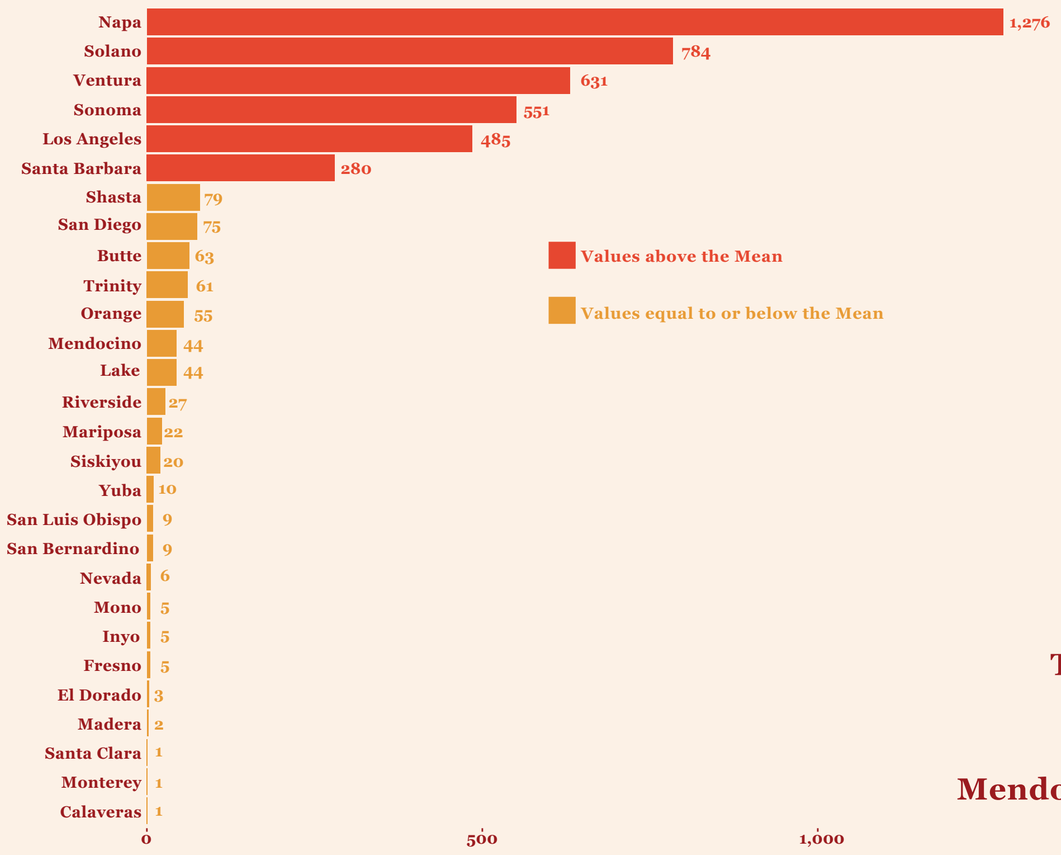
Jazmin Logroño

Wildfire Danger Zones in California

Regardless of the number of historical wildfire incidents, people continue to move to California and buy real estate in California. The analysis aims to identify wildfire danger zones, specifically in Counties of California. The intended audience is homebuyers in California. Before purchasing a home, homebuyers are interested in understanding high-risk wildfire Counties in California based on historical incidents.

California Counties with Structures Damaged By Wildfires, 2013–2019

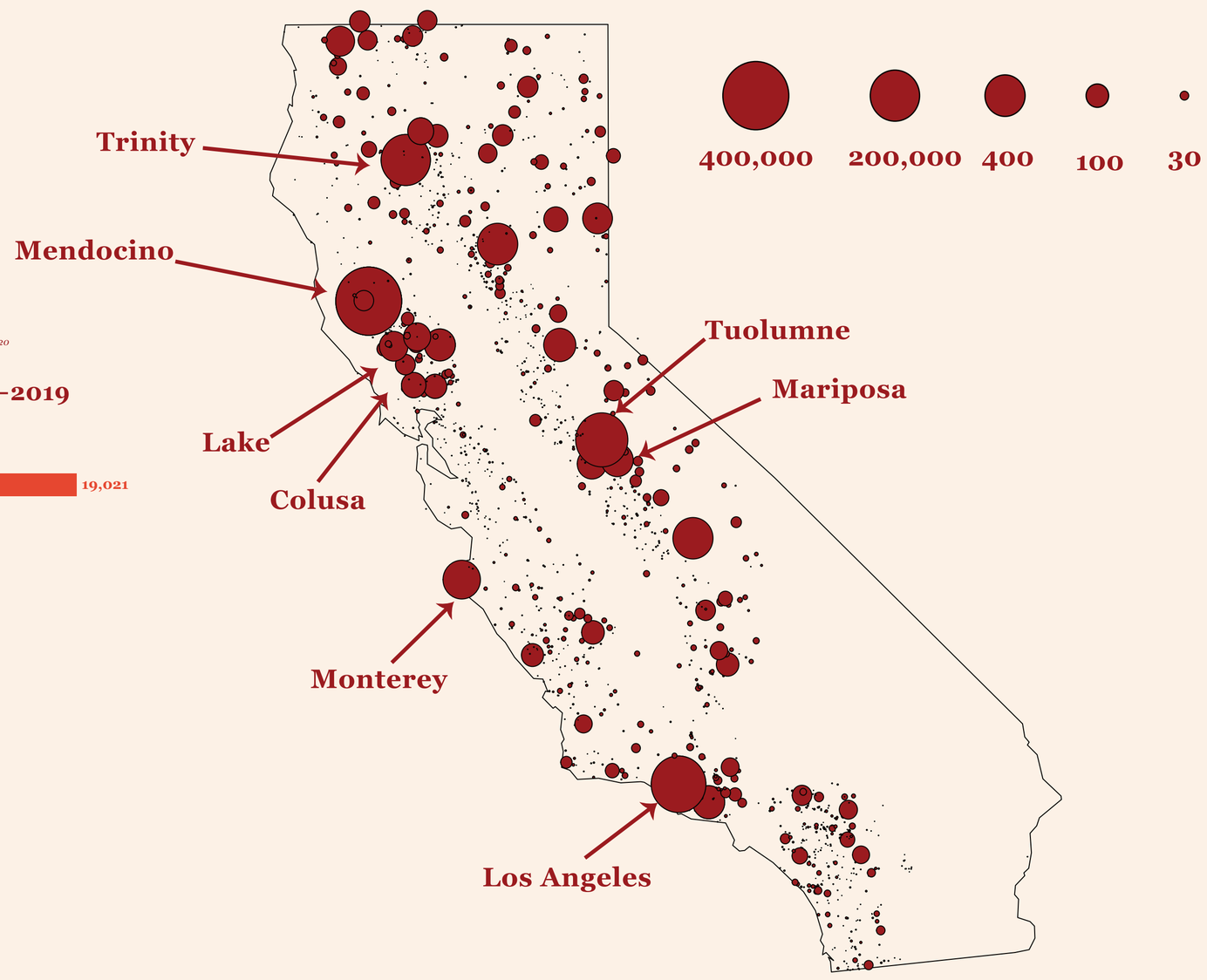
Counties with zero structures damaged by wildfires are not shown.



Source: https://www.kaggle.com/datasets/ananthu017/california-wildfire-incidents-20132020

Q: What are some high-risk Counties based on historical acres burned, structures damaged, and structures destroyed?

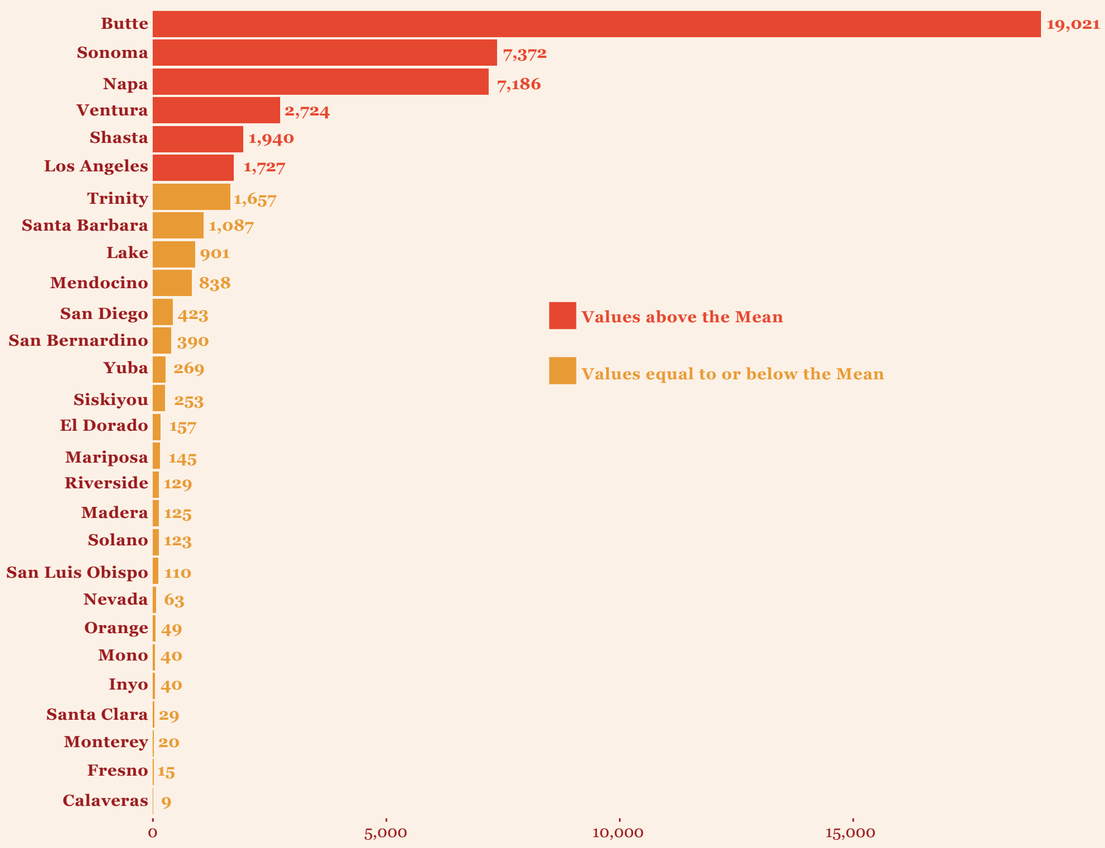
Counties with Acres Burned due to Wildfires



Source: https://www.kaggle.com/datasets/ananthu017/california-wildfire-incidents-20132020

California Counties with Structures Destroyed By Wildfires, 2013–2019

Counties with zero structures destroyed by wildfires are not shown.

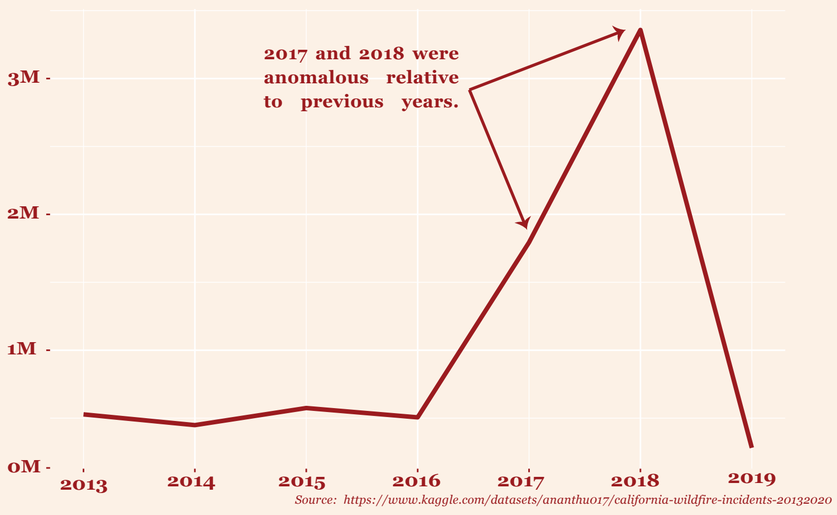


Source: https://www.kaggle.com/datasets/ananthu017/california-wildfire-incidents-20132020

Q: How many Acres burned on a yearly bases?

California Acres Burned by Wildfires, 2013–2019

Sum of Acres Burned on a Yearly basis.



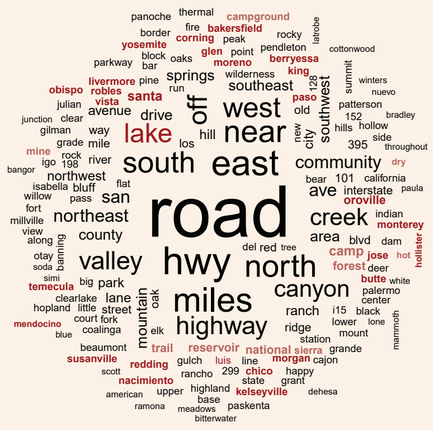
Source: https://www.kaggle.com/datasets/ananthu017/california-wildfire-incidents-20132020

Q: Which words are used to describe Wildfire locations?

Wildfire Locations Wordcloud

Words describing locations are in red.

Interesting words that may contribute to wildfire causes are in pink.



Source: https://www.kaggle.com/datasets/ananthu017/california-wildfire-incidents-20132020

About the Data

Kaggle is hosting the California Wildfire Incidents dataset collected by scraping the CAL Fire website (fire.ca.gov). The dataset consists of wildfire incidents and includes information about wildfire GPS coordinates, Counties, dates, acres burned, and other damage in the State of California from 2013-2019. The original data set consists of 1,636 observations and 40 variables.

R Packages used: ggplot2, tidyverse, wordcloud, maps, and quanteda.

Source: https://www.kaggle.com/datasets/ananthu017/california-wildfire-incidents-20132020