# District 12 Mobility Performance Report

2020 2nd Quarter

#### DEPARTMENT OF TRANSPORTATION

August 31, 2020 District 12 Traffic Operations Northwest

## DISTRICT 12 MOBILITY PERFORMANCE REPORT

2020 2<sup>nd</sup> 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)
- 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 2<sup>nd</sup> quarter, of 2020, total delay equaled to 300,000 vehicle hours of delay (VHD) at the 35mph speed threshold and 1.5 million VHD at 60mph threshold. Compared to the first quarter, there was a -76.6 percent decrease in 35mph VHD and -66.1 percent decrease in 60mph VHD.

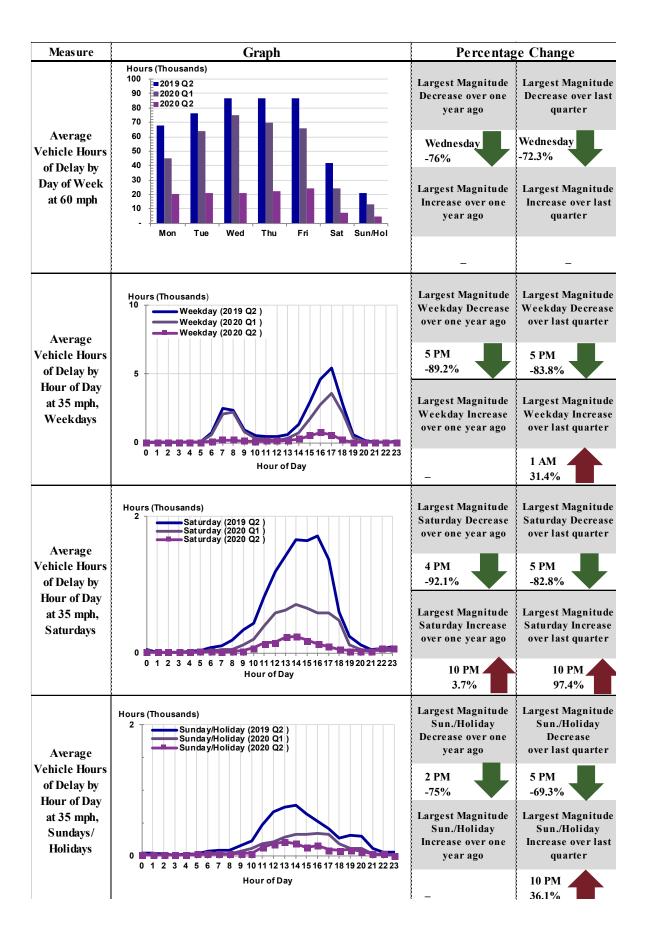
The average weekday VHD experienced in this quarter was approximately 4 thousands VHD at 35mph and 21 thousands VHD at 60mph. Compared to the third quarter, there was -79 percent decrease in 35 mph VHD and -66.8 percent decrease in 60 mph VHD.

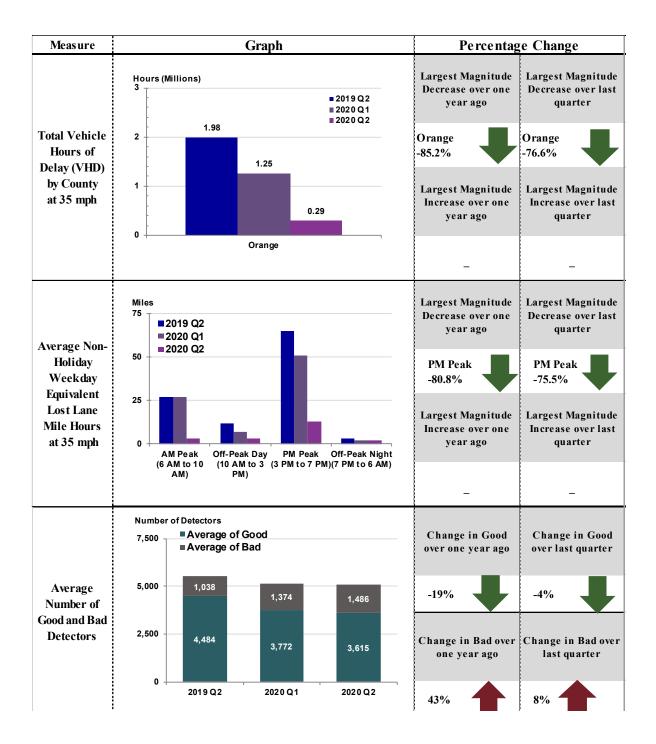
Top 10 Bottlenecks for the  $2^{nd}$  Quarter of 2020

Fwy	Name	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)		Total Duration (mins)
SR91-E	West OF GYPSUM	PM	34.14	R15.793	43	3.16	16,122	3,875
1405-N	BEACH 2	РМ	16.53	16.76	64	0.72	15,002	12,170
1405-S	GOLDEN WEST	AM	17.75	17.98	44	0.50	11,363	8,740
SR57-N	TONNER	РМ	11.27	22	29	1.17	10,226	5,515
SR91-E	WEIR CNYN2	РМ	32.99	R14.62	52	1.73	9,055	3,470
SR91-E	East OF WEIR	РМ	33.48	R15.11	39	2.49	5,192	1,905
SR55-S	SANTA CLARA	AM	12.28	12.3	17	0.50	4,521	3,355
15-N	GRAND 1	PM	103.85	31.6	64	0.20	4,281	12,580
1405-N	MAGNOLIA1	PM	14.94	15.17	45	0.31	4,022	8,255
15-S	LAKE FOR1	PM	92.00	19.8	32	0.36	3,979	5,705

# 2020 Q2 Quarterly Mobility Statistics







Congestion by Route													
		Vehicle Hours of Delay at 35 mph			Difference 2020 Q2-2019 Q2		Difference 2020 Q2-2020 Q1		Rank				
Route	County	2019 Q2	2020 Q1	2020 <b>Q</b> 2	Absolute	Percentage	Absolute	Percentage	2019 Q2	2020 Q1	2020 Q2		
SR91	Orange	293,981	222,665	88,481	-205,500	<b>-</b> 69.9%	-134,184	-60.3%	3	3	1		
I5	Orange	552,548	337,866	68,398	-484,150	-87.6%	-269,468	-79.8%	2	1	2		
I405	Orange	552,910	282,330	55,834	-497,076	-89.9%	-226,495	-80.2%	1	2	3		
SR55	Orange	206,833	138,704	26,055	-180,778	-87.4%	-112,649	-81.2%	4	4	4		
SR22	Orange	90,582	72,478	21,186	-69,396	-76.6%	-51,292	-70.8%	6	6	5		
SR57	Orange	137,414	98,455	18,998	-118,416	-86.2%	-79,457	-80.7%	5	5	6		
SR73	Orange	77,867	54,077	7,374	-70,492	-90.5%	-46,703	-86.4%	7	7	7		
SR241	Orange	33,931	27,753	4,874	-29,057	-85.6%	-22,878	-82.4%	8	8	8		
I605	Orange	18,875	6,001	1,172	-17,703	-93.8%	-4,828	-80.5%	9	9	9		
SR133	Orange	7,105	4,659	571	-6,534	-92.0%	-4,088	-87.7%	10	11	10		
SR74	Orange	3,717	5,523	500	-3,218	-86.6%	-5,024	-91.0%	11	10	11		
SR142	Orange	2,240	3,623	105	-2,136	-95.3%	-3,518	-97.1%	12	12	12		
SR261	Orange	194	786	40	-155	-79.6%	-747	-95.0%	13	13	13		
SR1	Orange	24	0	0	-24	-100.0%	0		14				
TOTALS		1,978,223	1,254,920	293,589	-1,684,634	-85.2%	-961,331	-76.6%					