

VMT Factors Specific to California Senate Bill 743

Regional Models and Data

- Not all jurisdictions in California have travel demand models and those that do often have base years over five years old and are less relevant for producing current year VMT estimates. This is particularly important due to ongoing disruptive trends such as COVID-19 that continue to affect travel behavior that are not reflected in travel models.
- The full length of the trips in travel models may be truncated at the model boundary.
- Home or work locations that vary throughout the year are often excluded, focusing on permanent locations.

VMT+ Statewide Data

- The ability to reflect observed travel behavior for the specific context and trip starting/ending locations rather than aggregated to traffic analysis zones.
- Easily obtained and updated to reflect existing travel behavior. Fehr & Peers will be offering 2022 data for clients needing current baseline estimates or that would like the ability to track VMT performance over time for applications such as VMT mitigation monitoring.
- Full length of trip for all trips with at least one end in California but the sample rate (devices observed/person) varies by block group.
- Reflects typical daily activity for the data period, including seasonal homes or work locations (i.e., construction or agriculture).

Specific metrics include home-based VMT per resident and home-based work VMT per worker. These metrics are commonly used for VMT impact analysis to comply with the SB 743 changes to the CEQA Guidelines. Highlights of the VMT methods are shown, including the average VMT for



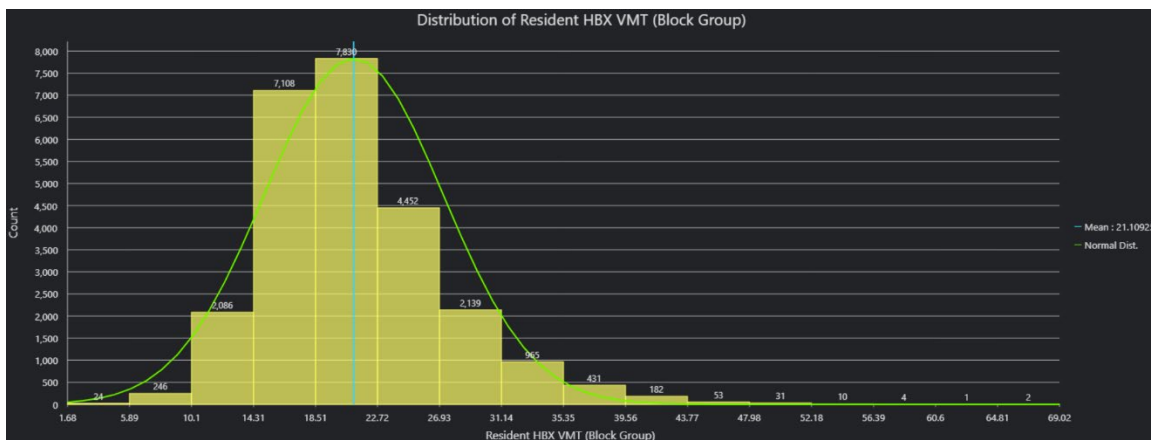
each metric. Full documentation for the specific methodology used to develop this data set are also available.

Home-Based VMT per resident (HBX)

- All home-based automobile vehicle trips are traced back to the residence of the trip-maker; non-home-based trips are excluded.
- Commercial vehicle trips are not included.
- Statewide Average of Resident HBX VMT: 21.1



Home-Based VMT per resident (HBX)



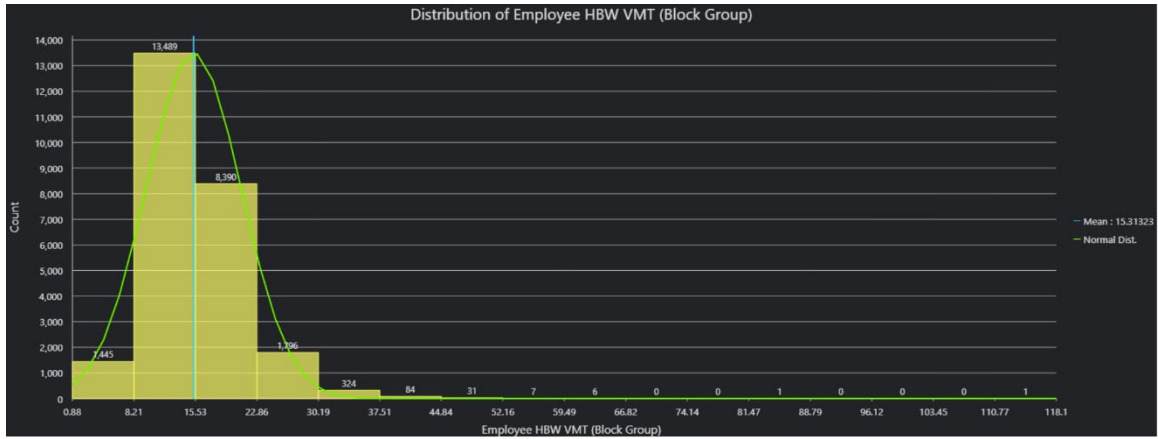
Histogram of all Census Block Groups in California Resident HBX VMT

Home-Based Work VMT per employee (HBW)

- All automobile trips directly between home and work are counted.
- Commercial vehicle trips are not included.
- Statewide Average of Employee HBW VMT: 15.3
- 15% below Statewide Average of Employee HBW VMT: 13.0



Home-Based VMT per employee (HBW)



Histogram of all Census Block Groups in California Employee HBW VMT