# District 05 <br> Mobility Performance Report 

2020 Second Quarter

July 8, 2020
: Nicholas Zangl

## 2020 Second Quarter

## EXECUTIVE SUMMARY

## Overview

Caltrans District 5 contains five counties located along the central coast of California: Santa Barbara, San Luis Obispo, Monterey, Santa Cruz and San Benito Counties. All counties are in urban settings within city limits and rural settings outside city limits. Santa Cruz and Santa Barbara are the top two most congested counties in the $2^{\text {nd }}$ quarter.

The Mobility Performance quarterly analysis compares information with over a year ago and over last quarter in the following performance measures:

- 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 all congestion, both light and heavy. These thresholds are set by Caltrans and are based upon engineering experience and District input.

## FINDINGS

In the second quarter, total delay equaled 119,400 vehicle hours of delay (VHD) at the 35 mph speed threshold, and $247,300 \mathrm{VHD}$ at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately $1,482 \mathrm{VHD}$ at 35 mph , and $3,000 \mathrm{VHD}$ at 60 mph .

## Top Ten Bottlenecks for Quarter 2

| County | Fwy | Location | Type | Shift | Abs PM | CA PM | \# <br> Days <br> Active | Avg Extent (Miles) | Total Delay (veh-hrs) | Total Duration (mins) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SCR | US101-S | CABRILLO BLVD SB 101 PM 94.57 VD | ML | PM | 94.55 | 11.662 | 64 | 0.38438 | 5135.7 | 14025 |
| SBT | SR156-E | WEST OF MITCHELL RD ON HWY 156 W | ML | PM | 13.287 | 6.918 | 57 | 3.00351 | 4228.6 | 6555 |
| SB | US101-S | CABRILLO BLVD SB 101 PM 94.57 VD | ML | PM | 94.55 | 11.662 | 64 | 0.3 | 4048.9 | 14025 |
| SCR | US101-N | BAILARD AVE 101 NB VDS MLNB NB | ML | AM | 84.742 | 1.819 | 36 | 1.96389 | 3843.8 | 2125 |
| SB | US101-S | SANTA CLAUS LANE 101 SB VDS MLSB | ML | PM | 87.528 | 4.63200 | 25 | 0.936 | 1852.7 | 1880 |
| SCR | US101-S | SANTA CLAUS LANE 101 SB VDS MLSB | ML | PM | 87.528 | 4.63200 | 53 | 1.53019 | 1768.1 | 4410 |
| SCR | US101-N | CARILLO ST UC 101 SB VDS MLNB NB | ML | PM | 97.706 | 14.791 | 51 | 0.78431 | 1128.9 | 5065 |
| MON | SR1-N | CARPENTER RD HWY 1 NB VDS MLNB N | ML | PM | 324.954 | 74.419 | 23 | 1.03043 | 1068.4 | 2340 |
| MON | SR1-S | STRUVE RD HWY 1 SB VDS MLSB SB | ML | PM | 347.255 | 98.193 | 21 | 2.05714 | 903.8 | 1500 |
| MON | US101-N | CRAZY HORSE CYN RD HWY 101 NB VD | ML | AM | 338.925 | 98.36 | 1 | 6.5 | 827.7 | 280 |

## Quarterly Mobility Statistics





| Congestion by Route |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Route | County | Vehicle Hours of Delay at 35 mph |  |  | $\begin{gathered} \text { Difference } \\ 2020 \text { Q2-2019 Q2 } \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Difference } \\ 2020 \text { Q2-2020 Q1 } \end{gathered}$ |  | Rank |  |  |
|  |  | 2019 Q2 | 2020 Q1 | 2020 Q2 | Absolute | Percentage | Absolute | Percentage | 2019 Q2 | 2020 Q1 | 2020 Q2 |
| SR17 | Santa Cruz | 27,144 | 17,006 | 38,799 | 11,655 | 42.9\% | 21,793 | 128.1\% | 5 | 4 | 1 |
| SR1 | Santa Cruz | 223,870 | 129,394 | 32,095 | -191,775 | -85.7\% | -97,299 | -75.2\% | 1 | 1 | 2 |
| US101 | Santa Barbara | 55,344 | 44,473 | 16,168 | -39,176 | -70.8\% | -28,305 | -63.6\% | 2 | 2 | 3 |
| SR1 | Monterey | 54,498 | 36,858 | 11,034 | -43,465 | -79.8\% | -25,824 | -70.1\% | 3 | 3 | 4 |
| SR156 | San Benito | 13,707 | 4,385 | 8,750 | -4,958 | -36.2\% | 4,365 | 99.6\% | 6 | 8 | 5 |
| US101 | Monterey | 10,375 | 6,270 | 5,770 | -4,605 | -44.4\% | -499 | -8.0\% | 7 | 7 | 6 |
| US101 | San Luis Obispo | 27,326 | 9,011 | 4,167 | -23,159 | -84.8\% | -4,844 | -53.8\% | 4 | 6 | 7 |
| SR68 | Monterey | 7,683 | 12,808 | 2,622 | -5,062 | -65.9\% | -10,186 | -79.5\% | 9 | 5 | 8 |
| SR25 | San Benito | 9,332 | 0 | 0 | -9,332 | -100.0\% | 0 |  | 8 |  |  |
|  | OTALS | 429,280 | 260,204 | 119,405 | -309,875 | -72.2\% | $-140,800$ | -54.1\% |  |  |  |

In previous quarters, the two detectors on SR25 were included in District 5 data but located in Santa Clara County in District 4. As of 2019 Q4, detection on SR25 was transferred from District 5 to District 4 in PeMS, eliminating the need for reconciliation of those two detectors moving forward. SR25 congestion will be part of the table above for the remainder of 2020 until the one year prior data is equal to the current quarter showing 0 congestion due to the detectors no longer existing in District 5.

