District 12 Mobility Performance Report

2023 4th Quarter

DEPARTMENT OF TRANSPORTATION

January 31, 2024 District 12 Traffic Operations Northwest

DISTRICT 12

2023 4th Quarter

EXECUTIVE SUMMARY

Overview

Caltrans District 12 (Orange County) is located in southern California and is adjacent to 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. Orange County encompasses 794 square miles, and includes 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 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 4th quarter of 2023, total delay equaled to 1.7 million vehicle hours of delay (VHD) at the 35 MPH speed threshold and 5.4 million VHD at 60 MPH threshold. Compared to the previous quarter, there was a 32.4 percent increase in 35 MPH VHD and 25.3 percent increase in 60 MPH VHD.

The average weekday VHD experienced in this quarter was approximately 23 thousand VHD at 35 MPH and 73 thousand VHD at 60 MPH. Compared to the previous quarter, there was 37.4 percent increase in 35 MPH VHD and 29.8 percent increase in 60 mph VHD.

					Abs	СА			# Davs	Avg Extent	Total Delav	Total Duration
Со	Shift	Fwy	Dir	Name	PM	PM	Latitude	Longitude	Active	(Miles)	(veh-hrs)	(mins)
Ora	PM	SR57	Ν	TONNER	11.27	22	33.94	-117.88	63	1.47	56,422	16,570
Ora	PM	I405	Ν	BROOKHUR2	13.74	13.97	33.71	-117.96	62	1.71	44,062	12,995
Ora	AM	15	S	MAIN 1	105.19	33	33.77	-117.87	58	1.33	40,883	10,310
Ora	PM	SR55	Ν	TAFT	15.78	15.8	33.82	-117.83	56	3.10	36,964	12,160
Ora	PM	SR91	Е	MIDPOINT	31.14	R12.762	33.86	-117.77	52	3.65	28,462	8,095
Ora	PM	SR55	Ν	Edinger OR MVDS	9.19	R9.19	33.72	-117.84	51	1.86	27,291	7,550
Ora	PM	15	Ν	RED HILL	101.49	29.24	33.73	-117.82	63	2.21	24,057	14,025
Ora	PM	15	Ν	CULVER 1	98.82	R26.56	33.71	-117.78	57	2.00	22,468	11,670
Ora	PM	SR55	Ν	N-O E WARNER MVDS	8.56	R8.563	33.72	-117.84	50	2.08	19,851	4,580
Ora	AM	15	S	LA PALMA	113.17	40.98	33.85	-117.96	50	1.28	19,396	4,790

Top 10 Bottlenecks for the 4th Quarter of 2023



2023 Q4 Quarterly Mobility Statistics

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		Vehicle	e Hours of	Delay	Diff	erence	Diff	erence				
			at 35 mph	ı Ź	2023 Q	4-2022 Q4	2023 Q	4-2023 Q3	Rank			
Route	County	2022 Q4	2023 Q3	2023 Q4	Absolute	Percentage	Absolute	Percentage	2022 Q4	2023 Q3	2023 Q4	
15	Orange	400,152	311,771	424,171	24,019	6.0%	112,401	36.1%	1	2	1	
I405	Orange	259,005	352,817	395,101	136,096	52.5%	42,284	12.0%	3	1	2	
SR91	Orange	323,632	189,339	335,903	12,270	3.8%	146,563	77.4%	2	4	3	
SR55	Orange	183,047	226,201	218,522	35,475	19.4%	-7,678	-3.4%	5	3	4	
SR57	Orange	204,941	147,799	193,305	-11,636	-5.7%	45,506	30.8%	4	5	5	
SR22	Orange	56,903	22,738	78,028	21,125	37.1%	55,290	243.2%	6	6	6	
I605	Orange	5,605	16,983	27,056	21,452	382.7%	10,073	59.3%	9	7	7	
SR241	Orange	21,649	16,088	22,686	1,038	4.8%	6,599	41.0%	7	8	8	
SR73	Orange	13,752	8,232	18,697	4,945	36.0%	10,464	127.1%	8	9	9	
SR133	Orange	1,473	2,842	1,343	-130	-8.8%	-1,499	-52.7%	10	10	10	
SR261	Orange	115	241	158	43	37.6%	-83	-34.5%	11	11	11	
SR74	Orange	5	5	5	0	0.0%	0	0.0%	12	12	12	
SR142	Orange	3	3	3	0	0.0%	0	0.0%	13	13	13	
SR1	Orange	0	0	0	0		0					
TOTALS		1,470,281	1,295,059	1,714,979	244,698	16.6%	419,920	32.4%				