

**RANK-ORDERING by TYPE of Large-Loss-of-Life Events ( $\geq$ ten deaths) by STATE**

**DEADLIEST AMERICAN DISASTERS AND LARGE LOSS-OF-LIFE EVENTS<sup>1</sup>**

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

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

**B. Wayne Blanchard, PhD  
Blue Ridge Summit, PA**

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**Chronology**

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

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

**Spreadsheet.**

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<sup>1</sup> We use the term “Large-Loss-of-Life Event to denote ten or more deaths. There are a number in instances where, for a variety of reasons, we enter an event with fewer than 10 fatalities. We do not, though, include these in tally.

### **Auto Racing Accidents**

- 1. New York -- 1 (Plus four deaths in 1910 at the Long Island Motor Parkway.)
- California -- 0 (But 8 spectator deaths Cal 200 Race crash, 2010, Mojave Desert.)
- Maryland -- 0 (But 8 spectator deaths 2008 street drag racing, Accokeek.)
- Tennessee -- 0 (But 4 deaths Labor day Race, State Fair Grounds, Nashville, 1913.)

### **Avalanche/Snowslide**

- 1. Colorado -- 7 (Plus two – one with 7 fatalities and one with 5.
- 2. Utah -- 5
- 3. Idaho -- 3
- 4. Washington -- 2
- 5. Alaska -- 1 (Plus two with 6 fatalities each in 1999 and 2001.)
- 6. California -- 1 (Plus one with 7 deaths.)
- 7. Nevada -- 1
- 8. Montana -- 0 (But 12-31-1993 event killed 5 snowmobilers; one in 2002 killed 4.)

## Aviation

1. California	--106 (Plus 41 events incidentally noted with 5-9 deaths each.)
2. Florida	-- 50 (Plus 23 events incidentally noted with 4-9 fatalities each.)
3. Alaska	-- 48 (Plus 29 events noted with 5-9 deaths each.)
4. Texas	-- 44 (Plus 19 events noted with 5-9 deaths.)
5. New York	-- 35 (Plus 4 events noted with 5-8 deaths each.)
6. Washington	-- 31 (Plus 17 events noted with 5-9 deaths each.)
7. Arizona	-- 29 (Plus 13 events noted with 5-8 deaths each.)
8. New Mexico	-- 29 (Plus 8 events noted with 4-8 deaths each.)
9. Colorado	-- 27 (Plus 15 events noted with 3-9 deaths each.)
10. Hawaii	-- 24 (Plus 10 events noted with 5-9 deaths each.)
11. North Carolina	-- 24 (Plus 8 events noted with 4-9 deaths each.)
12. Virginia	-- 23 (Plus 11 events noted with 5-9 deaths each.)
13. Illinois	-- 22 (Plus 3 events noted with 5, 6 and 7 deaths.)
14. Nevada	-- 19 (Plus 4 events noted with 5-7 deaths each.)
15. New Jersey	-- 19 (Plus 4 events noted with 5-9 deaths each.)
16. Pennsylvania	-- 18 (Plus 7 events noted with 7-9 deaths each.)
17. Georgia	-- 17 (Plus 14 events noted with 5-9 deaths each.)
18. Louisiana	-- 17 (Plus 9 events noted with 5-9 deaths each.)
19. Massachusetts	-- 16 (Plus 3 events noted with 5-6 deaths each.)
20. Oklahoma	-- 14 (Plus 6 events noted <10 deaths: 3 with five deaths each, 2 with six, 1 with 9.)
21. Tennessee	-- 13 (One was 1950 in SC/31 TN ANG were killed. Plus 5 events with 5-9 deaths.)
22. Kansas	-- 12 (Plus 2 events noted with 5 deaths each.)
23. Nebraska	-- 12 (Plus 4 events with 5-7 deaths each.)
24. Utah	-- 12 (Plus 3 events noted with 5-9 deaths each.)
25. Montana	-- 11 (Plus 5 events noted with 6-8 deaths each.)
26. Ohio	-- 11 (Plus 11 events noted 3-9 deaths each.)
27. Oregon	-- 11 (Plus 4 events noted with 6-8 deaths each.)
28. Indiana	-- 9 (Plus 7 events 5-9 deaths each.)
29. Kentucky	-- 9 (Plus 9 events noted with 5-9 deaths each.)
30. Maryland	-- 9 (Plus 5 events noted with 5-9 deaths each.)
31. Michigan	-- 9 (Plus 6 events with 5-9 deaths each.)
32. South Dakota	-- 9 (Plus 4 events with 7-9 deaths each.)
33. Wyoming	-- 9 (Plus 4 events noted with 7-9 deaths each.)
34. Idaho	-- 8 (Plus 7 events noted with 6-9 deaths each.)
35. Missouri	-- 8 (Plus 6 events noted with 5-9 deaths each.)
36. Alabama	-- 7 (Plus 5 – 9 deaths in 1954, 8 in 1983 and in 1995, 7 in 1972 and 6 in 1992.)
37. Arkansas	-- 7 (Plus 14 events noted with 5-8 deaths each.)
38. Iowa	-- 7 (Plus 5 events <10 deaths: 2 with 5 deaths, 1 with 6, one with 7, and 1 with 8.)
39. Minnesota	-- 7 (Plus 11 with 5-8 deaths: 3 with eight, 1 with seven, 3 with six, and 4 with five.)
40. South Carolina	-- 7 (Plus 4 events <10 deaths: 9 in 1955, 6 and 8 in 1971, and 6 in 1978.)
41. Maine	-- 6 (Plus 9 events: 5/1952, 6 in 1942/1957/1962, 7 in 1963, 8 in 1958/1978/1985, 9/1943.)
42. Puerto Rico	-- 6
43. West Virginia	-- 6 (Plus 7 events <10 deaths: 1 with nine deaths, 1 with 8, 4 with 6, and 1 with five.)
44. Mississippi	-- 5 (Plus 6 -- 9 deaths in 1963 and 1988, 8 in 1978, 6 1972 and 1977, 5 in 1974)
45. Connecticut	-- 3 (Plus 4 events 6-9 deaths: 1 with 6, 1 with 7, 1 with 8, and 1 with 9 deaths.)
46. New Hampshire	-- 3 (Plus 2 events with 7 deaths each in 1959 and 2002.)
47. District of Columbia	-- 2 (Plus 1. 1949 collision/crash cross listed in DC; half of Eastern plane fell into Potomac.)
48. Wisconsin	-- 2 (Plus 10 events 5-9 deaths - 2 with 9, 1 with 8, 3 with 7, 2 with 6, one with 5.)
49. Delaware	-- 1 (Plus 2 events noted with 5 and 6 deaths each.)
50. North Dakota	-- 1 (Plus 4 – 4 deaths in 1968, 6 in 1969, 8 in 1981 and 2 in 2007 bird strike crash.)
51. Vermont	-- 1 (Plus 1 at 7 deaths).
52. Rhode Island	-- 0 (But 6 events with 5-9 deaths each.)

## **Carbon Monoxide Poisoning/Natural Gas Asphyxiation**

1. New York -- 2
2. Florida -- 1 (Plus 4-5 deaths following Hurricane Wilma, Oct 24, 2005.)
3. Illinois -- 1
4. Kentucky -- 1
5. Rhode Island -- 1 (Leaking gas in double cottage, while victims were sleeping, 1924.)
- Louisiana -- 0 (But 5 deaths following Hurricane Katrina in 2005.)
- Maryland -- 0 (But 8 deaths March 28-29, 2015 home, from inside generator.)
- Missouri -- 0 (But 7 deaths on Dec 17, 2007, from exhaust from car in apt. garage.)
- New Jersey -- 0 (But 5 deaths following Hurricane Sandy, Oct 29-30, 2012.)
- Ohio -- 0 (But 5 deaths following Jan 28, 1977 Blizzard in Fostoria.)
- Pennsylvania -- 0 (But six in one family on 2-4-1936 in Rankin.)
- Texas -- 0 (But 9 deaths after Rita in 2005 and 8-9 deaths after Ike, Sep 2008.)
- Washington -- 0 (But 8 deaths after Dec 2006 windstorm.)

1. New York	--385 (Plus 133 in "Other.")	<b>Disease, communicable (particularly epidemic events)</b>
2. Pennsylvania	--320 (Plus 127 in "Other.")	(Often the reason a listing is in "other" is that the
3. California	--261 (Plus 159 in "Other.")	death rate was at or below the national average.)
4. Texas	--255 (Plus 147 in "Other.")	
5. Tennessee	--250 (Plus 71 in "Other.")	
6. Ohio	--244 (Plus 129 in "Other.")	
7. Missouri	--243 (Plus 85 in "Other.")	
8. Illinois	--238 (Plus 156 in "Other.")	
9. Kentucky	--235 (Plus 81 in "Other.")	
10. Louisiana	--223 (Plus 145 in "Other.")	
11. Alabama	--213 (Plus 107 in "Other.")	
12. Massachusetts	--211 (Plus 157 in "Other.")	
13. South Carolina	--205 (Plus 129 in "Other.")	
14. Indiana	--195 (Plus 131 in "Other.")	
15. New Jersey	--190 (Plus 133 in "Other.")	
16. North Carolina	--186 (Plus 129 in "Other.")	
17. Georgia	--182 (Plus 129 in "Other.")	
18. Mississippi	--180 (Plus 103 in "Other.")	
19. Michigan	--178 (Plus 177 in "Other.")	
20. Virginia	--170 (Plus 151 in "Other.")	
21. Arkansas	--158 (Plus 89 in "Other.")	
22. Florida	--142 (Plus 174 in "Other.")	
23. Wisconsin	--134 (Plus 158 in "Other.")	
24. West Virginia	--129 (Plus 96 in "Other.")	
25. Iowa	--124 (Plus 123 in "Other.")	
26. Maryland	--121 (Plus 162 in "Other.")	
27. Minnesota	--119 (Plus 132 in "Other.")	
28. Oklahoma	--116 (Plus 88 in "Other.")	
29. Kansas	--106 (Plus 133 in "Other.")	
30. District of Columbia	--105 (Plus 56 in "Other.")	
31. Connecticut	-- 95 (Plus 168 in "Other.")	
32. Arizona	-- 94 (Plus 111 in "Other.")	
33. Nebraska	-- 93 (Plus 118 in "Other.")	
34. New Mexico	-- 91 (Plus 81 in "Other.")	
35. Maine	-- 90 (Plus 129 in "Other.")	
36. Washington	-- 85 (Plus 160 in "Other.")	
37. Vermont	-- 78 (Plus 91 in "Other.")	
38. Oregon	-- 74 (Plus 131 in "Other.")	
39. New Hampshire	-- 72 (Plus 105 in "Other.")	
40. South Dakota	-- 70 (Plus 64 in "Other.")	
41. Colorado	-- 69 (Plus 147 in "Other.")	
42. Montana	-- 69 (Plus 79 in "Other.")	
43. Rhode Island	-- 62 (Plus 112 in "Other.")	
44. Idaho	-- 54 (Plus 66 in "Other.")	
45. North Dakota	-- 48 (Plus 59 in "Other.")	
46. Delaware	-- 46 (Plus 79 in "Other.")	
47. Utah	-- 35 (Plus 108 in "Other.")	
48. Hawaii	-- 31 (Plus 55 in "Other.")	
49. Nevada	-- 31 (Plus 44 in "Other.")	
50. Alaska	-- 30 (Plus 21 in "other.")	
51. Wyoming	-- 22 (Plus 53 in "other.")	

Puerto Rico -- 4

### **Drownings, especially swimming**

1. Michigan -- 2
  2. New York -- 2 (Plus nine swimming deaths, July 4, 1911, NYC.)
  3. Wisconsin -- 2
  4. Florida -- 1
  5. Illinois -- 1 (Plus 8 on July 4, 1897 during heat wave in Lake MI at Chicago.)
  6. Kentucky -- 1
  7. Maine -- 1
  8. Massachusetts -- 1
  9. Pennsylvania -- 1
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- California -- 0 (But 7, when going through thin ice in 1990.)
- Iowa -- 0 (We do note 1965 drowning deaths of 6 children, Ledges State Park.)
- Louisiana -- 0 (Six teens drowned in Red River, Shreveport, 8-2-2010.)
- Ohio -- 0 (7 fishermen drown -- Lake Erie “wall-of-water” wave hits, 1942.)

### Dust/Sand Storm/Dust Bowl-related

1. Arizona -- 1 (Cross-listed in Road/Highway/Vehicular accidents.)
2. Texas -- 1 (1930-1939 dust-bowl related.)
3. California -- 1
4. New Mexico -- 1 (Cross-listed in aviation -- USAAF B29 crash in sandstorm in 1945.)
5. Oklahoma -- 1 (1930-1939 dust-bowl related.)
- Colorado -- 0 (Though there were 6 deaths in March 1935 dust storms.)
- Illinois -- 0 (Though one event in 2023 with six deaths.)
- Kansas -- 0 (Though there were 8 deaths in March 1935 dust storms.)
- Oregon -- 0 (Though there were 8 deaths from Sep 25, 1999 I-84 pileup.)
- Utah -- 0 (Though there were 8 deaths in 2021 dust-storm related I-15 pileup.)

## Earthquakes

1. California -- 10 (Plus one with nine deaths in "Other.")
  2. Alaska -- 1
  3. Arkansas -- 1
  4. Hawaii -- 1
  5. Kentucky -- 1
  6. Missouri -- 1
  7. Montana -- 1 (Cross-listed with 1959 Hebgen Lake Landslide.)
  8. South Carolina -- 1
  9. Tennessee -- 1
  10. Maritime, MS Riv.-- 1
- Arkansas -- 0 (But one event in 1811 with "several" deaths.)
- Georgia -- 0 (5 deaths indirectly related to 8-31-1897 Charleston SC earthquake.)
- Washington -- 0 (But 8 deaths in April 13, 1959 Puget Sound area earthquake.)

## Environmental Smog / Pollution

1. New York -- 2
2. Pennsylvania -- 1



**Explosions, commercial, industrial, military (Mining, tunneling, maritime, elsewhere)**

1. Pennsylvania -- 32 (Plus 3 events 8-9 deaths. Includes cross-listings from Fire-Structural.)
2. New York -- 21 (One was So. Amboy NJ explosion killing 14 men from NYC area.)
3. New Jersey -- 18 (Plus  $\geq 7$  deaths in 1916 Black Tom Deport sabotage explosion.)
4. California -- 16 (Includes 3 cross-listed in maritime, and one with 8 fatalities.)
5. Illinois -- 15 (Plus 1 in 1921 with 8 deaths.)
6. Ohio -- 11
7. Texas -- 11
8. Michigan -- 9 (Plus 7 deaths in 1988, 6 in 1999, and another 5 in 1999 events.)
9. Louisiana -- 8 (Plus 2 with 6-7 deaths – 6 deaths in 1938 and 7 in 1946.)
10. Iowa -- 7 (Plus we note an explosion in 1945 with eight deaths.)
11. Massachusetts -- 7 (Plus 1 event <10 deaths: 9 fatalities 7-19-1946.)
12. Tennessee -- 7
13. Virginia -- 7
14. Indiana -- 6 (Plus 2 events <10 deaths: 5 in 1891 and 5 in 2001.)
15. Missouri -- 5 (Plus 3 events 6-8 deaths: 7 in 1934, 6 in 1945, 8 in 1972.)
16. Delaware -- 4 (Plus Nov 1960 dust explosion, 5 killed.)
17. Maryland -- 4 (Excludes 4 maritime explos. and 1 mining explos.; but 9 in 1916.)
18. Oklahoma -- 4 (Plus 5 7-9 deaths – 9 in 1970, 8-9 in 1919, 7 in 1933, 7 in 1934, 7 in 1982.)
19. Georgia -- 3
20. Hawaii -- 3 (Includes cross-listing of 1969 maritime explosion.)
21. Minnesota -- 3
22. Nevada -- 3 (Plus 7 deaths in March 18, 2013 mortar explosion.)
23. North Carolina -- 3 (Plus 6 deaths in Jan 29, 2003 dust explosion in Kinston, NC.)
24. Colorado -- 2
25. Kentucky -- 2 (Plus 2 events noted with 7 deaths each.)
26. Nebraska -- 2 (Plus 2 events <10 deaths -- 8 deaths in 1944 and 9 in 1945 events.)
27. South Carolina -- 2
28. West Virginia -- 2
29. Wisconsin -- 2 (Plus 4, 6-9 deaths: 6 in 1920 & 1926 and two in 1937 with 9 each.)
30. Alabama -- 1 (Plus 1 with 7 deaths.)
31. Arkansas -- 1
32. Connecticut -- 1 (Plus 1 with 5 deaths.)
33. District of Col. -- 1
34. Florida -- 1
35. Kansas -- 1 (Plus 2 events noted with 6 and 9 deaths each.)
36. Mississippi -- 1 (Plus 1 event <10 deaths 5 in 2002.)
37. Montana -- 1
38. New Mexico -- 1
39. Oregon -- 1
40. Rhode Island -- 1
41. Utah -- 1
42. Vermont -- 1
43. Washington -- 1
44. Wyoming -- 1
- Alaska -- 1
- Arizona -- 0 (A 1963 natural gas leak explosion in Tucson took 7 lives.)
- Idaho -- 0 (A 1927 gas explosion in Turner in took 7 lives.)
- Maine -- 0
- New Hampshire -- 0 ND and South Dakota--0 (6 died in 1949 gas explosion at a Marion, SD.)

## **FIRE -- Forest, Prairie, Wildfire**

1. California --14 (Plus 3: 1 with 6 deaths in 1995; 1 with 8 in 2006, 1 with 3 in 1993.)
2. Michigan -- 6
3. Minnesota -- 3
4. Wisconsin -- 3
5. Oregon -- 2
6. Arizona -- 1
7. Colorado -- 1
8. Hawaii -- 1
9. Idaho -- 1
10. Maine -- 1
11. Montana -- 1
12. North Dakota -- 1
13. South Carolina -- 1
14. Tennessee -- 1
15. Texas -- 1
16. Washington -- 1
17. Wyoming -- 1
18. Pennsylvania -- 0 (Though there were 8 fire-fighter (CCC) deaths on 10-19-1938.)

## Fire, structural (Non-aviation, maritime, mining, rail)

1. New York -- 81 (Includes 12 NY resident deaths, 11-28-1942 Coconut Grove fire, Boston)
2. Illinois -- 39
3. Pennsylvania -- 41 (Plus 2 events noted with 8 and 9 deaths each.)
4. New Jersey -- 23 (Plus 8 deaths in 1992 fire.)
5. Missouri -- 18 (Including fires following explosions in 1887, 1928, and 1947.)
6. Massachusetts -- 16 (Plus 5 with 5-9 deaths: 6 in 1909, 9 in 1962, 9 in 1972; 5 in 1985.)
7. California -- 15 (Includes fires in 1906 earthquake.)
8. Michigan -- 13 (Plus one in 1993 with 9 deaths.)
9. Ohio -- 13 (Plus 2 -- 6 dead in home stove fire in 1954; 9 in house fire in 2005.)
10. Connecticut -- 11 (Plus three -- one with 9 and two with 5 deaths in "Other.")
11. Minnesota -- 9 (Plus 4: 6-7 deaths -- 7 in 1889 and 1956, and 6 in 1975 and 1999.)
12. South Carolina -- 9 (Plus 3 <10 deaths -- 5 each in 1935 and 2014, and 9 deaths in 2007.)
13. Texas -- 8
14. Washington -- 8 (Plus 4: 5-9 deaths: 8-9 in 1972, 9 in 1984, 8 in 1998, 5 in 1992.)
15. Wisconsin -- 8 We note as well two fires with 6 & 8 deaths.
16. Arkansas -- 7 (Plus 2 fires 7-8 deaths: 8 in 1957 and 7 deaths in 1964.)
17. Georgia -- 7 (Plus four -- one with 8, one with 6 and two with 5 deaths each.)
18. Indiana -- 6 (Plus 5 <10 events -- 8 in 1944 fire, 7 in 1959, 6 1963, 2006, 2014 fires.)
19. Oklahoma -- 6 (Plus four <10 deaths: 5/1958, 8/1963, 7/2006, 5/2014.)
20. Tennessee -- 6 (Plus three 6-9 deaths.)
21. Virginia -- 6
22. Florida -- 5 (Plus two: 7 deaths in 1901 and 6 in 2006.)
23. Kentucky -- 5 (Plus 5 in 1959 fire, 7 in 1963, 6 in 1989, 7 in 2013, and 9 in 2014.)
24. New Mexico -- 5
25. Oregon -- 5 (Plus 7 deaths in 1972 Portland fire.)
26. Colorado -- 4 (One cross-listed with explos.; one as circus train fire).
27. Louisiana -- 4 (Plus 4 events 5-8 deaths.)
28. Mississippi -- 4 (Plus 2 -- 6 deaths in 1959 and 7 in 1969.)
29. Alabama -- 3 (Plus 2 fires <10 deaths -- one with 7 and one with 5 deaths.)
30. Maryland -- 3 (Plus 10 with 6-9 deaths.)
31. Nevada -- 3
32. New Hampshire -- 3
33. Rhode Island -- 3
34. Vermont -- 3
35. West Virginia -- 3
36. Arizona -- 2 (One cross-listed in rail and in explosions.)
37. District of Col. -- 2 (One cross-listed in Explosion.) Plus 1961 nursing home fire with 7 deaths.
38. Kansas -- 2 (3 <10 deaths: 5 in 1916, 7 in 1936, 6 in 1959.)
39. Maine -- 2 (Plus 12 fires with 5-8 deaths.)
40. Nebraska -- 2 (Plus 4 with 5-9 deaths: 7 in 1933, 8 in 1948, 5 in 1954, 5 in 1968.)
41. North Carolina -- 2 (Plus 9 deaths in 1948 fire, 7 in 2007 fire, and 6 in a 2014 fire.)
42. Alaska -- 1 (Plus 2 -- one with 5 deaths in 1900; another with 5 deaths in 1958.)
43. Delaware -- 1
44. Montana -- 1
45. North Dakota -- 1
46. South Dakota -- 1 (Plus 1 event <10 deaths: 7 in Feb 11, 1943 fire.)
47. Utah -- 1 (Plus 3 events <10 deaths: 5 in 1950 and Jan 1963, 6 in 1971.)
48. Idaho -- 0 (Seven deaths in 1963 rest home fire.)

### **Flooding/Flash Floods (not including Hurricanes and Mines)**

1. Pennsylvania -- 28 (Includes flooding as the cause of a train derailment.)
2. Texas -- 26
3. California -- 17 (Includes one cross-listed in Winter Storms.)
4. West Virginia -- 17 (We also note June 1949 flash flood with 9 deaths in Petersburg area.)
5. Missouri -- 10
6. Colorado -- 9 (Plus one with 8 fatalities in 2013.)
7. Ohio -- 9 (Plus 2 floods 5 deaths each in March 1964 and 1997.)
8. Arizona -- 8 (Plus 1964 flash flood with 7 deaths.)
9. Kentucky -- 7 (Plus 9 deaths in 1957 and 7 drowning deaths in May 7-10, 1984 flooding.)
10. Oregon -- 7 (Plus 2 events <10 deaths: ~5 in 1890, 9 in 1996 (flood/slide deaths.)
11. Iowa -- 6
12. New York -- 6
13. Oklahoma -- 6 (Plus 7 deaths during Dec 26-27, 2015 flooding.)
14. Virginia -- 6 (Three cross-listed with Hurricane and Tropical Storm remnants; 1 <10.)
15. Arkansas -- 5
16. Georgia -- 5 (One is cross-listed in rail in that a flash flood took out a trestle.)
17. Louisiana -- 5 (Plus 9 deaths in Apr-May 1953 flooding.)
18. Maryland -- 5 (One cross-listed with hurricane. Plus 6 dead, 1817 Baltimore flood.)
19. North Carolina -- 5 (Includes cross-listing of Hurricane Matthew in 2016.)
20. Tennessee -- 5 (Plus 2 events <10 deaths – 4 in 1940 and 9 in 7-24-1954 flash flood.)
21. Kansas -- 4
22. Indiana -- 3
23. Massachusetts -- 3
24. Mississippi -- 3
25. Montana -- 3
26. Nebraska -- 3
27. Wyoming -- 3 (Plus 1 event >10 deaths: May 1935 flooding.)
28. Alabama -- 2
29. Connecticut -- 2
30. Hawaii -- 2 (Plus 1 event 3-14-2006, with 7 deaths when earthen dam failed.)
31. Illinois -- 2 (Plus 1 flood event in 2015 with 9 deaths.)
32. New Mexico -- 2
33. South Dakota -- 2
34. Vermont -- 2
35. Washington -- 2 (Plus 2 events noted with 5 and 9 deaths each.)
36. Florida -- 1
37. Idaho -- 1 (Cross-listed in Structural Failure-Dams; 1976 Teton Dam failure.)
38. Minnesota -- 1 (Also, 41 died in the Milford Iron Ore Mine Flood of Feb 5, 1924.)
39. Nevada -- 1 (Plus 1 event <10 deaths: 5 in Sep 1984 flash flood.)
40. Rhode Island -- 1 (Plus 3-5 deaths in June 5-6, 1982 flooding.)
41. South Carolina -- 1
42. Utah -- 1 (Plus two flash floods with 6 and 7 drowning deaths.)
43. Wisconsin -- 1 (Cross-listed in Rail, in that this was a flood washout on rail-line.)
44. Delaware -- 0
45. District of Columbia -- 0
46. Maine -- 0
47. Michigan -- 0 (Though 51 died in the Nov 3, 1926 Barnes Hecker Mine flood.)
48. New Hampshire -- 0 (Though there have been many deadly floods, none took  $\geq 10$  lives.)
49. New Jersey -- 0 (But 6 deaths in Aug 18-19, 1955 Hurricane Diane flooding.)
50. North Dakota -- 0

## Fog, as a Contributing Factor

- |                    |      |   |
|--------------------|------|---|
| 1. California      | --12 | (Cross-listed in Aviation, in Maritime, and in Road/Highway.) |
| 2. Massachusetts   | -- 7 | (Cross-listed in Aviation, and in Maritime.)                  |
| 3. Illinois        | -- 6 | (Cross-listed in Aviation, in Maritime, and in Rail.)         |
| 4. Connecticut     | -- 4 | (Cross-listed in Aviation, in Maritime and in Rail.)          |
| 5. Michigan        | -- 4 | (Cross-listed in Maritime.)                                   |
| 6. Florida         | -- 3 | (Cross-listed in Highway/Road/Vehicular and Aviation.)        |
| 7. Maine           | -- 3 | (Cross-listed in Aviation, and in Maritime.)                  |
| 8. New Jersey      | -- 3 | (Cross-listed in Rail.)                                       |
| 9. New York        | -- 3 | (Cross-listed in Aviation, and in Rail.)                      |
| 10. North Carolina | -- 3 | (Cross-listed in Aviation, and in Maritime.)                  |
| 11. Ohio           | -- 3 | (Cross listed in Aviation, Maritime and in Rail.)             |
| 12. Virginia       | -- 3 | (Cross-listed in Maritime.)                                   |
|                    |      |   |
| 13. Delaware       | -- 2 | (Cross-listed in Maritime.)                                   |
| 14. Illinois       | -- 2 | (Cross-listed in Aviation)                                    |
| 15. Louisiana      | -- 2 | (Cross-listed in Aviation and in Rail.)                       |
| 16. Washington     | -- 2 | (Cross-listed in Maritime.)                                   |
| 17. Wisconsin      | -- 2 | (Cross-listed in Highway/Road/Vehicular and in Maritime.)     |
| 18. Alabama        | -- 1 | (Cross-listed in Maritime and Rail.)                          |
| 19. Arizona        | -- 1 | (Cross-listed in Aviation.)                                   |
| 20. Arkansas       | -- 1 | (Cross-listed in Aviation.)                                   |
| 21. Indiana        | -- 1 | (Cross-listed in Rail.)                                       |
| 22. Nevada         | -- 1 | (Cross-listed in Aviation.)                                   |
| 23. New Hampshire  | -- 1 | (Cross-listed in Aviation.)                                   |
| 24. Oregon         | -- 1 | (Cross-listed in Maritime.)                                   |
| 25. Pennsylvania   | -- 1 | (Cross-listed in Rail.)                                       |
| 26. Rhode Island   | -- 1 | (Cross-listed in Maritime.)                                   |
| 27. Tennessee      | -- 1 | (Cross-listed in Highway/Road/Vehicular.)                     |
| 28. Utah           | -- 1 | (Cross-listed in Rail.)                                       |
| 29. West Virginia  | -- 1 | (Cross-listed in Aviation.)                                   |
| New Jersey         | -- 0 | (But 6 deaths in 1969 turnpike pileup.)                       |
|                    |      |   |
| Elsewhere          |      |   |
| 30. Atlantic Ocean | -- 1 | (Cross-listed in Maritime.)                                   |
| 31. Canary Islands | -- 2 | (Cross-listed in Aviation.)                                   |
| 32. Chile          | -- 1 | (Cross-listed in Aviation.)                                   |
| 33. Gulf of Mexico | -- 1 | (Cross-listed in Maritime.)                                   |
| 34. Italy          | -- 1 | (Cross-listed in Aviation.)                                   |
| 35. Lake Erie      | -- 2 | (Cross-listed in Maritime.)                                   |
| 36. Lake Superior  | -- 1 | (Cross-listed in Maritime.)                                   |
| 37. Newfoundland   | -- 1 | (Cross-listed in Aviation.)                                   |
| 38. Scotland       | -- 1 | (Cross-listed in Aviation.)                                   |

### Hail (aviation related)

1. Georgia -- 1 (Cross-listed in Aviation.)
2. Colorado -- 0 (1 event <10 deaths: 1 from July 30, 1979 Ft. Collins hailstorm.)
3. Missouri -- 0 (1 event <10 deaths: 1 on Sep 11, 1863)
4. New Jersey -- 0 (1 event <10 deaths: 1 on June 10, 1742.)
5. North Carolina -- 0 (1 event <10 deaths: 1 on May 10, 1931)
6. South Carolina -- 0 (1 event <10 deaths: 3 on May 8, 1784.)
7. South Dakota -- 0 (1 event <10 deaths: 1 on July 26, 1895.)
8. Texas -- 0 (3 events <10 deaths: 1 death May 1909; 1 May 1930; 1 March 2000.)

### Hazardous Materials Transportation

1. California -- 6
2. Pennsylvania -- 5
3. Texas -- 5
4. New York -- 3
5. Illinois -- 2
6. Louisiana -- 2
7. North Carolina -- 2 (One was maritime off NC/SC coast, thus cross-listed in SC.)
8. Tennessee -- 2
9. Arizona -- 1
10. Delaware -- 1
11. Georgia -- 1
12. Indiana -- 1
13. Maryland -- 1
14. Mississippi -- 1
15. Nevada -- 1
16. New Jersey -- 1
17. Oklahoma -- 1
18. Oregon -- 1
19. South Carolina -- 1 (Maritime off NC/SC coast, thus cross-listed in NC.)
20. Virginia -- 1

**Heat (from natural causes; frequently noted as heatstroke or hyperthermia)**

1. California -- 66 (5 years <10 deaths: 8 in 1996, 7 in 1998, 9 in 2003, 6 in 2009, 8 in 2014.)
2. New York -- 64 (Plus 4 years 7-11 deaths: 8 in 1954, 11 in 1978, 7 in 1982, 9 in 1983.)
3. Pennsylvania -- 63 (Plus 4 years <10 deaths: 9 in 1981, 7 in 1982, 6 in 1983, 7 in Philly 1996.)
4. Missouri -- 62 (Plus 3 years 7-9 deaths.)
5. Illinois -- 61 Plus 6 years 7-9 deaths
6. Texas -- 60 (Plus 9 deaths in 1989.)
7. Arizona -- 59 (Plus 7 deaths in 1954 and 8 in 1986.)
8. Ohio -- 46 (Plus 3 years 7-9 deaths.)
9. Georgia -- 39 (Plus 3 years 5-9 deaths: 9 in 1969, 7 in 1984 and at least 5 in 2017.)
10. Indiana -- 38 (Plus 3 years 6-8 deaths each: 8 in 1947, 7 in 1985 and 6 deaths in 2012.)
11. Arkansas -- 36 (Plus 7 years 5-9 deaths.)
12. Maryland -- 36 (Plus 5 years 5-8 deaths.)
13. New Jersey -- 35 (Plus 2 years 7-9 deaths: 9 in 1966 and 7 in 1983.)
14. Oklahoma -- 35 (Plus 2 years 6 and 9 deaths.)
15. Florida -- 33 (Plus 4 years 5-8 deaths: 8 in 1953, 7 in 1988, 6 in 2011, and 5 in 1999.)
16. Tennessee -- 33 (Plus 5 years 6-9 deaths: 9/1897, 9/1900, 6 in 1939, 7 in 1987, 8 in 1988.)
17. North Carolina -- 32 (Plus 7 years 6-9 deaths.)
18. Louisiana -- 31 (Plus 7 years 6-9 deaths.)
19. Mississippi -- 31 (Plus 2 years <10 deaths: 6 in 1984 and 9 in 1985.)
20. South Carolina -- 30 (Plus 3 years <10 deaths: 8 in 1987, and 7 in 1988 and in 1990.)
21. Alabama -- 29 (Plus 9 years 6-15 deaths.)
22. Michigan -- 29 (Plus 5 years 5-9 deaths: 8 in 1954, 9 in 1980, 6 in 1982, 6/1983, 5/2001.)
23. Kentucky -- 26 (Plus 3 years 5-8 deaths: 5 in 1978 and 8 deaths each in 1987 and 1999.)
24. Virginia -- 25 (Plus 4 years 5-9 deaths: 5 in 1901, 8 in 1954, 8 in 1977, 9 in 1988.)
25. Wisconsin -- 25 (Plus 7 years 6-9 deaths.)
26. Nevada -- 24 (Plus 1 year <10 deaths: 9 in 1985.)
27. Massachusetts -- 20 (Plus 3 years 4-7 deaths each: 4-7 1927, 6 in 1939 and 6 in 1953.)
28. Iowa -- 18 (Plus 6 years 5-8 deaths: 7 in 1897, 1901, 1947, 8 in 1939, 5/1995, 5/2001.)
29. Kansas -- 16 (Plus 7 years 5-9 deaths.)
30. District of Columbia -- 11 (Plus 4 years <10 deaths: 6 in 1900, 7 in 1902, 8 in 1903, and 8 in 1988.)
31. Nebraska -- 11 (Plus 3 years 5-6 deaths: 6 in 1897, 5 in 1953 and 6 in 1981.)
32. Minnesota -- 8 (Plus 6 years 6-8 deaths: 7 in 1939 and 1970, 8 in 1953, 6 in 1980, 2005, 2012.)
33. Connecticut -- 6 (Plus 4 years 5-9 deaths: 4 in 1968, 9 in 1977, 5 in 1983 and 6 in 1984.)
34. New Mexico -- 6
35. Washington -- 6 (Plus 1 year with 7 deaths.)
36. Colorado -- 5
37. Rhode Island -- 4 (Plus 6 years 5-9 deaths.)
38. Oregon -- 3 (Plus 1 year <10 deaths: 5 heat-related deaths in 1988.)
39. South Dakota -- 3 (Plus 5 deaths in 1987.)
40. New Hampshire -- 2 (Plus 2 years 4-6 deaths: 4 in 1900 and 6 in 1925.)
41. West Virginia -- 2 (Plus 3 years 8 deaths each: 1900. 1925, 1936.)
42. Idaho -- 1
43. North Dakota -- 1
44. Alaska -- 0
45. Delaware -- 0
46. Hawaii -- 0
47. Maine -- 0 (5 years 5-9 deaths; 5 in 1897, 5 in 1900, 9 in 1901, 8 in 1913, 5 in 1925.)
48. Montana -- 0 (5 deaths in 1936 heat wave.)
49. Utah -- 0 (There were five heat-related deaths Capital Reef Nat. Park 2013.)
50. Vermont -- 0 (Eight heat deaths in 1901.)
51. Wyoming -- 0

## Hurricanes, Remnants, and Tropical Storms

1. Florida -- 41 (Plus 2 -- one 8 and one with 6 fatalities.)
2. Texas -- 40
3. South Carolina -- 22 (Plus 4 -- 6-9 in 1898, 9 in 1959, 5 in Oct 1990 and 6 in 1995.)
4. Louisiana -- 21 (Plus 2 -- 9 deaths with Camille in 1969 and 9 with Ike in 2008.)
5. North Carolina -- 18 (Plus 5 -- Donna/1960/8, Hugo/1989/5, Felix/1995/9, Allison/2001/9, Irene/2011/7).
6. Georgia -- 11 (Plus 2 events >10 deaths: 5 in 1990, 8 in 2004.)
7. Puerto Rico -- 11 (Plus 1 <10 deaths, 1979, and cross-list of TS that led to mudslide.)
8. Virginia -- 11 (Plus 5 with 5-9 deaths: 6/1989, 6/1986, 4-5/1989, 9/2004. 6/2018.)
9. Mississippi -- 10 (Plus 1 with 5 deaths related to Tropical Storm Allison in 1989.)
10. New York -- 9 (Plus 2 -- 7 deaths in 1954/Edna and 5-6 in hurricane Gloria.)
11. Pennsylvania -- 9 (Plus 4 -- one with 9 deaths; two with 7 and one with 6)
  
12. Massachusetts -- 8 (Primarily offshore maritime disasters which are cross-listed.)
13. Alabama -- 7 (Plus one with 7 fatalities in "Other.")
14. Maryland -- 5 (Plus two -- one with 8 deaths in 1896 and one with 9 in 2003.)
15. Delaware -- 3
16. New Jersey -- 3 (Plus five -- 7-9 in 1944, 7 in 1954, 9 in 1960, 5 in 1995, 6 in 1999.)
17. Maine -- 2 (Both were maritime events -- Oct 7, 1869 and Sep 15-17, 1903.)
18. Rhode Island -- 2 (Maritime events; plus flooding deaths 1954 Hurricane Edna.)
19. California -- 1
20. Connecticut -- 1 (Plus two with 5-6 deaths and one with 3-6 deaths in "Other.")
21. New Hampshire -- 1
22. Hawaii -- 0 (Though Hurricane Iniki in 1992, caused six deaths.)



### **Landslides/Mudslides/Debris Flows, Rock Falls**

1. California -- 6 (Plus one with 5 deaths over two days in "Other.")
  2. New York -- 3
  3. Pennsylvania -- 2 (One was at a quarry and is cross-listed in Mines/Tunnels/Quarries.)
  4. Washington -- 2 (One cross-listed with 1980 Mt. St. Helens Volcano eruption.)
  5. Alaska -- 1
  6. Hawaii -- 1
  7. Minnesota -- 1 (Cross-listed in Mining -- 1910 open-pit mine landslide.)
  8. Montana -- 1 (Cross-listed with 1959 Hebgen Lake earthquake.)
  9. North Carolina -- 1
  10. Vermont -- 1
  11. Virginia -- 1 (Mudslides from Hurricane Camille remnant rain, Aug 1969.)
  12. Puerto Rico -- 1
- New Hampshire -- 0 (But 9 deaths in Aug 18, 1826 Crawford Notch landslide.)
- Oregon -- 0 (But there were 9 deaths in 1974 and 5 in 1996 events.)
- South Carolina -- 0 (7 deaths in 1965 fill cave-in at retaining wall construction site.)

## Lightning and lightning-Related

1. Arizona -- 1 (Cross-listed in Aviation; 10 deaths in 1970, lightning hit USN plane.)
  2. Arkansas -- 1 (Contributing cause to fire; plus 1 lightning caused fire/7 deaths/1964.)
  3. Illinois -- 1
  4. Kansas -- 1 (Cross-listed in Aviation -- lightning hits USAAF B17, July 17, 1945)
  5. Maryland -- 1 (Cross-listed in Aviation.)
  6. Mississippi -- 1 (Cross-listed in Aviation -- lightning hit USAAF C46, June 14, 1945.)
  7. Nevada -- 1 (Cross-listed in Aviation.)
  8. New Jersey -- 1 (Cross-listed with 1926 resulting explosion and fire.)
  9. Tennessee -- 1 (Home fire thought to be caused by lightning.)
  10. Texas -- 1 (Lightning strikes gasoline tanker, explosion.)
  11. Utah -- 1 (Lightning strikes gasoline storage tank, explosion.)
  12. West Virginia -- 1 (Lightning strikes coal mine, explosion.)
  13. Guam -- 1 (Lightning strikes U.S. steamer *Dumar* causing fire -- off Guam.)
- Colorado -- 0 (But one event in 2008 with 2 deaths.)
- Kansas -- 0 (Though there were four deaths of girls in July 30, 1884, and father suicide.)
- New Mex. -- 0 (But 8 deaths in 1929 when plane crashed after being hit by lightning.)
- New York -- 0 (But 9 deaths in July 5, 1868 strike, Orange County, NY.)
- North Car. -- 0 (But 8 deaths when lightning hit a barn July 12, 1961 near Clinton.)
- Tennessee -- 0 (9 died in 1887, lightning hit tree where people sought shelter; 6 in 1965.)
- Texas -- 0 (5 died in fires from 4-29-1953 lightning strike on oil tank in Kilgore.)
- Wisconsin -- 0 (8 died in 1893 lightning strike on Ringling Brothers Circus tent.)

## Maritime, Great Lakes and Inland Waterways

1. Massachusetts --197 (Plus two -- one with 9 deaths in 1911 and one with 8 in 1991.)
2. New York --102 (Plus one with nine deaths -- Aug 3, 1893 sinking of *Rachel*.)
3. Louisiana -- 93
4. Michigan -- 76 (Includes ~24 MI soldiers killed when *Gen. Lyon* burned off NC 1865.)
5. California -- 72 (We take note of 9 lives lost in 1969 *Goodwill* grounding.)
6. North Carolina -- 64
7. Missouri -- 54
8. Alaska -- 48
9. Florida -- 43
10. Oregon -- 38
11. Washington -- 38
  
12. Arkansas -- 36
13. Mississippi -- 36 (Including one cross-listed in Hurricane.)
14. Kentucky -- 32 (Includes KY soldier losses, *Sultana* boiler explosion, MS River.)
15. Ohio -- 31 (Includes OH soldiers killed in *Sultana* explosion and *Gen. Lyon* fire.)
16. New Jersey -- 31
17. Virginia -- 31
18. Illinois -- 26 (Includes ~200 IL mil. men lost in *Gen Lyon* fire in 1865 off NC.)
19. Maine -- 23 (Plus 7 drowning deaths in 1908 sloop capsizing.)
20. Wisconsin -- 21
21. Pennsylvania -- 20 (Includes PA soldiers lost in *Gen. Lyon* fire off NC in 1865.)
22. Texas -- 20
23. Georgia -- 19 (1804 coastal hurricane; ~500 deaths land water deaths GA/SC.)
24. Tennessee -- 19
25. South Carolina -- 18 (1804 coastal hurricane; ~500 deaths land water deaths GA/SC.)
26. Alabama -- 17 (Includes one cross-listing in Disease and one cross-listed in Rail.)
27. Rhode Island -- 14
28. Delaware -- 12 (Plus one event <10 deaths: 6 on Oct 22, 1891.)
29. Maryland -- 12
30. Indiana -- 10
31. Connecticut -- 9
32. Hawaii -- 9
33. West Virginia -- 8
34. New Hampshire -- 5
35. Iowa -- 3 (Plus 9 deaths when speedboats collide, Lake Okoboji in 1929.)
36. Minnesota -- 3
37. Montana -- 1
38. Oklahoma -- 1 (Cross-listing in Road/Highway -- barge knocked out bridge span.)
39. South Dakota -- 1
40. Wyoming -- 0 (One boat capsize in high wind May 1964, **six** lives lost.)

## Mine, Quarry and Tunneling

1. Pennsylvania -- 80 (Plus 12 events 5-10 deaths.)
2. West Virginia -- 71 (5 Violence cross-listed--miner/owner conflicts; plus 6 noted 6 & 9 deaths)
3. Colorado -- 30 (Includes two that were miner-related conflicts.)
4. Alabama -- 28
5. Illinois -- 19 (One is cross-listed in violence; plus an event in 1936 with 9 deaths)
6. Oklahoma -- 18 (Plus 9 deaths in Coal & Mining Co. Fire (Lehigh), Feb 22, 1912.)
7. Virginia -- 18 (Plus 2 noted with 6 and 9 fatalities.)
8. Kentucky -- 14
9. Washington -- 11
10. Wyoming -- 11
11. Ohio -- 10 (Plus 1 <10 deaths: Webb Coal Mine Fire Dec 22, 1925.)
12. Tennessee -- 10 (Plus 1 event <10 deaths: 9 in 1922.)
13. Utah -- 9 (Plus 3 -- two with nine deaths each, 1963 and 2007 and one with 5.)
14. Indiana -- 8 (Plus 3 <10 deaths: 7 in 1896, 5 in 1920; and 8 in 1947.)
15. Michigan -- 8 (Plus 2 events <10 deaths: 6 in 1874 and 8 deaths in 1901.)
16. New Mexico -- 7 (Plus 4: 5-9 fatalities in 1895; 7 in 1922; 5 in 1930; 6 in 1944.)
17. Montana -- 5 (Plus 6: 6 in 1881 and 1889, 7 in 1905, 9 each in 1891 1892, 1893.)
18. Arkansas -- 4 (Plus 2: 6 dead, 1942 coal mine explos.; 8 in 1948 mine explos.)
19. California -- 4 (Plus 6 events <10 deaths: 1876, 1891, 1911, 1930, 1934, and 1937.)
20. New Jersey -- 4
21. North Carolina -- 4 (Plus granite quarry dynamite explosion in 1938 killing 5.)
22. Alaska -- 3
23. Minnesota -- 3
24. Nevada -- 3 (Plus 1 event <10 deaths: 6 in 1873.)
25. Idaho -- 2 (Plus 2 <10 deaths: 4-8, 1891 mine explos., 9 in 1905 mine explos.)
26. Kansas -- 2 (Plus 1 event <10 deaths: 5 deaths in 1911 coal mine explosion.)
27. Iowa -- 1 (Plus 2 events <10 deaths: 8 in 1893; 5 in 1953 coal mine explos.)
28. Louisiana -- 1 (Plus 2 events <10 deaths: 6 in 1920 and 5 in 1979.)
29. Maryland -- 1 (Plus 1 event <10 deaths: 5 in 1948 coal mine fire.)
30. Massachusetts -- 1
31. Missouri -- 1 (Plus 1 event >ten deaths: 5 in 1915 coal mine explosion.)
32. New York -- 1
33. Vermont -- 1
34. Arizona -- 0 (But 5 lives lost in 11-19-1936 Bates coal mine explosion.)

## Paralytic Shellfish Poisoning (PSP)

1. 1799 -- July, Paralytic Shellfish Poisoning,<sup>2</sup> Aleuts, Russians, Peril Strait, AK -- ~100

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<sup>2</sup> “Paralytic shellfish poisoning, or PSP, is a potentially lethal toxin that can lead to fatal respiratory paralysis... The toxin comes from algae, which is a food source for clams, mussels, crabs and other shellfish found across Alaska. This toxin can be found in shellfish every month of the year, and butter clams have been known to store the toxin for up to two years. The toxin cannot be seen with the naked eye, and there is no simple test a person can do before they harvest. One of the highest concentrations of PSP in the world was reported in shellfish from Southeast Alaska.” (SEARHC, C. Bingham. “Paralytic shellfish poisoning...warning issued...Southeast Alaska.” 6-24-2010.)

## Rail

1. Pennsylvania	-- 40	(Includes Spirit of St. Louis train collision with stopped PA NG troop train in OH.)
2. New York	-- 38	(Includes Oct 13, 1893 NY excursion train {NY citizens} collision in MI.)
3. New Jersey	-- 22	
4. Indiana	-- 21	(Includes two RR crossing collisions with vehicles {1936 & 1947}.)
5. Ohio	-- 21	
6. Illinois	-- 20	(Plus two -- one with 9 deaths in 1889; one with 7 in 1995.)
7. California	-- 13	(Includes 3 RR-crossing events cross-listed in vehicular/road/hwy.)
8. Massachusetts	-- 12	
9. Missouri	-- 12	
10. Colorado	-- 11	(Two are road-crossing collisions, cross-listed in "Vehicular.")
11. Connecticut	-- 11	(Includes 1921 event/all deaths from fire; plus 7 deaths in 1912.)
12. Georgia	-- 11	
13. Michigan	-- 11	
14. Tennessee	-- 9	(Includes a road-crossing collision in 1949.)
15. Texas	-- 9	
16. Iowa	-- 8	
17. Virginia	-- 8	
18. Kansas	-- 7	
19. Wisconsin	-- 6	(Additionally, 7 workmen died in 1892 Milwaukee two-train collision.)
20. Alabama	-- 5	
21. Maryland	-- 5	(We note as well one event in 1961 when six lives were lost.)
22. Montana	-- 5	
23. Wyoming	-- 5	
24. Arizona	-- 4	(Two cross-listed in Road/Hwy./Vehicular -- RR crossing events.)
25. Louisiana	-- 4	(Plus 6-8 deaths in June 19, 1891 train wreck near New Orleans.)
26. North Carolina	-- 4	(Plus 7 deaths Nov 19, 1912 train collision near Granite, NC.)
27. Oklahoma	-- 4	(Plus 2 events <10 deaths -- 7 in 1897, and 8 in 1915.)
28. Vermont	-- 4	
29. West Virginia	-- 4	
30. Nebraska	-- 3	
31. New Mexico	-- 3	
32. Rhode Island	-- 3	
33. Washington	-- 3	
34. Florida	-- 2	(Both were railway and road crossings involving vehicles.)
35. Kentucky	-- 2	
36. Minnesota	-- 2	
37. Mississippi	-- 2	(Plus 9 deaths in May 6, 1912 train derailment near Eastabuchie.)
38. Nevada	-- 2	(One is cross-listed in Violence (sabotage).)
39. North Dakota	-- 2	
40. Utah	-- 2	
41. Arkansas	-- 1	
42. District of Columbia	-- 1	
43. Idaho	-- 1	(9 died when two trains collided at American Falls station May 27, 1897.)
44. Maine	-- 1	(Plus 9 deaths in July 28, 1911 head-on train collision.)
45. New Hampshire	-- 1	
46. Oregon	-- 1	
47. South Carolina	-- 1	
48. Alaska	-- 0	
49. Delaware	-- 0	(Train in canal in 1862 took 7 lives as did train collision in 1909.)
50. Hawaii	-- 0	
51. South Dakota	-- 0	

### Road/Highway/Vehicular (10 more fatalities)

1. California -- 25 (Plus 2 events noted with 7 and 8 deaths.)
2. Texas -- 17 (Plus 1 event noted with 6 deaths.)
3. Arizona -- 10 (Plus 2 events noted with 4 and 7 deaths.)
4. New York -- 10 (Plus 5 events noted with 5-8 deaths.)
5. Florida -- 7 (Plus 3 events noted with 6-7 deaths.)
6. Illinois -- 6 (Plus 4 events noted with 6-8 deaths.)
7. Kentucky -- 5 (Plus 1 event noted with 6 deaths.)
8. Ohio -- 5 (Plus 5 events noted with 6-9 deaths.)
9. Tennessee -- 5 (Plus 3 events <10 deaths -- 9 in 1988, 8 in 2013, 5 in 2016 school bus.)
10. Georgia -- 4 (Plus three -- with 7 deaths each and one with 6.)
11. Indiana -- 4 (Plus 3 events 6-9 deaths: 9 in 1869, 8 in 1971 and 6 in 1990.)
12. Minnesota -- 4 (Plus 9 in 1940, 7 in 1966 and 7 in 1994 events.)
13. New Jersey-- 4 (Plus 6 deaths in Nov 29, 1969 multiple vehicle collisions in fog; 6 in 1986.)
14. Pennsylvania- 4 (Plus eight events <10 deaths {6-9}.)
  
15. Alabama -- 3 (Plus 3 events -- 5 deaths in 1953 and 1060 and 6 in 1965.)
16. Maryland -- 3 (Plus 5 events noted with 5-8 deaths.)
17. Michigan -- 3 (Plus 6 events noted with 6-9 deaths.)
18. North Car. -- 3 (Plus 2 events noted with 7 and 9 deaths each.)
19. Arkansas -- 2 (Plus one in 1951 with 9 fatalities.)
20. Colorado -- 2
21. Louisiana -- 2
22. New Mex. -- 2 (3 events >10 deaths: 5 Oct 9 1953; 6 June 19 2017, 9 Aug 30 2018.)
23. Oklahoma -- 2 (Plus three events <10 deaths -- 6 in 1937, 8 in 1977, and 7 in 2007.)
24. So. Carolina-- 2
25. Utah -- 2 (Plus dust-storm related I-15 pileup in 2021 with 8 deaths.)
26. Virginia -- 2
27. Washington-- 2
28. Wisconsin -- 2 (One, in 1911, cross-listed in Rail (RR crossing); plus 2 with 8 & 9 deaths.)
29. Iowa -- 1 (Plus one event on Jan 2, 2003 with 9 deaths.)
30. Maine -- 1 (Plus 6 deaths in May 29, 1953 collision and 6 in April 2, 1971 incident.)
31. Massachusetts--1 (Plus 1 event noted with six deaths in a car.)
32. Missouri -- 1 (Plus 1 event with 6 deaths 3-20-1964.)
33. Nevada -- 1 (Plus 6 deaths from June 17, 1961 head-on car collision near Lovelock.)
34. West VA -- 1 (Plus 6 deaths in Feb 1959 and in Sep 1960.)
- Conn. -- 0 (Though there was one event in 1983 with 7 deaths.)
- Idaho -- 0 (Though there were five deaths in 1958 event in Pocatello.)
- Kansas -- 0 (Though there were seven deaths in Jan 28, 1952 tire blowout.)
- Montana -- 0 (One event [high school wrestling team bus collision with tanker] in 1984.)
- New Hampshire--0 (But 6 deaths Dec 1960; 7 in June 2019 when pickup hit motorcycles.)
- Oregon -- 0 (But there were 4 events <10 dead -- 1958 (5), 1988 (7), 1999 (8), 2012 (9).)

## Starvation

1. California -- 2 (Donner Party, 1847; Stranded sailors, Brig *Shelehoff*, 1871.)
2. Virginia -- 2 (Winters of 1607 and 1609-1610 at Jamestown Colony.)
3. Alaska Natives -- 1 (Late Fall-early Spring, 1918, influenza epidemic and starvation.)
4. New Mexico -- 1 (Las Humanas and other Pueblos, 1668, current-day NM.)

## Structural Failures

1. Pennsylvania --16
2. New York --15
3. California -- 9 (Includes dam failures). Plus one dam failure with 5 deaths in Other.
4. Massachusetts -- 9 (Plus 7 in 1886 dam failure and 4 in 1971 Boston apt. bldg. collapse.)
5. Connecticut -- 8 (Includes dam and bridge failures).
6. Illinois -- 7 (Plus one event in 1979 with 5 deaths.)
7. Georgia -- 5
8. Ohio -- 5 (Plus 9 deaths in Sep 1904 when school outhouse floor collapsed.)
9. Virginia -- 5
10. Indiana -- 4
11. Louisiana -- 4
12. Texas -- 4
13. Iowa -- 3
14. Kentucky -- 3
15. Tennessee -- 3 (One cross-listed in Rail in that it was a trestle failure under a train.)
16. West Virginia -- 3
17. Arizona -- 2 (dams)
18. Arkansas -- 2
19. Colorado -- 2
20. District of Col. -- 2 (One was roof collapse due to snow weight.)
21. Michigan -- 2
22. Minnesota -- 2 (Plus 9 deaths in Dec 4, 1891 Shepard building wall fall, St. Paul.)
23. Mississippi -- 2 (Levees)
24. Missouri -- 2
25. Montana -- 2 (A bridge and a dam failure.)
26. Oregon -- 2 (Cross-listed in Flooding and in Rail in that flood weakened trestle.)
27. Florida -- 2
28. Wyoming -- 2 (Both cross-listed in Rail -- flood caused washouts of train bridges.)
29. Idaho -- 1
30. Kansas -- 1
31. Maine -- 1
32. Maryland -- 1
33. New Mexico -- 1
34. Rhode Island -- 1
35. South Carolina -- 1
36. South Dakota -- 1
37. Wisconsin -- 1
38. Hawaii -- 0 (Though there were 7 deaths when the Ka Koko dam failed in 2006.)
39. AL, AK, DE, NE, NV, NH, NJ, NC, ND, OK, UT VE, WA all show -- 0

## **Subsidence**

1. Pennsylvania -- 1



### Tainted/Contaminated Food, Drugs, Medications (unintentional poisoning)

1. Oregon	--3	1922, 1924 and 1942.
2. Mass.	--2	1800 and 1911 (septic sore throat from hemolytic streptococcus in milk).
3. Alabama	--1	1937. Elixir Sulfanilamide medicine; diethylene glycol added to liquefy.
4. Alaska	--1	1799. Paralytic Shellfish Poisoning, <sup>3</sup> Aleuts, Russians, Peril Strait, AK.
5. California	--1	1985. Listeria-contaminated cheese from unpasteurized milk.
6. Georgia	--1	1937. Elixir Sulfanilamide medicine; diethylene glycol added to liquefy.
7. Illinois	--1	1924-25. Typhoid Fever from tainted/contaminated raw oysters.
8. Indiana	--1	2012. 11 Fungal Meningitis deaths from tainted steroid injections.
9. Michigan	--1	2012. 19 Fungal Meningitis from tainted steroid injections. (+7 dead, 1919)
10. Mississippi	--1	1937. Elixir Sulfanilamide medicine; diethylene glycol added to liquefy.
11. Missouri	--1	1901 Tetanus-tainted diphtheria antitoxin, St. Louis.
12. New York	--1	1924-25. Typhoid Fever from tainted/contaminated raw oysters.
13. Oklahoma	--1	1937. Elixir Sulfanilamide medicine; diethylene glycol added to liquefy.
14. Northeast	--1	2002. Listeriosis food poisoning from sliceable turkey deli meat.
15. Pennsylvania	--1	≥5 deaths in 1941 from phenobarbital tainted sulfathiazole tablets.
16. Tennessee	--1	2012. 16 Fungal Meningitis deaths from tainted steroid injections.)
17. 14 states	--1	1998-1999. Listeria-contaminated hot dog deaths.
Colorado	--0	9 deaths in 2011, listeriosis food poisoned cantaloupes.
Florida	--0	7 Fungal Meningitis deaths in 2012 from tainted steroid shots.
Montana	--0	5 deaths in 1919, botulism, canned California olives, Java, MT.
New Jersey	--0	9 deaths in Camden in Nov 1901; tetanus-tainted smallpox vaccinations.
New Mexico	--0	5 deaths, listeria food poisoned cantaloupes in 2011.
Ohio	--0	7 deaths, 1919 Botulism, canned Cal. Olives, Canton, OH
U.S.	(9 deaths; Sep 2008-March, 2009; Salmonella food poisoning; peanut butter; ID/MN/NC/OH/VA)	

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<sup>3</sup> “Paralytic shellfish poisoning, or PSP, is a potentially lethal toxin that can lead to fatal respiratory paralysis...The toxin comes from algae, which is a food source for clams, mussels, crabs and other shellfish found across Alaska. This toxin can be found in shellfish every month of the year, and butter clams have been known to store the toxin for up to two years. The toxin cannot be seen with the naked eye, and there is no simple test a person can do before they harvest. One of the highest concentrations of PSP in the world was reported in shellfish from Southeast Alaska.” (SEARHC, C. Bingham. “Paralytic shellfish poisoning (PSP) warning issued for Southeast Alaska.” 6-24-2010.)

## Tornadoes

1. Alabama -- 43 (Plus **5** tornadoes noted with 6-9 deaths each.)
2. Mississippi -- 42 (One cross-listed in Windstorms as there is ambiguity as to status.)
3. Texas -- 41 (Plus **1** tornado noted with 8 deaths Feb 11-12, 1950.)
4. Arkansas -- 39 (We also note 1 tornado on April 29, 1947 with 9 deaths.)
5. Oklahoma -- 34 (Plus **1** tornado noted with 8 deaths in 2009.)
6. Georgia -- 28 (Plus **3** noted <10 deaths: 8 in 1897, 7 in 1936. 8 in 2020.)
7. Tennessee -- 24 (Plus **2** noted <10 deaths: one with 9 in 1950, one with six in 2015.)
8. Missouri -- 23
9. Illinois -- 22 (Plus **5** tornadoes 6-9 deaths each.)
10. Kansas -- 19 (Plus **3** tornadoes noted with 5, 6 and 8 deaths each.)
11. Louisiana -- 19
  
12. Indiana -- 15
13. Minnesota -- 13
14. Iowa -- 12
15. Wisconsin -- 11
16. Kentucky -- 10 (Plus **3** tornadoes noted with 5-8 deaths each.)
17. Ohio -- 10 (Plus **1** tornado noted with 5 deaths in 2002 tornado.)
18. South Carolina -- 10 (Plus **1** tornado noted in 2020 with 9 deaths.)
19. Michigan -- 7
20. Nebraska -- 7
21. North Carolina -- 6 (One is cross-listed in Maritime for sinking a boat.)
22. Florida -- 4 (Plus **3** tornadoes noted with 5, 7 and 9 deaths each.)
23. Pennsylvania -- 3 (Plus **1** tornado noted with 7 deaths.)
24. Virginia -- 3
25. Maryland -- 2
26. West Virginia -- 2
27. Colorado -- 1
28. Connecticut -- 1
29. District of Columbia--1
30. Idaho -- 1
31. Massachusetts -- 1
32. New Hampshire -- 1
33. New York -- 1
34. North Dakota -- 1
35. Oregon -- 0 (3-6 deaths in 6-14-1888 Lexington tornado).
36. Washington -- 0 (6 deaths in 4-5-1972 Vancouver F2.)

AK, AZ, CA, DE, HI, ME, MT, NV, NJ, NM, OR, RI, SD, UT, VE, WA, WY -- all show 0.

## Tsunami

1. Hawaii -- 4 (Plus one in 1877 with five fatalities.)
2. Alaska -- 1 (Plus five deaths in Lituya Bay Tsunami of 1900 and 5 in 1958.)
3. California -- 1 (Plus two with one death each.)
4. American Samoa -- 1
- Oregon -- 0 (But 5 deaths in 1854 tsunami and four deaths in 1964 tsunami.)
- Washington -- 0 (But 2 deaths in Nov 8, 1894 Commencement Bay tsunami.)

## Violence

1. California -- 74 (Includes 3 arsons cross-listed in fire.) Plus 4 with 7 deaths each.)
2. New York -- 34 (Includes NY deaths, Pan Am 103, Lockerbie, 1988; plus 1 event 9 deaths.)
3. Texas -- 27 (Plus 9 deaths in 2015 Waco biker gangs shootout; 8 in Odessa in 2019.)
4. Pennsylvania -- 23 (Two are Arson, six are Trampling deaths due to fire/fire scare.)
5. Oregon -- 20
6. Massachusetts -- 19 (Plus 8-9 deaths in Sep-11, 1919 Boston police strike; 4 in 2013.)
7. Virginia -- 17 (Includes Jamestown which is also listed within Winter Weather.)
8. Illinois -- 16 (Includes arson fires. Plus eight events 4-8 deaths each.)
9. New Jersey -- 15 (Includes NJ res. deaths at Lockerbie.)
10. Louisiana -- 14
11. Maine -- 14
12. Ohio -- 13 (Plus 3 -- 6 in 1919, 4 {Kent State{ in 1968, and 9 {arson} in 2005.)
13. New Mexico -- 12
14. Colorado -- 11 (Plus one event with 6 fatalities.)
15. Alabama -- 10
16. Florida -- 9 (Plus 3 events >10 deaths: 8 in 1923, 9 in 1982, includes shooter, 5+self in 1996.)
17. Idaho -- 9 (Plus one event (Ruby Ridge) in 1992 that led to loss of 3 lives.)
18. Arkansas -- 8
19. Mississippi -- 8
20. Oklahoma -- 8 (Plus 8 deaths in family murder/suicide in Lawton March 5-6, 1916.)
21. West Virginia -- 8 (Five cross-listed in Mining; conflicts between miners and owners.)
22. North Carolina -- 8 (Plus 8 deaths in Dec 25, 1929 family murder/suicide.)
23. Connecticut -- 7 (Plus two -- one with 4 deaths in 1920, and one with 9 in 2010.)
24. Missouri -- 7 (Plus three -- one with 9 deaths in 1861, 5 in 1933, and 7 in 1968.)
25. Michigan -- 6 (Plus two -- one with 8 deaths in 1971 and 6 in 2016 events.)
26. Montana -- 6 (Plus one family event with 6 deaths in 1982.)
27. New Hampshire -- 6
28. Rhode Island -- 6 (Includes The Station Night Club fire and trampling deaths.)
29. Alaska -- 5
30. Hawaii -- 4 (Plus one event on 11-2-1999 with 7 fatalities.)
31. Kansas -- 4 (Plus 4 <10 deaths -- 5-8 deaths in 1856, 5 in 1856, 5 in 1888, 6 in 1980.)
32. Kentucky -- 4 (Plus 9 deaths in Sep 1989 workplace violence shootings/suicide.)
33. Maryland -- 4 (Plus 6 deaths during April 4-11, 1968 MLK Jr assassination rioting.)
34. Minnesota -- 4
35. Nevada -- 4 (One is cross-listed in Rail (sabotage).)
36. Washington -- 4 (Plus 6 >10 deaths: 7/1916, 6/1919, 6/1932, 8/1987, 8 in 1998, 7 in 2006.)
37. Arizona -- 3 Plus 6 deaths in 2011 shooting.
38. District of Columbia -- 3 (Plus 2 events >10 deaths, Puerto Rican terrorism in 1950 (2 dead) and 1954.
39. Georgia -- 3 (Plus one with 8 deaths; 1 with 7 (including the shooter).)
40. Puerto Rico -- 3
41. South Carolina -- 3 (Plus 7 deaths, 1876 racial violence; 9 in 2015 AME Church shootings.)
42. Wisconsin -- 3 (Plus 2 events <10 deaths -- 7 in 1886 strike and 7 2012 Sikh Tem.)
43. Indiana -- 2
44. Iowa -- 2 (Plus 2 events <10 deaths -- 8 in 1912 event and 5-6 in 1991 event.)
45. Nebraska -- 2
46. North Dakota -- 2
47. Tennessee -- 2
48. Utah -- 2 (Plus 9 deaths in 1945; a US Army guard machine-gunned sleeping POWs.)
49. Delaware -- 1
50. South Dakota -- 1
51. Wyoming -- 1
52. Vermont -- 0

## Volcano

1. Hawaii -- 2
2. Washington -- 1

## Wind Storms and Severe Thunderstorm Winds

1. Texas -- 4
2. Washington -- 3 (Plus 5 deaths in Nov 13-15, 1981 windstorm.)
3. Ohio -- 2 (Plus 4-21-1909 wind storm/9; 2008 Hurricane Ike remnant/7.)
4. Oregon -- 2 (Plus 7 deaths from wind and flooding in late Oct 1950 storms.)
5. California -- 1
6. Maryland -- 1
7. Mississippi -- 1 (Cross-listed in Tornado due to ambiguity as to proper status.)
8. Missouri -- 1
9. New York -- 1 (Plus one Thunderstorm/derecho, east NY, 7-15-1995 with 5 deaths.)
10. North Dakota -- 1
11. North Carolina -- 1
12. Pennsylvania -- 1 (A winter storm with very strong straight-line winds.)
13. Virginia -- 1

### Winter Weather/Storms/Snow/Extreme Cold (Hypothermia)

1. New York	--94 (Plus 7 events noted with 5-9 deaths.)
2. Pennsylvania	--89 (Plus 10 events noted with 5-9 deaths.)
3. Illinois	--77 (Plus 8 events noted with 5-9 deaths.)
4. Michigan	--73 (Plus 5 events noted with 5-9 deaths.)
5. Ohio	--73 (Plus 12 events noted with 5-9 deaths.)
6. Wisconsin	--63 (Plus 8 years noted with 5-9 deaths.)
7. Indiana	--62 (Plus 7 events noted with 5-9 deaths.)
8. Virginia	--61 (Plus 2 events noted with 5-7 deaths.)
9. Texas	--56 (Plus 9 events noted with 5-9 deaths.)
10. California	--53 (Plus 2 events (2021/43 deaths and 2021/56, below US avg. death rate.)
11. Minnesota	--50 (Plus 7 events noted with 5-9 deaths.)
12. North Carolina	--50 (Plus 7 events noted with 5-9 deaths.)
13. New Jersey	--48 (Plus 10 events noted with 5-9 deaths.)
14. New Mexico	--46
15. Georgia	--45 (Plus 5 events noted with 5-9 deaths.)
16. Massachusetts	--45 (Plus 7 events noted with 5-9 deaths.)
17. Tennessee	--44 (Plus 3 events noted with 5-8 deaths.)
18. Arizona	--42 (Plus 1 event noted (2021) below US average, but with 24 excessive cold deaths.)
19. Missouri	--40 (Plus 6 events noted with 5-9 deaths.)
20. South Carolina	--39 (Plus 6 events noted with 6-7 deaths.)
21. Kentucky	--37 (Plus 9 events noted with 5-9 deaths.)
22. Colorado	--36 (Plus 4 events noted with 5-8 deaths.)
23. Alabama	--34 (Plus 6 events noted with 5-9 deaths.)
24. Maryland	--34 (Plus 5 events noted with 5-9 deaths.)
25. Alaska	--29 (Plus 2 events noted with 9 deaths.)
26. Oklahoma	--29 (Plus 8 events noted with 5-9 deaths.)
27. Washington	--29 (Plus 6 events noted with 5-9 deaths.)
28. Oregon	--26 (Plus 6 events noted with 5-7 deaths.)
29. Iowa	--23 (Plus 12 events noted with 5-9 deaths.)
30. Montana	--22 (Plus 7 events noted with 5-9 deaths.)
31. Mississippi	--17 (Plus 5 events noted with 5-9 deaths.)
32. Florida	--14 (Plus 2 events noted with 5-9 deaths.)
33. Connecticut	--13 (Plus 9 events noted with 5-9 deaths.)
34. Nebraska	--13 (Plus 6 events noted with 6-9 deaths.)
35. Arkansas	--12 (Plus 3 events noted with 8-10 deaths.)
36. South Dakota	--12 (Plus 5 events noted with 7-8 deaths.)
37. North Dakota	--10 (Plus 6 events noted with 5-9 deaths.)
38. Kansas	-- 9 (Plus 8 events noted with 5-9 deaths.)
39. Utah	-- 9 (Plus 1 event noted with 5 deaths.)
40. West Virginia	-- 9 (Plus 9 events noted with 5-9 deaths.)
41. Louisiana	-- 7 (Plus 8 events noted with 5-9 deaths.)
42. Maine	-- 6 (Plus 6 events noted with 5-9 deaths.)
43. Idaho	-- 5 (Plus 3 events noted with 5-8 deaths.)
44. Rhode Island	-- 5 (Plus 2 events noted with 5-9 deaths.)
45. Nevada	-- 4
46. Wyoming	-- 4 (Plus 1 event noted with 7 deaths.)
47. Delaware	-- 2 (Plus 1 event noted with 6 deaths.)
48. District of Col.	-- 2 (Plus 1 event noted with 5 deaths.)
49. New Hampshire	-- 1 (Plus 1 event noted with 8-9 deaths.)
50. Hawaii	-- 0
	Vermont -- 0

### Wood Alcohol Poisoning

1. New York -- 6 (Plus 3 deaths ~Feb 25, 1914, and 9 during Dec 25-30, 1919.)
2. New Jersey -- 3
3. Connecticut -- 1
4. Georgia -- 1
5. Illinois -- 1
6. Massachusetts -- 1
7. Pennsylvania -- 1
- North Dakota -- 0 (But 5 deaths Aug 3-9, 1919.)
- Ohio -- 0 (But 6 deaths Dec 25-30, 1919.)