**The Flight from Rural Communities: How Wildfires are Impacting Real Estate in Northern California Cities**

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Have real estate values of cities near wildfire hotspots been significantly impacted local rural communities? Are Californians leaving small towns in favor of cities due to wildfires?

Our research will review datasets from Zillow and Compare them with a Kaggle data set on California Wildfires to capture price points of a select group of Northern California cities near wildfire hotspots. We will review the data sets of real estate values of median home prices leading up to fires within a radius of the selected cities. We will then review real estate value after a wildfire. We will determine significant fire sizes after reviewing the wildfire data.

1. A facet plot of focus cities over time showing median home values (showing multiple cities in one chart)
   1. Question 1 – Linear regression
   2. Question 2 – the correlation coeffect.
2. A line chart to show the home index value in rural communities
   1. Question 1 – How have the prices varied?
   2. Question 2 – are there any spikes in any particular year?
3. and compare it to a line chart showing the median home price of cities near wildfires in Northern California.
   1. Question 1 – How have the prices varied?
   2. Question 2 – are there any spikes in any particular year?
4. A wildfire heatmap
   1. Question 1 – where are the fires in relation to cities?
   2. Question 2 - What years did the fires happen?
5. Histogram of wildfire data
   1. Question 1 – Was there a peak of wildfires by size of wildfire for years or
   2. Question 2 – is it climbing?
6. A facet plot of focus cities with significant wildfire markers (showing multiple cities in one chart)
   1. Question 1 – how did wildfires affect prices?
   2. Question 2 – Which cities were affected the most?

Bonus: In addition to wildfires, how did:

1. Public Safety Power Shutoffs affect prices?
2. Increase in insurance premiums affect prices?