# District 12 Mobility Performance Report 

2022 1 ${ }^{\text {st }}$ Quarter

District 12 Traffic Operations Northwest

## EXECUTIVE SUMMARY

## Overview

Caltrans District 12 (Orange County) is located in southern California and is neighbors with 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. The jurisdictional boundaries of Orange County encompass a metropolitan area of 794 square miles, including 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 sixthmost 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)
- 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 $1^{\text {st }}$ quarter of 2022, total delay equaled to 1.2 million vehicle hours of delay (VHD) at the 35 MPH speed threshold and 4.2 million VHD at 60 MPH threshold. Compared to the previous quarter, there was a 26.5 percent decrease in 35 MPH VHD and 19.0 percent decrease in 60 MPH VHD.

The average weekday VHD experienced in this quarter was approximately 16 thousand VHD at 35 MPH and 58 thousand VHD at 60 MPH . Compared to the previous quarter, there was 20.8 percent decrease in 35 MPH VHD and 12.9 percent decrease in 60 mph VHD.

Top 10 Bottlenecks for the $1^{\text {st }}$ Quarter of 2022

| Co | Shift | Fwy | Dir | Name | Abs <br> PM | CA <br> PM | Latitude | Longitude | ( <br> Days <br> Active | Avg <br> Extent <br> (Miles) | Total <br> Delay <br> (veh-hrs) | Total <br> Duration <br> (mins) |
| :---: | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Ora | PM | I405 | N | BROOKHUR1 | 13.51 | 13.74 | 33.70 | -117.95 | 59 | 3.06 | $84,464.3$ | 9,965 |
| Ora | AM | I405 | S | BROOKHURST2 | 13.58 | 13.81 | 33.71 | -117.95 | 58 | 4.10 | $62,156.1$ | 7,830 |
| Ora | PM | I5 | N | TUSTIN RANCH | 100.35 | 28.1 | 33.72 | -117.80 | 52 | 3.51 | $30,353.3$ | 10,905 |
| Ora | PM | SR91 | E | W OF SCALES | 31.72 | R13.349 | 33.87 | -117.76 | 46 | 3.58 | $26,636.0$ | 7,485 |
| Ora | AM | I5 | S | MAIN 1 | 105.19 | 33 | 33.77 | -117.87 | 61 | 0.62 | $24,357.4$ | 9,625 |
| Ora | PM | SR91 | E | LAKEVIEW1 | 28.45 | R10.08 | 33.85 | -117.81 | 53 | 2.76 | $23,825.7$ | 8,445 |
| Ora | PM | I405 | N | LOCATION 5013 NB | 12.89 | 13.122 | 33.70 | -117.94 | 52 | 1.82 | $21,517.9$ | 2,705 |
| Ora | PM | SR55 | N | TAFT | 15.78 | 15.8 | 33.82 | -117.83 | 46 | 2.97 | $20,016.5$ | 8,490 |
| Ora | AM | SR57 | S | NUTWOOD | 6.76 | 17.41 | 33.88 | -117.88 | 56 | 2.05 | $18,289.4$ | 7,615 |
| Ora | PM | I5 | S | RED ROBIN | 91.53 | 19.33 | 33.62 | -117.71 | 62 | 0.72 | $17,443.4$ | 12,290 |

2022 Q1 Quarterly Mobility Statistics




| Congestion by Route |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Route | County | Vehicle Hours of Delay at 35 mph |  |  | $\begin{gathered} \text { Difference } \\ 2022 \text { Q1-2021 Q1 } \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Difference } \\ 2022 \text { Q1-2021 Q4 } \\ \hline \end{gathered}$ |  | Rank |  |  |
|  |  | 2021 Q1 | 2021 Q4 | 2022 Q1 | Absolute | Percentage | Absolute | Percentage | 2021 Q1 | 2021 Q4 | 2022 Q1 |
| I5 | Orange | 229,130 | 527,388 | 384,020 | 154,890 | 67.6\% | -143,368 | -27.2\% | 1 | 1 | 1 |
| SR91 | Orange | 219,653 | 313,466 | 217,771 | -1,882 | -0.9\% | -95,694 | -30.5\% | 2 | 2 | 2 |
| I405 | Orange | 98,267 | 273,842 | 202,954 | 104,687 | 106.5\% | -70,889 | -25.9\% | 3 | 3 | 3 |
| SR55 | Orange | 38,849 | 152,379 | 128,411 | 89,562 | 230.5\% | -23,968 | -15.7\% | 5 | 4 | 4 |
| SR57 | Orange | 71,223 | 150,920 | 111,983 | 40,761 | 57.2\% | -38,937 | -25.8\% | 4 | 5 | 5 |
| SR22 | Orange | 33,698 | 97,765 | 87,896 | 54,197 | 160.8\% | -9,869 | -10.1\% | 6 | 6 | 6 |
| SR73 | Orange | 20,302 | 32,775 | 14,763 | -5,539 | -27.3\% | -18,012 | -55.0\% | 7 | 7 | 7 |
| SR241 | Orange | 7,213 | 26,683 | 14,040 | 6,827 | 94.7\% | -12,643 | -47.4\% | 8 | 8 | 8 |
| I605 | Orange | 3,057 | 6,723 | 3,753 | 696 | 22.8\% | -2,969 | -44.2\% | 9 | 9 | 9 |
| SR142 | Orange | 989 | 861 | 1,063 | 75 | 7.6\% | 202 | 23.5\% | 11 | 12 | 10 |
| SR133 | Orange | 3,031 | 4,239 | 795 | -2,236 | -73.8\% | -3,444 | -81.2\% | 10 | 10 | 11 |
| SR74 | Orange | 629 | 2,124 | 457 | -172 | -27.3\% | -1,667 | -78.5\% | 12 | 11 | 12 |
| SR261 | Orange | 63 | 732 | 51 | -12 | -19.0\% | -681 | -93.0\% | 13 | 13 | 13 |
| SR1 | Orange | 3 | 0 | 0 | -3 | -100.0\% | 0 |  | 14 |  |  |
| TOTALS |  | 726,106 | 1,589,897 | 1,167,957 | 441,852 | 60.9\% | -421,940 | -26.5\% |  |  |  |

