# District 05 Mobility Performance Report 

2018 First Quarter

July 27, 2018
: Sam Toh

## 2018 First 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. Aggregation of new detection data for San Benito County started in first quarter, 2018. Detection were implemented along SR25 on Bolsa Rd (PM 59.5) and SR156 from San Juan Bautista to Hollister (PM 1.71R12.024) respectively. Therefore, there are no comparable data for 2017 for San Benito County. All of the counties are in an urban setting within the cities limit and rural outside city limit. Santa Cruz and Santa Barbara are the top two most congested counties in the $1^{\text {st }}$ 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 first quarter, total delay equaled 283,700 vehicle hours of delay (VHD) at the 35 mph speed threshold, and $599,600 \mathrm{VHD}$ at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately $3,793 \mathrm{VHD}$ at 35 mph , and $7,987 \mathrm{VHD}$ at 60 mph .

## Top Ten Bottlenecks for Quarter 1

| County | VDS | Fwy | Location | Type | Shift | Abs PM | CA PM | Latitude | Longitude |  | Avg Extent (Miles) |  | Total Duration (mins) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SCR | 500013151 | SR1-S | STATE PARK DR AT HWY 1 SB VDS ML | ML | PM | 362.07 | 10.772 | 36.979813 | -121.914036 | 50 | 4.838 | 28783.1 | 6360 |
| SCR | 500014072 | SR1-N | 41ST ST EXIT AT HWY 1 SB VDS MLN | ML | AM | 365.27 | 13.929 | 36.983207 | -121.969927 | 55 | 4.36364 | 18169.9 | 5880 |
| SB | 501010102 | US101-N | NORTH PADARO LANE 101 NB VDS MLN | ML | AM | 90.225 | 7.30200 | 34.417097 | -119.585526 | 42 | 3.74524 | 9819.4 | 4775 |
| MON | 500010101 | SR1-N | SOUTH OF HWY 68 EAST AT HWY 1 NB | ML | PM | 328.558 | 78.023 | 36.594593 | -121.869761 | 33 | 1.97879 | 7756.1 | 3745 |
| SCR | 500014022 | SR1-S | PARK AVE AT HWY 1 NB VDS MLSB SB | ML | PM | 363.178 | 11.88 | 36.983854 | -121.933254 | 57 | 2.99474 | 7641 | 3375 |
| MON | 500010142 | SR1-N | CANYON DEL REY BLVD AT HWY 1 NB | ML | PM | 330.075 | 79.54 | 36.611936 | -121.85503 | 53 | 1.32453 | 5432.9 | 6090 |
| SCR | 405575 | SR1-S | NB1 to NB 17 conn | ML | PM | 368.018 | 16.72 | 36.989141 | -122.019205 | 32 | 8.79375 | 4162.8 | 1975 |
| SB | 501010071 | US101-S | SANTA CLAUS LANE 101 SB VDS MLSB | ML | PM | 87.528 | 4.63200 | 34.405913 | -119.543612 | 42 | 1.7 | 3606.9 | 4380 |
| SCR | 500014082 | SR1-S | SOQUEL DR NEXT EXIT SIGN HWY 1 N | ML | PM | 365.708 | 14.41 | 36.985023 | -121.978295 | 28 | 1.86071 | 3421.1 | 1820 |
| SCR | 500014052 | SR1-S | BAY AVE - PORTER ST AT HWY 1 SB | ML | PM | 364.577 | 13.279 | 36.983018 | -121.95851 | 52 | 1.61346 | 3249 | 2295 |

## Quarterly Mobility Statistics





| Congestion by Route |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Route | County | Vehicle Hours of Delay at 35 mph |  |  | $\begin{gathered} \text { Difference } \\ 2018 \text { Q1-2017 Q1 } \end{gathered}$ |  | $\begin{gathered} \text { Difference } \\ 2018 \text { Q1-2017 Q4 } \end{gathered}$ |  | Rank |  |  |
|  |  | 2017 Q1 | 2017 Q4 | 2018 Q1 | Absolute | Percentage | Absolute | Percentage | 2017 Q1 | 2017 Q4 | 2018 Q1 |
| SR1 | Santa Cruz | 93,365 | 199,360 | 161,009 | 67,644 | 72.5\% | -38,351 | -19.2\% | 1 | 1 | 1 |
| US101 | Santa Barbara | 56,443 | 51,082 | 60,947 | 4,503 | 8.0\% | 9,865 | 19.3\% | 3 | 2 | 2 |
| SR1 | Monterey | 31,737 | 39,315 | 32,822 | 1,085 | 3.4\% | -6,493 | -16.5\% | 4 | 3 | 3 |
| US101 | San Luis Obispo | 17,436 | 20,016 | 13,561 | -3,876 | -22.2\% | -6,456 | -32.3\% | 5 | 4 | 4 |
| SR17 | Santa Cruz | 57,639 | 16,411 | 9,274 | -48,365 | -83.9\% | -7,137 | -43.5\% | 2 | 5 | 5 |
| US101 | Monterey | 5,331 | 5,951 | 3,181 | -2,150 | -40.3\% | -2,770 | -46.5\% | 6 | 6 | 6 |
| SR156 | San Benito | 0 | 0 | 2,519 | 2,519 |  | 2,519 |  |  |  | 7 |
| SR25 | San Benito | 0 | 0 | 359 | 359 |  | 359 |  |  |  | 8 |
| TOTALS |  | 261,951 | 332,135 | 283,672 | 21,721 | 8.3\% | -48,463 | -14.6\% |  |  |  |

Aggregation of new detection data for San Benito County started in quarter 1, 2018. Detection were implemented along SR25 on Bolsa Rd (PM 59.5) and SR156 from San Juan Bautista to Hollister (PM 1.71-R12.024) respectively.
Therefore, there are no comparable data for 2017 Q1 for this two Routes.

