# District 12 Mobility Performance Report

2022 4th Quarter

### **DEPARTMENT OF TRANSPORTATION**

February 13, 2023 District 12 Traffic Operations Northwest

## 2022 4th 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 4<sup>th</sup> quarter of 2022, total delay equaled to 1.5 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 6.5 percent increase in 35 MPH VHD and 1 percent decrease in 60 MPH VHD.

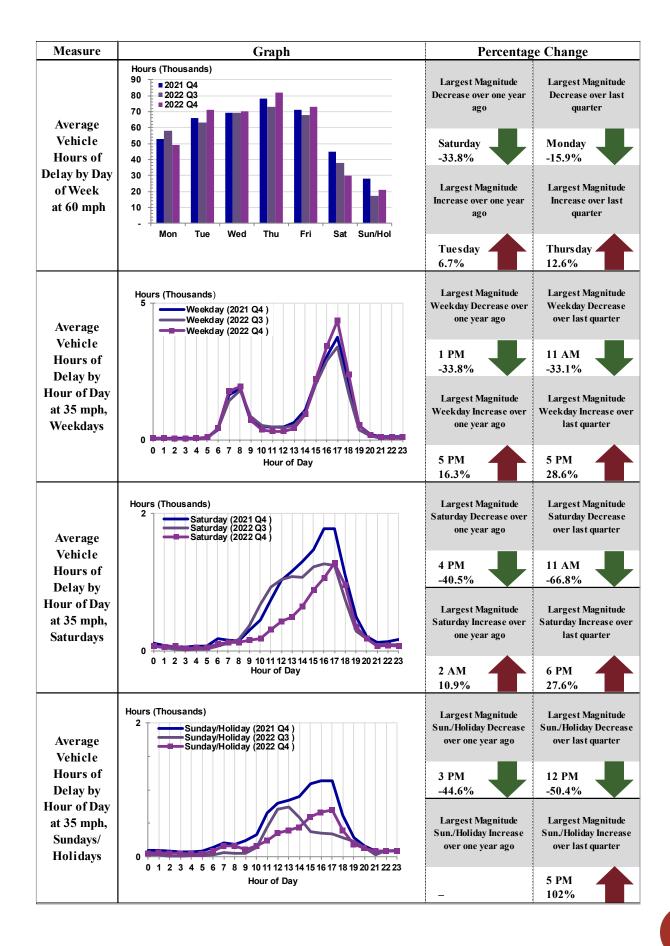
The average weekday VHD experienced in this quarter was approximately 21 thousand VHD at 35 MPH and 69 thousand VHD at 60 MPH. Compared to the previous quarter, there was 14.4 percent increase in 35 MPH VHD and 3.3 percent increase in 60 mph VHD.

Top 10 Bottlenecks for the 4th 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	56	2.97	81,086.60	7,735.00
Ora	PM	SR57	Ν	TONNER	11.27	22	33.94	-117.88	61	1.64	69,372.40	16,605.00
Ora	PM	1405	Ν	BROOKHUR1	13.51	13.74	33.70	-117.95	47	3.54	45,244.80	4,065.00
Ora	PM	SR91	Е	LAKEVIEW1	28.45	R10.08	33.85	-117.81	59	3.19	36,292.40	10,670.00
Ora	PM	15	Ν	1ST	103.05	30.8	33.74	-117.84	60	0.40	34,901.90	15,545.00
Ora	AM	1405	S	BROOKHURST2	13.58	13.81	33.71	-117.95	50	4.51	34,164.80	5,030.00
Ora	AM	15	S	MAIN 1	105.19	33	33.77	-117.87	55	0.65	26,138.80	8,945.00
Ora	PM	SR55	Ν	TAFT	15.78	15.8	33.82	-117.83	56	2.98	25,228.60	10,025.00
Ora	PM	SR91	Е	West OF GYPSUM	34.14	R15.793	33.87	-117.72	61	2.05	24,204.70	11,770.00
Ora	PM	15	S	RED ROBIN	91.53	19.33	33.62	-117.71	62	1.09	23,100.10	8,815.00

# 2022 Q4 Quarterly Mobility Statistics

Measure	Graph	Percentage Change			
Vehicle	Miles (Billions)  4 2021 Q4 2022 Q3 2022 Q4 3.21 3.35 3.27	Over one year ago Over last quarter			
Miles of Travel (VMT)	2	1.9% -2.4%			
	1	<b>1</b>			
	Hours (Millions)				
Total Vehicle	2 2021 Q4 1.6 2022 Q3 2022 Q4 1.4 1.5	Over one year ago Over last quarter			
Hours of Delay (VHD)	1	-7.5% 6.5%			
at 35 mph					
Average Non- Holiday	Hours (Thousands)  25 2021 Q4 20 2022 Q3 21 18	Over one year ago			
Weekday Vehicle Hours of	15	3.4% 14.4%			
Delay (VHD) at 35 mph	5				
Total Vehicle	Hours (Millions)  5 2021 Q4 5 5.2	Over one year ago Over last quarter			
Hours of Delay (VHD)	5 - 2022 Q3 2022 Q4	-5.3% -1%			
at 60 mph	5 5 5	<b>4 4</b>			
Average Non- Holiday Weekday	Hours (Thousands)  70 2022 Q4  69 69	Over one year ago Over last quarter			
Vehicle Hours of	69 68 2021 Q4 2022 Q3	2.5% 3.3%			
Delay (VHD) at 60 mph	67 67 66				





Congestion by Route

Difference

2022 Q4-2022 Q3

15.6%

-3.4%

8.5%

15.2%

-10.4%

22.1%

58.8%

23.1%

53.8%

-59.1%

-29.0%

-95.9%

6.5%

0.0%

2022 Q3 | 2022 Q4 | Absolute | Percentage | Absolute | Percentage | 2021 Q4 | 2022 Q3 | 2022 Q4

54,134

-11,449

20,273

27,013

-21,160

10,298

8,020

2,577

1,960

-2,131

-47

-61

89,428

0

0

Rank

1

2

3

5

4

6

8

7

9

10

13

11

12

1

2

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6

7

8

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13

12

1

2

3

4

5

6

7

9

10

11

12

13

Difference

2022 Q4-2021 Q4

-24.1%

3.2%

-5.4%

35.8%

20.1%

-41.8%

-18.9%

-58.0%

-16.6%

-65.2%

-84.3%

-99.8%

-99.7%

-7.5%

-127,236

10,167

-14,838

54,021

30,668

-40,862

-5,034

-19,023

-1,118

-2,766

-2,119

-119,616

-617

-859

0

Vehicle Hours of Delay

at 35 mph

346,018

335,081

238,732

177,928

204,207

46,605

13,629

11,176

3,645

3,604

162

5

64

1,589,897 1,380,853 1,470,281

0

400,152

323,632

259,005

204,941

183,047

56,903

21,649

13,752

5,605

1,473

115

5

3

0

Route

SR91

I405

SR57

SR55

SR22

SR241

SR73

I605

SR133

SR261

SR74

SR1

SR142

TOTALS

I5

County 2021 Q4

Orange

527,388

313,466

273,842

150,920

152,379

97,765

26,683

32,775

6,723

4,239

2,124

732

861

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