District 12 Mobility Performance Report

2024 2nd Quarter

DEPARTMENT OF TRANSPORTATION

July 31, 2024 District 12 Traffic Operations Northwest

2024 2nd 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 1st guarter of 2024, total delay equaled to 1.5 million vehicle hours of delay (VHD) at the 35 MPH speed threshold and 5 million VHD at 60 MPH threshold. Compared to the previous quarter, there was a 2.5 percent increase in 35 MPH VHD and 0.3 percent decrease in 60 MPH VHD.

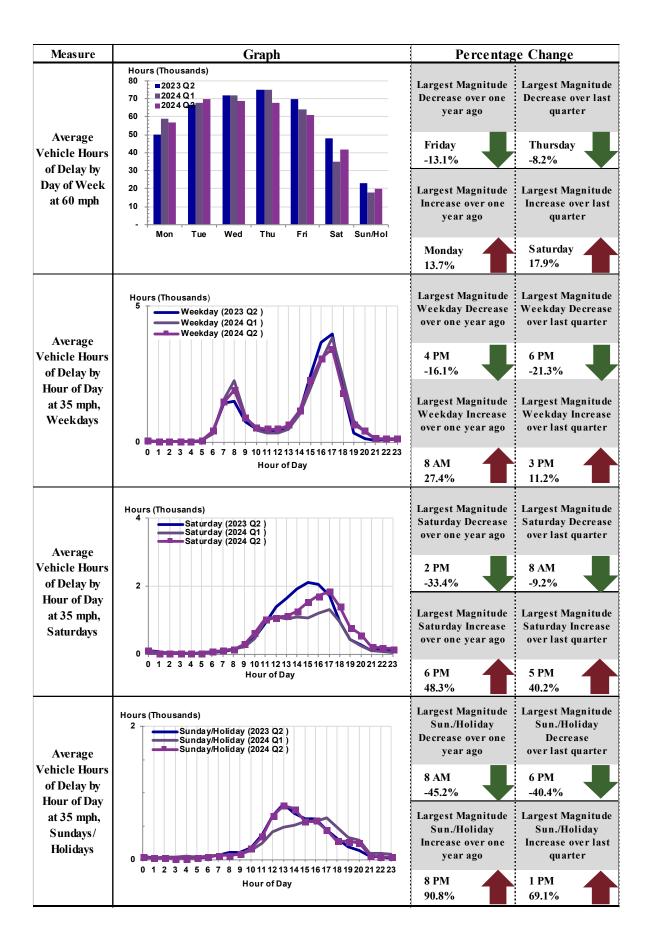
The average weekday VHD experienced in this quarter was approximately 20 thousand VHD at 35 MPH and 65 thousand VHD at 60 MPH. Compared to the previous quarter, there was 2.4 percent decrease in 35 MPH VHD and 3.8 percent decrease in 60 mph VHD.

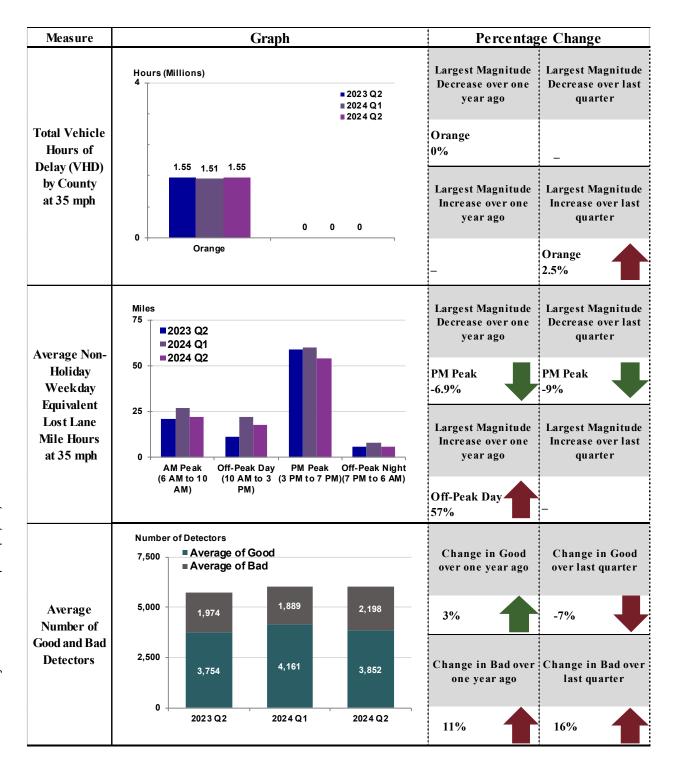
Top 10 Bottlenecks for the 2nd Quarter of 2024

									#	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	SR55	Ν	TAFT	15.78	15.8	33.82	-117.83	62	3.07	42,223	12,540
Ora	PM	1405	Ν	BROOKHUR2	13.74	13.97	33.71	-117.96	63	1.62	32,929	12,655
Ora	PM	SR57	Ν	TONNER	11.27	22	33.94	-117.88	50	1.39	32,531	9,290
Ora	PM	15	Ν	CULVER 1	98.82	R26.56	33.71	-117.78	63	2.47	30,134	14,115
Ora	AM	15	S	MAIN 1	105.19	33	33.77	-117.87	63	0.99	28,254	10,155
Ora	PM	SR55	Ν	DYER 2	8.12	R8.12	33.71	-117.85	63	1.91	26,314	6,280
Ora	PM	15	Ν	ALICIA 1	89.69	17.43	33.60	-117.69	30	2.75	22,694	5,755
Ora	AM	15	Ν	ALICIA 1	89.69	17.43	33.60	-117.69	34	2.70	21,674	4,490
Ora	PM	SR55	Ν	N-O E WARNER MVDS	8.56	R8.563	33.72	-117.84	59	2.11	19,692	4,180
Ora	PM	I405	Ν	OLD RANCH PKWY	22.43	22.659	33.77	-118.08	60	0.82	19,617	7,910

2024 Q2 Quarterly Mobility Statistics

Measure	Graph	Percentage Change			
	Miles (Billions) 6 2023 Q2 2024 Q1 2024 Q2	Over one year ago	Over last quarter		
Vehicle Miles of Travel (VMT)	3.38 2024 Q1 2024 Q2 3.34	-1.2%	3.7%		
	O Llaura (Milliana)		_		
Total Vehicle	Hours (Millions) 2 2023 Q2 2024 Q1 2024 Q2 1.5 1.5	Over one year ago	Over last quarter		
Hours of Delay (VHD)	1 1 1	0%	2.5%		
at 35 mph	0 0 0		1		
Average Non- Holiday	Hours (Thousands) 25 2023 Q2 2024 Q1 2024 Q2 21 20	Over one year ago	Over last quarter		
Weekday Vehicle Hours of Delay	15	1.6%	-2.4%		
(VHD) at 35 mph	5 0	1	1		
Total Vehicle	Hours (Millions)	Over one year ago	Over last quarter		
Hours of Delay (VHD)	2023 Q2 2024 Q1 2024 Q2 5.2 5	-5.3%	-0.3%		
at 60 mph	0	1	1		
Average Non- Holiday	Hours (Thousands) 100 2023 Q2 2024 Q1 2024 Q2	Over one year ago	Over last quarter		
Weekday Vehicle Hours of Delay	67 68 65	-2.4%	-3.8%		
(VHD) at 60 mph		1	1		





Congestion by Route

Difference

2024 Q2-2024 Q1

13.8%

-21.2%

18.4%

47.5%

-23.9%

38.2%

30.1%

-11.5%

-0.1%

998.2%

-66.6%

0.0%

0.0%

2.5%

2024 Q1 | 2024 Q2 | Absolute | Percentage | Absolute | Percentage | 2023 Q2 | 2024 Q1 | 2024 Q2

47,812

-85,302

39,985

75,783

-66,936

23,206

4,676

-1,809

727

-969

0

0

37,166

Rank

1

4

5

3

6

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7

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13

Difference

2024 Q2-2023 Q2

-6.9%

11.4%

7.2%

38.1%

-39.3%

140.8%

128.7%

55.3%

-59.0%

5.3%

71.6%

0.0%

0.0%

0.0%

-29,245

32,355

17,364

64,927

49,124

11,388

4,971

-13,618

41

203

0

0

0

-409

-137,918

Vehicle Hours of Delay

at 35 mph

346,063

402,228

217,800

159,496

280,152

60,819

15,560

15,760

9,480

1,455

73

3

0

1,546,468 1,508,893 1,546,059

393,874

316,926

257,785

235,279

213,216

84,025

20,236

13,952

9,474

800

486

Route County 2023 Q2

Orange

SR261 Orange

SR133 Orange

SR142 Orange

TOTALS

423,119

284,571

240,421

170,352

351,134

34,900

8,848

8,981

23,092

759

283

3

0

15

I405

SR55

SR57

SR91

SR22

I605

SR73

SR241

SR74

SR1

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