# District 05 Mobility Performance Report 

2017 Third Quarter

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2017 Third Quarter

## EXECUTIVE SUMMARY

## Overview

Caltrans District 5 contains five counties located in central coast California: Santa Barbara, San Luis Obispo, Monterey, Santa Cruz and San Benito Counties. There is no detection in San Benito County currently. All of the counties are in an urban setting within the cities limit and rural outside city limit. Santa Cruz and Monterey are the top two most congested counties in the $3^{\text {rd }}$ 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 third quarter, total delay equaled 467,500 thousands vehicle hours of delay (VHD) at the 35 mph speed threshold, and 970,400 thousand VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 5,400 thousand VHD at 35 mph , and 11,000 thousand VHD at 60 mph .

## Top Ten Bottlenecks for Quarter 3

| County | Fwy | Location | Type | Shift | Abs PM | CA PM | \# <br> Days <br> Active | Avg <br> Extent <br> (Miles) | Total <br> Delay <br> (veh-hrs) | Total <br> Duration <br> (mins) |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| SCR | SR1-S | STATE PARK DR AT HWY 1 SB VDS ML | ML | PM | 362.07 | 10.772 | 59 | 4.13729 | 28349 | 6955 |
| MON | SR1-N | CASA VERDE WAY HWY 1 SB VDS MLNB | ML | PM | 329.082 | 78.547 | 49 | 2.6 | 19455 | 6445 |
| SCR | SR1-S | PARK AVE AT HWY 1 NB VDS MLSB SB | ML | PM | 363.178 | 11.88 | 63 | 2.7 | 13699 | 5410 |
| SLO | US101-S | SPY GLASS DR 101 SB VDS MLSB SB | ML | PM | 193.322 | 19.797 | 54 | 2.52963 | 12548.5 | 6250 |
| SCR | SR1-S | SOQUEL DR NEXT EXT SIGN HWY 1 N | ML | PM | 365.708 | 14.41 | 53 | 1.6 | 11017 | 6735 |
| SCR | SR1-N | 41ST STEXIT AT HWY 1 SB VDS MLN | ML | AM | 365.27 | 13.929 | 53 | 3.7 | 9951 | 3805 |
| SB | US101-S | SANTA CLAUS LANE 101 SB VDS MLSB | ML | PM | 87.528 | 4.63200 | 63 | 1.7 | 9879 | 9910 |
| SCR | SR1-S | NB1 to NB 17 Conn | $M L$ | PM | 368.018 | 16.72 | 43 | 8.9 | 8678 | 2905 |
| MON | SR1-N | CANYON DEL REY BLVD AT HWY 1 NB | ML | PM | 330.075 | 79.54 | 63 | 1.4 | 8255 | 8775 |
| SCR | SR1-N | RIO DEL MAR BLVD AT HWY 1 SB VDS | ML | AM | 360.894 | 9.553 | 40 | 3.0 | 3835 | $2045 ~ N$ |

## Potential Senate Bill 1 funding projects:

In Santa Cruz County, SCCRTC has an ongoing 8.25 miles long HOV \& Transportation System Management (TSM - ramp meter and auxiliary lane) project currently in the PA\&ED phase. This freeway corridor is experiencing a recurring a.m. northbound and p.m. southbound congestion daily during the weekdays. Both directions are currently experiencing a congestion that spans 6 hours long during the peak commute direction and queue extends 10 miles or longer.

In Santa Barbara County, SBCAG has an ongoing 12 miles long HOV project currently in the PA\&ED phase. This freeway corridor is experiencing a recurring a.m. northbound and p.m. southbound congestion daily during the weekdays. Both directions are currently experiencing a congestion that spans 3-5 hours long during the peak commute direction and queue extends 11 miles or longer.

In Monterey County, this 11.5 miles long freeway corridor between Holman Highway interchange and Reservation Road interchange is experiencing a recurring a.m. southbound and p.m. northbound congestion daily during the weekdays. Both directions are currently experiencing a congestion that spans 1.5 hours long during the peak commute direction and
queue extends 5 miles or longer. Any combination of the HOV, Managed Lane, TSM/ITS could all be possible congestion relief solutions to the recurring congestion in this corridor.

In San Luis Obispo County, US 101 southbound in the Pismo Beach is experiencing a recurring congestion daily in the p.m. peak period for about 45-60 minutes. The queue length is approximately in the 2 to 2.5 miles long. During the shoulder hours, the freeway operates at free flow speed. SLOCOG has identified this segment of the freeway as the most congested segment in the county and has initiated the PA\&ED phase of a Part Time Managed Shoulder Lane in the median with ITS elements during the peak period in the southbound direction. By utilizing a part shoulder lane, it is anticipated that it will help relief the congestion during the p.m. peak period. Potentially, the northbound direction could also reap the same benefit if the same strategy is applied but no plan is currently on the books for the northbound direction.

All the above projects or potential projects are excellent congestion relief investment in the above District 5 Counties using the SB 1 funds.

Quarterly Mobility Statistics




| Congestion by Route |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Route | County | $\begin{gathered} \text { Vehicle Hours of Delay } \\ \text { at } 35 \mathrm{~m} \text { ph } \\ \hline \end{gathered}$ |  |  | Difference 2017 Q3-2016 Q3 |  | $\begin{gathered} \text { Difference } \\ 2017 \text { Q3-2017 Q2 } \end{gathered}$ |  | Rank |  |  |
|  |  | 2016 Q 3 | 2017 Q 2 | 2017 Q3 | Absolute | Percentage | Absolute | Percentage | 2016 Q3 | 2017 D 2 | 2017 Q3 |
| SR1 | Sarta Cuz | 180,941 | 210.840 | 229236 | 42.295 | 22.6\% | 18,396 | 8.7\% | 1 | 1 | 1 |
| SR1 | Monterey: | 116.711 | 64.783 | 84,182 | -32,529 | -27.9\% | 19399 | 29.9\% | 2 | 3 | 2 |
| US101 | Santa Barbara | 107, 717 | 91.929 | 82,588 | $-25.130$ | -2330\% | $-9.341$ | -102\% | 3 | 2 | 3 |
| US101 | Sant Luis Obispo | 45.477 | 32.822 | 37.511 | -7966 | -17.5\% | 4.689 | 14.3\% | 4 | 5 | 4 |
| SR17 | Santa Cum | 31.839 | 57.816 | 24,968 | -6865 | -21.6\% | -32.848 | -56.8\% | 5 | 4 | 5 |
| US101 | Monterey | 11.985 | 14.204 | 9:022 | $-2.963$ | -24.7\% | -5,182 | -36.5\% | 6 | 6 | 6 |
| TOTALS |  | 500,665 | 472,392 | 467,506 | -33,159 | -6.6\% | -4,886 | -1.0\% |  |  |  |

