District 12 Mobility Performance Report

2020 3rd Quarter

DEPARTMENT OF TRANSPORTATION

September 30, 2020 District 12 Traffic Operations Northwest

DISTRICT 12 MOBILITY PERFORMANCE REPORT

2020 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 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 3rd quarter, of 2020, total delay equaled to .5 million vehicle hours of delay (VHD) at the 35mph speed threshold and 2.5 million VHD at 60mph threshold. Compared to the second quarter, there was a 69.4 percent increase in 35mph VHD and 61.8 percent increase in 60mph VHD.

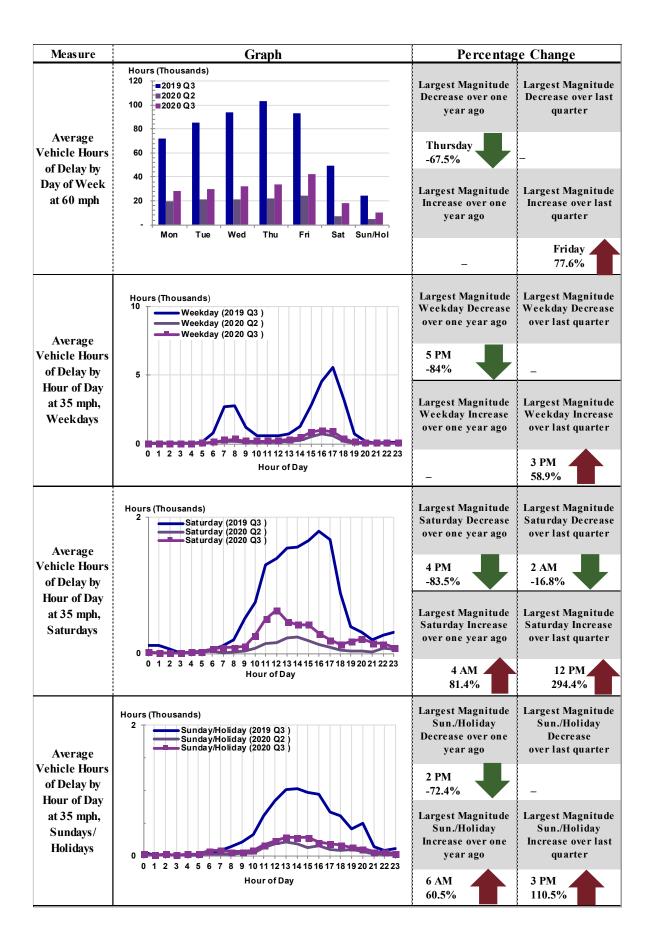
The average weekday VHD experienced in this quarter was approximately 6 thousands VHD at 35mph and 33 thousands VHD at 60mph. Compared to the second quarter, there was 60.6 percent increase in 35 mph VHD and 53 percent increase in 60 mph VHD.

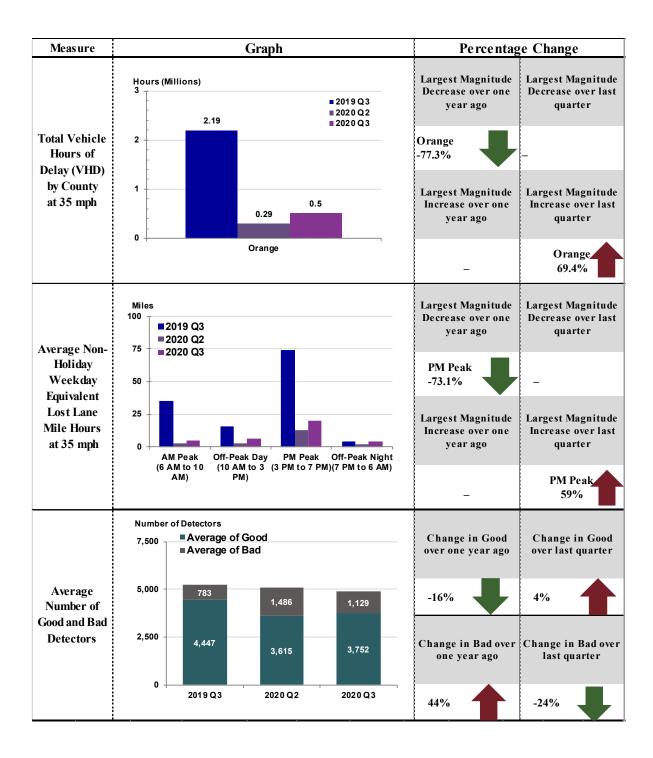
Top 10 Bottlenecks for the 3^{rd} Quarter of 2020

County	Shift	Fwy	Direction	Abs PM	CA PM	Latitude	Longitude	# Days Active	⊏xtent	_	Total Duration
									(Miles)	(veh-hrs)	(mins)
Ora	PM	1405	N	13.51	13.74	33.70	-117.95	40	1.83	16,926.90	4,085.00
Ora	PM	1405	N	16.53	16.76	33.73	-117.99	65	0.70	14,908.70	12,485.00
Ora	PM	SR91	Е	34.14	R15.793	33.87	-117.72	54	2.99	14,761.90	5,015.00
Ora	AM	I405	S	17.75	17.98	33.75	-118.01	47	0.50	12,363.60	9,545.00
Ora	PM	SR22	Е	10.50	R9.04	33.78	-117.90	63	0.64	11,641.10	10,080.00
Ora	PM	SR91	Е	32.99	R14.62	33.87	-117.74	60	1.73	11,160.70	5,985.00
Ora	AM	SR91	W	28.55	R10.14	33.85	-117.81	57	1.18	9,553.70	5,605.00
Ora	PM	SR91	W	28.55	R10.14	33.85	-117.81	52	0.87	6,849.30	4,420.00
Ora	PM	I405	N	15.16	15.39	33.72	-117.97	44	0.50	6,747.40	7,540.00
Ora	PM	SR55	N	8.12	R8.12	33.71	-117.85	56	1.56	6,662.70	3,600.00

2020 Q3 Quarterly Mobility Statistics







Congestion by Route											
		Vehicle Hours of Delay at 35 mph			Difference 2020 Q3-2019 Q3		Difference 2020 Q3-2020 Q2		Rank		
Route	County	2019 Q3	2020 Q2	2020 Q3	Absolute	Percentage	Absolute	Percentage	2019 Q3	2020 Q2	2020 Q3
SR91	Orange	334,208	88,481	147,772	-186,436	-55.8%	59,290	67.0%	3	1	1
I5	Orange	557,987	68,398	127,369	-430,618	-77.2%	58,971	86.2%	1	2	2
SR57	Orange	190,739	18,998	62,138	-128,602	-67.4%	43,139	227.1%	5	6	3
I405	Orange	536,417	55,834	59,778	-476,639	-88.9%	3,944	7.1%	2	3	4
SR55	Orange	304,896	26,055	43,058	-261,838	-85.9%	17,003	65.3%	4	4	5
SR22	Orange	105,698	21,186	33,397	-72,300	-68.4%	12,211	57.6%	6	5	6
SR73	Orange	95,162	7,374	15,031	-80,131	-84.2%	7,657	103.8%	7	7	7
SR241	Orange	33,745	4,874	3,925	-29,820	-88.4%	-950	-19.5%	8	8	8
SR133	Orange	5,012	571	2,233	-2,778	-55.4%	1,662	291.0%	10	10	9
I605	Orange	20,423	1,172	1,846	-18,577	-91.0%	674	57.5%	9	9	10
SR142	Orange	4,535	105	534	-4,000	-88.2%	430	410.2%	11	12	11
SR74	Orange	4,182	500	171	-4,011	-95.9%	-328	-65.7%	12	11	12
SR261	Orange	118	40	51	-67	-56.9%	11	28.0%	13	13	13
SR1	Orange	0	0	0	0		0				
TO	TOTALS		293,589	497,303	-1,695,817	-77.3%	203,715	69.4%			