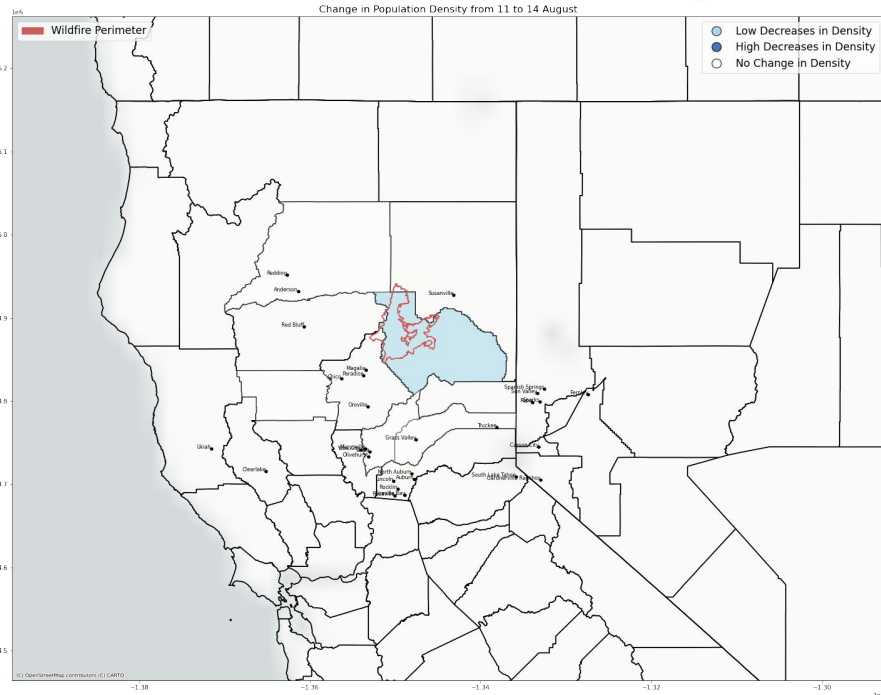


# Disaster Mobility Situation Report

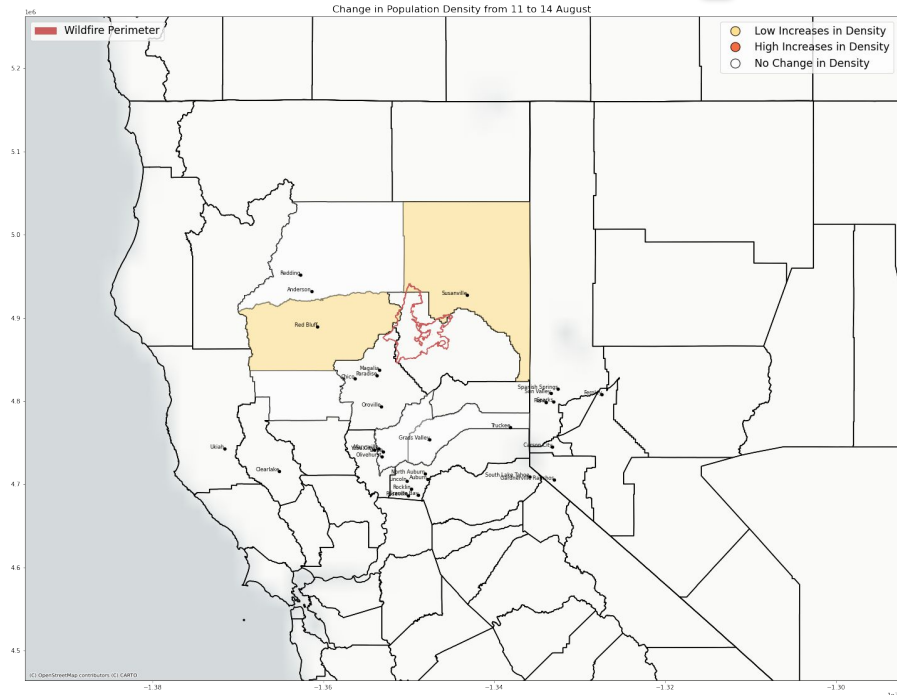
## Dixie Fire in Plumas (11 - 14th August, 2021)

**SUMMARY:** Dixie Fire, which began on July 13th, 2021, is currently the second largest wildfire in California's history. Data from 11th to 14th August suggests population density declines still happening primarily from Plumas County where the fire is currently located. Significant movements from Plumas have been reported towards Butte County. Lassen and Tehama are the only counties with increases in population density and most of these movements are primarily originating from within Tehama. This could be a result of the recent evacuations orders issued in Mill Creek, Mineral. Significant network outages have been reported for 6 days in a stretch around the fire perimeter. Based on our representativeness index, facebook data for Plumas, Butte and Lassen is proportionate to population estimates from the 2018 ACS survey

### Areas of Population Density Decrease



### Areas of Population Density Increase



**AREAS WITH GREATEST DECREASES  
IN POPULATION DENSITY (%)**



- Plumas (-16%)
- Shasta (-1%)
- Yuba (-4%)
- Nevada (-2%)
- Glenn (-0.2%)

**AREAS WITH GREATEST INCREASES  
IN POPULATION DENSITY (%)**



- Lassen (+5%)
- Tehama (+2%)

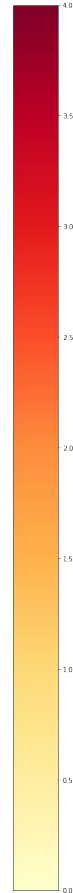
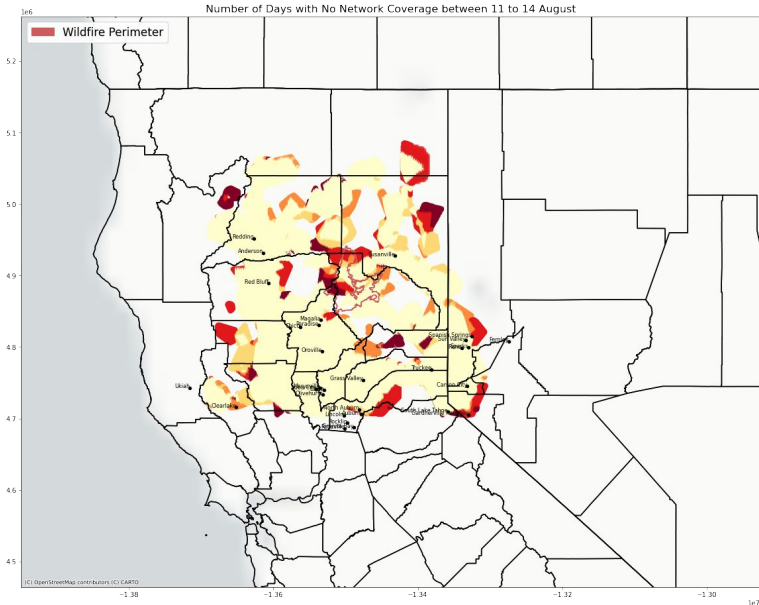
**ORIGINS (FROM AREAS WITH LARGEST DECREASES  
IN POPULATION DENSITY)**

From	To	Avg. Distance Traveled	Z-Score
Plumas	Butte	80.21	4.0

**DESTINATIONS (TO AREAS WITH LARGEST  
INCREASES IN POPULATION DENSITY)**

To	From	Avg. Distance Traveled	Z-Score
Glenn	Tehama	19.79	1.07
Lassen	Tehama	74.45	4.0
Lassen	Lassen	0.69	1.58
Tehama	Tehama	0.11	1.61

## NETWORK COVERAGE MAP



**LOCATIONS WITH HIGHEST PROPORTIONS OF NETWORK OUTAGES (%)**  
 (Calculated as a percentage of grid cell tiles which saw an outage on at least one day during the crisis time period.)

- Glenn (23%)
- Plumas (22%)
- Lassen (21%)
- Tehama (12%)
- Shasta (10%)

**LOCATIONS WITH HIGHEST PROPORTIONS OF NETWORK OUTAGES AND HIGH POPULATION DENSITY (COUNT)**

(Calculated as a count of Facebook users located in areas which saw as outage on at least one day during the crisis time period.)

- Shasta (11955)
- Tehama (4637)
- Glenn (1862)
- Lassen (1621)
- Plumas (1343)

## On the Data:

This report is produced using data from Facebook Data for Good. All metrics are calculated based on the aggregated locations of Facebook app users who have opted in to location services.

- Change in **population density** is calculated according to the change in the proportion of Facebook users relative to a baseline measure from 90 days prior to the onset of the crisis.
- Change in **movement between administrative units** is calculated according to the modal movement between units relative to a baseline measure from 90 days prior to the onset of the crisis.
- Change in **network coverage** is calculated according to the probability that Facebook users were able to connect to cellular data antennas located in the area of interest.