

# Data Engineering Capstone

Exploratory Data Analysis



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## Datasets:

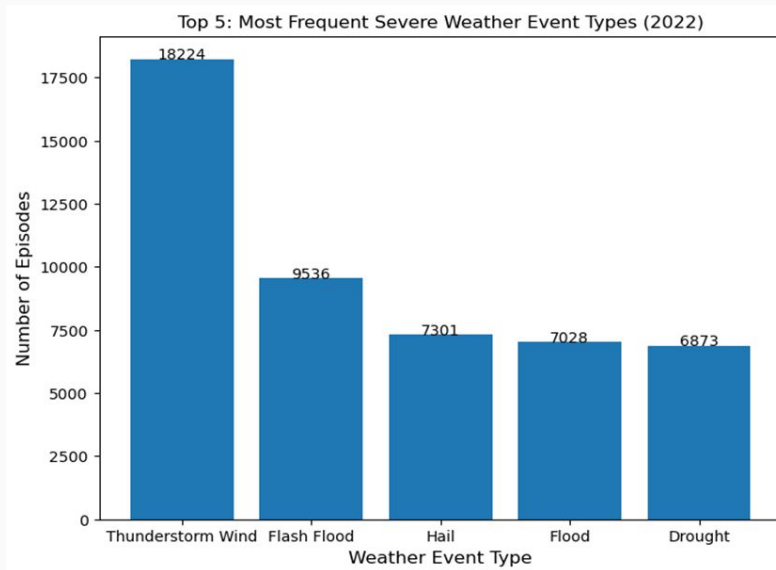
*(Based on the most recent year for which data is available)*

1. NOAA Historic Severe Storms (2022)
2. Homeowners & Renters Insurance by State (2007 - 2020)
3. State to State Migration Flows (2021)

# NOAA Historic Severe Storms - 2022

The leading severe weather event across the United States was Thunderstorm Wind

Thunderstorm Wind events occurred almost 2x as frequently as Flash Flood



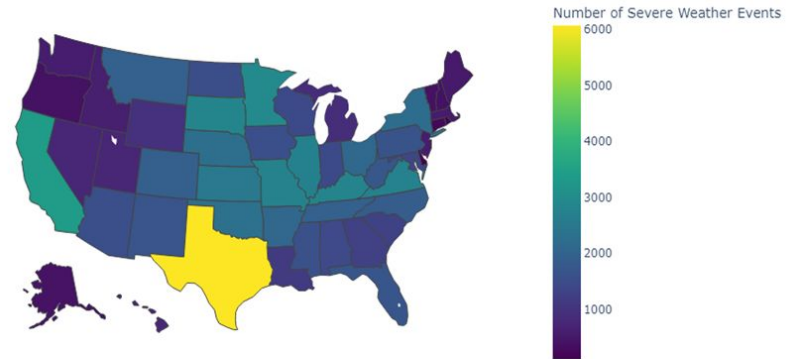
# NOAA Historic Severe Storms - 2022 (Cont.)

Texas experienced the greatest number of severe weather events (totaling 6,067) - Nearly 2x as many as California

Second to Texas, California experienced a total of 3,358 severe weather events

In 2022, Delaware and Rhode Island experienced the least amount of severe weather events (totaling 103 and 119 respectively)

Number of Severe Weather Events by State (2022)

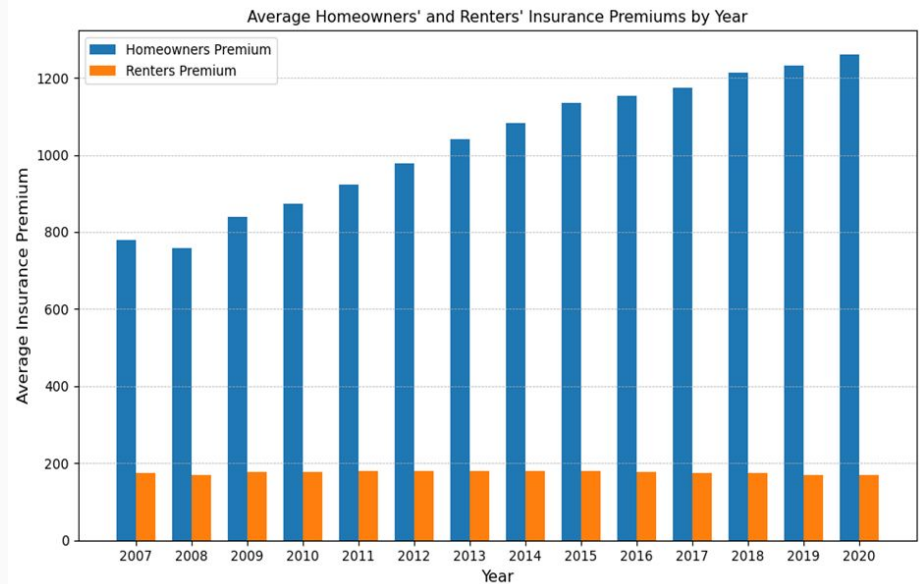


# Homeowners & Renters Insurance

Renters' insurance does not fluctuate materially over the years

Homeowners' insurance, on the other hand, has risen from:

- Under 800 USD (in 2007)
- To over 1,200 USD (in 2020)



# State to State Migration Flows - 2021

Florida and Texas experienced the greatest inflows

Whereas, California and New York suffered the largest outflows

Of the respondents who moved to Florida, most emigrated from New York (totaling 91,758)

Of the respondents who moved to Texas, the majority emigrated from California (totaling 107,546)

