

# Burning Questions

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# Burning Questions

What environmental factors contribute to number of fires and acres burned per year in the US and Colorado?

Date Range: 2015-2019

Colorado vs. National Data

Fire Data Source:

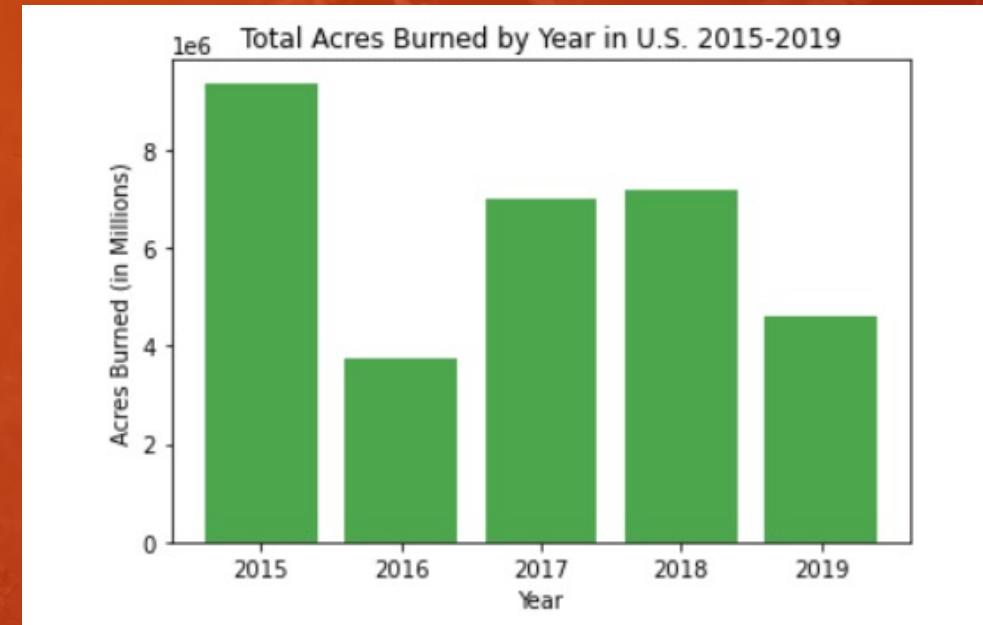
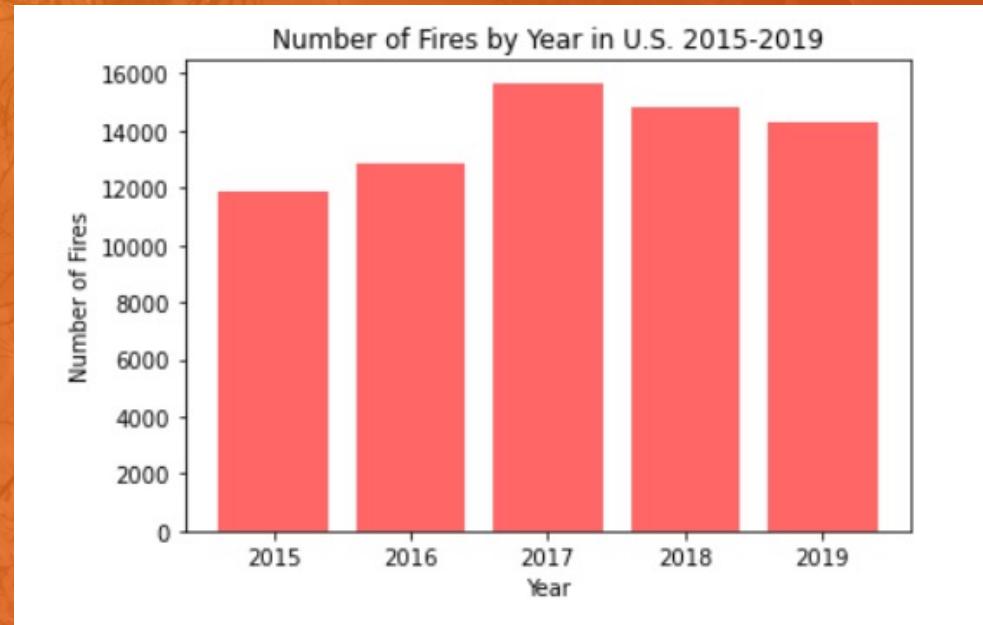
<https://data-nifc.opendata.arcgis.com/>

Weather Data Source:

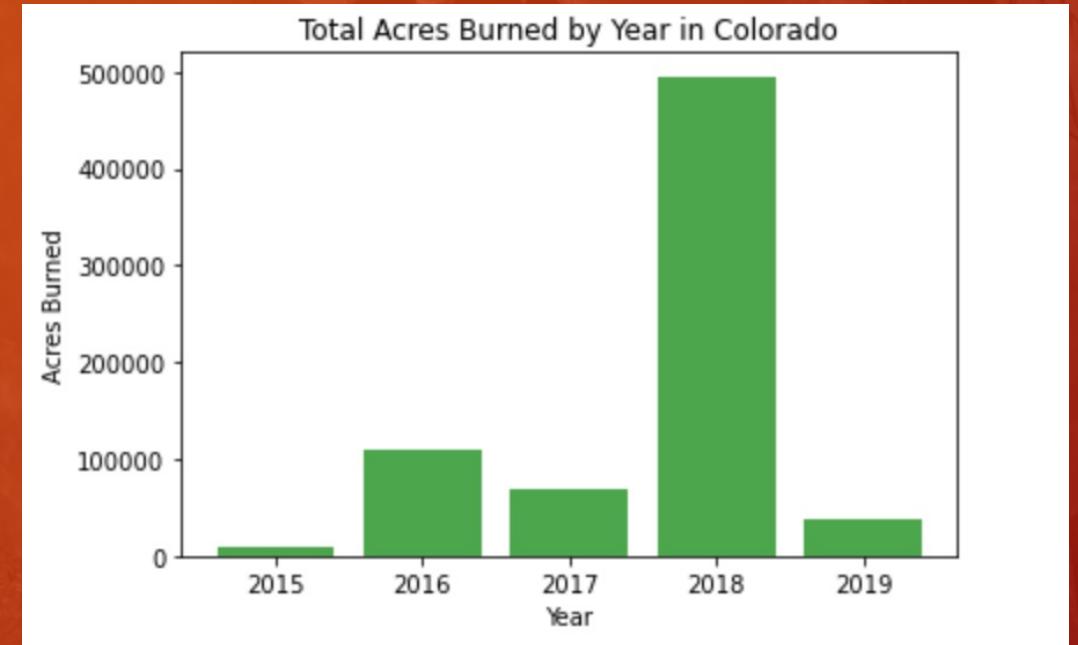
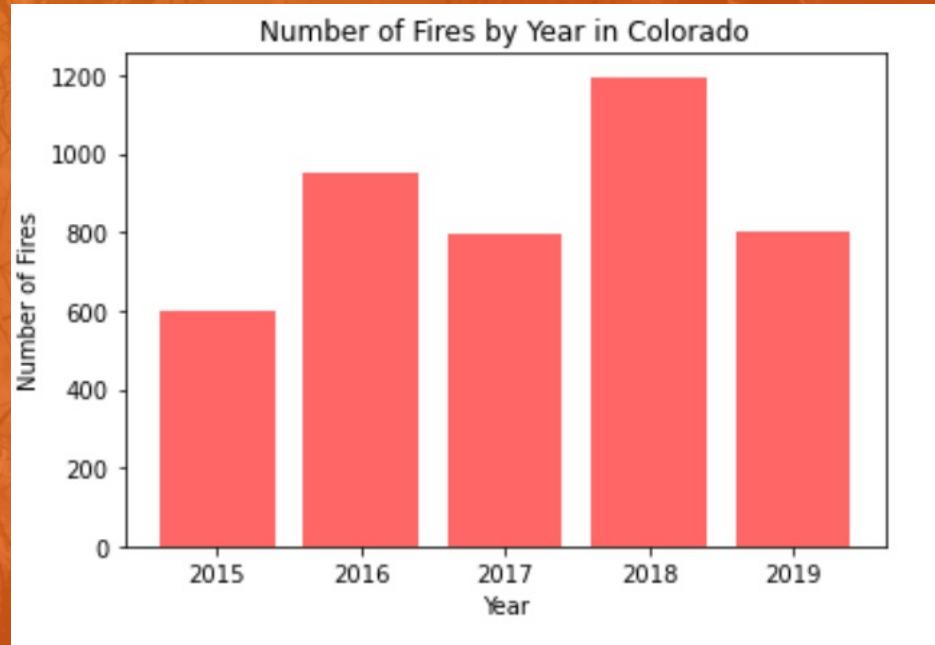
<https://www.ncdc.noaa.gov/data-access>

<https://droughtmonitor.unl.edu/Data/DataDownload/ComprehensiveStatistics.aspx>

# National Numbers of Fires vs Acreage Burned

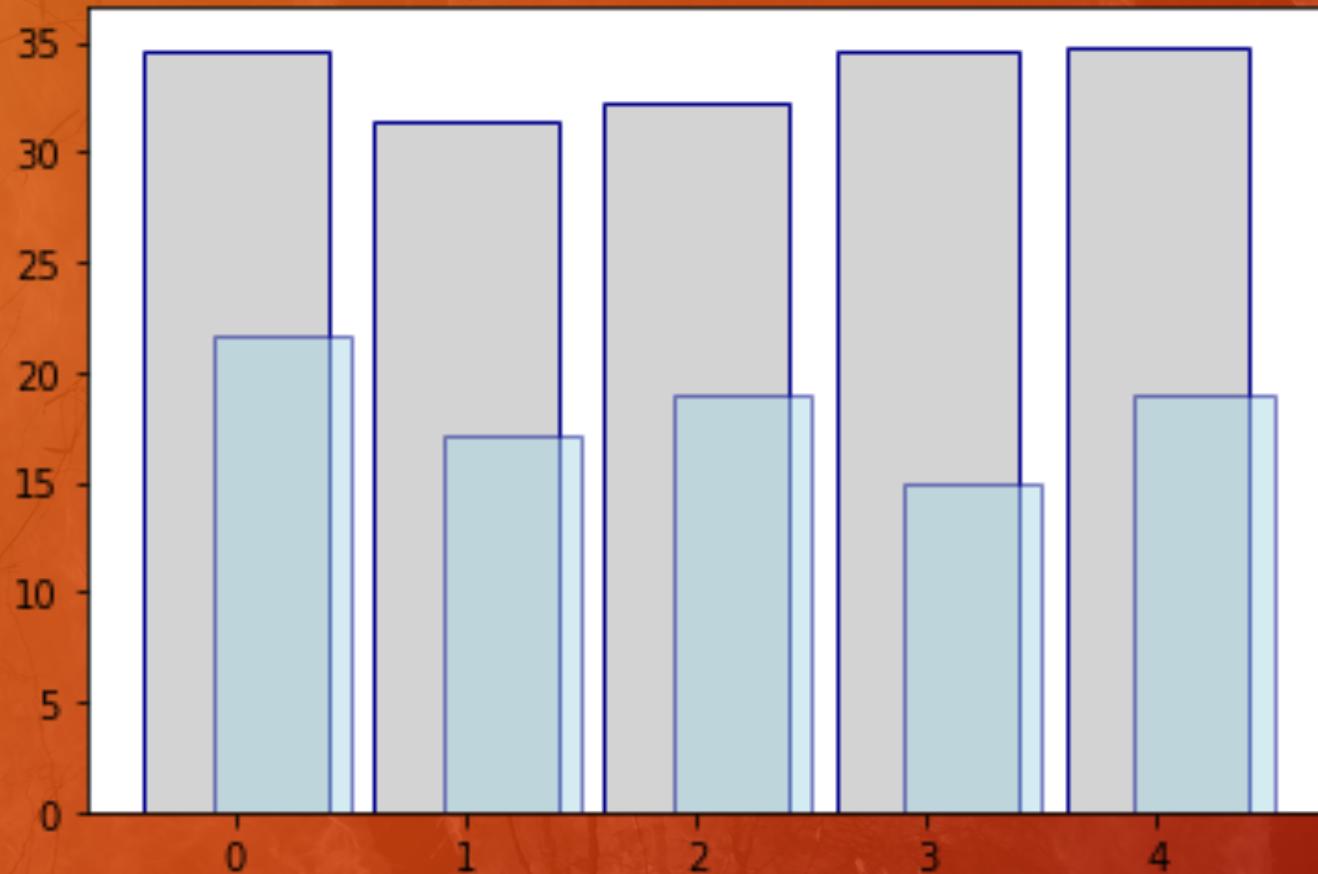


# Colorado Numbers of Fires vs Acreage Burned

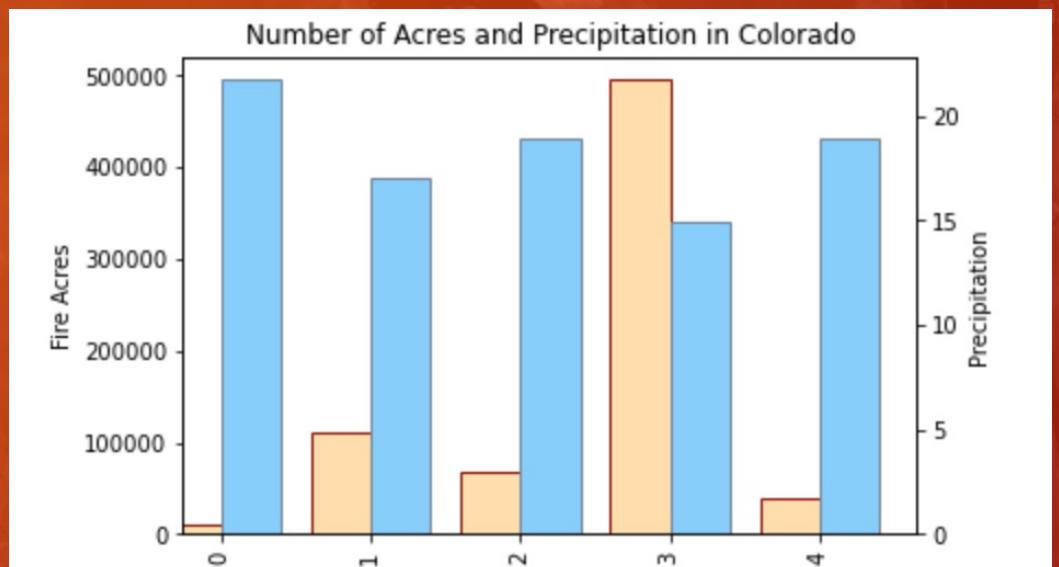
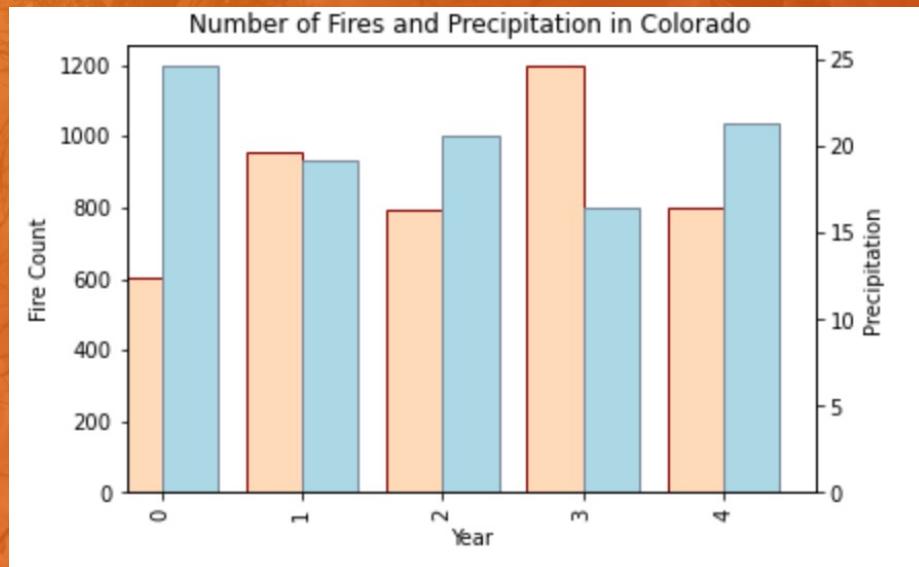


# Colorado vs National Precipitation

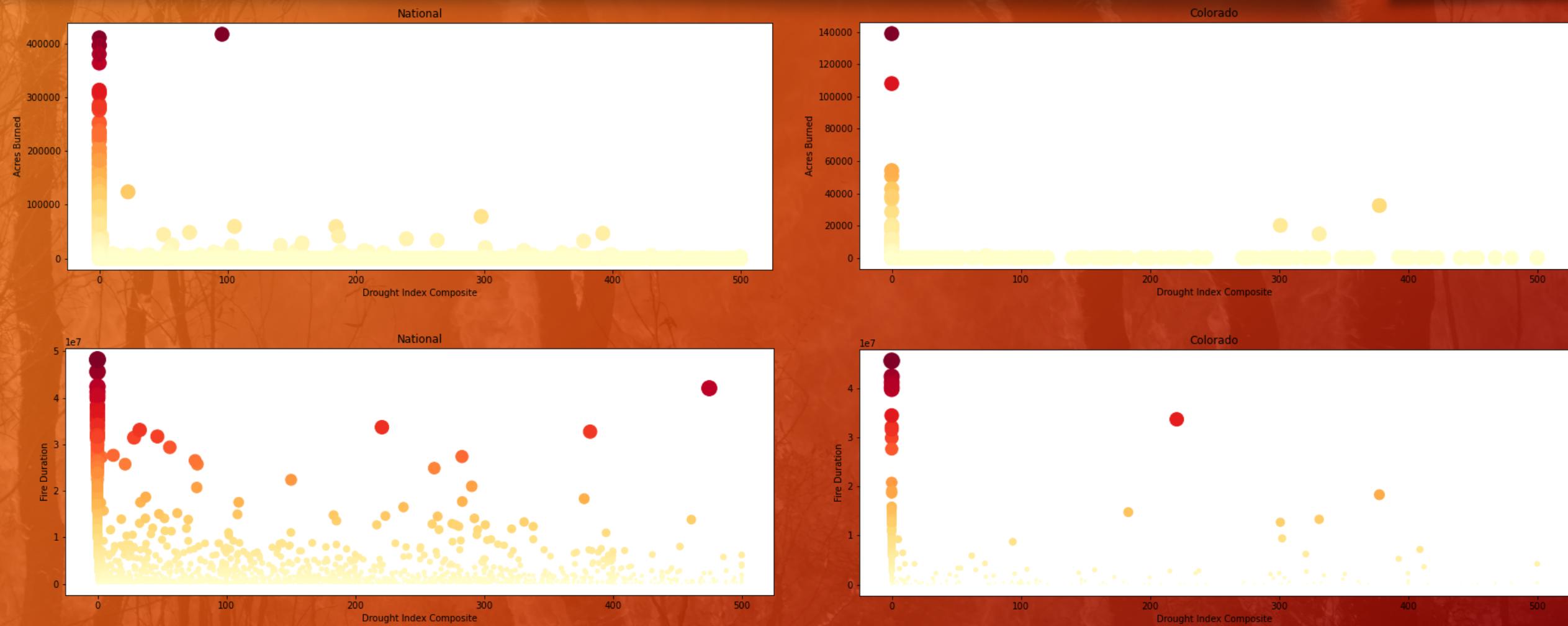
Precipitation in Colorado vs. US



# Colorado Precipitation and Number of Fires and Acreage Burned

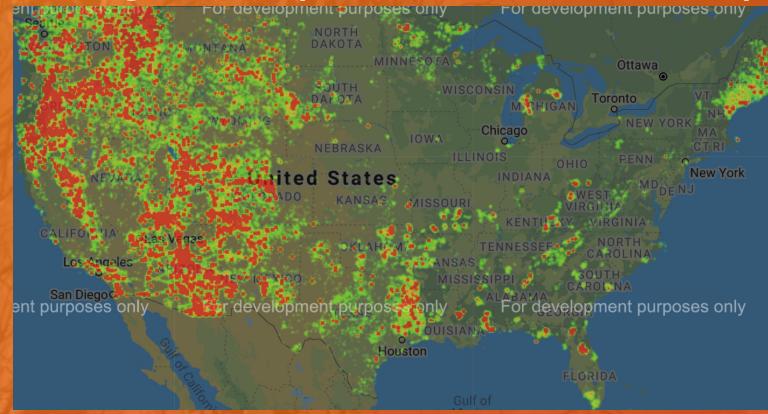


# Colorado vs National Drought Index

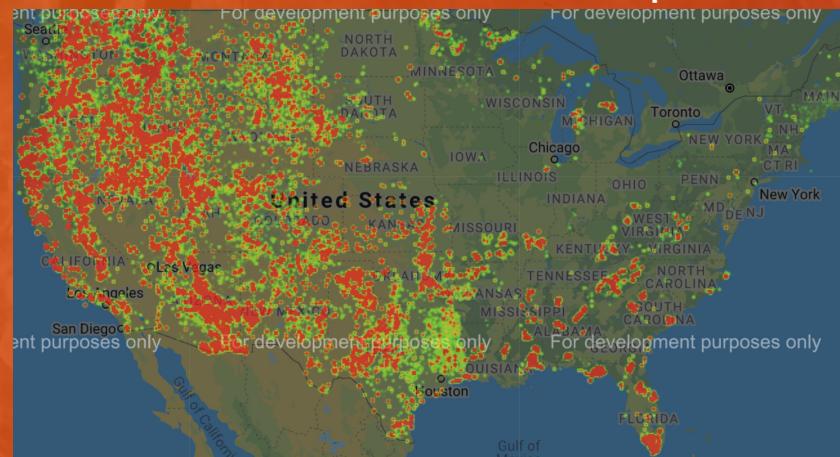


# Colorado vs National Drought Index

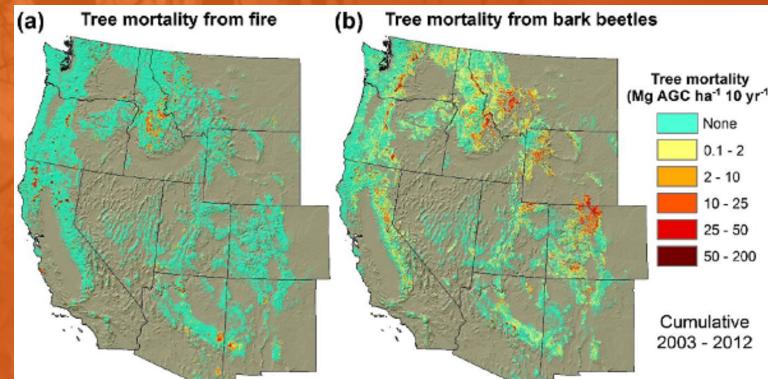
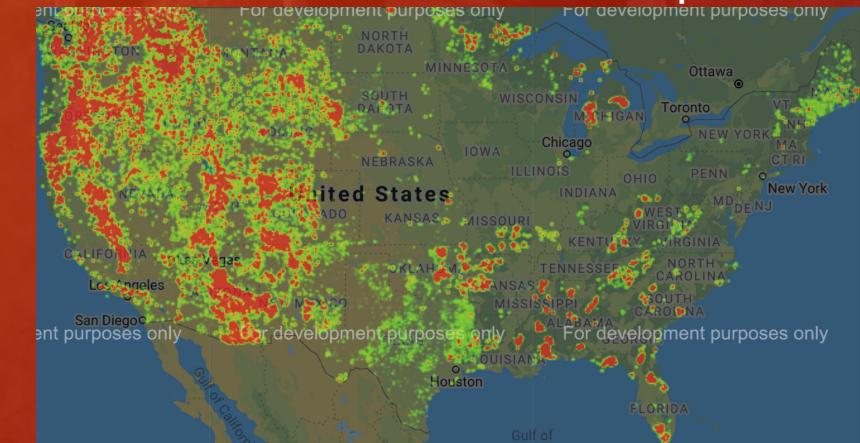
Drought Composite Index Heatmap



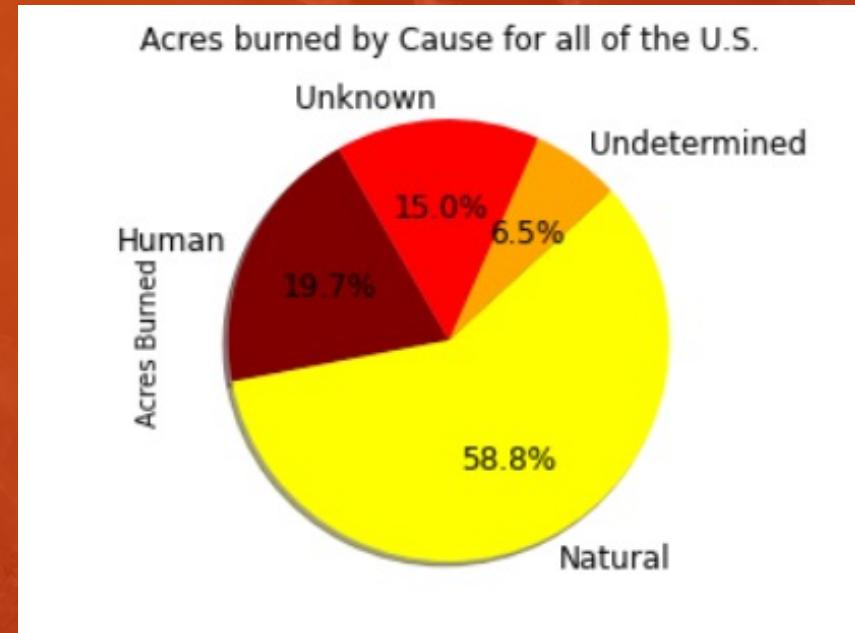
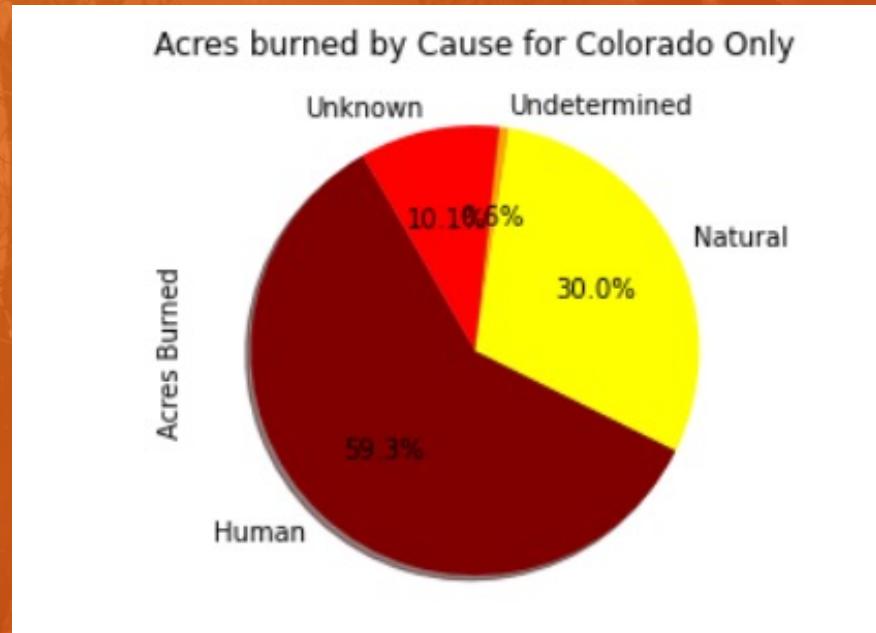
Acres Burned Heatmap



Fire Duration Heatmap



# Causes of Fire in Colorado vs. Nationwide



# Conclusions

- Are the number of wildfires or acreage burned in Colorado per year increasing over time?
- Are precipitation levels related to increased wildfires?
- What other factors might contribute to the occurrence of wildfires in Colorado?
- Limitations:
  - time frame
  - the multitude of environmental factors interacting