District 12 Mobility Performance Report

2023 2nd Quarter

DEPARTMENT OF TRANSPORTATION

September 14, 2023 District 12 Traffic Operations Northwest

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.

2023 2nd Ouarter

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 2nd quarter of 2023, total delay equaled to 1.5 million vehicle hours of delay (VHD) at the 35 MPH speed threshold and 5.2 million VHD at 60 MPH threshold. Compared to the previous quarter, there was a 1.1 percent decrease in 35 MPH VHD and 4.3 percent decrease in 60 MPH VHD.

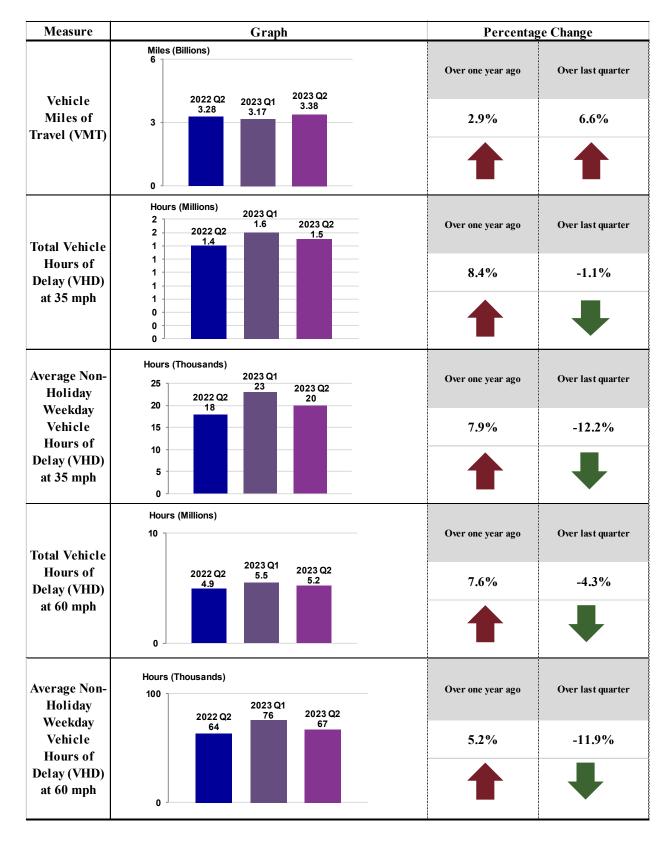
The average weekday VHD experienced in this quarter was approximately 20 thousand VHD at 35 MPH and 67 thousand VHD at 60 MPH. Compared to the previous quarter, there was 12.2 percent decrease in 35 MPH VHD and 11.9 percent decrease in 60 mph VHD.

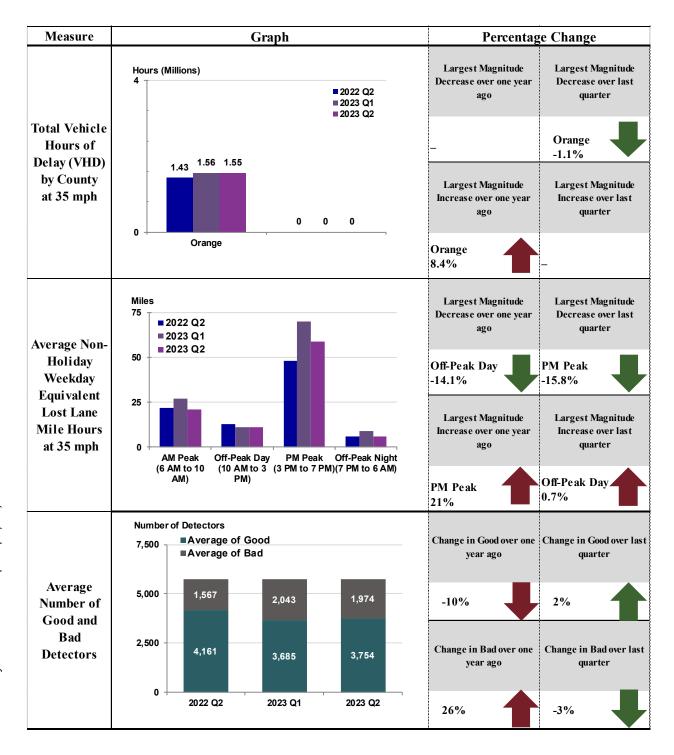
Top 10 Bottlenecks for the 2nd Quarter of 2023

									#	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	64	2.85	94,720	9,615
Ora	PM	1405	Ν	TMS 2417 NB	20.81	21.039	33.77	-118.05	64	2.79	87,610	14,275
Ora	PM	SR57	Ν	TONNER	11.27	22	33.94	-117.88	64	1.56	57,364	14,630
Ora	PM	SR91	Ε	LAKEVIEW1	28.45	R10.08	33.85	-117.81	58	3.06	38,270	10,845
Ora	PM	SR55	Ν	TAFT	15.78	15.8	33.82	-117.83	61	3.11	37,043	11,680
Ora	AM	15	S	MAIN 1	105.19	33	33.77	-117.87	63	0.86	27,942	11,515
Ora	PM	15	Ν	RED HILL	101.49	29.24	33.73	-117.82	64	2.07	24,395	15,590
Ora	PM	15	Ν	1ST	103.05	30.8	33.74	-117.84	60	0.47	23,285	9,795
Ora	PM	15	Ν	CULVER 1	98.82	R26.56	33.71	-117.78	41	1.97	19,119	8,825
Ora	PM	SR91	Е	W OF SCALES	31.72	R13.349	33.87	-117.76	49	3.50	18,283	5,815

2023 Q2 Quarterly Mobility Statistics

Measure	Graph	Percentage Change			
	Miles (Billions)	Over one year ago	Over last quarter		
Vehicle Miles of Travel (VMT)	2022 Q2 3.28 2023 Q1 3.17 2023 Q2 3.38	2.9%	6.6%		
	0	1	1		
Total Vehicle	Hours (Millions) 2023 Q1 2 2022 Q2 1.6 2023 Q2 1.4 1.5	Over one year ago	Over last quarter		
Hours of Delay (VHD) at 35 mph	1 1 1 1	8.4%	-1.1%		
	0 0 0	1	•		
Average Non- Holiday Weekday	Hours (Thousands) 2023 Q1 25 2022 Q2 20 18	Over one year ago	Over last quarter		
Vehicle Hours of Delay (VHD)	15	7.9%	-12.2%		
at 35 mph	5	1	•		
Total Vehicle	Hours (Millions)	Over one year ago	Over last quarter		
Hours of Delay (VHD) at 60 mph	2022 Q2 5.5 2023 Q2 4.9 5.5 5.2	7.6%	-4.3%		
	0	1	•		
Average Non- Holiday	Hours (Thousands) 100 2023 Q1 2022 Q2 76 2023 Q2	Over one year ago	Over last quarter		
Weekday Vehicle Hours of	64	5.2%	-11.9%		
Delay (VHD) at 60 mph	0		•		





Congestion by Route

Difference

2023 Q2-2022 Q2

Absolute Percentage

<u>-7</u>.2%

20.2%

20.2%

32.2%

12.5%

-50.5%

36.4%

-29.9%

66.6%

2610.7%

-86.9%

-98.3%

-99.6%

8.4%

-32,954

59,057

47,889

58,623

18,944

-35,613

6,156

-3,826

3,537

-1,880

731

-293

-719

119,653

0

Difference

2023 Q2-2023 Q1

2,483

-29,509

-18,458

46,296

-27,474

2,994

6,665

-540

-755

0

0

0

-17,624

574

100

0.6%

-7.8%

-6.1%

23.8%

0.1%

-44.0%

14.9%

6.8%

305.3%

-41.6%

-72.7%

0.0%

0.0%

-1.1%

Rank

1

2

3

4

5

6

7

8

9

10

11

12

13

1

2

3

4

5

6

7

8

9

10

11

12

13

Absolute Percentage 2022 Q2 2023 Q1 2023 Q2

1

2

3

4

5

6

7

8

9

13

10

12

11

Vehicle Hours of Delay

at 35 mph

2023 Q1

420,637

380,644

303,029

194,124

170,253

62,374

20,098

8,407

2,183

1,299

1,038

1,426,816 1,564,092 1,546,468

5

0

2023 Q2

423,119

351,134

284,571

240,421

170,352

34,900

23,092

8,981

8,848

759

283

5

0

2022 Q2

456,073

292,077

236,682

181,798

151,408

70,513

16,936

12,807

5,311

2,163

28

298

722

0

County

Orange

TOTALS

Route

SR91

I405

SR55

SR57

SR22

SR241

SR73

I605

SR261

SR133

SR74

SR142

SR1

I5

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