# District 05 <br> Mobility Performance Report 

2024 First Quarter

June 4, 2024
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## 2024 First 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 Monterey were 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 295,000 vehicle hours of delay (VHD) at the 35 mph speed threshold, and 711,600 VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 4,458 VHD at 35 mph , and $10,338 \mathrm{VHD}$ at 60 mph.

## Top Ten Bottlenecks for Quarter 1

| County | Fwy | Location | Type | Shift | Abs PM | CA PM | \# Days Active | $\begin{array}{\|c} \hline \text { Avg } \\ \text { Extent } \\ \text { (Miles) } \\ \hline \end{array}$ | Total Delay (veh-hrs) | Total Duration (mins) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SCR | SR1-S | BAY AVE - PORTER ST AT HWY 1 SB | ML | PM | 364.577 | 13.279 | 61 | 2.25246 | 40,474.8 | 12,090 |
| MON | SR1-N | CANYON DEL REY BLVD AT HWY 1 NB | ML | PM | 330.075 | R79.54 | 60 | 2.86333 | 31,147.5 | 7,710 |
| SCR | SR1-N | PARK AVE AT HWY 1 SB VDS MLNB NB | ML | AM | 363.679 | 12.338 | 50 | 3.638 | 24,379.5 | 5,275 |
| MON | SR1-S | SOUTH OF FREMONT BLVD AT HWY 1 N | ML | AM | 330.929 | R80.46 | 60 | 3.64167 | 23,169.9 | 4,975 |
| SB | US101-S | OLIVE MILL RD 101 NB VDS MLSB SB | ML | PM | 93.295 | 10.407 | 54 | 1.95 | 17,460.4 | 5,775 |
| SCR | SR1-S | STATE PARK DR AT HWY 1 NB VDS ML | ML | PM | 361.617 | 10.319 | 50 | 2.514 | 13,814.2 | 5,150 |
| MON | SR68-E | LAGUNA SECA MAIN ENTRANCE HWY 68 | ML | PM | 11.238 | 11.034 | 61 | 2.5 | 9,796.2 | 10,710 |
| SB | US101-S | HERMOSILLO RD 101 NB VDS MLSB SB | ML | PM | 93.968 | 11.08 | 50 | 1.552 | 8,459.5 | 2,840 |
| SCR | SR1-N | BAY AVE - PORTER ST AT HWY 1 NB | ML | PM | 364.373 | 13.032 | 61 | 0.5 | 8,409.9 | 12,210 |
| SCR | SR1-S | RIO DEL MAR BLVD AT HWY 1 NB VDS | ML | PM | 360.312 | 9.0141 | 29 | 2.35862 | 7,973.1 | 2,550 |

## SPECIAL CIRCUMSTANCE

The performance factor titled Average Vehicle Hours of Delay by Hour of Day at 35 mph on a Sunday/Holiday had a special circumstance in Quarter 1 of 2024 that warrants discussion. The largest absolute increase for Average Vehicle Hours of Delay by Hour of Day at 35 mph on a Sunday/Holiday when comparing Quarter 1 of 2024 to Quarter 4 of 2023 occurred in the 2:00 AM hour. Quarter 4 of 2023 had zero hours of vehicle delay in the 2:00 AM hour while Quarter 4 of 2023 had 0.026667 hours of vehicle delay in the 2:00 AM hour. Because Quarter 4 of 2023 had zero hours of vehicle delay, the calculation for magnitude increase experienced the error of dividing by zero. The only other hour which had an increase for Average Vehicle Hours of Delay by Hour of Day at 35 mph on a Sunday/Holiday when comparing Quarter 1 of 2024 to Quarter 4 of 2023 also had the same error of dividing by zero which was the 0:00 AM hour that had an
absolute increase of 0.00625 hours over Quarter 4 of 2023. Sundays/Holidays in Quarter 1 of 2024 had 18 separate hours where the average hours of vehicle delay decreased between Quarter 4 of 2023 and Quarter 1 of 2024 and 3 separate hours that experienced zero hours of average hours of vehicle delay in Quarter 4 of 2023.

2024 Q-1
Quarterly Mobility Statistics
District 5

| Measure | Graph | Percentage Change |  |
| :---: | :---: | :---: | :---: |
| Vehicle Miles of Travel (VMT) |  | Oter one year ago $0.3 \%$  | Over last quarter $\sqrt{-3.8 \%}$ |
| Total Vehicle <br> Hours of Delay <br> (VHD) <br> at 35 mph |  | Over one year ago <br> 1.8\% | Over last quarter $-21.3 \%$ |
| Average NonHoliday Weekday Vehicle Hours of Delay (VHD) at 35 mph |  | Over one year ago <br> 11.7\% | Over last quarter $-17.6 \%$ |
| Total Vehicle Hours of Delay (VHD) at 60 mph |  | Over one year ago $6.9 \%$ | Over last quarter $-17.9 \%$ |
| Average Non- <br> Holiday <br> Weekday <br> Vehicle Hours <br> of Delay <br> (VHD) <br> at 60 mph | Hours (Thousands) | Over one year ago 13\%  | Over last quarter $-14.7 \%$ |



| Measure | Graph | Percentag | ge Change |
| :---: | :---: | :---: | :---: |
| Total Vehicle Hours of Delay (VHD) by County at 35 mph | Hours (Thousands) | Largest Magnitude Decrease over one year ago | Largest Magnitude <br> Decrease over last quarter |
|  |  | San Luis Obispo -55.1\% | Santa Barbara |
|  |  | Largest Magnitude Increase over one year ago | Largest Magnitude Increase over last quarter |
|  | Monterey San Benito $\begin{gathered}\text { San Luis } \\ \text { Obispo }\end{gathered} \underset{\substack{\text { Santa } \\ \text { Barbara }}}{\text { Santa Cruz }}$ | $\begin{array}{\|l\|} \hline \text { Santa Cruz } \\ 20.7 \% \end{array}$ |  |
| Average NonHoliday Weekday Equivalent Lost Lane Mile Hours at 35 mph |  | Largest Magnitude Decrease over one year ago | Largest Magnitude <br> Decrease over last quarter |
|  |  | $\begin{aligned} & \text { Off-Peak Night } \\ & -6.9 \% \end{aligned}$ | $\begin{aligned} & \text { PM Peak } \\ & -18.8 \% \end{aligned}$ |
|  |  | Largest Magnitude Increase over one year ago | Largest Magnitude Increase over last quarter |
|  |  | $\begin{aligned} & \text { AM Peak } \\ & 29.8 \% \end{aligned}$ | - |
| Average Number of Good and Bad Detectors | Number of Detectors | Change in Good over one year ago | Change in Good over last quarter |
|  | $\square$ Average of Good $\quad$ Average of Bad |  |  |
|  | $\begin{array}{r} 1,040 \\ 1,030 \end{array}$ | $1 \%$ | 1\% |
|  | 1,010 | Change in Bad over one year ago | Change in Bad over last quarter |
|  | 2023 Q1 2023 Q4 2024 Q1 | -28\% | -12\% |


| Congestion by Route |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Route | County | Vehicle Hours of Delay at 35 mph |  |  | $\begin{gathered} \text { Difference } \\ 2024 \text { Q1-2023 Q1 } \end{gathered}$ |  | $\begin{gathered} \text { Difference } \\ 2024 \text { Q1-2023 Q4 } \end{gathered}$ |  | Rank |  |  |
|  |  | 2023 Q1 | 2023 Q4 | 2024 Q1 | Absolute | Percentage | Absolute | Percentage | 2023 Q1 | 2023 Q4 | 2024 Q1 |
| SR1 | Santa Cruz | 101,243 | 131,980 | 111,604 | 10,361 | 10.2\% | -20,376 | -15.4\% | 1 | 1 | 1 |
| SR1 | Monterey | 47,564 | 64,891 | 60,035 | 12,471 | 26.2\% | -4,856 | -7.5\% | 3 | 3 | 2 |
| US101 | Santa Barbara | 70,731 | 85,577 | 54,597 | -16,134 | -22.8\% | -30,981 | -36.2\% | 2 | 2 | 3 |
| SR68 | Monterey | 16,991 | 24,254 | 22,869 | 5,878 | 34.6\% | -1,385 | -5.7\% | 5 | 5 | 4 |
| SR17 | Santa Cruz | 3,435 | 13,341 | 14,723 | 11,288 | 328.6\% | 1,382 | 10.4\% | 8 | 7 | 5 |
| US101 | San Luis Obis | 32,676 | 27,264 | 14,425 | -18,251 | -55.9\% | -12,839 | -47.1\% | 4 | 4 | 6 |
| US101 | Monterey | 10,790 | 14,920 | 11,721 | 931 | 8.6\% | -3,200 | -21.4\% | 6 | 6 | 7 |
| SR156 | San Benito | 6,437 | 12,678 | 4,833 | -1,604 | -24.9\% | -7,845 | -61.9\% | 7 | 8 | 8 |
| SR46 | San Luis Obis | 0 | 0 | 232 | 232 |  | 232 |  |  |  | 9 |
|  | TAIS | 289,867 | 374,905 | 295,039 | 5,172 | 1.8\% | -79,866 | -21.3\% |  |  |  |

