

Predictive Model for Forest Fire Preparedness

Determining the likelihood of forest fires by using weather projections



Why this project?

- Forest fires are becoming more commonplace and dangerous
- Weather is getting warmer by the year
- Anticipating forest fires may help communities be better equipped to handle the risks.



Where my data came
from:

Canada

Environment and natural resources

Forests and forestry





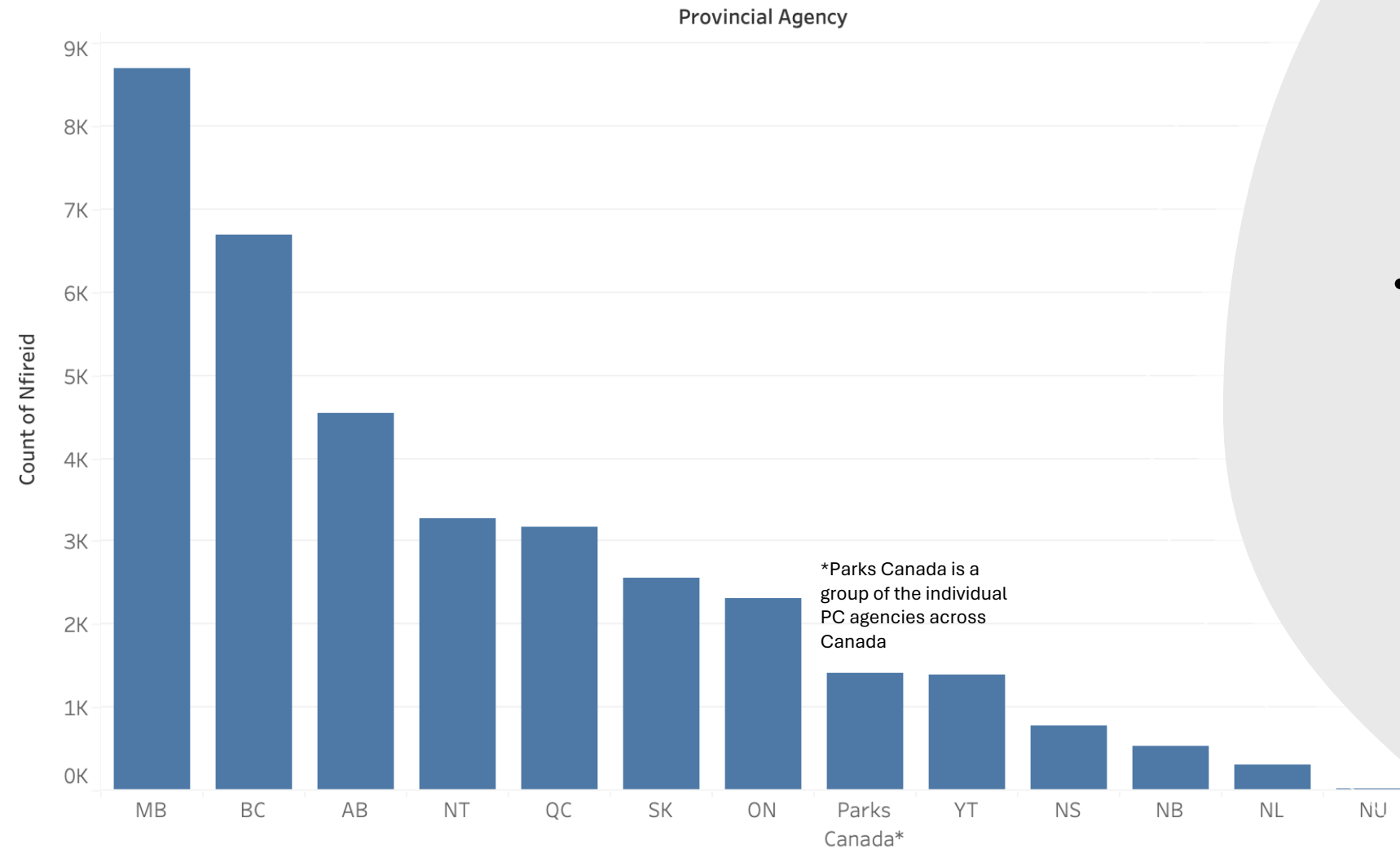
Findings

FOREST FIRE DATA



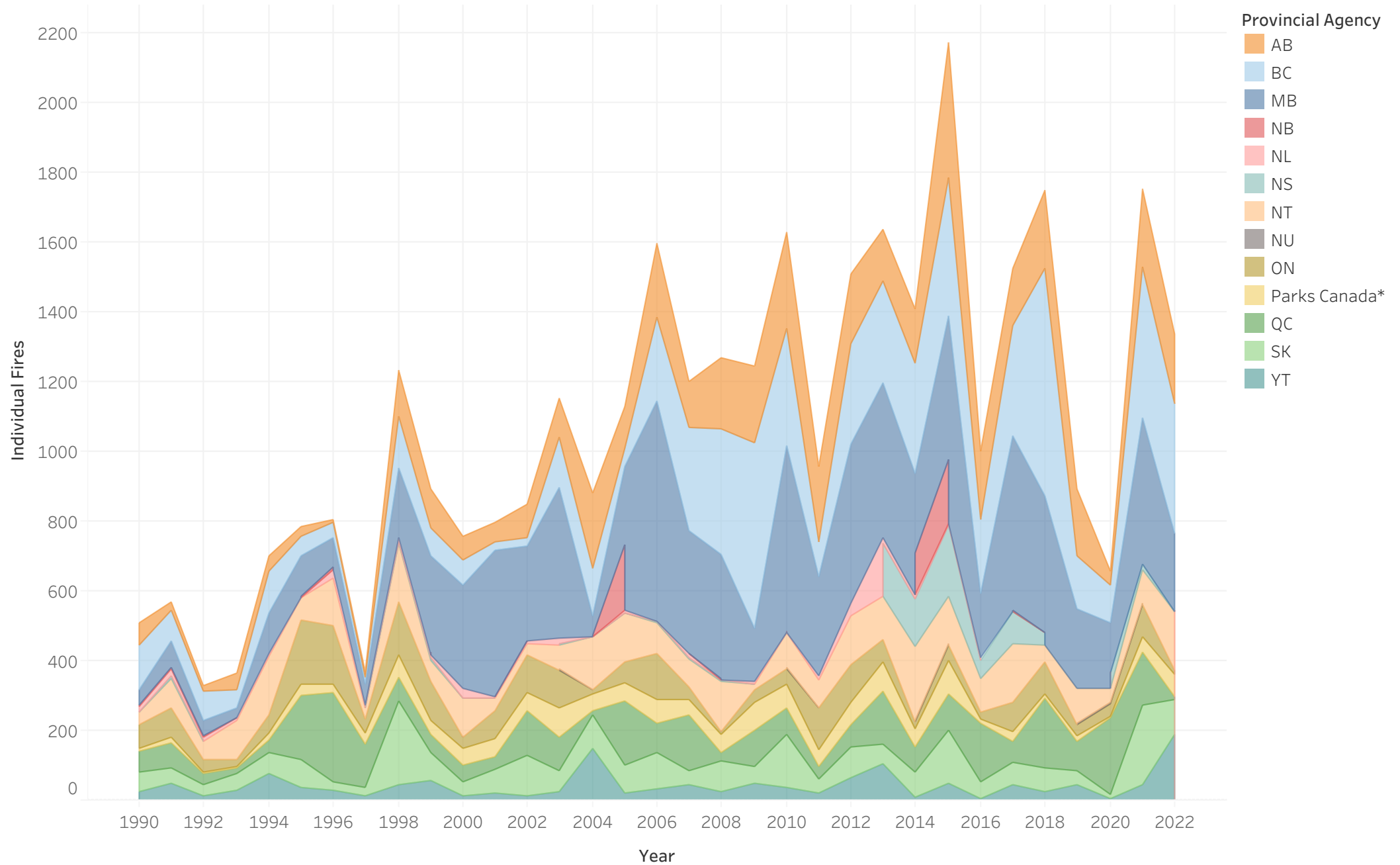
Number of Registered Forest Fires by Provincial Agency

between 1990 and 2022



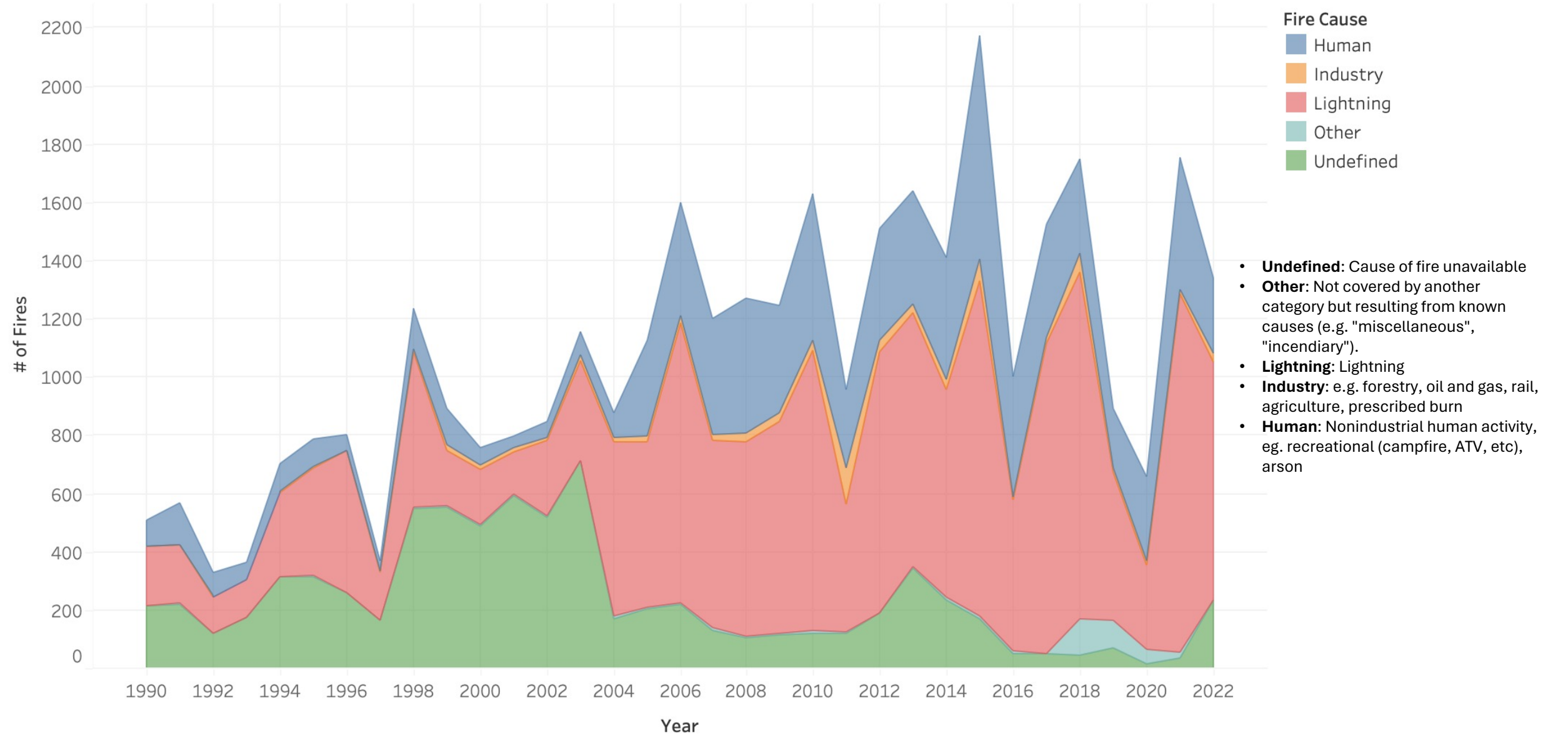
- Most fires occur in the Western provinces

Number of Fires by Provincial Agency by Year

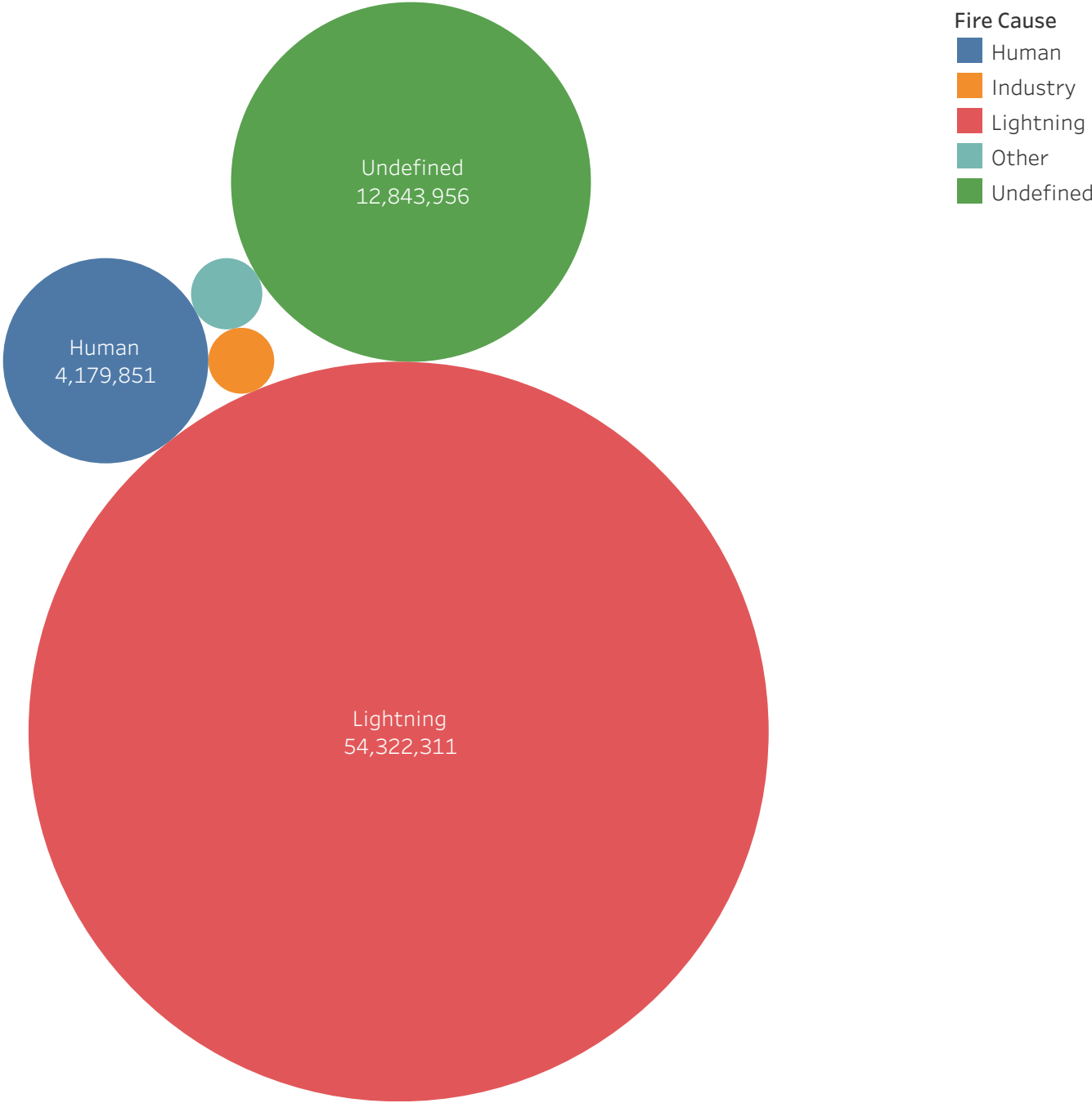


Number of Fires by Cause

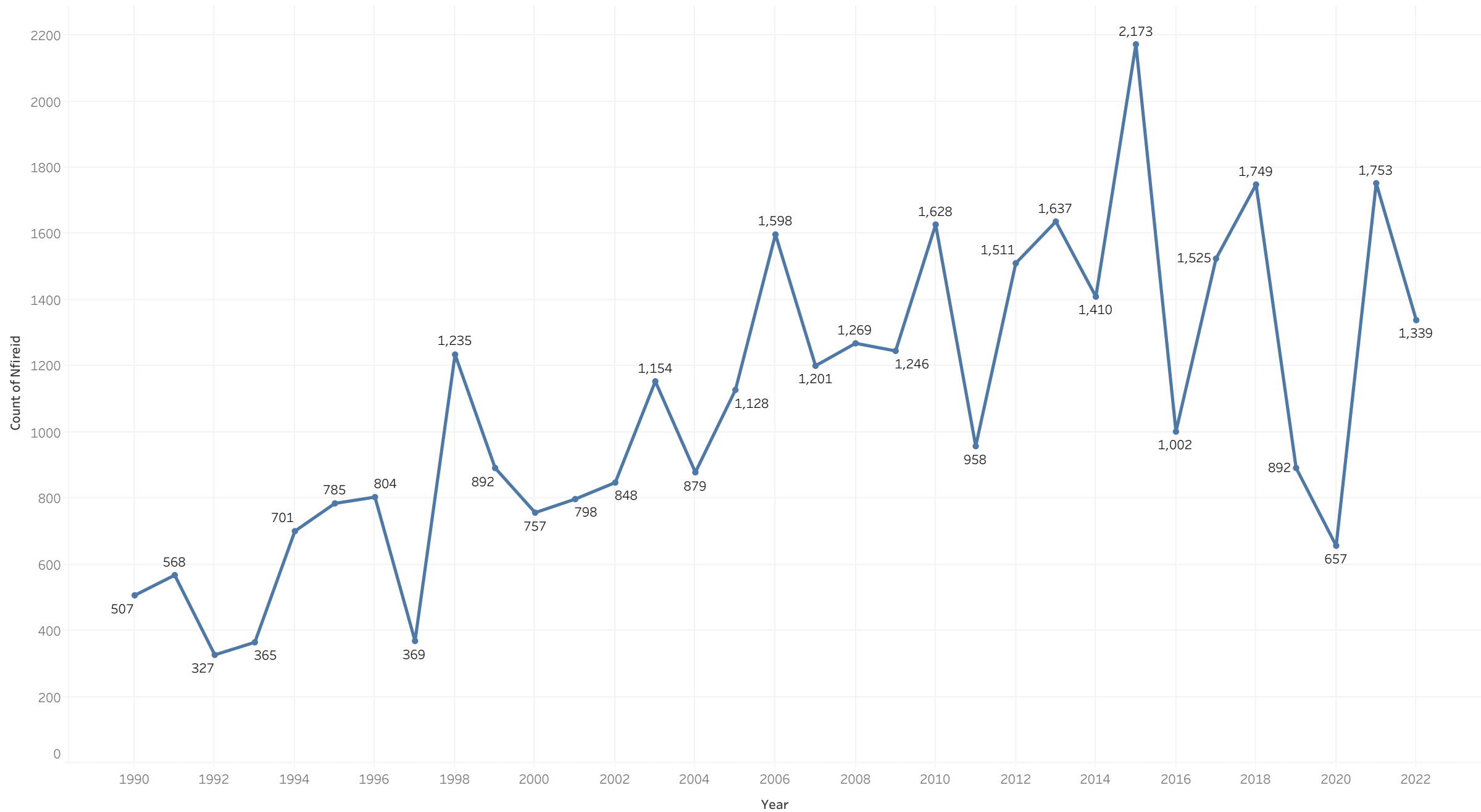
1990 to 2022



Hectars Burned by cause

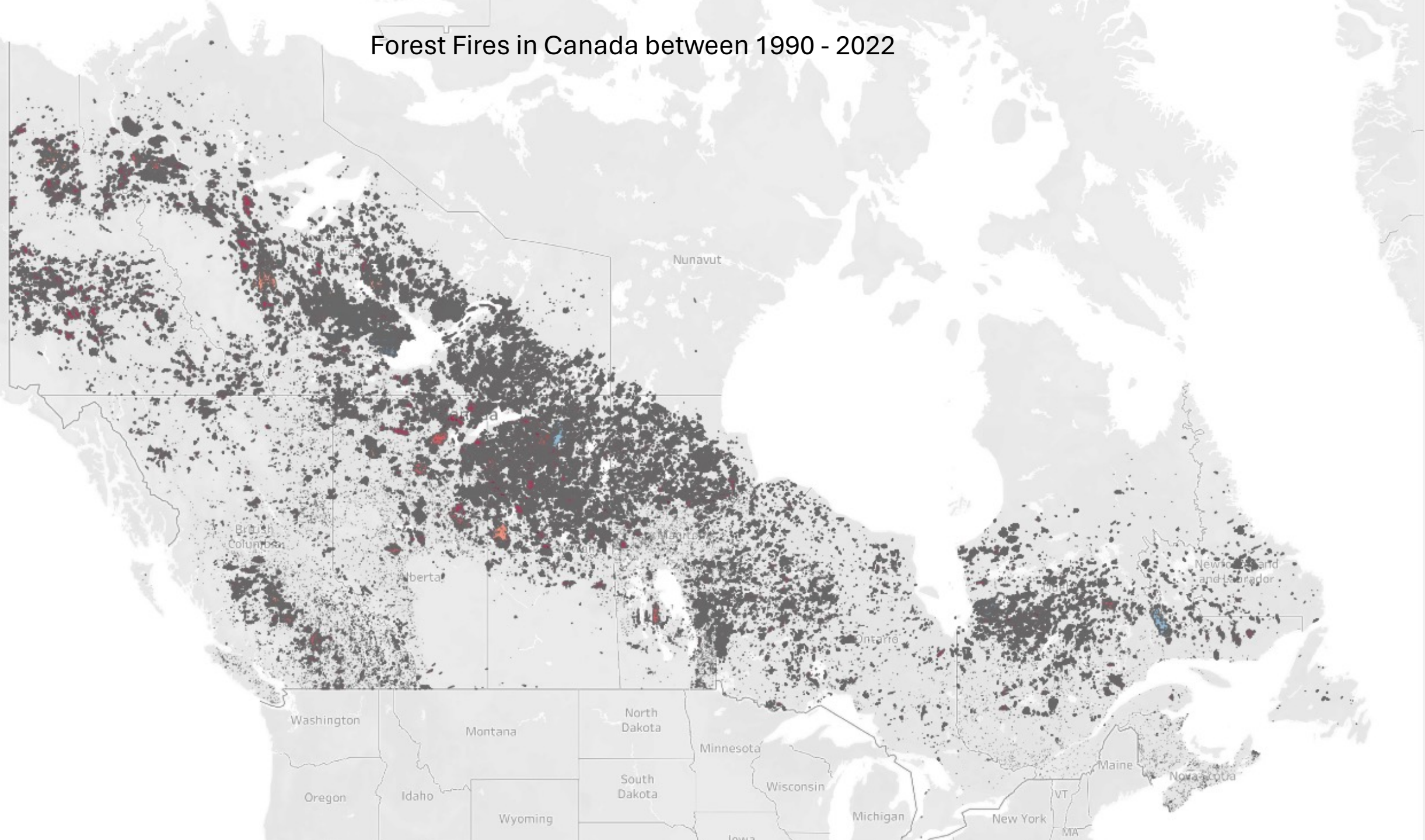


Number of Registered Forest Fires by Year



The trend of count of Nfireid for Year. The marks are labeled by count of Nfireid.

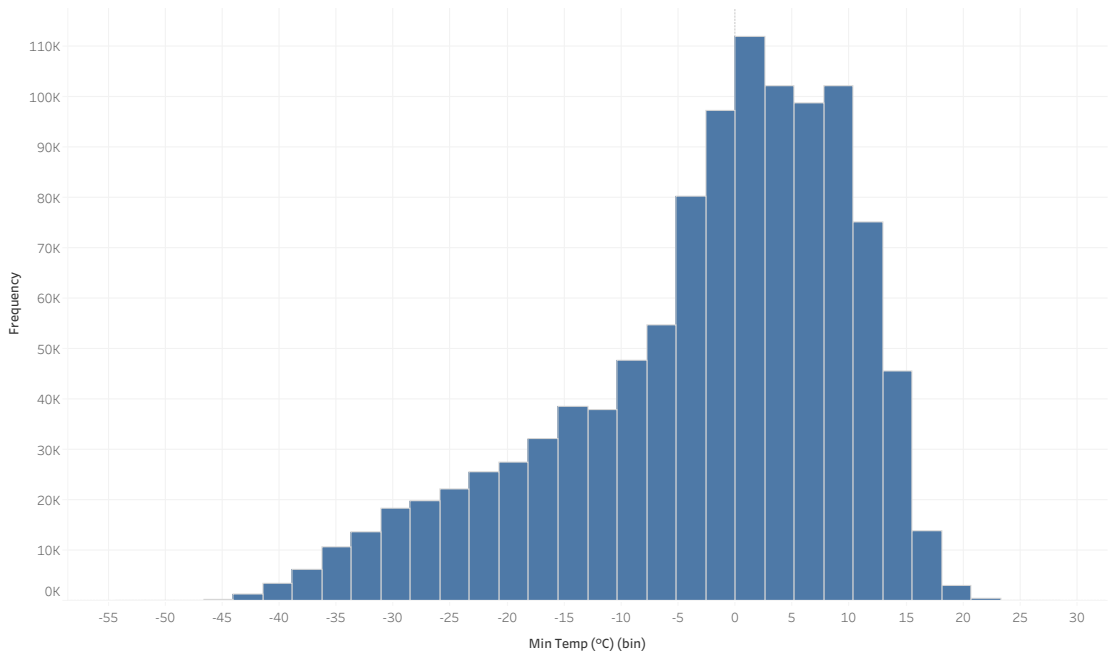
Forest Fires in Canada between 1990 - 2022



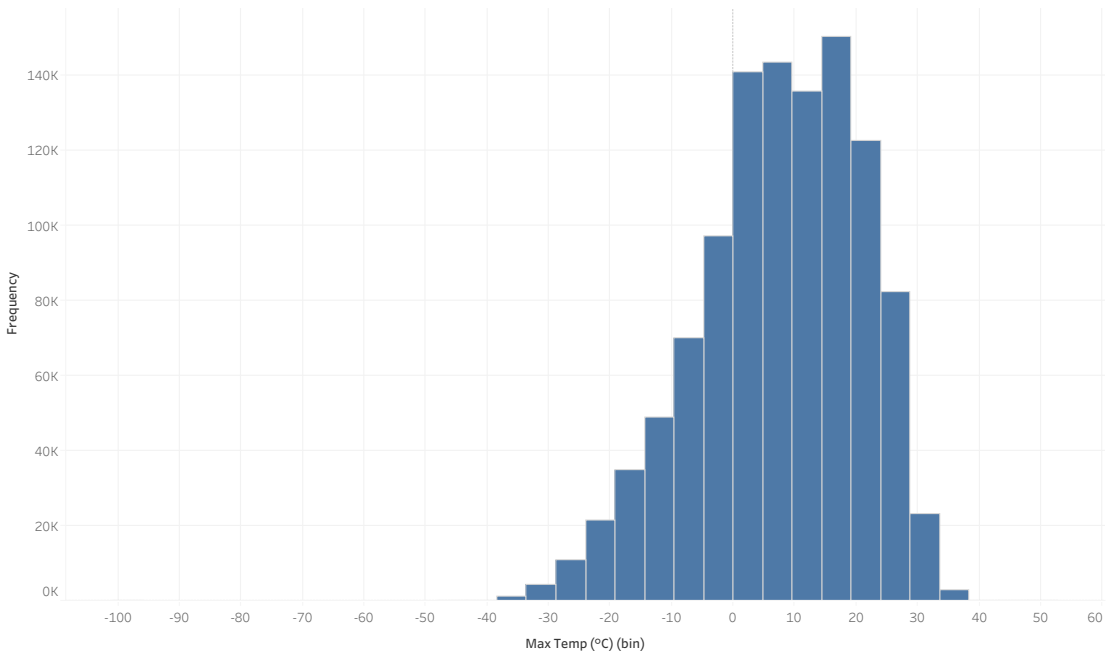
Map of the Boreal Forest



Distribution of Minimum Temperature
between 1990 and 2022



Distribution of Maximum Temperature
between 1990 and 2022



- Left skew indicating higher frequency of higher temperatures
- Temperatures most likely to keep increasing as time goes on