# District 06 Mobility Performance Report 

2018 First Quarter

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2018 First Quarter

## EXECUTIVE SUMMARY

## Overview

Caltrans District 6 is geographically diverse, and the third largest of the 12 Districts statewide, stretching from the southernmost part of Yosemite National Park in the north to the Mojave Desert. Also referred to as the Central Valley, District 6 encompasses Madera, Fresno, Tulare, Kings, and Kern counties. District 6 maintains and operates of 476 miles of freeway and 1,554 miles of rural and urban highway. This District has the largest portion of road miles to maintain in the state highway system with 2,030 miles.

The Mobility Performance Report (MPR) quarterly analysis compares current data with information from the same quarter of the previous year, and from the previous quarter using the following performance measures:

- Vehicle Miles of Travel (VMT)
- Vehicle Hours of Delay (VHD)
- Lost Lane Miles (equivalent lost productivity)
- Detector Health

This information is based on continuous data collected by automated vehicle detector stations deployed on urban-area freeways with recurrent congestion. The MPR presents congestion delay 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. The criteria for thresholds are set by Caltrans and are based on engineering experience and District input.

## FINDINGS

In the first quarter for the year of 2018, the total delay equaled 242 thousands Vehicle Hours of Delay (VHD) at the 35 mph speed threshold, and 1350 thousands VHD at the 60 mph threshold. The average weekday delay experience in this quarter was approximately 2,814 VHD at 35 mph , and 17 thousands VHD at 60 mph .

The VHD for the first quarter experienced an overall decrease of $31.7 \%$ compared to the previous quarter, however the VHD showed variation specific to each route.

In general the overall decrease in VHD can be attributed to the end of the holiday season, this is common, especially for metropolitan areas such as Fresno (Fresno County, SR 41 and SR 99), and Bakersfield (Kern County, SR 99).

The decreased VHD on Interstate 5 in Fresno County could be attributed the end of the holiday season, in addition to the increase in the percentage of detectors reporting insufficient and intermittent data in comparison to fourth quarter of 2017.

The increased VHD on State Route 99 in Madera County could be attributed to the increase in the percentage of detectors reporting good data for Quarter 1 of 2018 in comparison to the same quarter of the previous year, and fourth quarter of 2017.

The increased VHD on State Route 180S in Fresno County could be attributed to the fluctuation of downed controllers and detectors reporting intermittent data over the span of fourth quarter, and the first quarter of 2018.

The increased VHD on State Route 46 in Kern County could be related to detectors reporting the card being off at multiple locations in addition to detectors providing inconsistent data when compared to historical data.

No bottlenecks were identified within the District 6 Highway system for first quarter of 2018.

Quarterly Mobility Statistics

| Measure | Graph |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |





| 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 |
| 15 | Kern | 19,277 | 46,964 | 50,951 | 31,674 | 164.3\% | 3,987 | 8.5\% | 6 | 3 | 1 |
| SR99 | Fresno | 33,797 | 45,197 | 37,584 | 3,787 | 11.2\% | -7,613 | -16.8\% | 3 | 4 | 2 |
| 15 | Fresno | 72,087 | 103,514 | 33,252 | -38,835 | -53.9\% | -70,262 | -67.9\% | 1 | 1 | 3 |
| SR41 | Fresno | 20,249 | 38,964 | 28,575 | 8,326 | 41.1\% | -10,389 | -26.7\% | 4 | 5 | 4 |
| SR99 | Kern | 14,798 | 64,770 | 24,728 | 9,930 | 67.1\% | -40,042 | -61.8\% | 9 | 2 | 5 |
| SR99 | Madera | 16,015 | 15,397 | 23,971 | 7,956 | 49.7\% | 8,575 | 55.7\% | 8 | 7 | 6 |
| SR99 | Tulare | 19,426 | 15,989 | 17,894 | -1,532 | -7.9\% | 1,905 | 11.9\% | 5 | 6 | 7 |
| SR180S | Fresno | 0 | 4,288 | 7,179 | 7,179 |  | 2,891 | 67.4\% |  | 9 | 8 |
| 15 | Kings | 1,514 | 4,538 | 5,007 | 3,493 | 230.7\% | 468 | 10.3\% | 12 | 8 | 9 |
| SR180 | Fresno | 16,939 | 3,534 | 4,151 | -12,787 | -75.5\% | 617 | 17.5\% | 7 | 11 | 10 |
| SR168S | Fresno | 4,680 | 3,203 | 2,831 | -1,849 | -39.5\% | -372 | -11.6\% | 10 | 12 | 11 |
| SR58 | Kern | 2,753 | 3,535 | 2,365 | -389 | -14.1\% | -1,171 | -33.1\% | 11 | 10 | 12 |
| SR198 | Kings | 1,144 | 2,382 | 1,785 | 641 | 56.0\% | -597 | -25.1\% | 13 | 13 | 13 |
| SR41 | Kings | 595 | 1,150 | 992 | 397 | 66.7\% | -158 | -13.7\% | 14 | 14 | 14 |
| SR46 | Kern | 38,309 | 9 | 314 | -37,995 | -99.2\% | 305 | 3239.4\% | 2 | 17 | 15 |
| SR198 | Tulare | 312 | 295 | 163 | -149 | -47.7\% | -132 | -44.6\% | 15 | 15 | 16 |
| SR152 | Madera | 0 | 0 | 1 | 1 |  | 0 | 200.0\% |  | 18 | 17 |
| SR41 | Madera | 1 | 0 | 0 | -1 | -87.5\% | 0 |  | 16 |  | 18 |
| SR168 | Fresno | 0 | 0 | 0 | 0 |  | 0 |  |  |  |  |
| SR178 | Kern | 0 | 20 | 0 | 0 |  | -20 | -100.0\% |  | 16 |  |
| TOTALS |  | 261,896 | 353,751 | 241,743 | -20,153 | -7.7\% | -112,008 | -31.7\% |  |  |  |

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