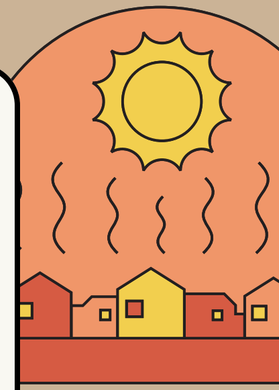
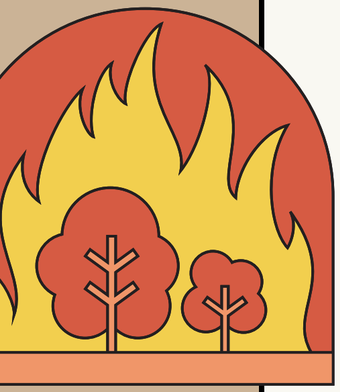
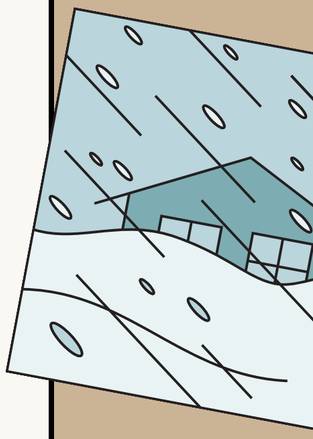
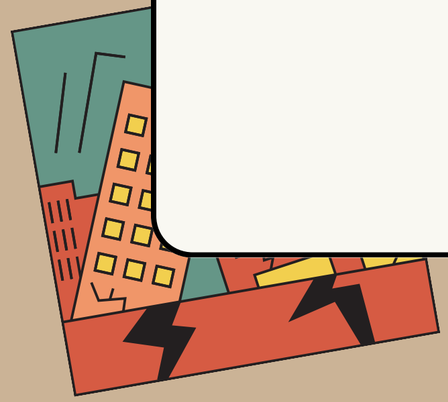


CALIFORNIA WILDFIRES

Gavin Bozan, Dominique Kelsey, Ivy Montero, Emily Wimmer & Georgina Young

Project 3 - Group 3

PURPOSE

Wildfires are becoming more prevalent causing larger than ever loss of land, wildlife & lives, leaving behind environmental and economic impact.

DATA & DATA CLEANING

- Created YearStarted column
- Created MonthStarted column
- Removal of year 1969

DATA LIMITATIONS

Limited Data Collected

- CrewsInvolved
- Dozers
- Engines
- Fuel Type
- Helicopters
- Injuries
- Personnel Involved
- StucturesDamaged/Destroyed/Evacuated/Threatened
- WaterTenders

Temporal Limitations

- Short year span (7 years)
- No recent data (ends Oct 2019)

HIGH LEVEL QUESTIONS

1. What year had the most wildfire incidents?
2. What month had the most wildfire incidents?
3. What year saw the most burn per acres?

BIAS

- 2019 ends in October
- Additional wildfire data must be >10 acres

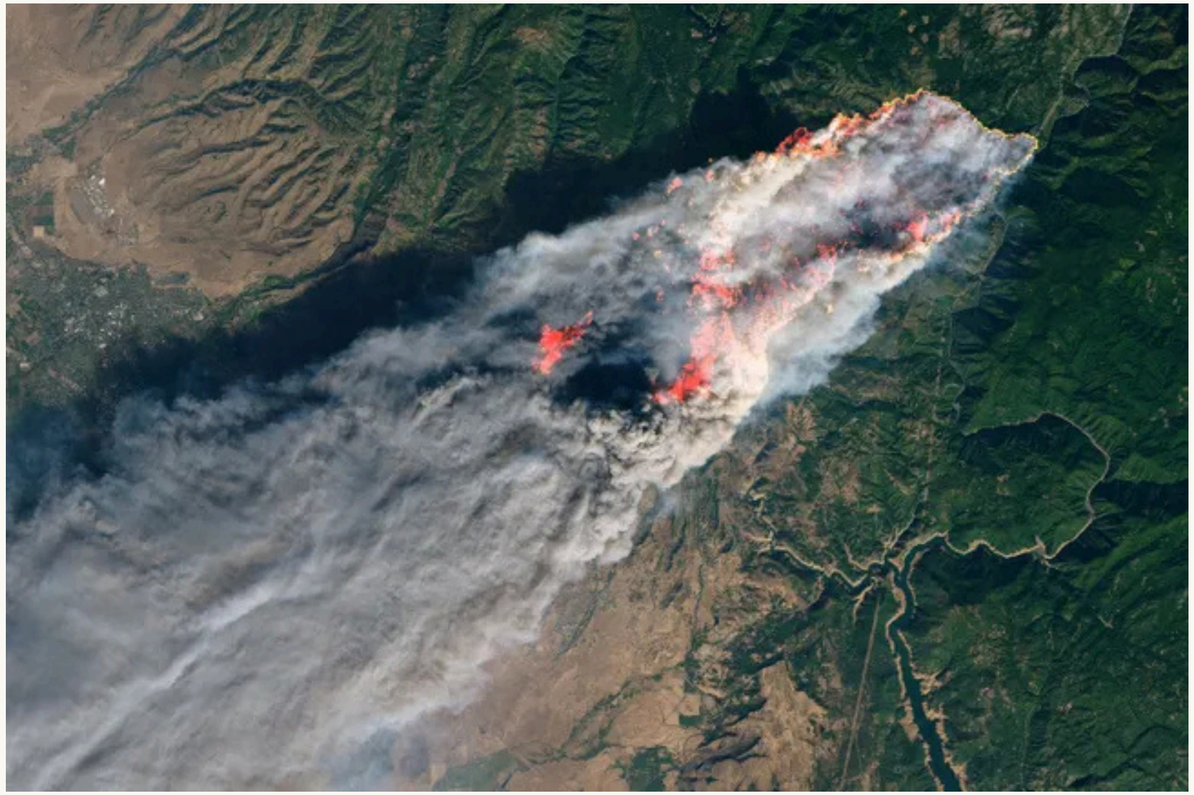
CONCLUSION

- California wildfires increased in 2017
- Wildfires peak in summer months (June-August)
- Greatest Number of acres burned was in 2018
- 2019 had less incidents than 2018 due to funding and more equipment to handle wildfires

FUTURE WORK

Continue EDA

- duration of fires
- parse limited data
- continue with new data



2018 fire image using Landsat satellite powered by NASA & USGS

QUESTIONS