District 12 Mobility Performance Report

2018 3rd Quarter

DEPARTMENT OF TRANSPORTATION

October 23, 2018 District 12 TMC

DISTRICT 12 MOBILITY PERFORMANCE REPORT

2018 3rd 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 third quarter of 2018, at 35 mph, the total delay equaled to 1.8 million vehicle hours of delay (VHD), which was 15 percent less than the second quarter of 2018 of 2.1 million VHD. At 60mph, the total delay was 5.6 million VHD, which was 7.5 percent less than the second quarter of 6.1 million VHD.

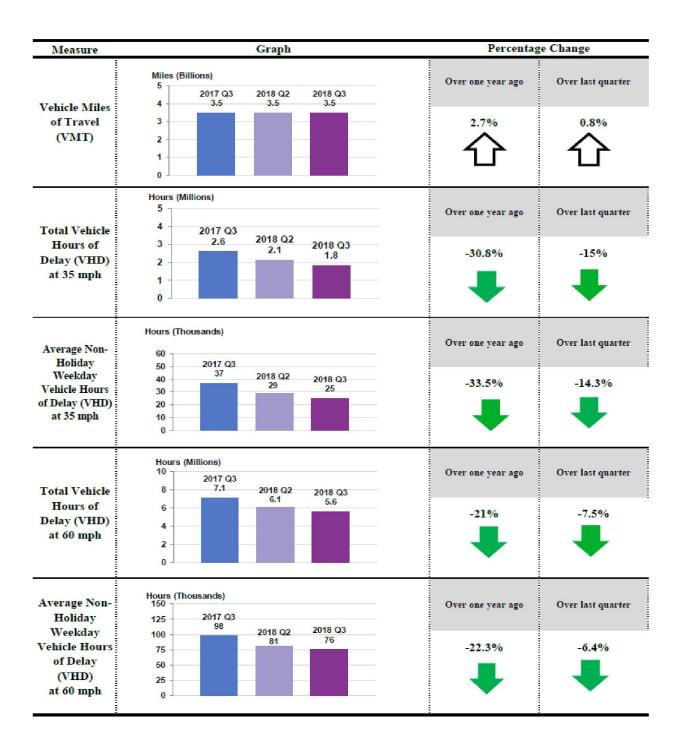
The average weekday VHD, in the third quarter, was 25 thousand hours of delay at 35 MPH, which was 14.3 percent less than the VHD of the second quarter of 29 thousand hours of delay. While the VHD at 60 MPH, during the third quarter, was 76 thousand hours of delay. Which was a decrease of 6.4 percent from 81 thousand hours of delay during the second quarter of 2018.

Top 10 Bottlenecks for the 3rd Quarter of 2018

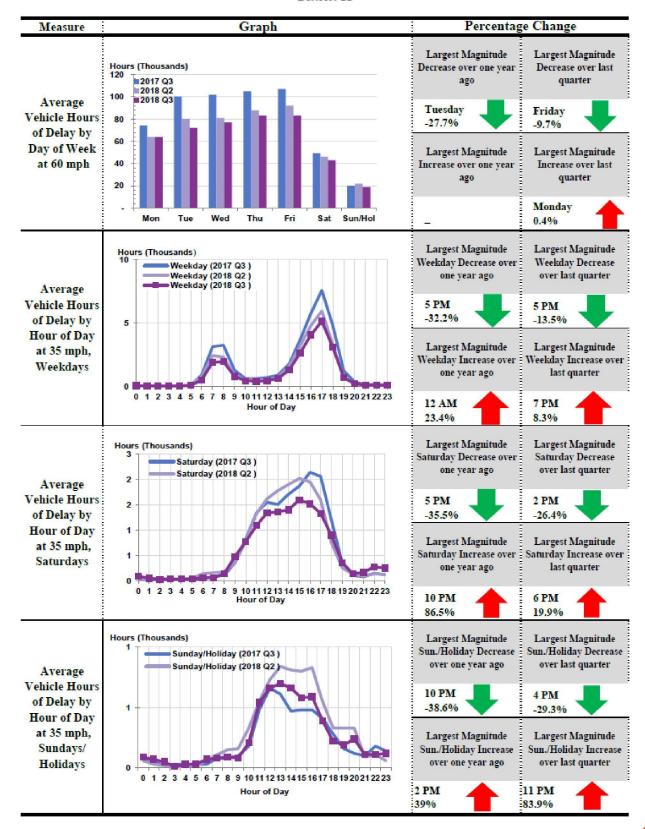
Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)	
12.892	13.122	58	3.22069	69154	8395	
14.341	14.571	35	4.508571	20809.7	5670	
13.51	13.74	41	3.37561	20786.7	2610	
99.811	27.56	63	1.57619	19927	15810	
14.93	15.16	44	2.913636	18961.5	8650	
14.341	14.571	41	1.926829	17737	3655	
28.453	R10.08	56	2.610714	16188.7	10285	
14.59	14.82	35	2.762857	15652.9	3185	
12.62	12.85	29	2.32069	15155.5	6280	
116.151	43.9	63	1.014286	14744.9	14685	

Quarterly Mobility Statistics

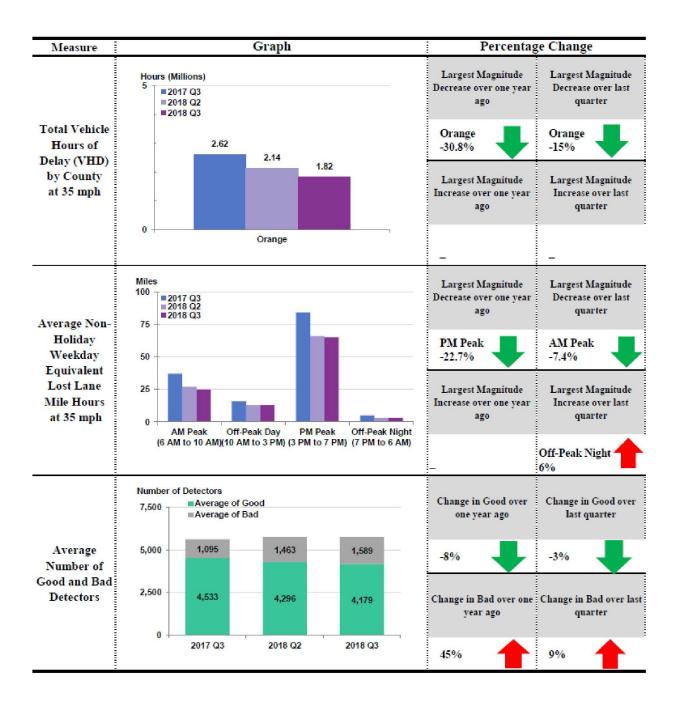
2018 Q3 Quarterly Mobility Statistics District 12



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Congestion by Route													
		Vehicle Hours of Delay at 35 mph		Difference 2018 Q3-2017 Q3		Difference 2018 Q3-2018 Q2		Rank					
Route	County	2017 Q3	2018 Q2	2018 Q 3	Absolute	Percentage	Absolute	Percentage	2017 Q3	2018 Q2	2018 Q3		
I405	Orange	780,970	586,949	596,244	-184,726	-23.7%	9,295	1.6%	l	1	1		
<u>I</u> 5	Orange	522,741	521,179	497,969	-24,773	4.7%	-23,211	4.5%	2	2	2		
SR91	Orange	372,390	275,875	253,372	-119,018	-32.0%	-22,503	-8.2%	4	3	3		
SR55	Orange	418,170	274,121	157,785	-260,386	-62.3%	-116,336	-42.4%	3	4	4		
SR22	Orange	148,581	103,966	107,555	-41,026	-27.6%	3,589	3.5%	6	6	5		
SR73	Orange	108,567	86,189	77,723	-30,844	-28.4%	-8,466	-9.8%	7	7	6		
SR57	Orange	217,560	197,535	49,302	-168,258	-77.3%	-148,233	-75.0%	5	5	7		
SR241	Orange	29,597	42,679	36,706	7,109	24.0%	-5,973	-14.0%	8	8	8		
SR133	Orange	4.678	16,289	17,598	12,920	276.2%	1,308	8.0%	10	10	9		
I605	Orange	21,261	17,500	17,349	-3,912	-18.4%	-152	-0.9%	9	9	10		
SR142	Orange	0	12,796	3.186	3,186		-9,610	-75.1%		11	11		
SR74	Orange	0	684	1,498	1,498		814	119.0%		12	12		
SR261	Orange	113	313	290	177	156.4%	-23	-7.4%	12	13	13		
SR1	Orange	0	0	0	0		0						
SR39	Orange	274	0	0	-274	-100.0%	0		11				