 0.61 per 100K, esp. ME/3.9, MT/3.2, MN/2.7 --1,431  
 461. 1803 -- July 18-Oct, **Yellow Fever**, Charleston SC, New York, VA, Philadelphia --1,403  
 462. 1952 -- **Heat**, excessive natural, Sixth Revision of International Lists, 1948, code E931 --1,401

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

463. 1864 -- July-June 1865, **Diarrhea and Dysentery**, Confederate POWs. Elmira, NY --1,394  
 464. 1954 -- **Polio**, acute; esp. TX/138 & CA/119; 33 other states double digit deaths --1,389  
 465. 1928 -- **Polio** acute, especially late Summer and Fall, especially children --1,381  
 466. 1944 -- **Polio**, especially July-Nov (1,070 deaths), esp. NY, OH and PA --1,381  
 467. 1930 -- **Polio**, especially late summer through fall --1,370  
 468. 1799 -- **Yellow Fever**, Charleston, SC, NYC, Philadelphia, USS *General Greene* --1,356  
 469. 1851 -- **Typhus/Typhoid**, NYC/1,103, New Orleans/Typhus/228, Chicago/Typhoid/10 --1,341  
 470. 1995 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.5 per 100K, esp. DC, 1.89 --1,336  
 471. 1820 -- May-Dec, **Yellow Fever**, Savannah GA/New Orleans/NYC/Philadelphia --1,335  
 472. 1913 -- **Diphtheria and Croup**, the Year, NYC, NY --1,333  
 473. 1972 -- **Excessive heat**; heat as contributing factor, esp. July 12-25 NYC/891, MD/269 --1,324  
 474. 1912 -- **Typhoid Fever**, Pennsylvania --1,310  
 475. 1946 -- **Measles**, International List infectious and parasitic diseases code 35 --1,310  
 476. 1863 -- **Diphtheria**, Vermont -->1,300  
 477. 1977 -- **Influenza**, ICD-8 codes 470-474, US death rate 0.59 per 100K, esp. AL/1.98 --1,304  
 478. 1942 -- **Measles**. Census Bureau. *Vital Statistics of US 1942 -- Part II...Mortality* --1,302  
 479. 1943 -- **Measles**, especially children --1,301
480. 1862 -- Feb-Jun '65 (41 mo.), **pneumonia/pleurisy**, Confederate POWs, Camp Douglas IL- 1,296  
 481. 1876 -- **Yellow Fever**, Savannah (also Brunswick), GA; also New Orleans & Baltimore --1,293  
 482. 1941 -- **Diphtheria**, Census Bureau. *Vital Statistics, Part I, Mortality*, p. 150 --1,293  
 483. 1880 -- **Smallpox**, esp. TX/517, Philadelphia/429, Camden NJ/47 Chicago/43, NY --1,281  
 484. 1911 -- **Diphtheria**, especially NYC, Chicago, Philadelphia, MA --1,281  
 485. 1915 -- **Diphtheria and Croup**, The Year, NYC, NY --1,278  
 486. 1942 -- **Diphtheria** --1,273  
 487. 1860 -- **Smallpox epidemics**, especially MA and NY 1,263-1,271  
 488. 1936 -- **Measles**, international list #7, Census Bureau. *Mortality Statistics 1936* --1,267  
 489. 1900 -- July-Aug (esp.) **Heat**, esp. NY/361, NJ/119, Chicago/102, St. Louis/90, PA/90-1,266  
 490. 1946 -- **Diphtheria**, infectious diseases International List No. 10 --1,259  
 491. 1946 -- **Cerebrospinal (meningococcus) meningitis** infections (Int. List No. 6) --1,257  
 492. 1946 -- **Whooping Cough**, International List No. 9 --1,241

493. 1817 -- June-Dec, **Yellow Fever**, esp. Charleston SC, Natchez MS, New Orleans-1208-1,233  
 494. 1994 -- **Influenza**, US death rate 0.47 per 100K; esp. SD/2.6; MT/1.7; IA/ 1.5; NE/1.22--1,229  
 495. 1913 -- **Heat**, esp. June 25-July 1, esp. PA/237, OH/178, MO/114, IL/92, NY/80 --1,226  
 496. 1938 -- **Scarlet Fever**, international list #8, Census Bureau. *Vital Statistics 1939*, Pt. I --1,206  
 497. 1996 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.45 per 100K, esp. DC, 1.92 --1,202

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

498. 1943 -- **Diphtheria**, infectious diseases International List No. 10 --1,196  
 499. 1945 -- Jan-Dec, **Polio**, especially July-Nov (Sept. peak) --1,186  
 500. 2020 -- excessive **heat**, natural sources; esp. AZ/522, CA/137, Clark Co., NV/124 --1,184  
 501. 1917 -- **Polio**, Census area (27 States/DC/43 cities), esp. Chicago/177 OH/128 VA/69, VT $\geq$ 1,182  
 502. 2021 -- exposure to excessive **natural cold**/ICD-10 code X31, esp. AK/NM/IA/CO --1,179  
 503. 1941 -- **Malaria**. Census Bureau. *Vital Statistics, Part I, Mortality*, p. 150 --1,178  
 504. 1939 -- **Measles**, international list #35, Census Bureau. *Vital Statistics 1939*, Pt. I --1,174  
 505. 1997 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.43 per 100K, esp. HI, 0.99 --1,166  
 506. 1848 -- Dec, **Cholera**, New Orleans, also MS Riv., Paducah KY, NYC, Port Lavaca TX--1,159  
 507. 1943 -- **Polio**, especially late Summer and Fall, especially children --1,151  
 508. 1829 -- **Yellow Fever**, esp. FL, Mobile AL/130; Natchez MS/90; New Orleans LA/900-1,146  
 509. 1948 -- **Whooping Cough** --1,146  
 510. 1991 -- **Influenza**, US death rate 0.45 per 100K; esp. NE/2.38, ND/1.73, IA/1.54 --1,137  
 511. 1905 -- May 21-Nov, **Yellow Fever**, esp. LA (esp. New Orleans/455), Pensacola, MS-1,131  
 512. 1919 -- Sep 10-14, **Hurricane**, Florida Keys, Gulf & Corpus Christi area, TX 500-1,131  
 513. 1912 -- **Diphtheria**, NYC, NY --1,125  
 514. 1950 -- **Whooping Cough**, code 056 of 6<sup>th</sup> rev. of international lists, 1948 (US PHS)--1,118  
 515. 2019 -- Exposure to excessive natural **cold/hypothermia**, esp. MI/70 NY/65 PA/61 --1,115  
 516. 1998 -- **Tuberculosis**, ICD-9 code 010-018, death rate 0.40 per 100K, esp. LA, 0.72 --1,112  
 517. 2012 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.4; SD, 2.5 per 100K --1,106  
 518. 2006 -- **excessive natural heat**, esp. CA/194, AZ/169, NY/148, TX/106, IL/51, PA/50--1,104  
 519. 1675 -- Dec 19, English Colonists **Massacre** Narragansetts, Great Swamp, RI --365-1,100  
 520. 2004 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.376 per 100K; esp. ME (1.827) --1,100
521. 1984 -- **Influenza**, US death rate 0.46 per 100K, esp. MT, 2.3, OR/1.7, WA/1.4, AR/1.3 --1,096  
 522. 1925 -- **Meningococcus meningitis**, esp. NY/148, PA/79, IL/56, OH/53, MA/51 --1,095  
 523. 1872 -- **Cerebral Spinal Meningitis**, MA (esp. Boston), NYC, PA (esp. Philly) --1,090  
 524. 1901 -- **Smallpox**, esp. NY/436 (Bronx/312), PA/202 (Philly/178), NJ/139 (Newark/71)--1,085  
 525. 1912 -- **Polio**, acute anterior, code 63; Census “registration area” was 63.2% of pop.--1,081  
 526. 1772 -- **Measles** epidemics, Charleston, SC (800-900), Philadelphia, PA (180) --980-1,080  
 527. 1924 -- **Polio** (acute), especially late summer and fall, especially children --1,079  
 528. 1948 -- **Dysentery**, infectious and parasitic diseases ICD code 27 --1,078  
 529. 1939 -- June-Sep, **Heat**, esp. Sep 15-23, Los Angeles (546), TX (42), MO (37)<sup>42</sup>-527-1,073  
 530. 2011 -- excessive **natural heat**, esp. TX/183, AZ/177, PA/57, MO/52 IL/50 NY/45 --1,060  
 531. 1911 -- **Polio**, US registration area (63.1%), esp. OH/137, NY/101, PA/93, IN/69, KY/61--1,060  
 532. 1852 -- **Smallpox**, Nevada City, CA natives, NYC (407-516), Philadelphia/427--943-1,052

<sup>42</sup> Low-end of range is from Census Bureau and reflects death certificates listing heat as primary cause of death. High-end of range reflects results of Dept. of Public Health funded study of late Sep heat wave deaths in So. CA, in which 546 excess deaths above the norm were reported during 9-day “hot spell.”

533. 1999 -- **excessive natural heat**, esp. IL/153, PA/97, MO/92, TX/63, AZ/58, NY/56 --1,050  
534. 1993 -- **Influenza**, US death rate 0.40 per 100K; esp. ID 2.62; VE 2.42; MT 1.54; OR 1.37 --1,044  
535. 1955 -- **Polio** (acute); all States, esp. MA/168 (Boston ~200), WI/166, NY/77, TX/76--1,043  
536. 1935 -- **Polio** (acute), especially late Summer-and Fall, especially children --1,040  
537. 1870 -- May-Dec, **Yellow Fever**, esp. New Orleans/587 Mobile/173 Brunswick GA--1,038  
538. 1904 -- June 15, Fire, **General Slocum** excursion steamer, East River, NYC, NY-957-1,031  
539. 2018 -- exposure to excessive natural **cold/hypothermia**, esp. MN/36 CO/34 IN/35 --1,028  
540. 1899 -- **Typhoid fever** epidemics/outbreaks, Greensboro, NC; PA, esp. Philadelphia-1,026  
541. 1940 -- **Polio**, Nationwide, especially IL, IN, IA, KS, MI, OH and WV --1,026  
542. 1938 -- **epidemic cerebrospinal meningitis**, international list #18, *Vital Statistics*, Pt. I--1,024  
543. 1941 -- **Typhoid Fever**, Census Bureau. *Vital Statistics, Part I, Mortality*, p. 150 --1,022  
544. 2018 -- **excessive natural heat**, esp. AZ/252, Clark Co., NV/163, CA/106, TX/89 --1,012  
545. 1992 -- **Influenza**, US death rate 0.39 per 100K; esp. ME/1.94; MT/1.21; WV/1.27 --1,006  
546. 1633-34 -- **Smallpox epidemic**, New England Natives, Plymouth Colonists, MA >1,000  
547. 1663 -- **Smallpox**, Fort Orange, NY and Northern "NY" Native American Tribes --1,000  
548. 1677-78 -- **Smallpox epidemic**, Massachusetts Bay Colony --1,000  
549. 1818 -- Sep 12-14, **Hurricane**, Galveston, TX <1,000  
550. 1833 -- early Aug-early Nov, **Yellow Fever epidemic**, New Orleans, LA --1,000  
551. 1861-62 -- winter-spring, **Flooding**, CA, OR, WA, British Columbia ~1,000  
552. 1918 -- Oct 12-15, **Forest Fire**, Cloquet-Moose Lake, MN/WI 400-1,000  
553. 1927 -- Apr-May, rain, MS River **Flood**/levee breaks, MS, AR, LA, KY, MO --246-1,000

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

554. 1721-22, Apr-Apr, **Smallpox**, Massachusetts Colony, esp. Boston & Charlestown--944-991  
555. 1731 -- **Smallpox epidemics**, New York City (548-700) and Philadelphia (288) --836-988  
556. 1796 -- **Yellow Fever**, esp. Charleston, SC/300, New Orleans/250-400; Wilmington, NC/150--836-986  
557. 1954 -- **Heat** (esp. July), esp. MO/235, OK/178, KS/139, TX/95, IL/50, GA/39 --978-984  
558. 1961 -- **Hepatitis**, infectious -- 976  
559. 1848 -- **Yellow Fever**, Mobile AL~76, New Orleans/850-872, NY Marine Hosp./12 --937-960  
560. 1951 -- **whooping cough/pertussis**, esp. TX/110, GA/86, MS/72 NC/52 VA/48 AL/45--960  
561. 1864 -- Feb-Jun 1865 (17 mo.), **pneumonia/pleurisy**, Confederate POWs, Camp Chase OH--954  
562. 1946 -- **Dysentery**, infectious and parasitic diseases International List code 27 -- 952  
563. 1949 -- **Measles** (code 085); PHS, *Vital Statistics... [US] 1949, Part II...Mortality* -- 949  
564. 1955 -- Aug 31–Sep 9, **Heatwave/excessive deaths**, greater Los Angeles, CA<sup>43</sup> --115-946  
565. 1887 -- **Yellow Fever**, esp. Fernandina and Tampa, FL and New Orleans, LA -- 941  
566. 1760 -- **Smallpox epidemic**, Charleston SC (also undocumented Native deaths) --730-940  
567. 1952 -- **Dysentery**, infectious, all forms (codes 045-048), esp. TX/249 MS/71 KY/61 GA/46--939  
568. 2005 -- **excessive natural heat**, esp. AZ/244, NYC/~140, TX/111 CA/64, MD/47, NV/43--939  
569. 1960 -- **Hepatitis**, infectious -- 938  
570. 1876 -- **Smallpox epidemic**, Cincinnati, OH -- 934  
571. 1999 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.333 per 100K, esp. NM, 0.608 -- 930  
572. 2014 -- Exposure to excessive natural **cold/hypothermia** esp. PA IL NY OH MT NM-- 930

<sup>43</sup> 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.

573. 1988 -- **Heat**, Summer (esp.); esp. IL/341, MI/121, IN/~44, MO/~44, CA/37 --913-921  
 574. 2020 -- Exposure to excessive **natural cold**; ICD-10<sup>44</sup> code X31, esp. AK/NM/CO/MN--919  
 575. 1947 -- **cerebrospinal (meningococcus) meningitis infections** (Int. List No. 6) -- 917  
 576. 1949 -- **Meningococcal infections** (code 057) ; *Vital Statistics...[US] 1949, Part II* -- 917  
 577. 1849 -- Aug-Dec, **Yellow Fever**, Charleston SC, Mobile AL, New Orleans -- 912  
 578. 2019 -- Exposure to **excessive natural heat**, esp. AZ/283, TX/101, NV/88 --911-915  
 579. 1851 -- **Smallpox**, esp., NYC/562-586, Philadelphia/316; Augusta GA/7, Chicago/5 --895-909  
 580. 1875 -- **Croup and Diphtheria**, MI (374) and Hudson County, NJ (533) -- 907  
 581. 1756 -- **Smallpox** epidemic, Philadelphia --800-900

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

582. 1916 -- June 18-Aug 22, **Heat Waves**, esp. Chicago, Detroit, Milwaukee, St. Louis -- ~895  
 583. 1948 -- **Measles**, 1948 ICD infectious and parasitic diseases code 35 -- 888  
 584. 1953 -- **Dysentery**, infectious, all forms (codes 045-048), esp. TX/268, MS/52, GA/41-- 886  
 585. 2012 -- **excessive heat**, esp. AZ/209, CA/66, TX/62, IL/54, MO/54, MD/46, VA/24 -- 879  
 586. 1966 -- **Meningococcal infections**, esp. CA/109, TX/59, OH/50, NY/40, NC/38 -- 876  
 587. 2010 -- **excessive natural heat**, esp. AZ/228, TX/64, CA/46, NV/46, TN/45, PA/37 -- 874  
 588. 1948 -- **Cerebrospinal (meningococcus) meningitis infections** (code 6, ICD 1, 1948)--873  
 589. 1947 -- **Dysentery**, infectious and parasitic diseases Int. List code 27 -- 869  
 590. 1913 -- **Polio**, acute, esp. June-Sep (Sep peak), US “registration area” (65.1% pop.) -- 864  
 591. 1939 -- **cerebrospinal meningitis**, int. list #6, Census Bureau. *Vital Statistics 1939*, Pt. I--863  
 592. 1850 -- Jan-Oct, **Yellow Fever**, esp. Jefferson/Orleans Parishes/New Orleans, LA & SC<sup>45</sup>-- 862  
 593. 1942 -- **Malaria**. Census Bureau. *Vital Statistics...1942 -- Part II...Mortality* -- 861  
 594. 1939 -- **Scarlet Fever**, international list #8, Census Bureau. *Vital Statistics 1939*, Pt. I--853  
 595. 1934 -- **Polio** (acute), especially late Summer and Fall, especially children -- 852  
 596. 1926 -- **Polio** (acute), especially late Summer and Fall, especially children -- 851  
 597. 1809 -- **Yellow Fever**, esp. Brooklyn/NYC (42); New Orleans (civilian/military; ~800) -- 850  
 598. 1923 -- **Polio** (acute), especially late Summer and Fall, especially children -- 850  
 599. 2006 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.285 per 100K; esp. VE (1.605) -- 849  
 600. 1796 -- **Scarlet Fever** epidemic (especially children), Marblehead, MA and esp. VT--681-846  
 601. 1915 -- July 24, crowded SS steamer **Eastland rolls-over** at dock, Chicago, IL --812-844  
 602. 1967 -- **Infectious Hepatitis** -- 844  
 603. 1947 -- **Encephalitis**, acute infectious, Int. List infectious diseases code 37 -- 830  
 604. 1932 -- **Polio** (acute), especially late summer and fall, especially children -- 828  
 605. 1937 -- **Excessive Heat**, international list #191. Census Bureau. *Vital Statistics, Part I*--826  
 606. 1837 -- **Scarlet Fever**, Boston, MA, New York City, NY, Philadelphia, PA -- 823  
 607. 2017 -- exposure to **excessive natural heat**, esp. AZ/264, NV/235, CA/93, TX/40 -- ≥817  
 608. 2015 -- Exposure to excessive natural **cold/hypothermia**, esp. PA NY OH AK NM -- 815  
 609. 1929 -- **Polio** (acute), especially late summer and fall, especially children -- 812  
 610. 1805 -- **Yellow Fever**, esp. NYC/270-340, Philly/300-400, Providence, RI/10, SC/≤59--750-809  
 611. 1941 -- **Polio**, especially late summer and fall, especially children -- 807  
 612. 2017 -- Exposure to excessive natural **cold/hypothermia**, esp. AK WA MN CA MI -- 804  
 613. 1599 -- Jan 21, Spanish (Oñate) **Massacre** Acoma Natives, punitive expedition, NM-300-800

<sup>44</sup> Tenth revision of International Classification of Diseases.

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

614. 1795 -- July 19–Oct 12, **Yellow Fever** epidemic, NY City, also Providence RI ~745-800  
 615. 1833 -- **Malaria** Epidemic, ConCow Maidu Villages, Butte County, CA vicinity -- ~800  
 616. 1926 -- Sep 16–21, **Great Miami Hurricane**, Cat 4, FL, MS, AL<sup>46</sup> -- ~800

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

617. 1947 -- **Diphtheria**, infectious diseases Int. List No. 10 -- 799  
 618. 1933 -- **Polio** (acute), especially late Summer and Fall, especially children -- 797  
 619. 1925 -- Mar 18, **Tornadoes**, esp. Tri-State Tornado (IL/IN/MO) 695; AL/KY/TN --740-792  
 620. 1922 -- **Polio** (acute), especially late Summer and Fall, especially children -- 790  
 621. 1944 -- Dec 18, **three ships capsize, Navy Task Force 38**, , typhoon off Philippines-- ~790  
 622. 1940 -- **excessive heat**, international code 191. Census Bureau. Vital Statistics 1940-- 787  
 623. 1879 -- June-Dec, **Yellow Fever**, Forest City, AR, Louisiana, MS, Memphis, TN--682-786  
 624. 2016 -- exposure to **excessive natural heat**, esp. AZ (219), NV (89), CA (70), TX/86-- 786  
 625. 1864 -- **Cerebrospinal Meningitis** epidemic, Carbondale & Philadelphia PA -- 784  
 626. 2002 -- **Tuberculosis**, ICD-10 code A16-19, death rate .273 per 100K, esp. AR, .443-- 784  
 627. 1936 -- **Polio** (acute), especially late Summer and Fall, especially children -- 780  
 628. 1862 -- Aug 17-23 especially, **Dakota “insurrection,”** southcentral MN; also IA --750-779  
 629. 2000 -- **Tuberculosis**, ICD-10 code A16-19; death rate 0.276 per 100K, esp. LA, 0.559 -- 776  
 630. 1864 -- July-June 1865 (12 mo.), **pneumonia/pleurisy**, Confederate POWs, Elmira NY-773  
 631. 1939 -- **Polio**, especially late Summer through Fall, especially children -- 773  
 632. 1920 -- **Polio** (33 “registration states), especially young children -- 769  
 633. 2001 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.268 per 100K, esp. DC, 1.741 -- 764  
 634. 1861 -- **Smallpox epidemic**, Philadelphia, PA -- 758  
 635. 1854 -- **smallpox**, esp. Charleston SC/59, Chicago/12, Jacksonville FL/~15, NYC/624, Philly/40-- 750  
  
 636. 1919 -- **Polio** (Acute). Especially late Summer and Fall, especially children -- 747  
 637. 1824 -- **Smallpox epidemics**, NYC, NY, Philadelphia, PA, Sandusky, OH --740-745  
 638. 1852 -- **Yellow Fever epidemics**, Charleston SC, New Orleans, Savannah GA -- 745  
 639. 1996 -- **Influenza**, ICD-9 code 487; US death rate 0.276 per 100K; esp. SD (1.616) -- 745  
 640. 2000 -- exposure to excessive natural **cold/hypothermia**; ICD-10 code X31, esp. PA/48-742  
 641. 1911 -- **Scarlet Fever**, NYC, NY -- 741  
 642. 1911 -- Oct-June 8, 1912, **Cerebrospinal Meningitis** Epidemic, esp. TX , OK, MO-- 740  
 643. 2016 -- Exposure to excessive natural **cold/hypothermia**, esp. AK CA MI MT OH SD-- 731  
 644. 1949 -- **Whooping Cough**, Public Health Service. *Vital Statistics...[US] 1949, Part II*--727  
 645. 1982 -- **Influenza**, US death rate 0.31 per 100K, esp. NE/1.78, SD/1.74, ND/1.34 -- 727  
 646. 2002 -- **Influenza**, ICD-10 codes J09-11; US death rate 0.253 per 100K; esp. SD (2.237)-- 727  
 647. 2013 -- Exposure to excessive natural **cold/hypothermia**, esp. IL NY PA MN AZ WI--725  
 648. 1914 -- **Polio** (acute anterior), esp. late sum.-fall, esp. children, esp. NY/88, PA/65, VT/54--720  
 649. 1997 -- **Influenza**, ICD-9 code 487.0; US death rate 0.26 per 100K; esp. KS (0.99) -- 720  
 650. 1941 -- **Cerebrospinal Meningitis** -- 713  
 651. 1864 -- **Smallpox**, Fort Alton IL, Chicago/283, Philly/260, Northern VA/112, SC, DC-- 712  
 652. 1938 -- Sep 21, Long Island, NY & New England **Hurricane**, esp. RI, MA, CT --682-712  
 653. 2003 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.25 per 100K, esp. LA, 0.49 -- 711  
 654. 2007 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 X31 code; esp. NY/53-711

<sup>46</sup> Includes missing, presumed dead – see Narrative Information and footnotes below.

655. 2010 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31 -- 710  
 656. 1925 -- **Smallpox**, esp. MN/196, WI/134, CA/59, NJ/48, OH/47, IA/42, PA/29, IL/23-- 709  
 657. 1940 -- **Measles**, international code number 35. Census Bureau. *Vital Statistics 1940*-- 706  
 658. 1637 -- May 27, **Massacre**, Eng. Colonists Attack Pequot village, Mystic Riv. CT--400-700  
 659. 1644 -- Feb, Dutch / Eng. **Massacre**, Siwanoy, Petuquapaen, ~Cos Cob, CT<sup>47</sup> --500-700  
 660. 1881 -- Aug 27, **Hurricane**, Cat 2, Savannah (Georgia-South Carolina) -- 700  
 661. 2005 -- exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. MI/40-- 700

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

662. 1862 -- Feb-June 1865, **Diarrhea & Dysentery**, Confederate POWs, Camp Douglas, IL- 698  
 663. 1940 -- **cerebrospinal meningitis**, Census Bureau. *Vital Statistics II, 1940, Mortality*, 210--694  
 664. 1881 -- **Typhoid Fever**, Birmingham AL, Washington DC, Minneapolis, NYC -- 692  
 665. 1848 -- **Smallpox**, esp. New York City, NY/585 and Philadelphia, PA/100 -- 691  
 666. 1915 -- **Polio**, esp. late summer-fall, US registration area (67-1% pop.) esp. children-- 691  
 667. 1951 -- **Measles**, esp. TX/102, KY/43, OH/39, CA/37, IL/31, MO/30, PA/26, OK/25-- 688  
 668. 1881 -- July 6-16 esp., **heat**/sunstroke, esp. OH/585 (Cincinnati/456), also Pittsburgh -- ≥687  
 669. 1996 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901; esp. PA/43--685  
 670. 2004 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. PA/45--676  
 671. 2011 -- Exposure to excessive natural **cold/hypothermia**; 0.2 death rate; esp. AK, SD-- 672  
 672. 1912 -- **Measles**, New York City, NY -- 671  
 673. 1913 -- March 23-27, Ohio Valley **Flooding**, dam/levee failures, esp. OH, IN --593-670  
 674. 1940 -- **Scarlet Fever**, Census Bureau. *Vital Statistics, Part II, 1940, Mortality*, p.210-- 668  
 675. 1917 -- Summer to Fall (esp.), **Excessive Heat**, New York City (530), State of NY -- 665  
 676. 1911 -- **Measles**, New York City, NY -- 659  
 677. 2004 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.22 per 100K, esp. KY, 0.36 -- 657  
 678. 1809 -- May-Feb 1810 -- **Disease/Illness**, U.S. Army, MS -- 656  
 679. 1954 -- **Dysentery**, infectious, all forms (codes 045-048), esp. TX/172 and MS/61 -- 655  
 680. 1941 -- **Excessive heat**, International List #191, Census Bureau. *Vital Statistics* -- 654  
 681. 1978 -- Exposure to excessive natural **cold/hypothermia** (ICD-8 E901), esp. OH/39 -- 652  
 682. 2006 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.22 per 100K, esp. AR/.35, LA/.33-- 652  
 683. 2013 -- **Excessive natural heat**, esp. AZ/151, NV/80, CA/67, TX/53, NY/42, IL/23 -- 651  
 684. 1862 -- Aug 17-Sep, **Violence, Sioux "Insurrection,"** Litchfield, elsewhere, MN--300-650  
 685. 2005 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.22 per 100K, esp. LA, 0.39 -- 648  
 686. 1943 -- **Malaria**, Bureau of Census. *Vital Statistics...1943, Part II...Mortality*. P. 192-- 646  
 687. 2002 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. PA/47-- 646  
 688. 1863 -- Aug-Jun 1865, **Diarrhea & Dysentery**, Confederate POWs, Fort Delaware, DE-644  
 689. 1946 -- **Encephalitis**, acute infectious, International List infectious diseases code 37-- 642  
 690. 1993 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901 code, esp. MI/42-- 641  
 691. 2008 -- exposure to excessive natural **cold/hypothermia**; ICD-10 code X31, esp. MI/45-- 641  
 692. 1967 -- **Meningococcal infections** -- 635  
 693. 1948 -- **Diphtheria**, infectious diseases code 10 -- 634  
 694. 1977 -- **cold/hypothermia**, exposure to excessive natural (ICD-8 E901); esp. OH/43-- 634  
 695. 1994 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901, esp. NY/38--633

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



696. 1987 -- **Influenza**, death rate 0.26 per 100K; esp. NE/1.02 (16), SD/1.29 (9), VE/1.11 (6) -- 632
697. 1915 -- **Measles**, New York City, NY -- 630
698. 2002 -- **excessive natural heat**, esp. AZ/130, TX/62, PA/56, IL/54, MD/50, CA/44 -- 626
699. 1794 -- **Yellow Fever** epidemics, Baltimore, MD, and New Haven, CT -- 624
700. 1952 -- **Measles**, 24 states double digits, esp. PA/49, NY/48, AL&TN/40 IN&KY/30 IL/25-- 621
701. 2003 -- Exposure to excessive natural **cold/hypothermia**; ICD code X31, esp. PA/46-- 620
702. 1982 -- **HIV AIDS**, U.S. -- 618
703. 1897 -- July 1-11, **heat**, esp. upper midwest/NE, esp. Chicago/Cincinnati/St. Louis --608-616
704. 2009 -- Exposure to excessive natural **cold/hypothermia** (ICD-10 code X31) -- 616
705. 1912 -- **Scarlet Fever**, New York City, NY -- 615
706. 1955 -- excessive natural **heat** (US Public Health Service code E931) -- 615
707. 2021 -- **Influenza** (distinct from 41,309 pneumonia deaths); death rate 0.18, esp. TN/0.60--608
708. 1995 -- **Influenza**, ICD-9 code 487.0; US death rate 0.23 per 100K; esp. WV, 1.32 -- 606
709. 1979 -- **Influenza**, US death rate 0.27 per 100K, esp. ID/1.18, NE/1.15, KS/.98, WA/.85--604
710. 1903 -- Dec 30, **fire, suffocation, trampling**, Iroquois Theater, Chicago, IL -- 602
711. 2021 -- **tuberculosis**, ICD-10 codes A16-A19, esp. CA/106, TX/58, FL/36, NY/36 VA/22--602
712. 1835 -- Apr-Aug, **Cholera**, esp. Madison, IN; KY, esp. Russellville; New Orleans, TN--590-601
713. 1559 -- Sep 19-20, **hurricane**, Spanish ships and colonists, west coast of FL --?-600
714. 1759 -- **Smallpox** epidemic, Philadelphia --500-600
715. 1853 -- Burnt Ranch **massacre**, Settlers kill Tolowa, Yontocket, Smith Riv., No. CA --450-600
716. 1873 -- Aug 14-27, "Nova Scotia" **Hurricane**, off East Coast -- >600
717. 1928 -- Mar 12, **St. Francis dam failure**, Ventura County, CA --400-600
718. 1947 -- Apr 16-17, **Grandcamp ammonium nitrate explosion**, Texas City, TX --581-600
719. 2020 -- **Tuberculosis**, ICD-10 codes A16-A19; esp. CA/119, TX/66, NY/36, FL/30-- 600

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

720. 1853 -- **Cholera**, New Orleans (554-585); Choctaw on Arkansas River, OK/14 --568-599
721. 2001 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. MI/29-- 599
722. 1999 -- exposure to excessive natural **cold/hypothermia**; esp. NY/36, PA/36 -- 598
723. 1983 -- July-Aug esp., **heat** (esp. July 15-30) esp. MO/70 KY/57 IL/53 GA/35 TX/35-595-597
724. 1990 -- Exposure to excessive **natural cold/hypothermia**; ICD9 code E901; esp. IL/45--596
725. 1863 -- Nov 23-Mar 27 1865 (16 mo.), **Dysentery**,<sup>48</sup> Union POWs, Prison Hosp., Danville VA-592
726. 1844 -- **Yellow Fever** epidemic, Galveston, TX; Mobile, AL; New Orleans, LA -- 590
727. 1991 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901 code, esp. IL/63-- 588
728. 2008 -- **Tuberculosis**, ICD-10 code A16-19, death rate 0.19; esp. MS (above avg. rate) -- 585
729. 2005 -- June-Aug esp., **heat**, esp. AZ/244 TX/112 MD/47 PA/26 MO/25 NV/17 -- 584
730. 2007 -- **excessive natural heat**, esp. AZ/134, CA/74, TX/43, MO/39, TN/34, SC/26-- 582
731. 1823 -- July-Nov 1, **yellow fever** epidemic, Natchez & vicinity, MS, New Orleans -- 581
732. 1873 -- **Scarlet Fever**, especially children, MI -- 580
733. 1944 -- **Malaria**, infectious and parasitic diseases International List code 28 -- 580
734. 1947 -- **Polio** -- 580
735. 1936 -- **Excessive Cold**, international list #190. Census Bureau. *Mortality Statistics 1936*--579
736. 1953 -- **Heat**, esp. Aug 22-Sep 5, esp. MO/71, NY/43, TX/41, PA/40 -- 576
737. 1949 -- **Diphtheria**, code 055 -- 574

<sup>48</sup> "Diarrhoea and Dysentery."

738. 1702 -- summer to late fall, **yellow fever** epidemic, New York City, NY --500-570
739. 1948 -- **Encephalitis**, acute infectious (viral), 1948 ICD infectious diseases code 37 -- 570
740. 1752 -- early in year through at least Sum., **smallpox** epidemic, Boston, MA --535-569
741. 1909 -- **Polio** (acute), especially MA (74), MN (30), NE (135), and ND (19) -- 569
742. 2010 -- **Tuberculosis**, esp. AL, CA, KY, TX (above avg. death rate) -- 569
743. 2015 -- exposure to **excessive natural heat**, esp. AZ/139; NV/69, TX/64, CA/51 -- 567
744. 1956 -- **Polio**, especially late summer and fall, especially children -- 566
745. 1872 -- **scarlet fever**, especially children, MI -- 565
746. 1854 -- Sep 27, **US Mail steamer Arctic** hit by *Vesta*, Fog, Cape Race, NFLD --318-562
747. 1802 -- **Yellow Fever** epidemics, Wilmington DE, MD, MA, Philadelphia, NH, SC -- 561
748. 1942 -- **Polio**, especially late summer and fall, especially children -- 561
749. 1949 -- **Hepatitis**, infectious (code 092); PHS. *Vital Statistics...1949...Mortality* -- 560
750. 1918 -- Oct 12, **forest fires**, Cloquet, Moose Lake, many towns, northeast MN --453-559
751. 1992 -- Exposure to excessive natural **cold/hypothermia** (ICD9 code E901), esp. PA/37--558
752. 2009 -- **Excessive natural heat**, esp. AZ/156, TX/79, CA/63, FL/39, IL/21 -- 555
753. 2013 -- **Tuberculosis**, ICD-10 Code A16-A19, especially CA (133) and TX (61) -- 555
754. 2007 -- **Tuberculosis**, death rate 0.184 per 100K, esp. TN/.389 above avg. -- 554
755. 1995 -- Exposure to excessive natural **cold/hypothermia** (ICD9 code E901); esp. IL/41--553
756. 1868 -- July 6-18, **excessive heat/sunstroke**, esp. NY/313, St. Louis/45, OH/42 -- 552
757. 1950 -- **Hepatitis**, infectious, code 092, 6<sup>th</sup> rev. of International Lists/1948, US PHS-- 552
758. 1958 -- **Measles**, esp. TX/50, OH/36, IL/34, NY/NC/PA/28 each, KY, 23, IN/20 -- 552
759. 1957 -- June 26-28, **Hurricane Audrey**, SW LA/526; also TX, IL, IN, NY, Can. --545-550

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

760. 1888 -- July-Dec, **Yellow Fever** epidemic, FL esp. Jacksonville/430; Decatur AL/35-- 546
761. 2018 -- **Tuberculosis**, ICD-10 codes A16-A19, esp. CA/100, TX/50, NY/39, FL/38 -- 542
762. 1947 -- **Heat**, excessive, International list code 191 -- 540
763. 2011 -- **Tuberculosis**, ICD-10 Code A16-A19, esp. CA (108), NY, SC (above avg. DR)-- 539
764. 2001 -- **excessive natural heat**, esp. AZ/74, TX/59, MO/41, IL/38, FL/30, CA/29, PA/28--538
765. 1875 -- **Scarlet Fever**, Michigan and Hudson County, NJ -- 537
766. 1936 -- Jan-Feb, **Arctic cold waves, snow, blizzards, snowslides**, flooding<sup>49</sup> --484-536
767. 1945 -- **Typhoid Fever** (471), Int. List No. 1; paratyphoid fever (63), Int. List No. 2-- 534
768. 1699 -- **Yellow Fever** epidemics, Charleston, SC (170-311); Philadelphia (220) --390-531
769. 1956 -- **Measles**, 21 states double digits, esp. IL/41 TX/31 OH/30 NC/29 PA/28 MI/26-- 530
770. 2009 -- **Tuberculosis**, ICD-10 code A16-19, esp. CA, LA, OK, TX (above avg. death rate)-- 529
771. 1939 -- **Excessive Heat**, international list #191. Census Bureau. *Vital Statistics*, Part 1--527
772. 2019 -- **Tuberculosis**, ICD-10 codes A16-A19, esp. CA/112, TX/54, NY/37, FL/35 -- 526
773. 1954 -- **Measles**, 21 states double digits, esp. NY/36, TX/36, NC/35, PA/34, KY/27 -- 524
774. 1989 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901.0; esp. IL/45--524
775. 1897 -- Sep-Dec, **Yellow Fever**, esp. Mobile/48, New Orleans/298, MS, Memphis -- ~520
776. 1903 -- June-Aug (esp. July 1-11), **Heat**, esp. NY/144, NJ/60, IN/17, Chicago/15, CT/18 -- 520
777. 1985 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901.0; esp. IL/39 -- 519
778. 2006 -- Exposure to excessive natural **cold/hypothermia**; ICD-10 code X31; esp. MI/37--519
779. 2017 -- **Tuberculosis**, IDC-10 code A16-19, esp. CA/108 TX/49 NY/31 PA/22 NJ/21-- 515

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

780. 1915 -- Aug 16-17/19-20, **Hurricane**/trop. storm, Gulf, SE TX coast, remnant, MO--453-510
781. 1983 -- Exposure to excessive natural **cold/hypothermia**; ICD9 E901.0; esp. GA/36-- 510
782. 2012 -- **Tuberculosis**, ICD-10 Code A16-A19, especially CA (101) and TX (63) -- 510
783. 1920 -- **Smallpox**, 34 registration states, esp. LA/167, MS/45, MO/28, NC/28 <sup>50</sup> -- 508
784. 1913 -- **Scarlet Fever**, NYC, NY -- 507
785. 1730 -- **Smallpox** epidemic, Massachusetts Bay Colony, especially Boston --  $\geq$ 502
786. 2008 -- **Excessive natural heat**, esp. AZ/112, TX/66, CA/51, PA/36, NV/35, NC/25-- 502
787. 1997 -- Exposure to excessive natural **cold/hypothermia**; ICD9 code E901; esp. IL/36-- 501
788. 2012 -- Exposure to excessive natural **cold/hypothermia**; esp. CA/32 NY/31 IL/25 -- 501
789. 1644 -- Apr 18 (or Mar 18), **Powhatans attack** English colonists along James River VA--400-500
790. 1690 -- spring-fall, **Smallpox**, Iroquois Native Americans, esp. upper NY ~300-500
791. 1793 -- **Influenza** epidemic, VA, 5 counties, 4 weeks -- 500
792. 1804 -- GA, SC, NC **Hurricane**, September 7-9 -- 500
793. 1811 -- **Yellow Fever** epidemic, New Orleans, LA -- >500
794. 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
795. 1864 --July 30, **Rebels kill wounded/surrendered/trapped black soldiers**, Petersburg, VA~500
796. 1864 -- Sep, general **massacre** of Yana Natives, Northern CA -->335-500
797. 1865 -- Mar 31, steam transport **General Lyon** burns, Cape Hatteras, NC --400-500
798. 1881 -- Sep 01-06, **wildfire**, "The Thumb Fire," Lower Michigan --169-500
799. 1888 -- Jan 11-12, Schoolchildren's **Blizzard**, IA/KS/ND/MN/MT/NE/SD/TX --315-500
800. 1898 -- Nov 26-27, **Portland Gale**, **SS Portland sinks** (Cape Ann MA), New Eng.<sup>51</sup>-400-500
801. 2010 -- **Influenza**, ICD-10 codes J09-J11; US death rate 0.2 per 100K; esp. AK, KS (.4) -- 500

<sup>50</sup> Based on death certificate data from 34 "registration states" as well as 17 cites in non-registration states of AL, GA, ND, OK, TX and WV, with an estimated population of 87,45,921 or 82.3% of total estimated U.S. and Hawaii territory population. AK was not a State. Other non-reporting states were AZ, AR, ID, IA, MN, NM, SD, and WY.

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