District 12 Mobility Performance Report

2018 1st Quarter

DEPARTMENT OF TRANSPORTATION

April 25, 2018 District 12 TMC

DISTRICT 12 MOBILITY PERFORMANCE REPORT

2018 1st Quarter

EXECUTIVE SUMMARY

Overview

Caltrans District 12 (Orange County) is located in southern California and is neighbors with District 7 (Los Angeles), District 8 (San Bernardino), and District 11 (San Diego). As of July 2016 the total population in Orange County was 3,172,532. The jurisdictional boundaries of Orange County encompass a metropolitan area of 794 square miles, including 34 cities, and 17 state highway routes. The county has 1,059 lane miles of general purpose lanes and 226 lane miles of High-Occupancy Vehicle (HOV) lanes, which is one of California's largest HOV lane networks. Orange County is the third most populous county in California, the sixth-most populous in the United States, and more populous than twenty-one U.S. states. Its county seat is Santa Ana. It is the second most densely populated county in the state.

The Mobility Performance quarterly analysis compares information from the most recent quarter and the previous 4 quarters, involving the following performance measures:

- Vehicle Miles of Travel (VMT)
- Vehicle Hours of Delay (VHD)
- o Lost Lane Miles (LLM)
- 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 uses congestion at two speed thresholds: delay from vehicles traveling below 35 mph and delay from vehicles traveling below 60 mph. The 35 MPH limit

represents severe congestion while the 60 mph limit represents light and heavy congestion. These thresholds/limits are set by Caltrans and are based upon engineering experience and District input.

FINDINGS

In the first quarter, total delay equaled to 2.1 million vehicle hours of delay (VHD) at the 35 mph threshold, about 22.9 percent less than the previous quarter and 5.8 million VHD at the 60 mph threshold, about 14.8 percent less than the previous quarter.

The average weekday VHD in the first quarter was 29 thousand hours of delay at the 35 mph threshold, about 21.6 percent less than the previous quarter and 80 thousand hours of delay at the 60 mph, about 14.1 percent less than the previous quarter

Top 10 Bottlenecks for the 1st Quarter

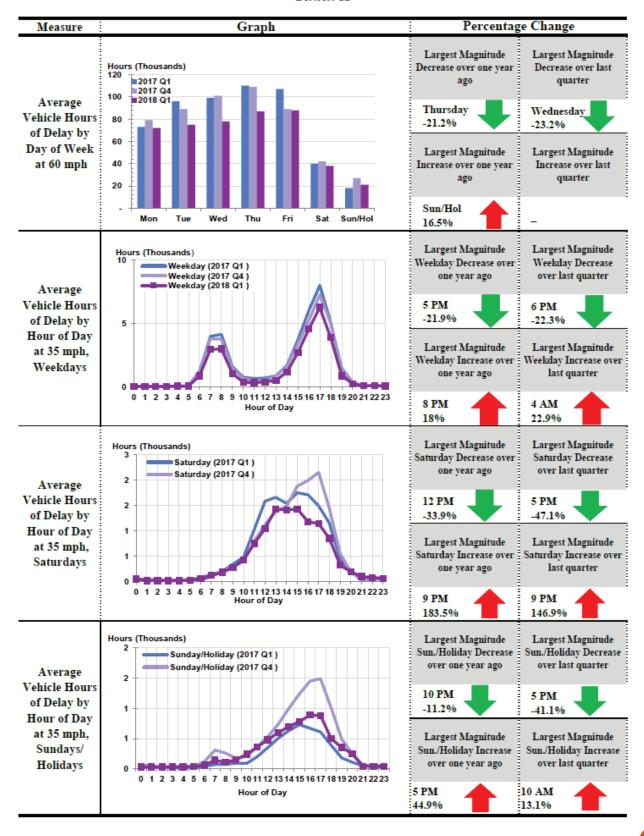
Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)	
16.53	16.76	61	4.665574	129288.9	11720	
14.49	14.72	62	3.75	50000.7	9210	
13.74	13.97	60	3.8	48810.4	6995	
11.602	11.62	62	1.391935	43586.1	12745	
5.98	6.21	55	1.621818	33825.7	10085	
7.85	R7.85	62	1.790323	27446.7	6435	
8.6	8.6	51	2.3	24652.3	5765	
105.988	33.8	62	1.087097	24268.7	10955	
14.31	14.54	48	4.645833	23443.4	7105	
9.41	R9.41	51	2.780392	20485.5	5190	

Quarterly Mobility Statistics

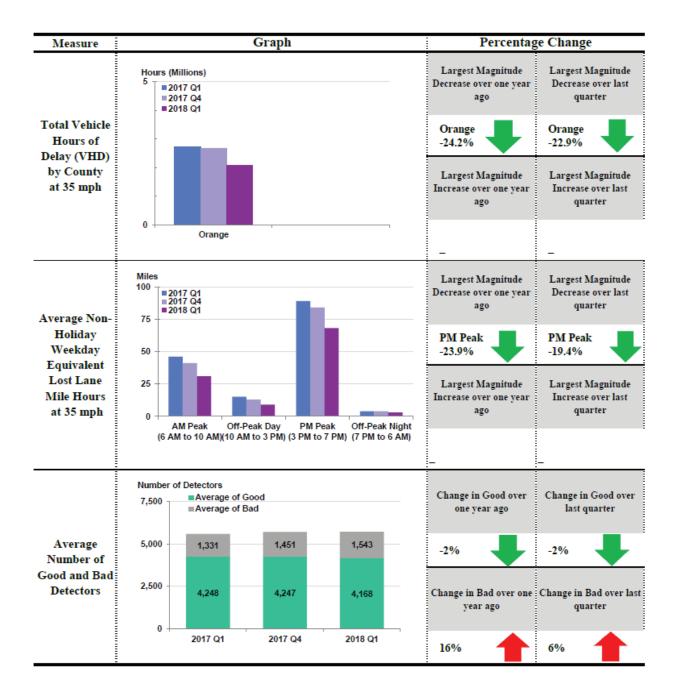
2018 Q1 Quarterly Mobility Statistics District 12



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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		
I405	Orange	674,078	731,993	663,832	-10,247	-1.5%	-68,161	-9.3%	1	1	1		
I5	Orange	563,409	543,515	451,761	-111,649	-19.8%	-91,755	-16.9%	2	2	2		
SR55	Orange	510,173	381,052	283,897	-226,275	-44.4%	-97,155	-25.5%	3	3	3		
SR91	Orange	373,886	374,128	217,284	-156,602	-41.9%	-156,844	-41.9%	4	4	4		
SR57	Orange	303,469	303,981	172,825	-130,644	-43.1%	-131,156	-43.1%	5	5	5		
SR22	Orange	142,866	169,251	124,910	-17,956	-12.6%	-44,342	-26.2%	6	6	6		
SR73	Orange	112,539	85,869	86,005	-26,534	-23.6%	136	0.2%	7	7	7		
SR241	Orange	31,774	52,639	28,783	-2,991	-9.4%	-23,857	-45.3%	8	8	8		
I605	Orange	13,954	30,944	18,430	4,477	32.1%	-12,514	-40.4%	9	9	9		
SR133	Orange	2,216	7,798	18,199	15,983	721.2%	10,402	133.4%	10	10	10		
SR142	Orange	0	0	2,036	2,036		2,036				11		
SR261	Orange	992	1,509	1,015	23	2.4%	-494	-32.7%	11	11	12		
SR74	Orange	0	0	119	119		119				13		
SR1	Orange	0	51	7	7		-44	-86.0%		12	14		