

Natural Disasters Divided by the Elements



Disasters in the **Earth** Element

Earthquakes Landslides



Disasters in the **Fire** Element

Wildfires Volcanoes



Disasters in the Water Element

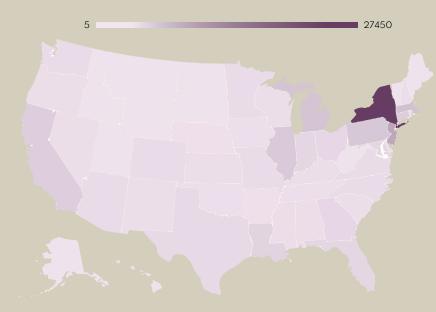
Tsunamis Flash Floods

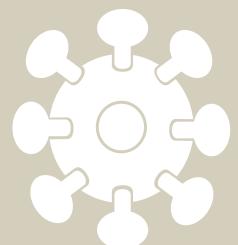


Disasters in the **Air** Element

Tornadoes Hurricanes

Deaths Caused by COVID-19 by State





COVID-19

In the US, **1,387,662**people have been effected by the virus.
Of all the infected, **6%**have died.

Top 10 States with the Highest Cases

1. New York: 345,828

2. New Jersey: 141,560

3. Illinois: 84,874

4. Massachusetts: 80,497

5. California: 73,218

6. Pennsylvania: 62,194

7. Michigan: 48,307

8. Texas: 43,822

9. Florida: 42,394

10. Maryland: 34,927

Top 10 States with the Highest Death Counts

1. New York: 27,450

2. New Jersey: 9,702

3. Massachusetts: 5,315

4. Michigan: 4,714

5. Pennsylvania: 4,104

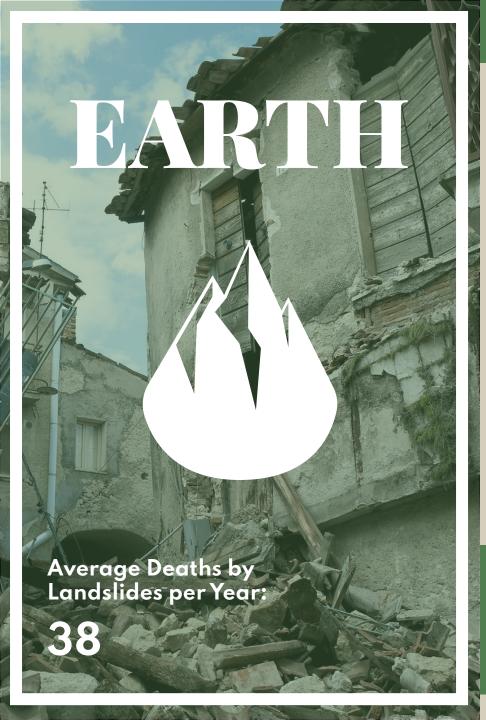
6. Illinois: 3,815

7. Connecticut: 3,125

8. California: 3.014

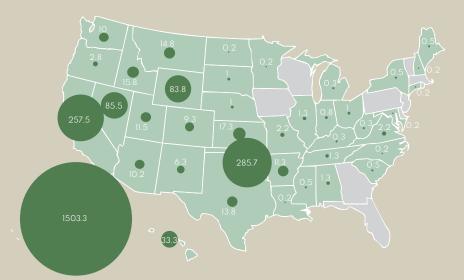
9. Louisiana: 2.315

10. Florida: 1,826





Average Amount of Earthquake Activity (Between 2010-2015) Size Representative of Earthquake Count



Typical Conditions that Make Landslides and Mudslides More Likely

- Areas where wildfires or human modification of the land have destroyed vegetation
- · Areas where landslides have occurred before
- · Steep slopes and areas at the bottom of slopes or canyons
- Slopes that have been altered for construction of buildings and roads
- · Channels along a stream or river
- Areas where surface runoff is directed





Threat Level of Active Volcanoes in the USA

161 total

Of the States with Very High Level Threats:

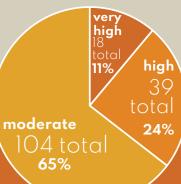
5 out of 86 are in Alaska

4 out of 14 are in Oregon

4 out of 7 are in Washington

3 out of 11 are in California

2 out of 6 are in Hawaii



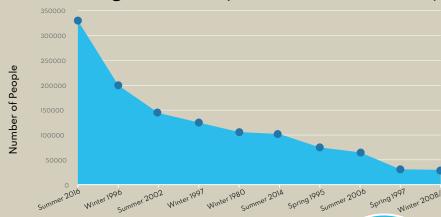
Comparison of Total Wild land Fires and Acres Burned in the USA (2009-2019)







Number of People Affected by Major Flooding in the US (Between 1900-2016)

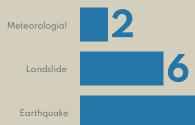


All the People Affected by the Major Flooding Listed Above Compared to the Number People Affected by the Worst Major Flooding in the US

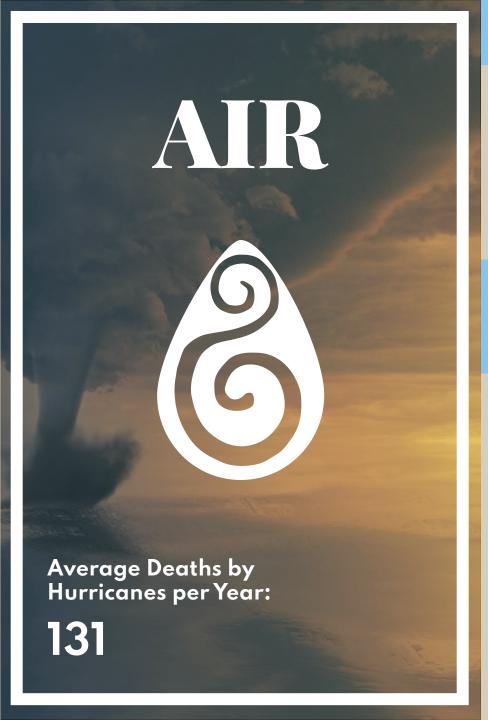
Summer 2008 11,000,148 Affected

1,208,000 Affected

Causes of the Largest Tsunamis in US History (Between 1788-2019)



22





Worst Hurricanes in US History

Size Representative of Death Count

Hurricane Katrina 2005 1833 Killed

Labor Day Hurricane 1935 250 Killed New England Hurricane 1938 9000 Killed

Hurricane Maria

4600 Killed

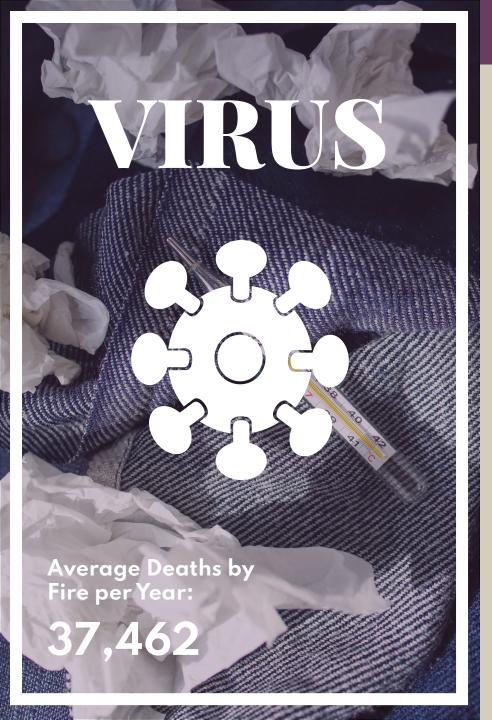
Maximum Wind Speed of Each Hurricane

New England: 121mph Galveston: 135mph Katrina: 175mph Maria: 175mph Labor Day: 200mph

Galveston Hurricane 1900 9000 Killed

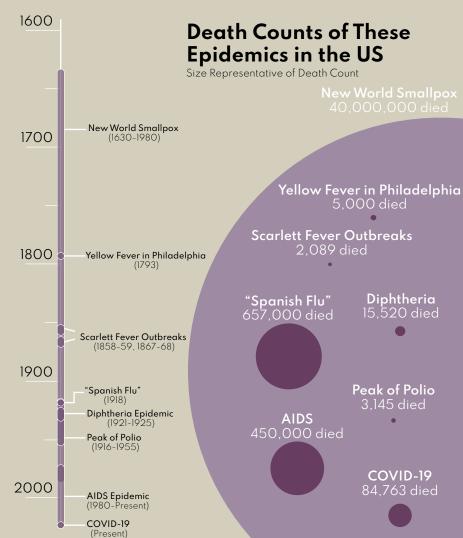
Amount of Tornadoes in the US (Between 2010-2015)







Time-line of Epidemics in US History





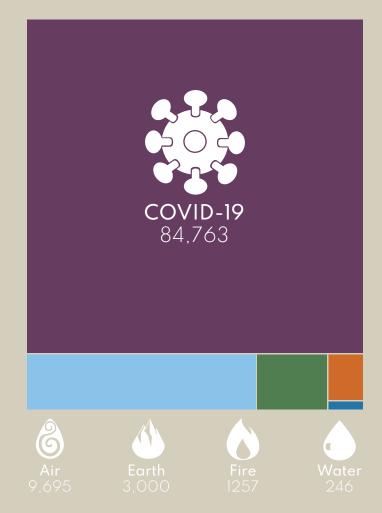
1900

Worst of the Worst

Death Counts of the Worst Disasters in **US** History

3,000 Flash Galveston San Fran. Peshtigo Tri-State **Aleutians** Mount St. Tornado Flood Helen's Earthquake Fire Tsunami Hurricane 1871 1925 1946 2008 1980 1906

US COVID-19 Deaths vs US Deaths of the The Worst Disasters by Type





https://www.usgs.gov/natural-hazards/earthquake-hazards/lists-maps-and-statistics

https://www.usgs.gov/faqs/how-many-deaths-result-landslides-each-year?qt-news_science_prod-

ucts=0#qt-news_science_products

https://www.npr.org/sections/thetwo-way/2014/03/28/295823075/in-u-s-mudslides-common-but-usually-fewdeaths

https://earthquake.usgs.gov/earthquakes/events/1906calif/18april/casualties.php



https://volcanoes.usgs.gov/index.html

https://gizmodo.com/the-18-most-dangerous-volcanoes-in-the-united-states-1830029556

https://www.nifc.gov/fireInfo/fireInfo_stats_totalFires.html

https://www.usfa.fema.gov/data/statistics/

https://www.weather.gov/grb/peshtigofire

https://www.latimes.com/archives/la-xpm-2005-may-15-adna-helensvic15-story.html



https://www.worlddata.info/america/usa/tsunamis.php

https://weather.com/safety/floods/news/2018-11-08-flood-related-deaths-increasing-in-united-states

https://www.statista.com/statistics/237575/major-floods-in-the-us-by-number-of-affected-people/

https://www.weather.gov/media/hazstat/flood08.pdf



https://www.statista.com/statistics/203682/number-of-tornadoes-in-the-us-since-1995/

https://www.history.com/topics/natural-disasters-and-environment/deadliest-hurricanes-in-u-s-history-video

https://www.weather.gov/okx/1938HurricaneHome https://www.livescience.com/22522-hurricane-katrina-facts.html

https://www.worldvision.org/disaster-relief-news-stories/2017-hurricane-maria-facts https://www.iii.org/fact-statistic/facts-statistics-hurricanes

https://www.history.com/this-day-in-history/the-tri-state-tornado



https://nmhum.org/pdfs/TheEffectofSmallpoxontheNewWorld.pdf

https://www.healthline.com/health/worst-disease-outbreaks-history#1

https://people.umass.edu/swedlund/ScarletFever.pdf

https://aidsinfo.nih.gov/news/560/20-years-of-aids--450-000-americans-dead--over-1-million-have-been-

https://www.cdc.gov/flu/about/burden/index.html