District 12 Mobility Performance Report

2023 3rd Quarter

DEPARTMENT OF TRANSPORTATION

October 31, 2023 District 12 Traffic Operations Northwest

DISTRICT 12

2023 3rd Quarter

EXECUTIVE SUMMARY

Overview

Caltrans District 12 (Orange County) is located in southern California and is adjacent to District 7 (Los Angeles), District 8 (San Bernardino), and District 11 (San Diego). As of April 1, 2020, the total population in Orange County was 3,010,232. Orange County encompasses 794 square miles, and includes 34 cities, and 17 State highway routes. The county has 1,059 lane miles of general purpose lanes and 226 lane miles of High-Occupancy Vehicle (HOV) lanes, which is one of California's largest HOV lane networks. Orange County is the third most populous county in California, the sixth-most populous in the United States, and more populous than twenty-one U.S. states. Its county seat is Santa Ana. It is the second most densely populated county in the state.

The Mobility Performance quarterly analysis compares information from the most recent quarter and the previous 4 quarters, involving the following performance measures:

- Vehicle Miles of Travel (VMT)
- Vehicle Hours of Delay (VHD)
- Lost Lane Miles (LLM)
- o Detector Health

This information is based on data collected every day of the quarter, twenty-four hours a day, by automated vehicle detector stations deployed on urban-area freeways where congestion is regularly experienced. The Mobility Performance Report uses congestion at two speed thresholds: delay from vehicles traveling below 35 MPH and delay from vehicles traveling

below 60 MPH. The 35 MPH limit represents severe congestion while the 60 MPH limit represents light and heavy congestion. These thresholds/limits are set by Caltrans and are based upon engineering experience and District input.

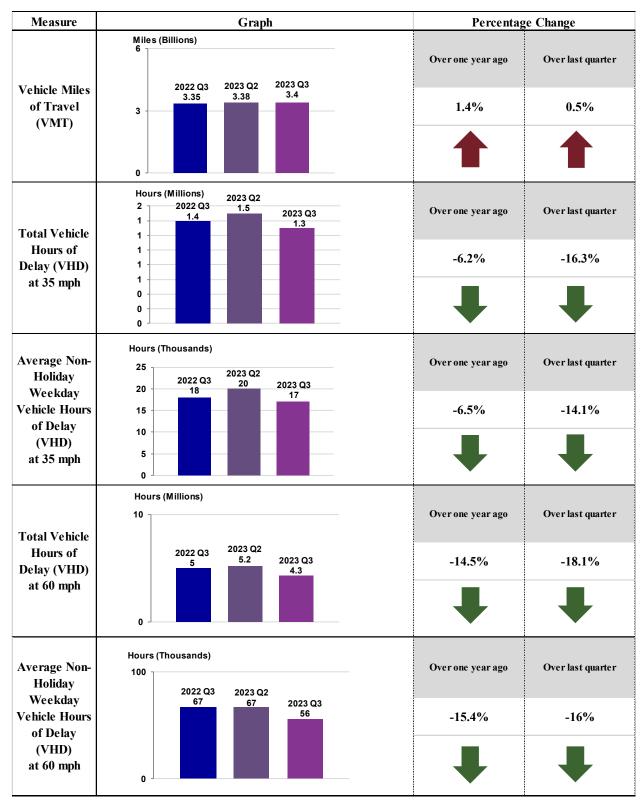
FINDINGS

In the 3rd quarter of 2023, total delay equaled to 1.3 million vehicle hours of delay (VHD) at the 35 MPH speed threshold and 4.3 million VHD at 60 MPH threshold. Compared to the previous quarter, there was a 16.3 percent decrease in 35 MPH VHD and 18.1 percent decrease in 60 MPH VHD.

The average weekday VHD experienced in this quarter was approximately 17 thousand VHD at 35 MPH and 56 thousand VHD at 60 MPH. Compared to the previous quarter, there was 14.1 percent decrease in 35 MPH VHD and 16 percent decrease in 60 mph VHD.

| | | | | | Abs | СА | | | # Davs | Avg Extent | Total Delay | Total Duration |
|-----|-------|------|-----|------------------|--------|--------|----------|-----------|-----------|---------------|----------------|-------------------|
| Co | Shift | Fwy | Dir | Name | PM | PM | Latitude | Longitude | - | | | (mins) |
| Ora | PM | 1405 | Ν | TMS 2417 NB | 20.81 | 21.039 | 33.77 | -118.05 | 62 | 3.22 | 113,134.20 | 13,165.00 |
| Ora | PM | SR57 | Ν | TONNER | 11.27 | 22 | 33.94 | -117.88 | 62 | 1.53 | 62,373.40 | 15,870.00 |
| Ora | PM | SR55 | Ν | TAFT | 15.78 | 15.8 | 33.82 | -117.83 | 61 | 3.05 | 35,995.70 | 12,285.00 |
| Ora | PM | SR91 | Е | GROVE | 26.23 | 7.86 | 33.85 | -117.85 | 58 | 1.99 | 31,131.40 | 10,665.00 |
| Ora | PM | SR55 | Ν | DYER 2 | 8.12 | R8.12 | 33.71 | -117.85 | 64 | 1.51 | 28,545.60 | 12,195.00 |
| Ora | PM | 15 | Ν | 4TH | 103.48 | 31.23 | 33.75 | -117.84 | 49 | 1.00 | 28,091.80 | 10,635.00 |
| Ora | PM | 1405 | Ν | BROOKHUR2 | 13.74 | 13.97 | 33.71 | -117.96 | 40 | 2.59 | 22,955.00 | 3,775.00 |
| Ora | PM | 1405 | Ν | LOCATION 5013 NB | 12.89 | 13.122 | 33.70 | -117.94 | 43 | 2.51 | 22,106.30 | 2,325.00 |
| Ora | PM | SR57 | Ν | TONNER | 11.27 | 22 | 33.94 | -117.88 | 62 | 1.10 | 18,382.00 | 15,565.00 |
| Ora | PM | 15 | S | RED ROBIN | 91.53 | 19.33 | 33.62 | -117.71 | 64 | 0.88 | 18,282.80 | 10,475.00 |

Top 10 Bottlenecks for the 3rd Quarter of 2023

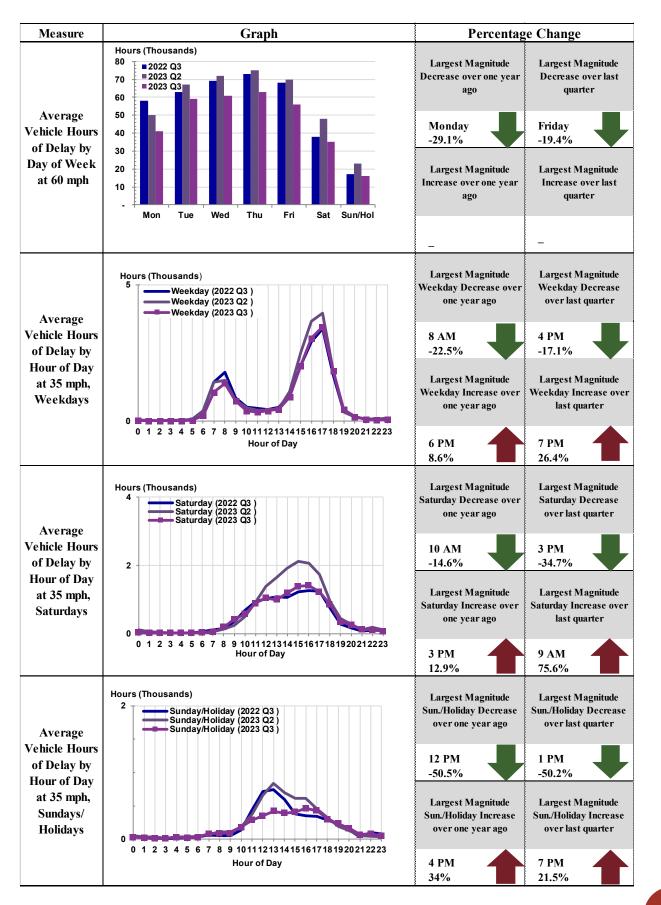


2023 Q3 Quarterly Mobility Statistics

Mobility Performance Report | 10/31/2023

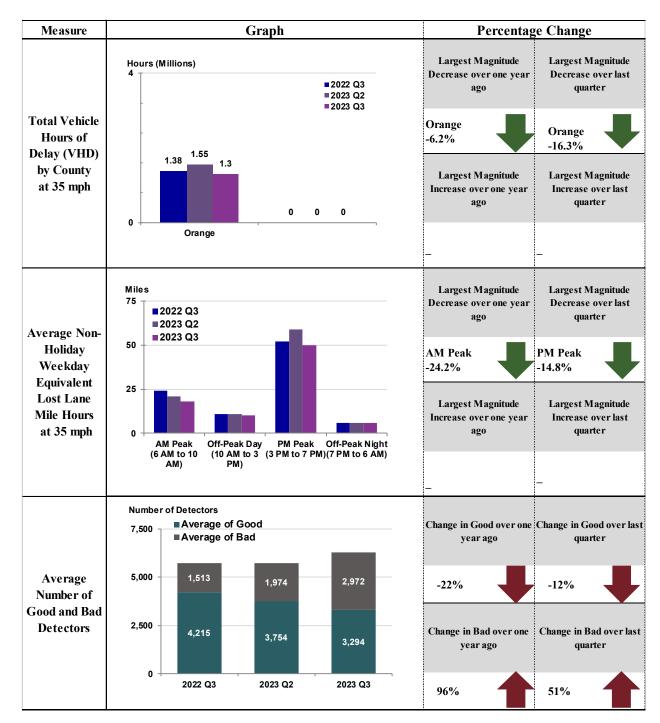
District 12

3



Mobility Performance Report | 10/31/2023

District 12



Mobility Performance Report | 10/31/2023

District 12

| Congestion by Route | | | | | | | | | | | |
|---------------------|--------|---------|-------------------------|-----------|----------|---------------------|----------|---------------------|---------|---------|---------|
| | | Vehicle | e Hours of at 35 mph | - | | erence 3-2022 Q3 | | erence 3-2023 Q2 | Rank | | |
| Route | County | 2022 Q3 | 2023 Q2 | 2023 Q3 | Absolute | Percentage | Absolute | Percentage | 2022 Q3 | 2023 Q2 | 2023 Q3 |
| I405 | Orange | 238,732 | 284,571 | 352,817 | 114,085 | 47.8% | 68,246 | 24.0% | 3 | 3 | 1 |
| 15 | Orange | 346,018 | 423,119 | 311,771 | -34,247 | -9.9% | -111,348 | -26.3% | 1 | 1 | 2 |
| SR55 | Orange | 204,207 | 240,421 | 226,201 | 21,994 | 10.8% | -14,220 | -5.9% | 4 | 4 | 3 |
| SR91 | Orange | 335,081 | 351,134 | 189,339 | -145,741 | -43.5% | -161,795 | -46.1% | 2 | 2 | 4 |
| SR57 | Orange | 177,928 | 170,352 | 147,799 | -30,129 | -16.9% | -22,554 | -13.2% | 5 | 5 | 5 |
| SR22 | Orange | 46,605 | 34,900 | 22,738 | -23,866 | -51.2% | -12,162 | -34.8% | 6 | 6 | 6 |
| I605 | Orange | 3,645 | 8,848 | 16,983 | 13,339 | 366.0% | 8,135 | 91.9% | 9 | 9 | 7 |
| SR241 | Orange | 13,629 | 23,092 | 16,088 | 2,459 | 18.0% | -7,004 | -30.3% | 7 | 7 | 8 |
| SR73 | Orange | 11,176 | 8,981 | 8,232 | -2,943 | -26.3% | -749 | -8.3% | 8 | 8 | 9 |
| SR133 | Orange | 3,604 | 283 | 2,842 | -762 | -21.1% | 2,559 | 904.6% | 10 | 11 | 10 |
| SR261 | Orange | 162 | 759 | 241 | 80 | 49.2% | -518 | -68.2% | 11 | 10 | 11 |
| SR74 | Orange | 5 | 5 | 5 | 0 | 0.0% | 0 | 0.0% | 13 | 12 | 12 |
| SR142 | Orange | 64 | 3 | 3 | -61 | -95.9% | 0 | 0.0% | 12 | 13 | 13 |
| SR1 | Orange | 0 | 0 | 0 | 0 | | 0 | | | | |
| тот | TOTALS | | 1,546,468 | 1,295,059 | -85,795 | -6.2% | -251,410 | -16.3% | | | |