# District 12 Mobility Performance Report

2022 2<sup>nd</sup> Quarter

#### **DEPARTMENT OF TRANSPORTATION**

July 31, 2022 District 12 Traffic Operations Northwest

2022 2<sup>nd</sup> 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 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.

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 2<sup>nd</sup> quarter of 2022, total delay equaled to 1.4 million vehicle hours of delay (VHD) at the 35 MPH speed threshold and 4.9 million VHD at 60 MPH threshold. Compared to the previous quarter, there was a 22.2 percent increase in 35 MPH VHD and 14.6 percent increase in 60 MPH VHD.

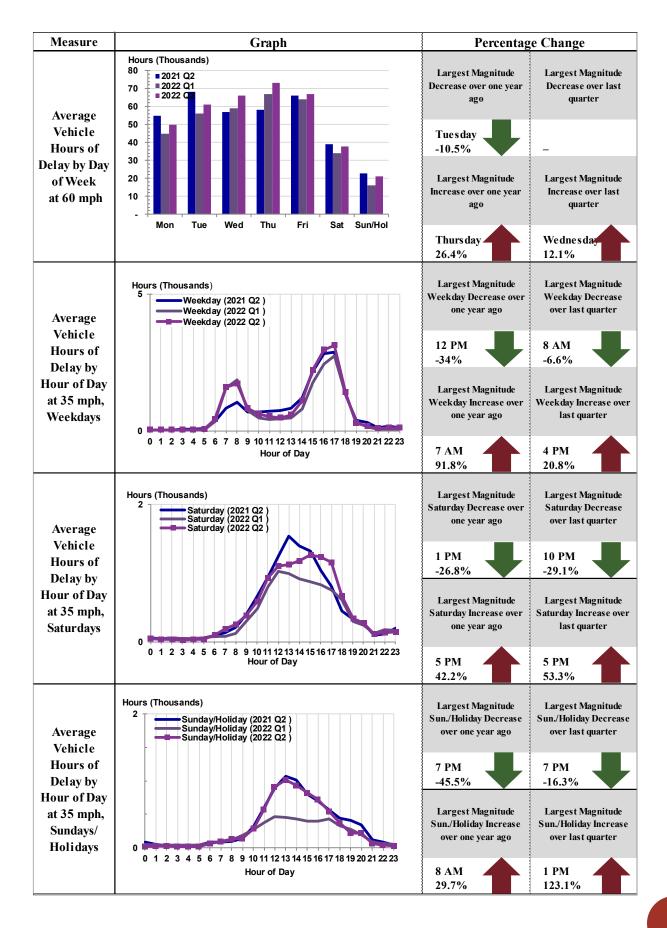
The average weekday VHD experienced in this quarter was approximately 18 thousand VHD at 35 MPH and 64 thousand VHD at 60 MPH. Compared to the previous quarter, there was 15.1 percent increase in 35 MPH VHD and 9 percent increase in 60 mph VHD.

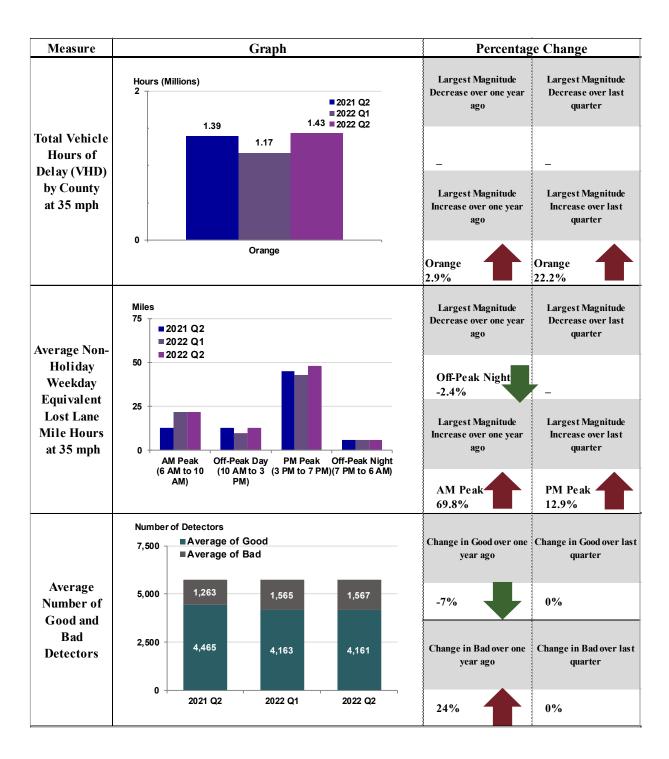
Top 10 Bottlenecks for the 2<sup>nd</sup> Quarter of 2022

									#	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	2.54	63,476.8	6,980
Ora	AM	1405	S	BROOKHURST2	13.58	13.81	33.71	-117.95	50	3.70	37,815.8	5,765
Ora	PM	1405	N	BROOKHUR1	13.51	13.74	33.70	-117.95	40	3.08	32,300.5	3,515
Ora	PM	SR57	Ν	TONNER	11.27	22	33.94	-117.88	52	1.30	32,113.3	9,510
Ora	PM	SR91	Ε	LAKEVIEW1	28.45	R10.08	33.85	-117.81	63	2.81	25,955.8	9,945
Ora	PM	15	N	TUSTIN RANCH	100.35	28.1	33.72	-117.80	64	1.97	24,821.0	15,370
Ora	AM	15	S	MAIN 1	105.19	33	33.77	-117.87	63	0.60	23,508.7	10,980
Ora	PM	SR91	Е	W OF SCALES	31.72	R13.349	33.87	-117.76	51	3.27	23,102.6	7,245
Ora	PM	1405	N	MAGNOLIA2	15.16	15.39	33.72	-117.97	29	1.93	19,588.7	4,205
Ora	PM	1405	N	BEACH 2	16.53	16.76	33.73	-117.99	63	0.93	18,167.6	10,155

## 2022 Q2 Quarterly Mobility Statistics

Measure	Graph	Percentage Change			
Vehicle	Miles (Billions)  2021 Q2 2022 Q1 3.17 3.11	Over one year ago			
Miles of Travel (VMT)	2	3.5% 5.5%			
	1 0				
	Hours (Millions)				
Total Vehicle	2021 Q2 2021 Q2 1.4 2022 Q1 1.4	Over one year ago Over last quarter			
Hours of Delay (VHD)	1.2	2.9% 22.2%			
at 35 mph					
Average Non- Holiday	Hours (Thousands) 20 2021 Q2 2022 Q2 18 2022 Q1 18 16	Over one year ago			
Weekday	15				
Vehicle Hours of	10	4.7% 15.1%			
Delay (VHD) at 35 mph	5				
Total Vehicle	Hours (Millions)  5 2022 Q2 4.9 5 4.9	Over one year ago			
Hours of Delay (VHD)	5	2.4% 14.6%			
at 60 mph	4 4 4				
Average Non- Holiday	Hours (Thousands)  66 64 2022 Q2 64	Over one year ago			
Weekday Vehicle Hours of	62 61 60 2022 Q1	4.2% 9%			
Delay (VHD) at 60 mph	58 56 54	1			





Congestion by Route

**Difference** 

2022 Q2-2022 Q1

72,053

74,306

33,729

53,387

39,425

-17,382

2,896

-1,956

1,558

1,368

-342

-159

-23

258,858

0

Absolute Percentage Absolute Percentage 2021 Q2 2022 Q1 2022 Q2

18.8%

34.1%

16.6%

41.6%

35.2%

-19.8%

20.6%

-13.2%

41.5%

172.1%

-32.2%

-34.8%

-45.4%

22.2%

Rank

2

3

4

5

6

8

7

9

11

10

12

13

2

3

4

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6

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8

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12

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13

**Difference** 

2022 Q2-2021 Q2

-9.4%

-13.6%

38.2%

22.3%

45.9%

78.4%

50.5%

-76.6%

-2.7%

-73.4%

-26.0%

-81.1%

25.0%

2.9%

-47,260

-46,063

65,396

33,130

47,648

30,991

5,679

-146

-254

0

-5,982

-1,281

40,042

-41,822

**Vehicle Hours of Delay** 

at 35 mph

384,020

217,771

202,954

128,411

111,983

87,896

14,040

14,763

3,753

1,063

1,386,774 1,167,957 1,426,816

795

457

51

0

2022 Q1 2022 Q2

456,073

292,077

236,682

181,798

151,408

70,513

16,936

12,807

5,311

2,163

722

298

28

0

2021 Q2

503,334

338,140

171,286

148,668

103,760

39,523

11,257

54,629

5,457

8,145

975

1.579

22

0

Route County

Orange

I5

SR91

I405

SR55

SR57

SR22

SR24

SR73

I605

SR13

SR142

SR74

SR26

SR1

**TOTALS** 

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