

District 11 Mobility Performance Report

2022 First Quarter

DEPARTMENT OF TRANSPORTATION

April 25, 2022

: District 11- Traffic System Performance

District 11 Mobility Performance Report

2022 First Quarter

EXECUTIVE SUMMARY

Overview

Caltrans District 11 consists of both the Imperial and San Diego counties, with San Diego having a population of approximately 3,286,069 residents and Imperial County with approximately 179,851 residents. Although, District 11 is composed of these two counties, Imperial County does not report any performance data due to less population.

The Mobility Performance quarterly analysis compares traffic information with the information collected in the same quarter over a year ago. In addition, it compares traffic information with its preceding quarter. The following parameters are used to show the performance measures of the area freeways:

- Vehicle Miles of Travel (VMT)
- Vehicle Hours of Delay (VHD), Bottleneck Locations
- Lost Lane Miles (equivalent lost productivity)
- 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 MPR presents congestion information at two speed thresholds: delay from vehicles traveling below 35 miles per hour (mph), and delay from vehicles traveling below 60 mph. The delay at the 35 mph threshold represents severe congestion while delay at 60 mph represents total congestion. These thresholds are set by Caltrans and are based upon engineering experience and District input.

FINDINGS

In the first quarter of 2022, total delay equaled 1.7 million vehicle hours of delay (VHD) at the 35 mph speed threshold, and 4.1 million VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 24 thousand VHD at 35 mph, and 58 thousand VHD at 60 mph.

Top Ten Bottlenecks for the 2022 First Quarter:

County	Shift	Fwy	Direction	Name	Abs PM	CA PM	Latitude	Longitude	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
San Diego	PM	I805-S	S	805 SB N-O I-15	15.23	15.38	32.74	-117.12	53	6.24	182,990.30	10,220.00
San Diego	PM	SR78-E	E	Twin Oaks Villy Rd to 78 EB	12.98	12.988	33.14	-117.16	62	3.96	73,799.80	9,855.00
San Diego	PM	I5-S	S	5 SB N-O Camino de la Plaza	0.22	0.31	32.54	-117.03	62	0.76	58,590.80	15,500.00
San Diego	PM	SR125-S	S	Grossmont Blvd to 125 SB	1.83	0	32.59	-116.97	59	1.97	66,247.40	7,500.00
San Diego	PM	I5-N	N	Cannon Rd to 5 NB	48.00	48.104	33.14	-117.33	60	2.42	51,000.60	9,295.00
San Diego	PM	I15-S	S	Balboa Ave WB to 15 SB	9.37	9.195	32.82	-117.12	61	2.02	42,314.10	7,150.00
San Diego	PM	I5-S	S	5th Ave to 5 SB	16.00	16.11	32.72	-117.16	36	2.81	35,103.00	3,475.00
San Diego	PM	I5-S	S	5 SB N-O 8th St	7.82	7.91	32.63	-117.10	47	1.79	33,627.50	5,795.00
San Diego	PM	I5-S	S	Oceanside Blvd to 5 SB	52.27	52.407	33.19	-117.36	25	3.52	32,619.70	2,660.00
San Diego	PM	SR52-E	E	52 EB 0.5 Mi E-O I-15	7.84	7.84	32.84	-117.11	45	3.04	30,388.40	5,705.00

Quarterly Mobility Statistics

Measure	Graph	Percentage Change									
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Quarter</th><th>VMT (Billions)</th></tr> <tr><td>2021 Q1</td><td>2.99</td></tr> <tr><td>2021 Q4</td><td>3.48</td></tr> <tr><td>2022 Q1</td><td>3.34</td></tr> </table>	Quarter	VMT (Billions)	2021 Q1	2.99	2021 Q4	3.48	2022 Q1	3.34	Over one year ago	Over last quarter
		Quarter	VMT (Billions)								
		2021 Q1	2.99								
2021 Q4	3.48										
2022 Q1	3.34										
11.8%	-3.8%										
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Quarter</th><th>VHD (Millions)</th></tr> <tr><td>2021 Q1</td><td>0.8</td></tr> <tr><td>2021 Q4</td><td>2.6</td></tr> <tr><td>2022 Q1</td><td>1.7</td></tr> </table>	Quarter	VHD (Millions)	2021 Q1	0.8	2021 Q4	2.6	2022 Q1	1.7	Over one year ago	Over last quarter
		Quarter	VHD (Millions)								
		2021 Q1	0.8								
2021 Q4	2.6										
2022 Q1	1.7										
128.2%	-31.9%										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Quarter</th><th>VHD (Thousands)</th></tr> <tr><td>2021 Q1</td><td>10</td></tr> <tr><td>2021 Q4</td><td>34</td></tr> <tr><td>2022 Q1</td><td>24</td></tr> </table>	Quarter	VHD (Thousands)	2021 Q1	10	2021 Q4	34	2022 Q1	24	Over one year ago	Over last quarter
		Quarter	VHD (Thousands)								
		2021 Q1	10								
2021 Q4	34										
2022 Q1	24										
138.6%	-28.4%										
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Quarter</th><th>VHD (Millions)</th></tr> <tr><td>2021 Q1</td><td>2.3</td></tr> <tr><td>2021 Q4</td><td>5.7</td></tr> <tr><td>2022 Q1</td><td>4.1</td></tr> </table>	Quarter	VHD (Millions)	2021 Q1	2.3	2021 Q4	5.7	2022 Q1	4.1	Over one year ago	Over last quarter
		Quarter	VHD (Millions)								
		2021 Q1	2.3								
2021 Q4	5.7										
2022 Q1	4.1										
77.3%	-28%										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Quarter</th><th>VHD (Thousands)</th></tr> <tr><td>2021 Q1</td><td>32</td></tr> <tr><td>2021 Q4</td><td>76</td></tr> <tr><td>2022 Q1</td><td>58</td></tr> </table>	Quarter	VHD (Thousands)	2021 Q1	32	2021 Q4	76	2022 Q1	58	Over one year ago	Over last quarter
		Quarter	VHD (Thousands)								
		2021 Q1	32								
2021 Q4	76										
2022 Q1	58										
81.6%	-23.5%										

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		-	Wednesday -34.7% ↓
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
Thursday 104% ↑	-		
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		Largest Magnitude Weekday Decrease over one year ago	Largest Magnitude Weekday Decrease over last quarter
		11 AM -8% ↓	5 PM -33.9% ↓
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		4 PM 132.7% ↑	-
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago	Largest Magnitude Saturday Decrease over last quarter
		8 PM -58.9% ↓	5 PM -40.3% ↓
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		12 PM 105% ↑	-
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago	Largest Magnitude Sun./Holiday Decrease over last quarter
		6 AM -78% ↓	4 PM -49.1% ↓
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		12 PM 238.8% ↑	-

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		-	San Diego -31.9%
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		-	PM Peak -34.8%
Average Number of Good and Bad Detectors		Change in Good over one year ago	Change in Good over last quarter
		-10%	-3%
		Change in Bad over one year ago	Change in Bad over last quarter
		85%	34%

Congestion by Route											
Route	County	Vehicle Hours of Delay at 35 mph			Difference 2022 Q1-2021 Q1		Difference 2022 Q1-2021 Q4		Rank		
		2021 Q1	2021 Q4	2022 Q1	Absolute	Percentage	Absolute	Percentage	2021 Q1	2021 Q4	2022 Q1
I5	San Diego	281,343	981,897	655,931	374,589	133.1%	-325,966	-33.2%	1	1	1
I805	San Diego	72,011	526,283	298,328	226,317	314.3%	-227,955	-43.3%	4	2	2
I15	San Diego	152,202	388,837	274,910	122,708	80.6%	-113,927	-29.3%	2	3	3
SR125	San Diego	70,409	154,345	146,157	75,748	107.6%	-8,188	-5.3%	5	5	4
SR78	San Diego	94,678	209,307	114,223	19,545	20.6%	-95,085	-45.4%	3	4	5
I8	San Diego	17,117	92,451	81,560	64,443	376.5%	-10,891	-11.8%	7	6	6
SR52	San Diego	10,467	73,701	60,783	50,316	480.7%	-12,919	-17.5%	9	7	7
SR163	San Diego	30,560	58,279	44,851	14,291	46.8%	-13,428	-23.0%	6	8	8
SR94	San Diego	4,472	35,383	29,356	24,884	556.4%	-6,027	-17.0%	12	9	9
SR56	San Diego	10,278	31,863	24,551	14,273	138.9%	-7,311	-22.9%	10	10	10
I905	San Diego	15,893	3,053	10,915	-4,978	-31.3%	7,862	257.5%	8	12	11
SR76	San Diego	4,511	4,012	2,433	-2,078	-46.1%	-1,579	-39.4%	11	11	12
SR54	San Diego	997	2,857	1,342	345	34.7%	-1,515	-53.0%	13	13	13
SR67	San Diego	200	679	409	209	104.3%	-270	-39.7%	14	14	14
SR11	San Diego	5	2	8	3	60.0%	6	247.8%	15	15	15
TOTALS		765,141	2,562,950	1,745,756	980,616	128.2%	-817,193	-31.9%			