



Vehicle Miles Traveled and SB 743

Climate Action Subcommittee
July 28, 2020

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INTRODUCTION/PROCESS TO DATE

- 2015-Present Internal Collaboration with SCTA, TPW, PED and CAO
- 2019-Present Draft VMT Guidelines and Supporting Documents
- January 16, 2020 Bicycle and Pedestrian Advisory Board (BPAB) - Presentation
- January 29, 2020 Climate Action Subcommittee (CAS) - Presentation
- May 12, 2020 – VMT Training (PED, HCS CAO, SCTA, TPW and Consultant)
- June 5, 2020 – Final Draft VMT Guidelines
- June 12, 2020 – VMT webpage (soft launch) (<https://srcity.org/VMT>)
- June 15, 2020 – Update City Council memo
- July 1, 2020 – VMT required for CEQA per OPR
- October 1, 2020 – VMT Process Review (How's it working)

Vehicle Miles Traveled and Senate Bill 743

02

Senate Bill 743 - What is it?

- Changes how transportation impacts are considered in **California Environmental Quality Act (CEQA)**
- **Requires that LOS (congestion) is no longer used to estimate transportation impacts in CEQA**
- **Governor's Office of Planning and Research in charge of drafting guidelines**
- **VMT determined most appropriate metric for transportation**

What is Vehicle Miles Traveled (VMT)?

- Measures the amount of vehicular travel across the system, rather than at specific points, usually expressed per person
- Measure of total travel and activity not congestion
- Captures big picture or regional impacts of travel



VMT is not directly measured or observed

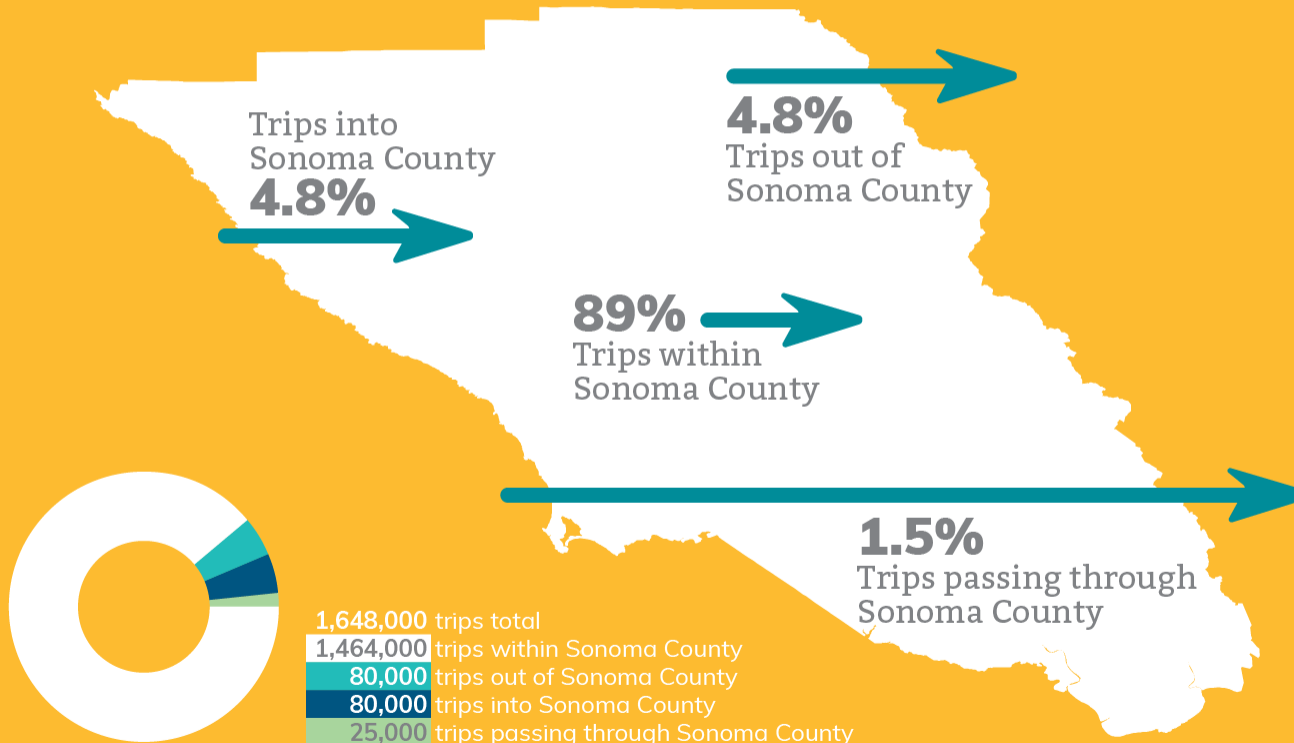
- Estimated from traffic counts, using [traffic models](#), or other derived data sources and methods

- **VMT is not directly measured or observed**
- Estimated from traffic counts, using **traffic models**, or other derived data sources
- Highway Performance Monitoring System (HPMS) is a Caltrans VMT product
- Big Data (Mobile Source – Data Mining)
- Sketch/Spreadsheet tools use constants to estimate VMT

- VMT can be calculated for different trip types
 - Home based work or **commute** trips
 - Home based other or all other **trips starting and ending at home**
 - Non-home based or trips starting and ending at a non-home location (chained trips, lunch to/from work, etc.)
- Different types of VMT may be required for different project types
 - Residential Projects – All home based trips
 - Office Projects – home based work or **commute** trips only
 - Retail – total VMT

Trip Types

Average Weekday in Spring 2017

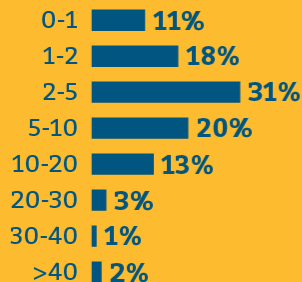


Trip Length Distribution

By jurisdiction, in Miles



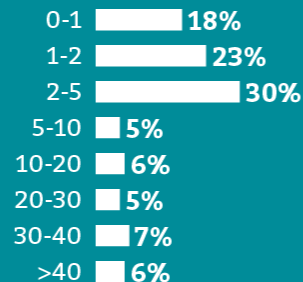
Sonoma County



60% of
trips
less than
5 miles

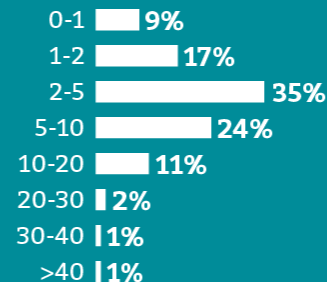
Cloverdale

average trip length 8.7



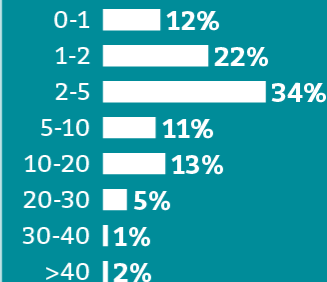
Santa Rosa

average trip length 5.4



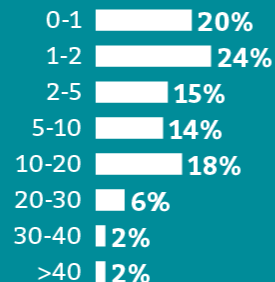
Petaluma

average trip length 6.7



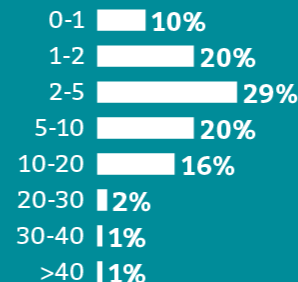
Healdsburg

average trip length 8.1



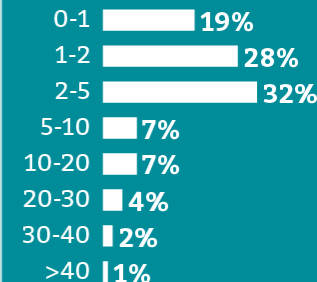
Rohnert Park

average trip length 6.9



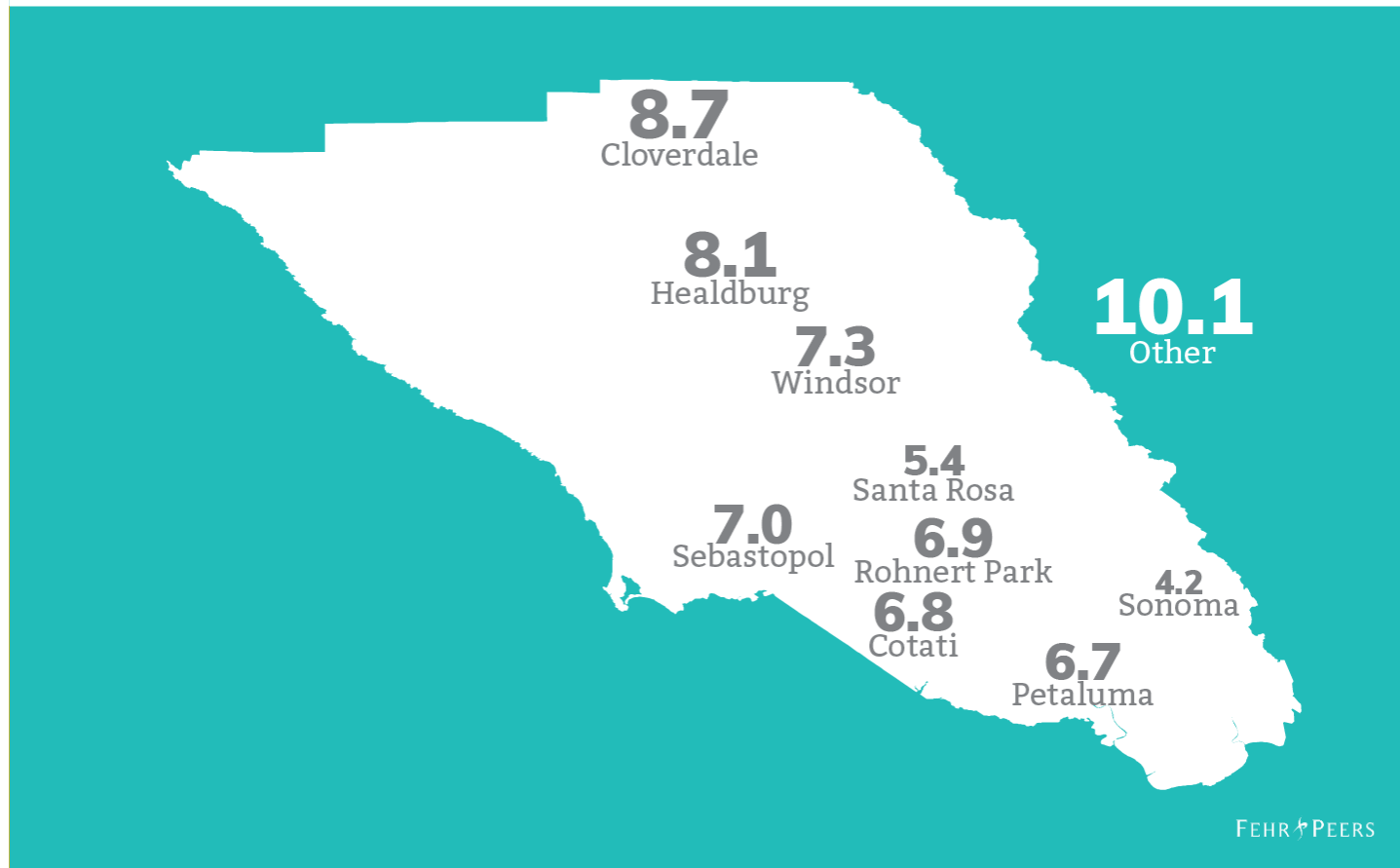
Sonoma

average trip length 4.2



Average Trip Length

By Jurisdiction, in Miles



- [VMT Screening Maps](#) – high and low VMT areas
- VMT Data and Estimates
- White paper on SB 743 Implementation
- VMT Implementation Workshop
- Travel Behavior Study is another source for VMT estimates, origin and destination data, information on average trip lengths, etc.
- Project level VMT analysis

LAND USE PROJECTS

- Residential –
 - Caritas, Burbank Ave Subdivision, Journey's End, Creekside Townhomes, Middle Rincon Crossings, Elnoka, One Calistoga
- Office –
 - Kaiser MOB, VA Clinic
- Retail –
 - In 'n Out

Potential Measures to Reduce VMT

- Incorporate affordable housing
- Incorporate neighborhood electric vehicle program
- Increase access to common goods and services, such as groceries, schools, etc.
- Improve pedestrian or bicycle networks, or transit service
- Provide bicycle parking
- Provide traffic calming
- Limit or eliminate parking
- Unbundle parking costs
- Provide car sharing, bike sharing, and ride-sharing programs
- Provide on-site amenities at places of work, such as showers, locker rooms etc.

Additional Resources

- <https://srcity.org/vmt>

Questions

THANK YOU!