# District 11 Mobility Performance Report 

2021 First Quarter

April 28, 2021
District 11- Traffic System Performance

## EXECUTIVE SUMMARY

## Overview

Caltrans District 11 consists of both the Imperial and San Diego counties, with San Diego having a population of approximately $3,338,330$ residents and Imperial County with approximately 181,215 residents. Although, District 11 is composed of these two counties, Imperial County does not report any performance data due to less population. The Mobility Performance quarterly analysis compares traffic information with the information collected in the same quarter over a year ago. In addition, it compares traffic information with its preceding quarter. The following parameters are used to show the performance measures of the area freeways:

- Vehicle Miles of Travel (VMT))
- Vehicle Hours of Delay (VHD), Bottleneck Locations
- Lost Lane Miles (equivalent lost productivity)
- 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 MPR presents congestion information at two speed thresholds: delay from vehicles traveling below 35 miles per hour (mph), and delay from vehicles traveling below 60 mph . The delay at the 35 mph threshold represents severe congestion while delay at

60 mph represents total congestion. These thresholds are set by Caltrans and are based upon engineering experience and District input.

## FINDINGS

In the first quarter of 2021 , the total delay equaled 0.8 million VHD at the 35 mph speed threshold, and 2.3 million VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 10 thousand VHD at 35 mph , and 32 thousand VHD at 60 mph .

Top Ten Bottlenecks for the 2021 First Quarter:

| County | Shift | Fwy | Direction | Name | Abs PM | CA PM | Latitude | Longitude | \# Days Active | Avg Extent (Miles) | Total Delay (veh-hrs) | Total Duration (mins) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| San Diego | PM | 115-N | N | 15 NB N-O Mission Rd | 52.35 | 52.09 | 33.41 | -117.16 | 34 | 4.61 | 38,889.50 | 4,575.00 |
| San Diego | PM | SR125-S | S | GROSSMONT BLVD | 17.42 | 15.015 | 32.76 | -117.01 | 58 | 1.40 | 30,833.10 | 7,705.00 |
| San Diego | PM | 15-S | S | N-O CMNO DE LA PLAZA | 0.22 | . 311 | 32.54 | -117.03 | 40 | 0.73 | 30,097.60 | 8,050.00 |
| San Diego | PM | SR78-E | E | Twin Oaks Valley Rd | 13.02 | 13.022 | 33.14 | -117.16 | 51 | 3.42 | 27,090.40 | 4,615.00 |
| San Diego | PM | SR125-N | N | 125 NB CONNECTOR | 16.97 | 15.216 | 32.77 | -117.00 | 52 | 2.60 | 26,514.10 | 4,705.00 |
| San Diego | PM | 1805-S | S | 805 SB N-O 15 | 15.17 | 15.321 | 32.74 | -117.12 | 49 | 2.14 | 23,912.10 | 3,565.00 |
| San Diego | PM | 15-N | N | Del Mar Heights Rd | 34.03 | 34.142 | 32.95 | -117.24 | 53 | 0.71 | 21,585.30 | 10,640.00 |
| San Diego | PM | SR78-E | E | Barham Dr | 14.86 | 14.86 | 33.14 | -117.13 | 29 | 4.76 | 21,089.70 | 2,415.00 |
| San Diego | PM | 1805-S | S | 805 SB @ 15 | 14.70 | 14.852 | 32.73 | -117.11 | 34 | 3.71 | 21,049.70 | 2,435.00 |
| San Diego | PM | 15-N | N | Cannon Rd | 48.00 | 48.104 | 33.14 | -117.33 | 21 | 4.85 | 20,872.40 | 1,835.00 |



| Measure | Graph | Percentage Change |  |
| :---: | :---: | :---: | :---: |
| Average <br> Vehicle Hours of Delay by Day of Week at 60 mph |  | Largest Magnitude <br> Decrease over one year ago <br> Tuesday -71.5\% <br> Largest Magnitude Increase over one year ago <br> Sun/Hol <br> 4.4\% | Largest Magnitude <br> Decrease over last quarter <br> _ <br> Largest Magnitude <br> Increase over last quarter <br> Thursday 31.3\% |
| Average Vehicle Hours of Delay by Hour of Day at 35 mph , Weekdays |  | Largest Magnitude <br> Weekday Decrease <br> over one year ago <br>  <br> 5 PM <br> $-73.1 \%$ <br>  <br> Largest Magnitude <br> Weekday Increase <br> over one year ago <br> 2 AM <br> $40.4 \%$ | Largest Magnitude Weekday Decrease over last quarter <br> 10 PM $-53.6 \%$ <br> Largest Magnitude Weekday Increase over last quarter |
| Average Vehicle Hours of Delay by Hour of Day at 35 mph , Saturdays |  | Largest Magnitude <br> Saturday Decrease <br> over one year ago <br> 11 AM <br> $-57.2 \%$ <br>  <br> Largest Magnitude <br> Saturday Increase <br> over one year ago <br> 8 PM <br> $124 \%$ | Largest Magnitude Saturday Decrease over last quarter <br> 8 AM $-28.4 \%$ <br> Largest Magnitude Saturday Increase over last quarter |
| Average Vehicle Hours of Delay by Hour of Day at 35 mph , Sundays/ Holidays |  | Largest Magnitude Sun./Holiday <br> Decrease over one year ago <br> 11 AM <br> -15.6\% <br> Largest Magnitude Sun./Holiday <br> Increase over one year ago |  |


| Meas ure | Graph | Percentage Change |
| :---: | :---: | :---: |
| Total Vehicle <br> Hours of <br> Delay (VHD) <br> by County <br> at 35 mph |  |  |
| Average Non- <br> Holiday <br> Weekday <br> Equivalent <br> Lost Lane <br> Mile Hours <br> at 35 mph |  | $\left.\begin{array}{\|c\|c\|}\hline \begin{array}{c}\text { Largest Magnitude } \\ \text { Decrease over one } \\ \text { year ago }\end{array} & \begin{array}{c}\text { Largest Magnitude } \\ \text { Decrease over last } \\ \text { quarter }\end{array} \\ \text { PM Peak } & \\ -63.5 \%\end{array} \quad \begin{array}{c}\text { Largest Magnitude } \\ \text { Increase over one } \\ \text { year ago }\end{array} \quad \begin{array}{c}\text { Largest Magnitude } \\ \text { Increase over last } \\ \text { quarter }\end{array}\right\}$ |
| Average <br> Number of Good and Bad Detectors | Number of Detectors | Change in Good <br> over one year ago Change in Good <br> over last quarter <br> $-9 \%$ Change in Bad over <br> one year ago <br> last quarter <br> $8 \%$  |


| Congestion by Route |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Vehicle Hours of Delay at 35 mph |  |  | $\begin{gathered} \text { Difference } \\ 2021 \text { Q1-2020 Q1 } \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Difference } \\ 2021 \text { Q1-2020 Q4 } \\ \hline \end{gathered}$ |  | Rank |  |  |
| Route | County | 2020 Q1 | 2020 Q4 | 2021 Q1 | Absolute | Percentage | Absolute | Percentage | 2020 Q1 | 2020 Q4 | 2021 Q1 |
| I5 | San Diego | 801,507 | 171,478 | 281,343 | -520,164 | -64.9\% | 109,865 | 64.1\% | 1 | 1 | 1 |
| I15 | San Diego | 533,607 | 136,936 | 152,202 | -381,406 | -71.5\% | 15,266 | 11.1\% | 3 | 2 | 2 |
| SR78 | San Diego | 189,365 | 93,635 | 94,678 | -94,687 | -50.0\% | 1,043 | 1.1\% | 4 | 3 | 3 |
| 1805 | San Diego | 542,661 | 53,382 | 72,011 | -470,650 | -86.7\% | 18,630 | 34.9\% | 2 | 5 | 4 |
| SR125 | San Diego | 174,531 | 74,499 | 70,409 | -104,122 | -59.7\% | -4,090 | -5.5\% | 5 | 4 | 5 |
| SR163 | San Diego | 81,877 | 20,151 | 30,560 | -51,317 | -62.7\% | 10,409 | 51.7\% | 7 | 6 | 6 |
| I8 | San Diego | 144,116 | 20,141 | 17,117 | -126,999 | -88.1\% | -3,024 | -15.0\% | 6 | 7 | 7 |
| 1905 | San Diego | 6,298 | 11,646 | 15,893 | 9,595 | 152.3\% | 4,247 | 36.5\% | 11 | 8 | 8 |
| SR52 | San Diego | 73,306 | 4,127 | 10,467 | -62,839 | -85.7\% | 6,340 | 153.6\% | 8 | 9 | 9 |
| SR56 | San Diego | 63,724 | 1,570 | 10,278 | -53,446 | -83.9\% | 8,708 | 554.8\% | 9 | 13 | 10 |
| SR76 | San Diego | 3,741 | 3,379 | 4,511 | 770 | 20.6\% | 1,132 | 33.5\% | 12 | 11 | 11 |
| SR94 | San Diego | 63,380 | 2,887 | 4,472 | -58,908 | -92.9\% | 1,585 | 54.9\% | 10 | 12 | 12 |
| SR54 | San Diego | 1,711 | 4,026 | 997 | -715 | -41.8\% | -3,029 | -75.2\% | 13 | 10 | 13 |
| SR67 | San Diego | 746 | 429 | 200 | -545 | -73.2\% | -229 | -53.4\% | 14 | 14 | 14 |
| SR11 | San Diego | 51 | 0 | 5 | -46 | -90.2\% | 5 | 4900.0\% | 15 | 15 | 15 |
| TOTALS |  | 2,680,619 | 598,286 | 765,141 | -1,915,478 | -71.5\% | 166,855 | 27.9\% |  |  |  |

