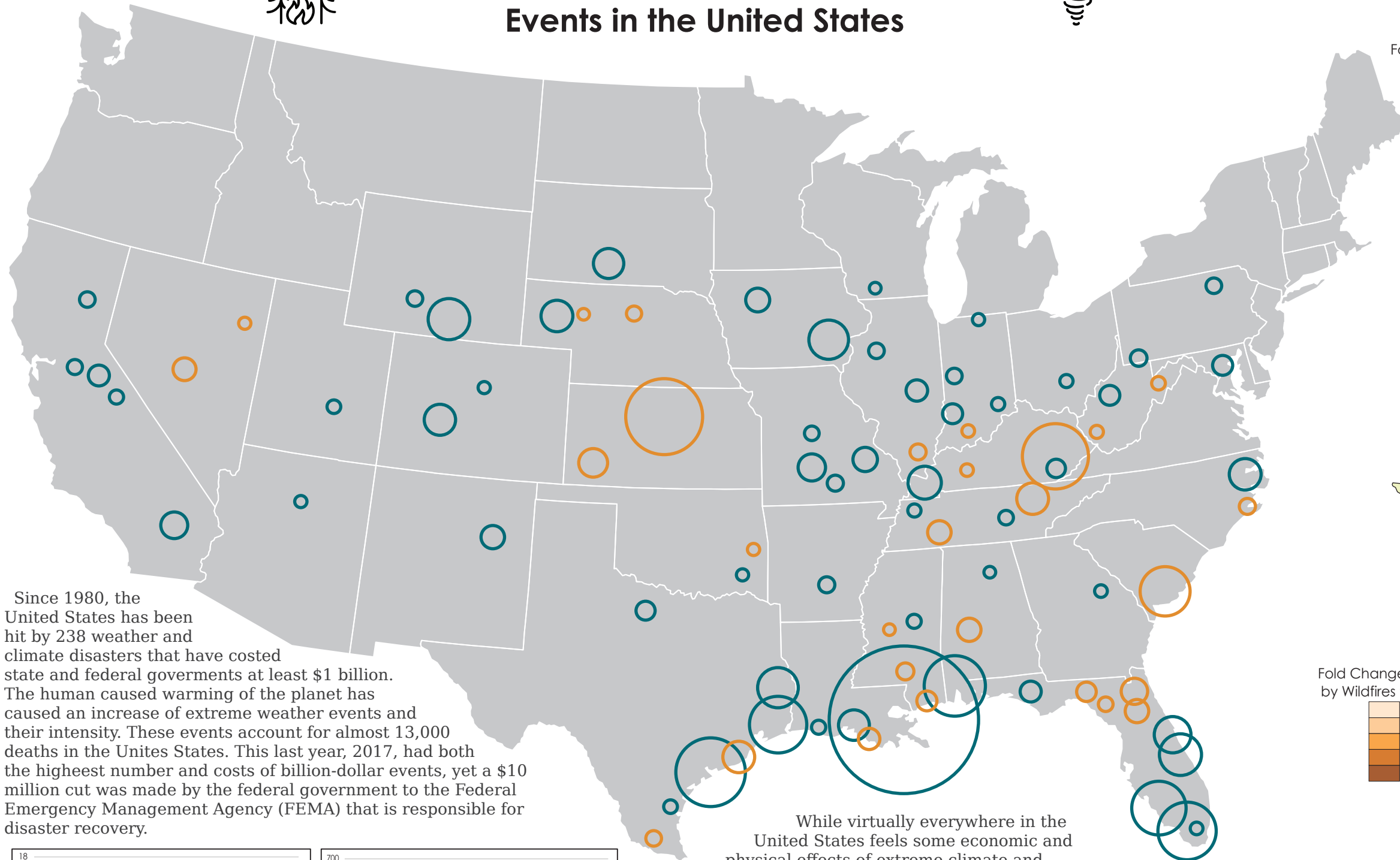




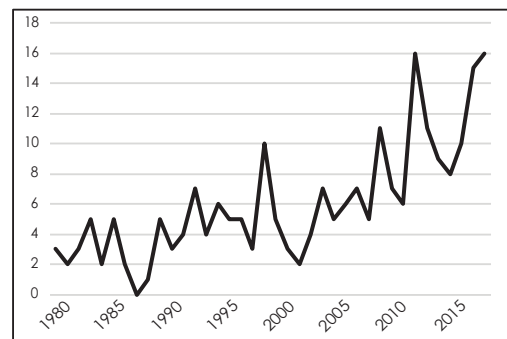
The Real Cost of Mother Nature



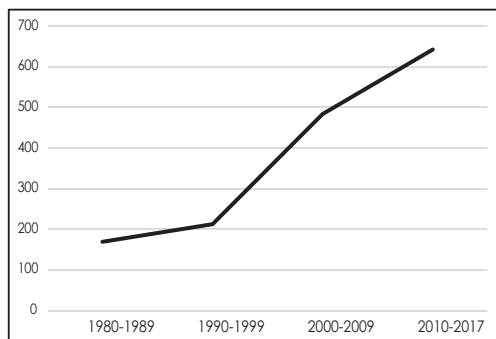
Billion-dollar Extreme Climate and Weather Events in the United States



Since 1980, the United States has been hit by 238 weather and climate disasters that have costed state and federal governments at least \$1 billion. The human caused warming of the planet has caused an increase of extreme weather events and their intensity. These events account for almost 13,000 deaths in the United States. This last year, 2017, had both the highest number and costs of billion-dollar events, yet a \$10 million cut was made by the federal government to the Federal Emergency Management Agency (FEMA) that is responsible for disaster recovery.



Number of Billion-dollar Weather Events 1980-2017



Total Cost of Billion-dollar Weather Events by Decade

While virtually everywhere in the United States feels some economic and physical effects of extreme climate and weather events, larger events are unequally distributed. The South and Gulf Coasts are hit the hardest. These events are hitting this area more frequently, which results in shorter recovery time before the next disaster. It is a continuous cycle that always keeps residents on their toes.

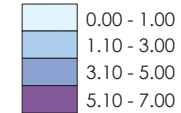
Extreme Weather Event Cost (2018 Billion USD)*



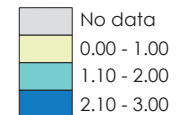
1980s Events 2000s Events

* weather events are centralized within the states that they effected. This can range anywhere from 1 state to 30 states

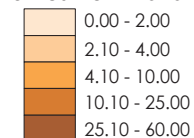
Fold Change of Tornadoes from 1980 to 2010



Fold Change of Hurricanes from 1980 to 2010



Fold Change of Acres Burned by Wildfires from 2010 to 2017



Cartographer: Emma Landry
Data Sources: NOAA "US Billion-Dollar Weather and Climate Disasters 1980-2018"; National Interagency Fire Center; Wikipedia Atlantic Hurricane Seasons; tornadohistoryproject.com
Created: December 13, 2018
Projection: Albers Equal Area Conic USGS
Central Meridian: -96.0; Standard Parallel 1: 29.5; Standard Parallel 2: 45.5