District 06 Mobility Performance Report

2018 First Quarter

DEPARTMENT OF TRANSPORTATION

May 30, 2018 : Terence Cortez

District 06 Mobility Performance Report

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).

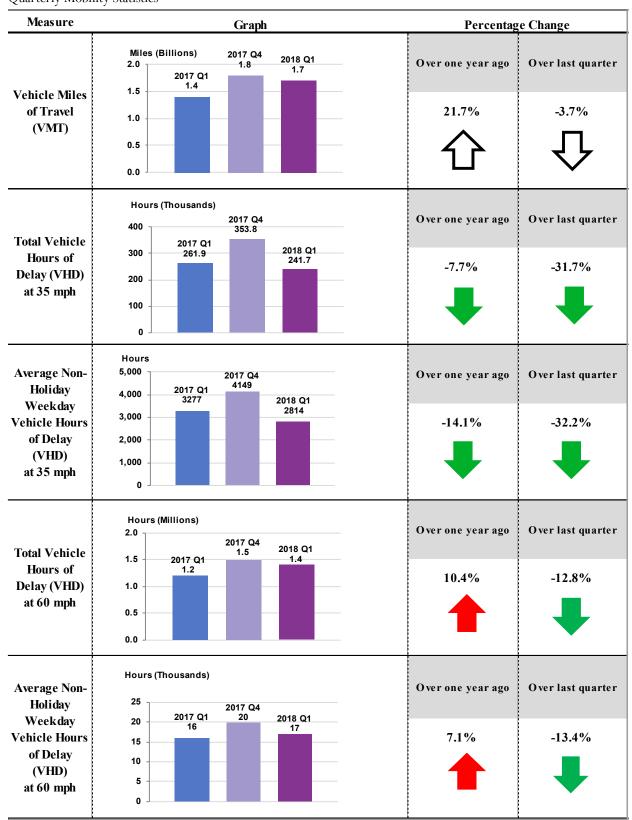
The decreased VHD on Interstate 5 in Fresno County could be attributed the end of the holiday season, in addition to the increase in the percentage of detectors reporting insufficient and intermittent data in comparison to fourth quarter of 2017.

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.

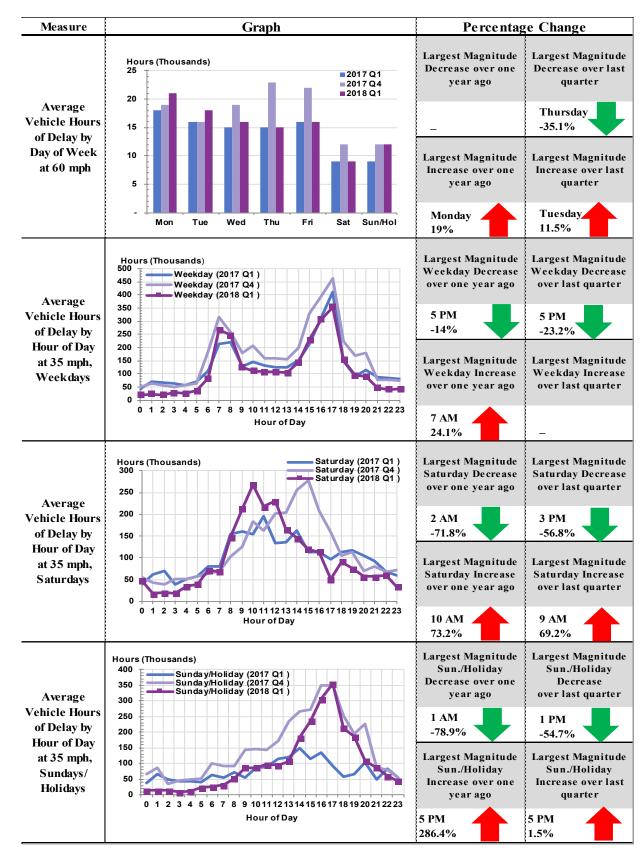
The increased VHD on State Route 46 in Kern County could be related to detectors reporting the card being off at multiple locations in addition to detectors providing inconsistent data when compared to historical data.

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



Quarterly Mobility Statistics

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Congestion by Route											
		Vehicle Hours of Delay at 35 mph			Difference 2018 Q1-2017 Q1		Difference 2018 Q1-2017 Q4		Rank		
Route	County	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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