■ FINAL INTERPRETATION OF RESULTS

WILDFIRE AREA VS. DISTANCE TO NEAREST FIRE STATION - SAN DIEGO COUNTY (2017)

This analysis explored whether greater distance from fire stations correlates with larger wildfire perimeters, use the control of the control

■ KEY FINDINGS:

- A Pearson correlation coefficient (r) of 0.04 was calculated, with a p-value of 0.271.
- This indicates a very weak and statistically insignificant relationship between fire area and distance to the r
- In practical terms, fires farther from fire stations did not consistently burn larger areas in this 2017 dataset.

■ ADDITIONAL OBSERVATIONS:

- A majority of fire perimeters were within 500–1000 km projected distances from stations.
- The most extreme outliers (e.g., Thomas Fire) were labeled and suggest that other factors (e.g., wind, terra

■ IMPLICATIONS:

- Emergency response planning should not rely solely on geographic distance from stations as a predictor of
- Other spatial variables such as slope, fuel type, wind corridors, and time of ignition likely have more e
- Nonetheless, this workflow demonstrates a robust spatial analysis pipeline combining shapefiles, projection