District 12 Mobility Performance Report

2018 4th Quarter

DEPARTMENT OF TRANSPORTATION

January 16, 2019 District 12 TMC

DISTRICT 12 MOBILITY PERFORMANCE REPORT

2018 4th 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 2017 the total population in Orange County was 3,190,400. 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)
- Lost Lane Miles (LLM)
- o 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 fourth quarter, of 2018, total delay equaled to 2 million vehicle hours of delay (VHD) at the 35mph speed threshold and 5.9 million VHD at 60mph threshold. Compared to the third quarter, there was an 8.7 percent increase in 35mph VHD and 5.3 percent increase in 60mph VHD.

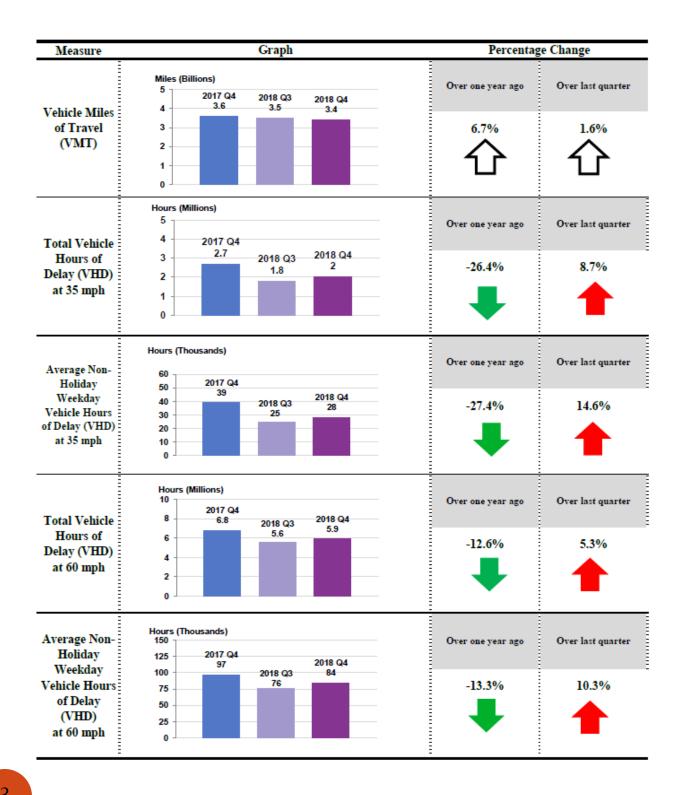
The average weekday VHD experienced in this quarter was approximately 28 thousand VHD at 35mph and 84 thousand VHD at 60mph. Compared to the third quarter, there was 14.6 percent increase in 35 mph VHD and 10.3 percent in 60mph VHD.

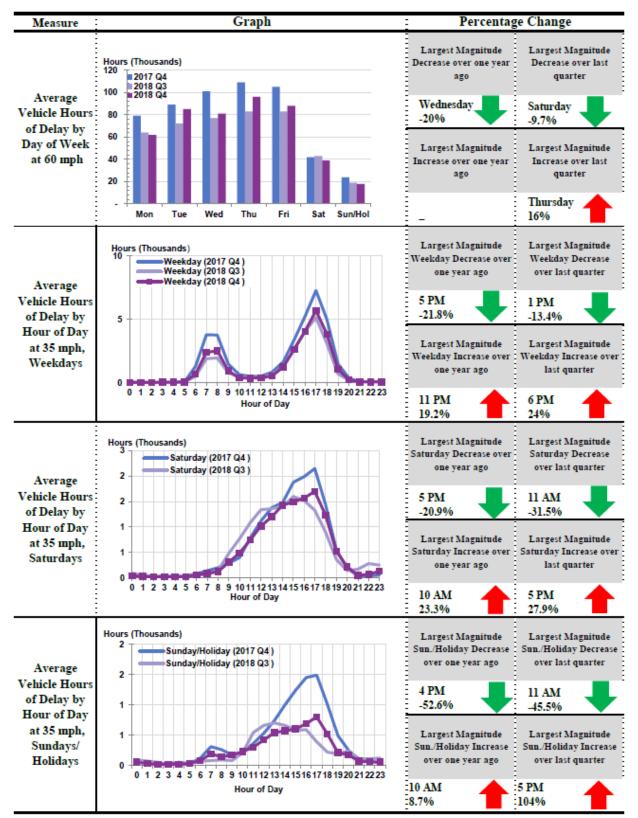
Abs PM	САРМ	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
13.51	13.74	59	3.854237	160408.8	15510
14.93	15.16	56	2.773214	29629.7	11240
12.892	13.122	56	2.3375	28419.7	14195
28.453	R10.08	55	2.794545	20815.2	10400
102.251	30	46	3.371739	20335.6	11455
6.57	6.8	57	1.329825	17538.4	6315
105.851	33.6	58	2.236207	16922.1	10600
103.051	30.8	56	0.675	16890.1	10660
15.492	15.722	56	2.442857	16311.7	11230
10.67	10.9	51	1.141176	15096.8	10210

Top 10 Bottlenecks for the 4th Quarter of 2018

Quarterly Mobility Statistics

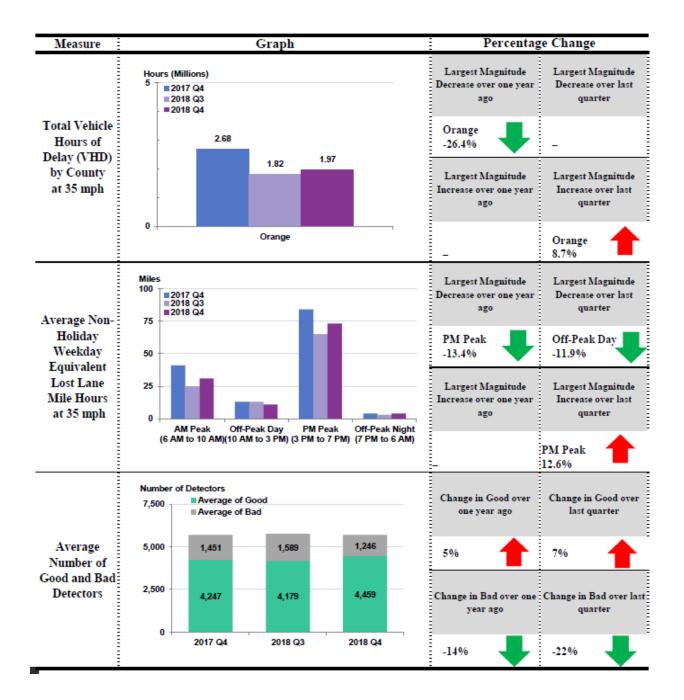
2018 Q4 Quarterly Mobility Statistics District 12





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Congestion by Route													
		Vehicle Hours of Delay at 35 mph		Difference 2018 Q4-2017 Q4		Difference 2018 Q4-2018 Q3		Rank					
Route	County	2017 Q4	2018 Q3	2018 Q4	Absolute	Percentage	Absolute	Percentage	2017 Q4	2018 Q3	2018 Q4		
1405	Orange	731,993	596,244	611,078	-120,915	-16.5%	14,834	2.5%	1	1	1		
15	Orange	543,515	497,969	533,581	-9,934	-1.8%	35,613	7.2%	2	2	2		
SR91	Orange	374,128	253,372	281,296	-92,832	-24.8%	27,923	11.0%	4	3	3		
SR55	Orange	381,052	157,785	155,772	-225,281	-59.1%	-2,013	-1.3%	3	4	4		
SR22	Orange	169,251	107,555	124,404	-44,847	-26.5%	16,849	15.7%	6	5	5		
SR57	Orange	303,981	49,302	107,777	-196,205	-64.5%	58,475	118.6%	5	1	6		
SR73	Orange	85,869	77,723	89,943	4,074	4.7%	12,220	15.7%	1	6	1		
SR241	Orange	52,639	36,706	31,104	-21,535	-40.9%	-5,602	-15.3%	8	8	8		
1605	Orange	30,944	17,349	20,980	-9,964	-32.2%	3,632	20.9%	9	10	9		
SR133	Orange	7,798	17,598	16,935	9,137	117.2%	-663	-3.8%	10	9	10		
SR74	Orange	0	1,498	890	890		-609	-40.6%		12	11		
SR142	Orange	0	3,186	705	705		-2,481	-77.9%		11	12		
SR261	Orange	1,509	290	37	-1,472	-97.5%	-253	-87.1%	11	13	13		
SR1	Orange	51	0	32	-19	-37.7%	32		12		14		
SR39	Orange	0	0	0	0	-100.0%	0		13				