District 12 Mobility Performance Report

2022 3rd Quarter

DEPARTMENT OF TRANSPORTATION

October 25, 2022 District 12 Traffic Operations Northwest

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 April 1, 2020, the total population in Orange County was 3,010,232. 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 sixthmost 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.

2022 3rd Quarter

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)
- 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 Mobility Performance Report 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 2022, total delay equaled to 1.4 million vehicle hours of delay (VHD) at the 35 MPH speed threshold and 5.0 million VHD at 60 MPH threshold. Compared to the previous quarter, there was a 3.2 percent decrease in 35 MPH VHD and 3.1 percent increase in 60 MPH VHD.

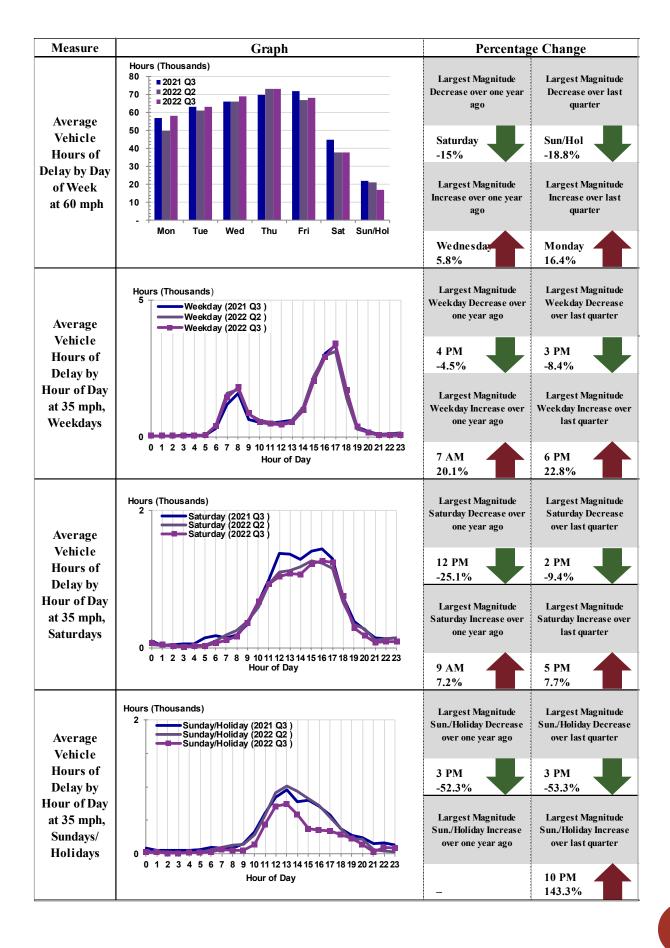
The average weekday VHD experienced in this quarter was approximately 18 thousand VHD at 35 MPH and 67 thousand VHD at 60 MPH. Compared to the previous quarter, there was 0.9 percent decrease in 35 MPH VHD and 4.5 percent increase in 60 mph VHD.

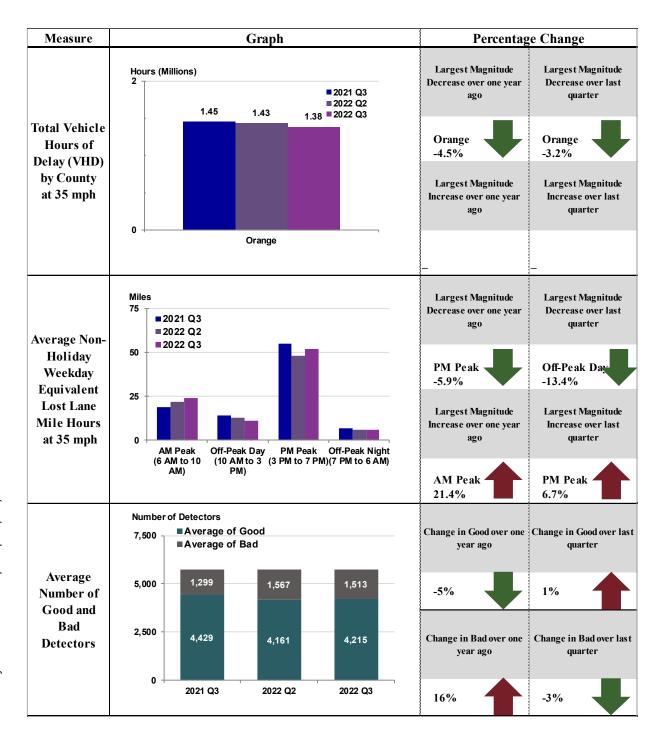
Top 10 Bottlenecks for the 3rd Quarter of 2022

									#	Avg	Total	Total
					Abs	CA			Days	Extent	Delay	Duration
Co	Shift	Fwy	DIR	Name	PM	PM	Latitude	Longitude	Active	(Miles)	(veh-hrs)	(mins)
Ora	PM	1405	Ν	LOCATION 5013 NB	12.89	13.122	33.70	-117.94	62	2.46	63,470	7620
Ora	PM	1405	N	BROOKHUR1	13.51	13.74	33.70	-117.95	50	3.19	51,594	5115
Ora	PM	SR57	Ν	TONNER	11.27	22	33.94	-117.88	63	1.41	49,929	16170
Ora	AM	15	S	MAIN 1	105.19	33	33.77	-117.87	63	0.61	25,927	11385
Ora	PM	15	N	YALE	98.06	R25.8	33.70	-117.77	63	1.95	23,477	13000
Ora	PM	SR91	E	LAKEVIEW1	28.45	R10.08	33.85	-117.81	63	2.69	22,632	9340
Ora	PM	15	S	RED ROBIN	91.53	19.33	33.62	-117.71	62	1.09	18,475	7485
Ora	PM	SR91	E	West OF GYPSUM	34.14	R15.793	33.87	-117.72	63	1.88	18,182	10805
Ora	AM	15	S	LA PALMA	113.17	40.98	33.85	-117.96	57	1.46	17,336	4735
Ora	PM	SR57	N	TONNER	11.27	22	33.94	-117.88	53	1.10	16,506	13345

2022 Q3 Quarterly Mobility Statistics

Measure	Graph	Percentage Change				
Vehicle Miles of	Miles (Billions) 2021 Q3 2022 Q2 2022 Q3 3.35	Over one year ago 2.4%	Over last quarter 2.1%			
Travel (VMT)	1 0	1	1			
Total Vehicle	Hours (Millions) 2 2021 Q3 2022 Q2 2022 Q3 1.4 1.4	Over one year ago	Over last quarter			
Hours of Delay (VHD) at 35 mph	1	-4.5%	-3.2%			
	0 Hours (Thousands)		•			
Average Non- Holiday Weekday	2021 Q3 2022 Q2 2022 Q3 18 18 18	Over one year ago	Over last quarter			
Vehicle Hours of Delay (VHD)	10 5	0.2%	-0.9%			
at 35 mph	Hours (Millions)		•			
Total Vehicle	5 2021 Q3 5 5.1 5 2022 Q3	Over one year ago	Over last quarter			
Hours of Delay (VHD) at 60 mph	5 5 2022 Q2 4.9	-2.4%	3.1%			
	5 5		1			
Average Non- Holiday Weekday	Hours (Thousands) 68 67 2022 Q3 67	Over one year ago	Over last quarter			
Vehicle Hours of	66 65 2022 Q2 64	0.9%	4.5%			
Delay (VHD) at 60 mph	63					





	Congestion by Route											
		Vehicl	e Hours of at 35 mph	•	Difference 2022 Q3-2021 Q3			erence 3-2022 Q2	Rank			
Route	County	2021 Q3	2022 Q2	2022 Q3	Absolute	Percentage	Absolute	Percentage	2021 Q3	2022 Q2	2022 Q3	
I5	Orange	502,288	456,073	346,018	-156,270	-31.1%	-110,055	-24.1%	1	1	1	
SR91	Orange	314,623	292,077	335,081	20,458	6.5%	43,004	14.7%	2	2	2	
I405	Orange	246,875	236,682	238,732	-8,143	-3.3%	2,050	0.9%	3	3	3	
SR55	Orange	164,171	181,798	204,207	40,036	24.4%	22,409	12.3%	4	4	4	
SR57	Orange	111,640	151,408	177,928	66,288	59.4%	26,520	17.5%	5	5	5	
SR22	Orange	44,701	70,513	46,605	1,903	4.3%	-23,909	-33.9%	6	6	6	
SR241	Orange	18,013	16,936	13,629	-4,384	-24.3%	-3,307	-19.5%	8	7	7	
SR73	Orange	34,415	12,807	11,176	-23,239	-67.5%	-1,631	-12.7%	7	8	8	
I605	Orange	4,547	5,311	3,645	-903	-19.9%	-1,667	-31.4%	9	9	9	
SR133	Orange	1,841	2,163	3,604	1,763	95.8%	1,441	66.6%	11	10	10	
SR261	Orange	132	28	162	30	22.6%	134	477.9%	13	13	11	
SR142	Orange	803	722	64	-740	-92.1%	-658	-91.2%	12	11	12	
SR74	Orange	2,344	298	5	-2,339	-99.8%	-293	-98.3%	10	12	13	
SR1	Orange	0	0	0	0		0					
TOT	TOTALS		1,426,816	1,380,853	-65,541	-4.5%	-45,962	-3.2%				