

# District 11 Mobility Performance Report

2021 Second Quarter

**DEPARTMENT OF TRANSPORTATION**

July 29, 2021

District 11- Traffic System Performance

## District 11 Mobility Performance Report

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2021 Second Quarter

### EXECUTIVE SUMMARY

#### Overview

Caltrans District 11 consists of both the Imperial and San Diego counties, with San Diego having a population of approximately 3,338,330 residents and Imperial County with approximately 181,215 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 second quarter of 2021, the total delay equaled 1.8 million VHD at the 35mph speed threshold, and 4.4 million VHD at the 60mph threshold. The average weekday delay experienced in this quarter was approximately 20 thousand VHD at 35 mph, and 53 thousand VHD at 60 mph.

### Top Ten Bottlenecks for the 2021 Second 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	I5-N	N	Cannon Rd	48.00	48.104	33.14	-117.33	63	5.62	113,226.80	9,460.00
San Diego	PM	I805-S	S	805 SB N-O 15	15.17	15.321	32.74	-117.12	62	3.85	60,189.30	5,360.00
San Diego	PM	I15-N	N	15 NB N-O Mission Rd	52.35	52.09	33.41	-117.16	50	4.66	57,756.40	6,885.00
San Diego	PM	I15-S	S	WB SR-274-BALBOA AVE	9.37	9.196	32.82	-117.12	63	1.94	52,269.20	9,900.00
San Diego	PM	I805-N	N	805 SB @ 15	14.70	14.852	32.73	-117.11	53	4.26	52,166.00	5,175.00
San Diego	PM	SR78-E	E	Barham Dr	14.86	14.86	33.14	-117.13	46	5.30	46,365.30	4,485.00
San Diego	PM	I5-S	S	N-O CMNO DE LA PLAZA	0.22	311	32.54	-117.03	58	0.75	45,431.00	12,255.00
San Diego	PM	I5-S	S	Oceanside Blvd	52.27	52.408	33.19	-117.36	34	4.16	40,290.10	3,110.00
San Diego	PM	SR125-N	N	125 NB CONNECTOR	16.97	15.216	32.77	-117.00	63	2.38	40,255.70	7,295.00
San Diego	PM	SR78-E	E	Twin Oaks Valley Rd	13.02	13.022	33.14	-117.16	61	3.65	40,062.90	6,120.00

Measure	Graph	Percentage Change									
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2020 Q2</td><td>2.45</td></tr> <tr><td>2021 Q1</td><td>2.99</td></tr> <tr><td>2021 Q2</td><td>3.44</td></tr> </table>	Period	Value	2020 Q2	2.45	2021 Q1	2.99	2021 Q2	3.44	Over one year ago	Over last quarter
		Period	Value								
		2020 Q2	2.45								
2021 Q1	2.99										
2021 Q2	3.44										
40.6%	15%										
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2020 Q2</td><td>0.2</td></tr> <tr><td>2021 Q1</td><td>0.8</td></tr> <tr><td>2021 Q2</td><td>1.8</td></tr> </table>	Period	Value	2020 Q2	0.2	2021 Q1	0.8	2021 Q2	1.8	Over one year ago	Over last quarter
		Period	Value								
		2020 Q2	0.2								
2021 Q1	0.8										
2021 Q2	1.8										
980.5%	138.4%										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2020 Q2</td><td>2</td></tr> <tr><td>2021 Q1</td><td>10</td></tr> <tr><td>2021 Q2</td><td>20</td></tr> </table>	Period	Value	2020 Q2	2	2021 Q1	10	2021 Q2	20	Over one year ago	Over last quarter
		Period	Value								
		2020 Q2	2								
2021 Q1	10										
2021 Q2	20										
864.5%	99.6%										
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2020 Q2</td><td>0.9</td></tr> <tr><td>2021 Q1</td><td>2.3</td></tr> <tr><td>2021 Q2</td><td>4.4</td></tr> </table>	Period	Value	2020 Q2	0.9	2021 Q1	2.3	2021 Q2	4.4	Over one year ago	Over last quarter
		Period	Value								
		2020 Q2	0.9								
2021 Q1	2.3										
2021 Q2	4.4										
418.6%	90.6%										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2020 Q2</td><td>12</td></tr> <tr><td>2021 Q1</td><td>32</td></tr> <tr><td>2021 Q2</td><td>53</td></tr> </table>	Period	Value	2020 Q2	12	2021 Q1	32	2021 Q2	53	Over one year ago	Over last quarter
		Period	Value								
		2020 Q2	12								
2021 Q1	32										
2021 Q2	53										
348.9%	65.5%										

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
		-	-
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
		2 AM -4.6%	2 AM -18.7%
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
		-	-
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 -79.3%
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		1 PM 3698.1%	12 PM 675.6%

Measure	Graph	Percentage Change	
<p><b>Total Vehicle Hours of Delay (VHD) by County at 35 mph</b></p>	<p>Hours (Millions)</p> <p>■ 2020 Q2 ■ 2021 Q1 ■ 2021 Q2</p> <p>San Diego</p>	<p>Largest Magnitude Decrease over one year ago</p> <p>–</p>	<p>Largest Magnitude Decrease over last quarter</p> <p>–</p>
<p><b>Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph</b></p>	<p>Miles</p> <p>■ 2020 Q2 ■ 2021 Q1 ■ 2021 Q2</p> <p>AM Peak (6 AM to 10 AM) Off-Peak Day (10 AM to 3 PM) PM Peak (3 PM to 7 PM) Off-Peak Night (7 PM to 6 AM)</p>	<p>Largest Magnitude Decrease over one year ago</p> <p>–</p>	<p>Largest Magnitude Decrease over last quarter</p> <p>–</p>
<p><b>Average Number of Good and Bad Detectors</b></p>	<p>Number of Detectors</p> <p>■ Average of Good ■ Average of Bad</p> <p>2020 Q2 2021 Q1 2021 Q2</p>	<p>Change in Good over one year ago</p> <p>-9%</p>	<p>Change in Good over last quarter</p> <p>0.1%</p>
		<p>Change in Bad over one year ago</p> <p>1%</p>	<p>Change in Bad over last quarter</p> <p>-1%</p>

Congestion by Route											
Route	County	Vehicle Hours of Delay at 35 mph			Difference 2021 Q2-2020 Q2		Difference 2021 Q2-2021 Q1		Rank		
		2020 Q2	2021 Q1	2021 Q2	Absolute	Percentage	Absolute	Percentage	2020 Q2	2021 Q1	2021 Q2
I5	San Diego	25,299	281,343	876,148	850,849	3363.2%	594,806	211.4%	4	1	1
I15	San Diego	37,360	152,202	325,296	287,936	770.7%	173,095	113.7%	1	2	2
SR78	San Diego	31,057	94,678	160,664	129,608	417.3%	65,987	69.7%	2	3	3
I805	San Diego	26,338	72,011	152,405	126,068	478.7%	80,394	111.6%	3	4	4
SR125	San Diego	20,338	70,409	113,067	92,730	455.9%	42,659	60.6%	5	5	5
I8	San Diego	14,374	17,117	73,568	59,194	411.8%	56,450	329.8%	6	7	6
SR52	San Diego	1,196	10,467	38,289	37,093	3101.5%	27,823	265.8%	10	9	7
SR163	San Diego	347	30,560	38,142	37,794	10888.6%	7,582	24.8%	12	6	8
SR56	San Diego	243	10,278	20,043	19,799	8134.5%	9,765	95.0%	13	10	9
SR94	San Diego	4,905	4,472	14,735	9,830	200.4%	10,263	229.5%	7	12	10
SR76	San Diego	1,574	4,511	5,716	4,142	263.1%	1,206	26.7%	9	11	11
I905	San Diego	4,775	15,893	3,419	-1,356	-28.4%	-12,474	-78.5%	8	8	12
SR54	San Diego	237	997	2,552	2,314	976.1%	1,555	156.0%	14	13	13
SR67	San Diego	799	200	344	-455	-56.9%	144	72.1%	11	14	14
SR11	San Diego	0	5	1	1	200.0%	-4	-82.0%	15	15	15
<b>TOTALS</b>		<b>168,842</b>	<b>765,141</b>	<b>1,824,390</b>	<b>1,655,547</b>	<b>980.5%</b>	<b>1,059,249</b>	<b>138.4%</b>			