

Wildfires: Case Study

---- Group 4 (New York)

Outline

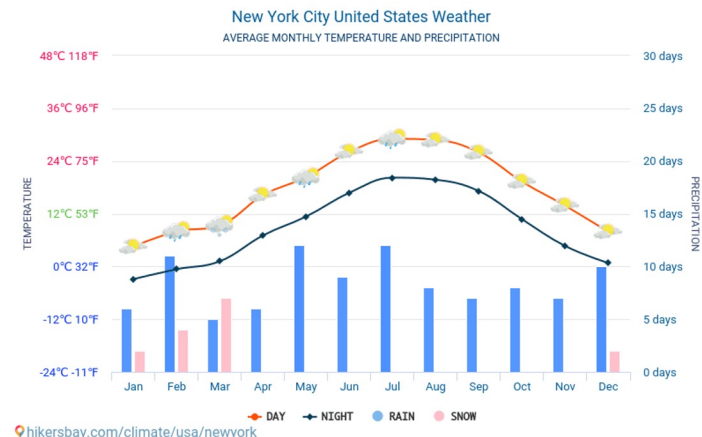
- Introduction to the problem
- Graphs
- Maps
- Challenges
- Conclusions
- Bonus



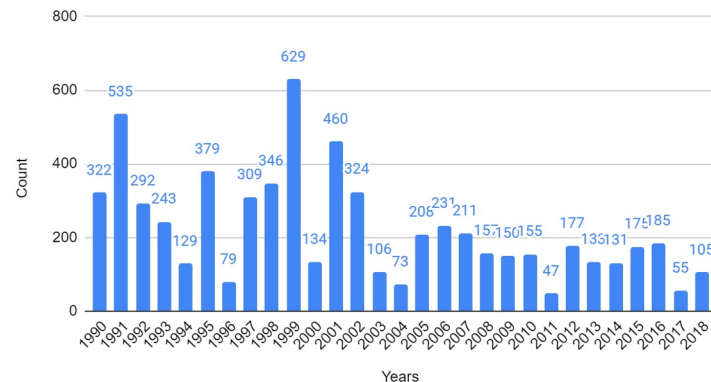
BY NICK REISMAN CITY OF ALBANY
PUBLISHED 4:42 PM ET SEP. 25, 2020

Introduction to the problem

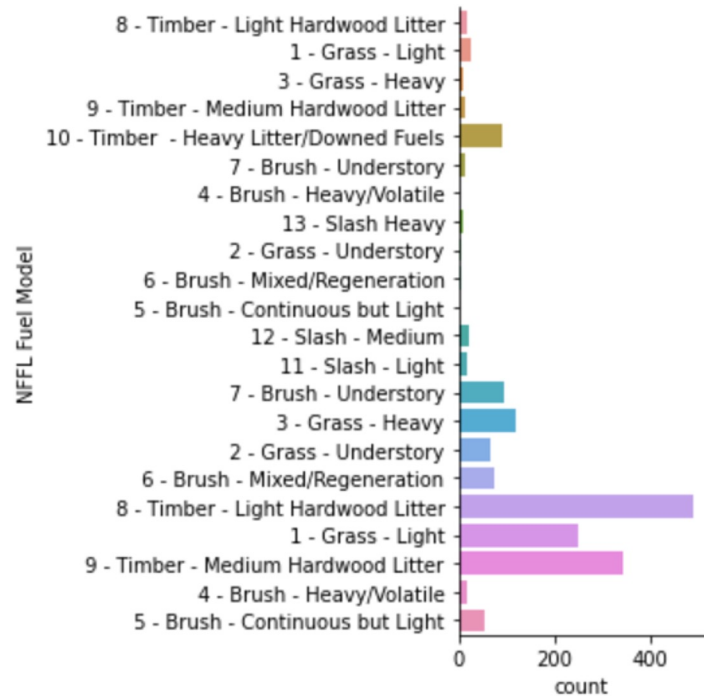
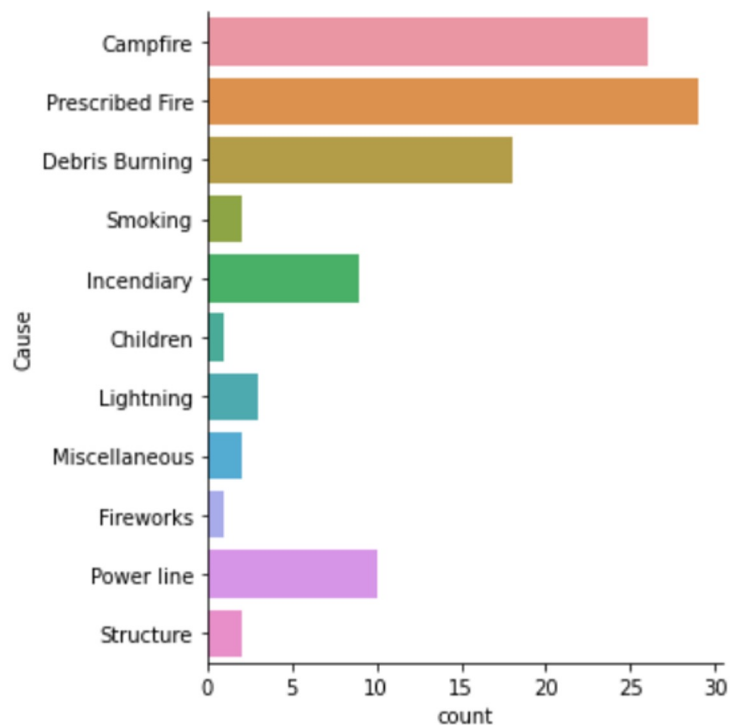
- New York is a state in the Mid-Atlantic and Northeastern regions in the United States.
- Humid subtropical climate
- An average of more than 200 wildfires per year in the past 30 years



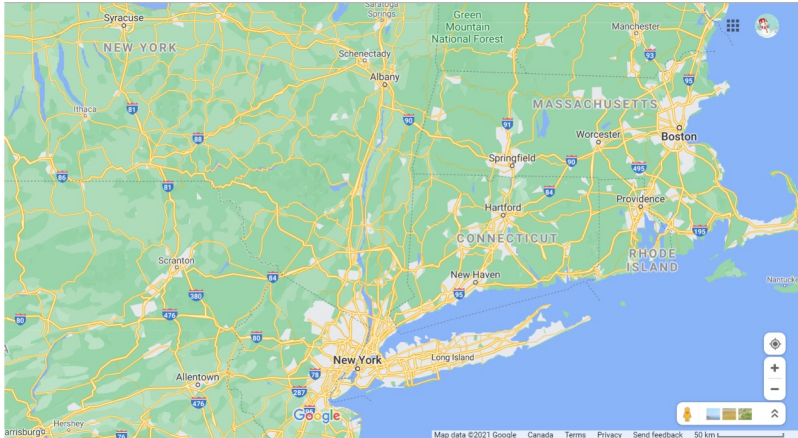
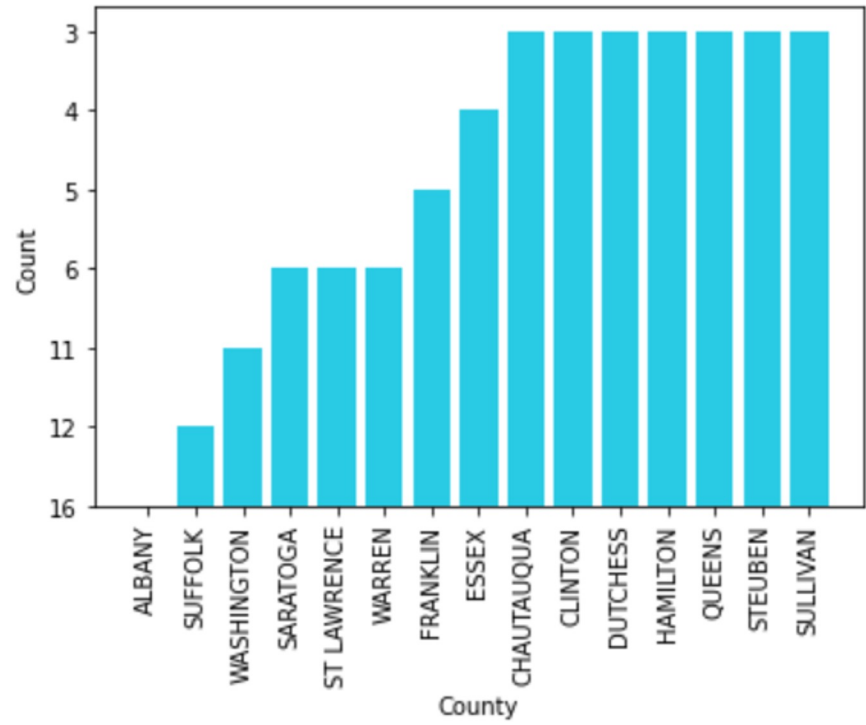
Wildfires in New York State



Graphs

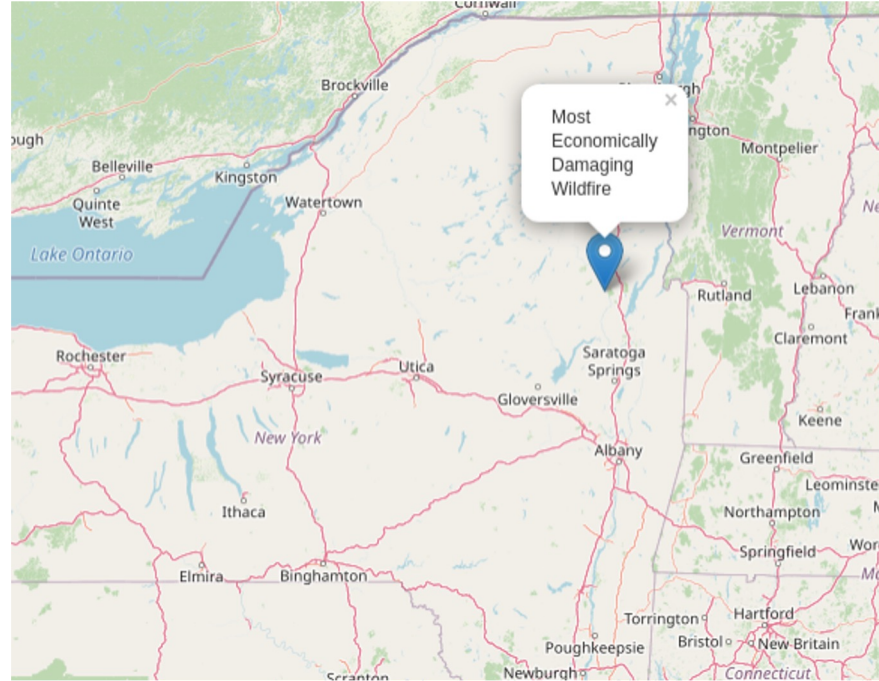


Graphs



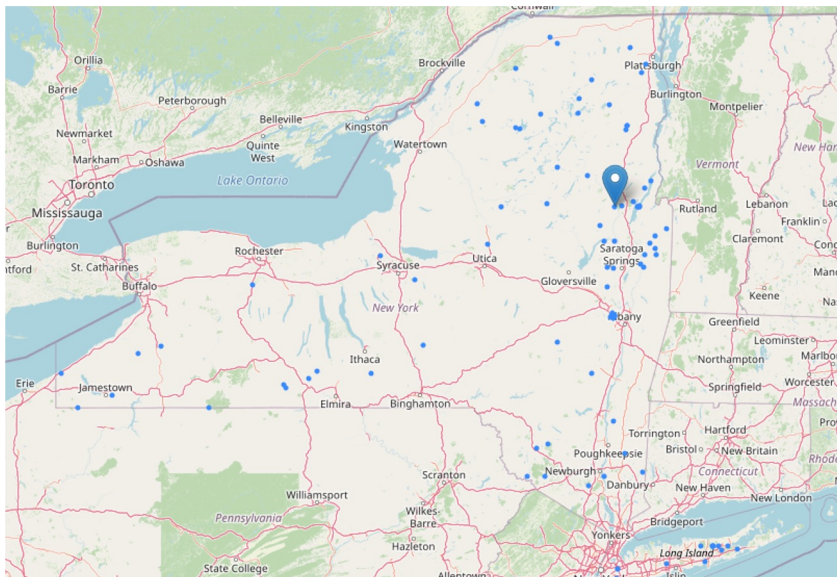
Maps

- Thurman Fire
- Date: August 5, 2019
- Non-Personal Expenses: 500
- Fuel: Miscellaneous
- Type: Slash Heavy
- County: Warren
- Municipality: Thurman
- Location: Private Property

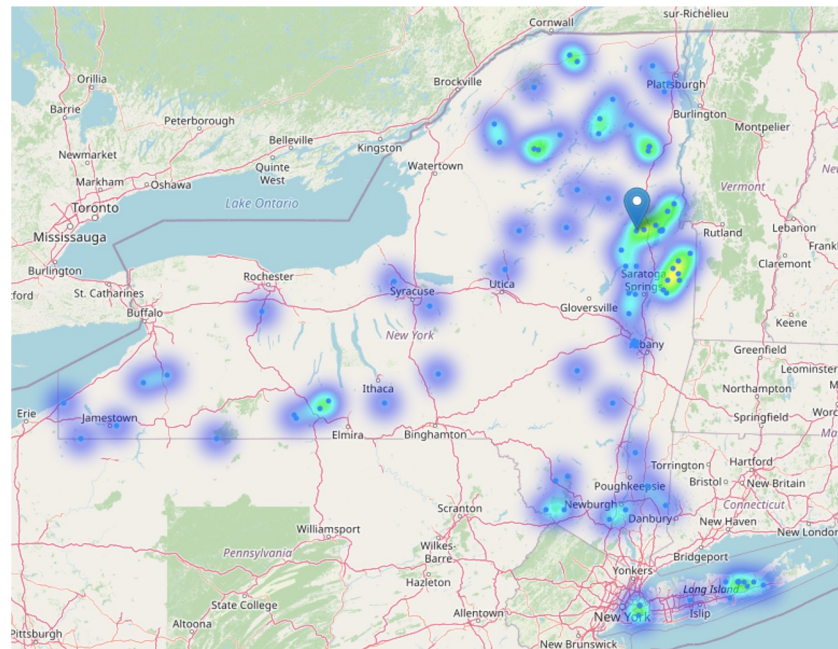


Most Economically Damaging Wildfire in New York (2019)

Maps



Locations of Wildfires in New York (2019)



Heat Map of Wildfires in New York (2019)

Challenges

As a group we did not face many challenges or issues while coding. I think that the biggest problem was coordinating what each person's role was in either the data cleaning or the slideshow.

- My issue

```
for index, row in newyork_df.iterrows():
    newyork_df['year'][index] = row['Fire Start Date'][:4]
    if newyork_df['year'][index] != '2019':
        newyork_df = newyork_df.drop([index], axis=0)
```

KeyError: 'year'

```
cause = newyork_df['NFFL Fuel Model'].unique()
count = newyork_df['NFFL Fuel Model'].value_counts()
plt.pie(count, labels= cause, wedgeprops= {'edgecolor': 'black'}, autopct= '%.2f%%')

for index, row in newyork_df.iterrows():
    if 'Grass' in newyork_df['NFFL Fuel Model'][index]:
        newyork_df['Main Fuel'][index] = 'Grass'
    elif 'Timber' in newyork_df['NFFL Fuel Model'][index]:
        newyork_df['Main Fuel'][index] = 'Timber'
    elif 'Slash' in newyork_df['NFFL Fuel Model'][index]:
        newyork_df['Main Fuel'][index] = 'Slash'
    elif 'Brush' in newyork_df['NFFL Fuel Model'][index]:
        newyork_df['Main Fuel'][index] = 'Brush'
```

KeyError: 'Main Fuel'

Work Cited

Our Colab link:

<https://colab.research.google.com/drive/16mshO0EmyLFZDo5BoMVuqazuc25c6Haa?usp=sharing>

“Wildfires.” Wildfires, www.dec.ny.gov/lands/4975.html. Accessed 25 Aug. 2021.

REISMAN, NICK. “A Western Wildfire Unlikely in New York, But ADKs Still Face Risk.” Spectrumlocalnews [ALBANY, New York], 25 Sept. 2020, p. spectrumlocalnews.

“What Is the Weather like in New York City? New York City United States Weather. Climate and Weather in New York City 2021.” Hikersbay, hikersbay.com/climate/usa/newyork?lang=en. Accessed 25 Aug. 2021.