

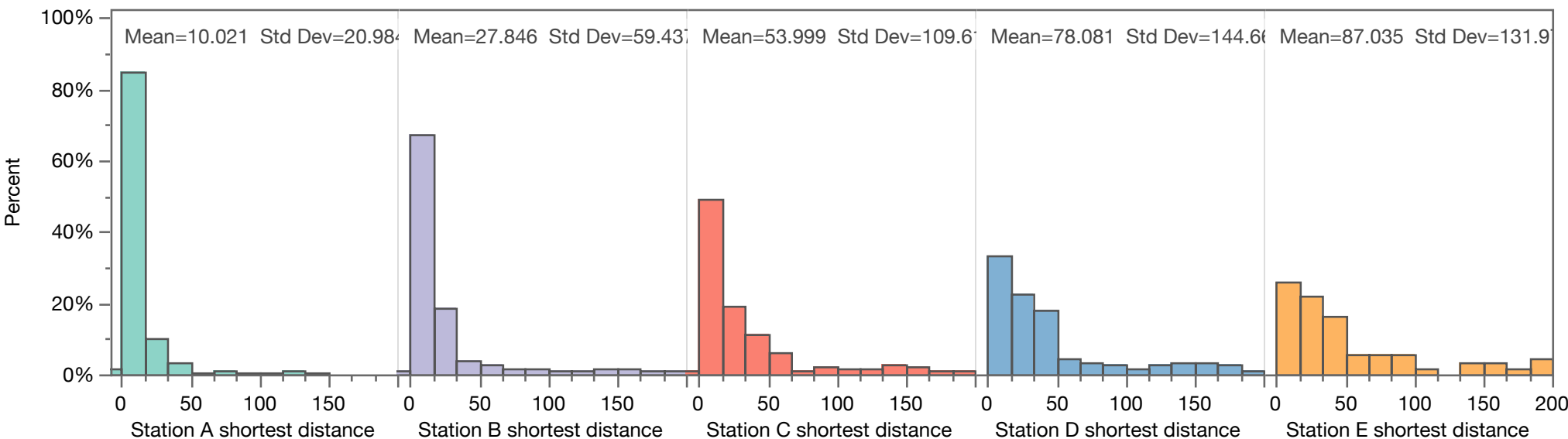
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Summary

This research investigates fuel cell electric (FCEV) drivers hydrogen station use using results from a 2017 survey of 395 FCEV owners and a 2018 survey of 328 FCEV owners. The results show FCEV drivers use on average 2.4 hydrogen stations. The average shortest distance FCEV owners would need to travel from home, work, or their commute to a hydrogen refuelling station was 10 miles. Those whose most-used station was not the closest station available were more likely than those whose most-used station was the closest to use renewable hydrogen, suggesting that some drivers may prefer renewable hydrogen.

Figure 1: Distances drivers travel from their home-work commute to the 5 hydrogen stations the use. Drivers primary station are a minimum of 10 miles away on average.



To understand station choice we investigate why some drivers travel further away than needed to refuel. We find drivers with more stations to choose from, who use a station with renewable H₂ are more likely to choose a further away station. Though this doesn't account for station reliability (figure 2).

	Relationship
Number of stations used	↑
Whether the station has renewable H ₂	↑
Whether drivers commute	↓

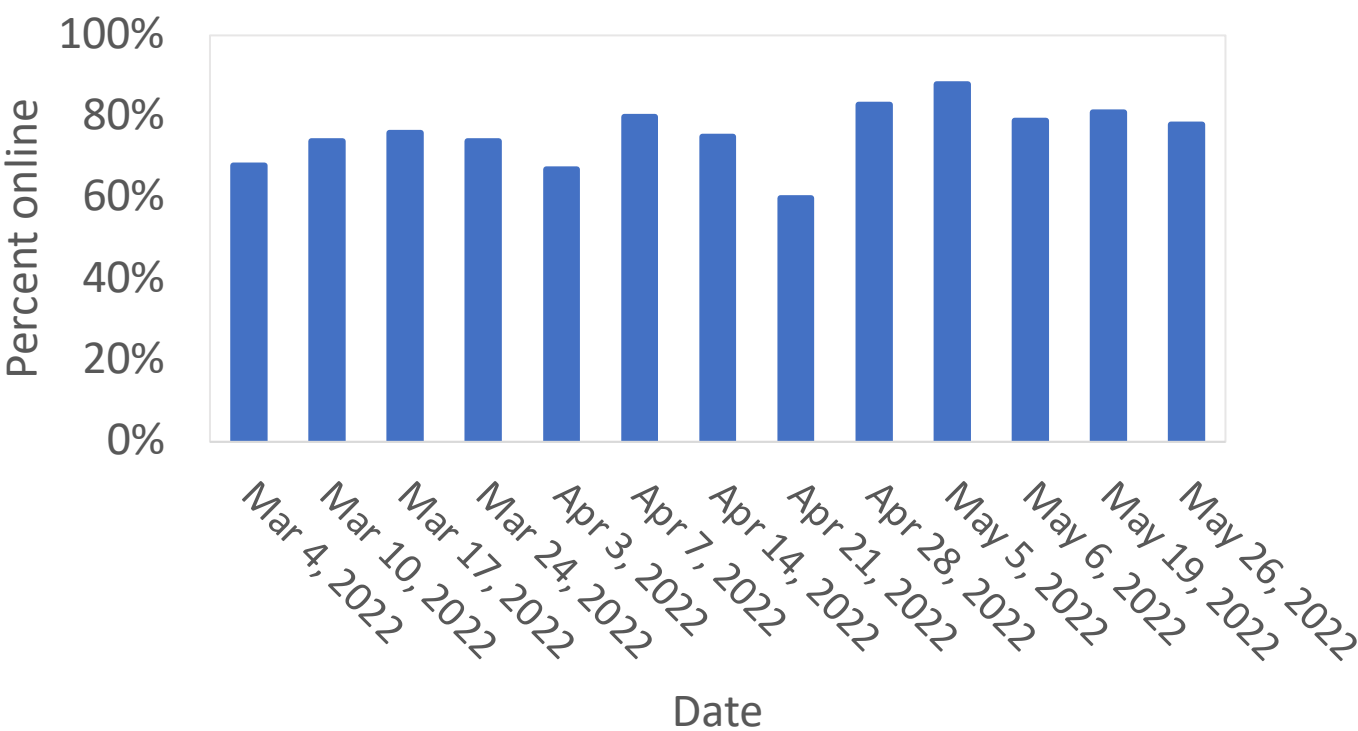


Figure 2: Percent of hydrogen stations indicated as being “online”.

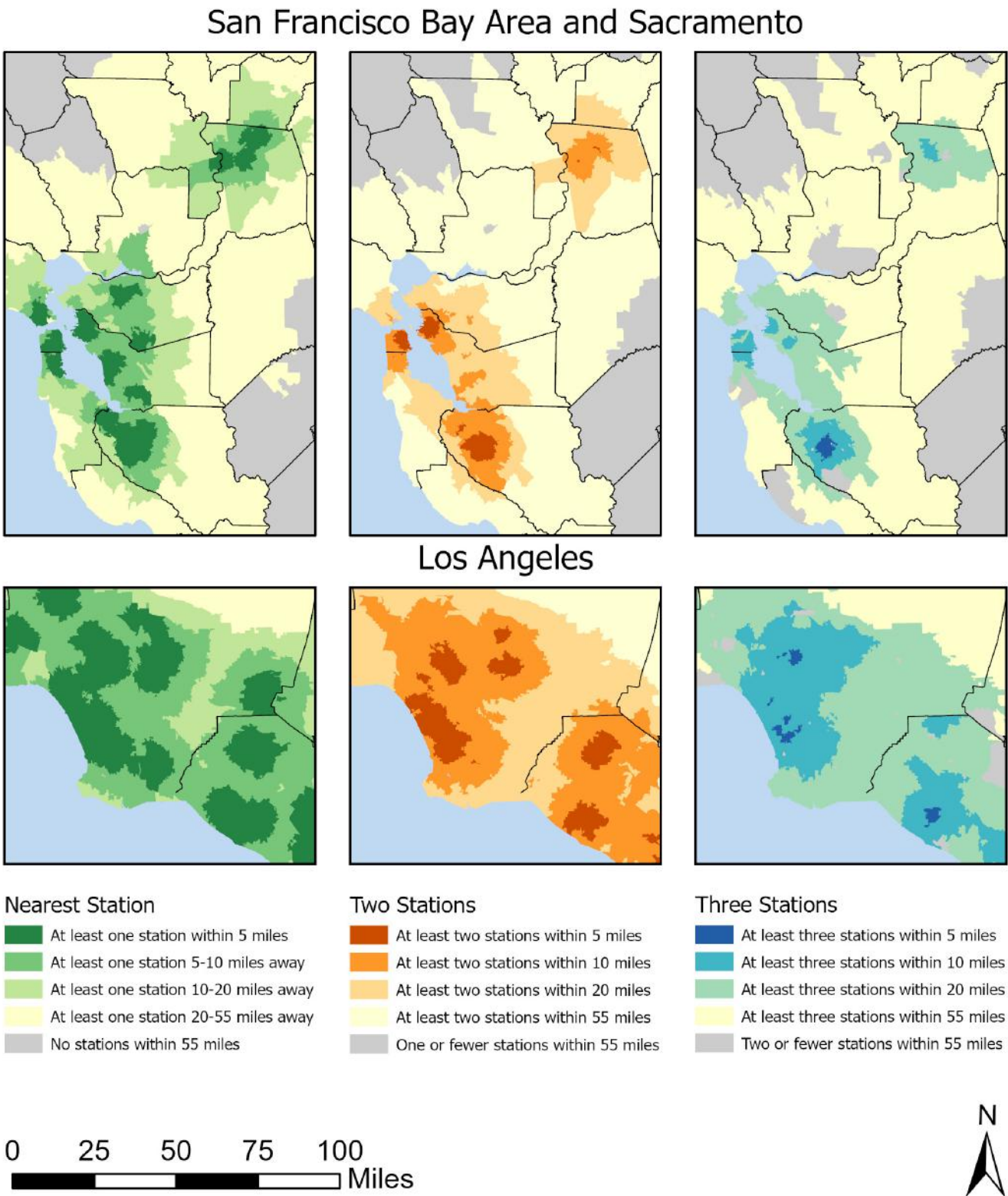


Figure 3: Road network distances to the nearest, second nearest, and third nearest hydrogen station on the census block group level in California in Los Angeles and the San Francisco Bay Area and Sacramento Area.