

# District 11 Mobility Performance

2019 First Quarter

**DEPARTMENT OF TRANSPORTATION**

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## District 11 Mobility Performance Report

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2019 First Quarter

### EXECUTIVE SUMMARY

#### Overview

District 11 for Caltrans consists of both the Imperial and San Diego counties. With San Diego having a population of approximately 3,300,000 residents and Imperial County with approximately 183,000 residents. Although, District 11 is composed of these two counties, Imperial County does not report any performance data.

The Mobility Performance quarterly analysis compares information with over a year ago and over last quarter in the following performance measures:

- 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 all congestion, both light and heavy. These thresholds are set by Caltrans and are based upon engineering experience and District input.

## FINDINGS

In the first quarter, the total delay equaled 3.7 million VHD at the 35 mph speed threshold, and 7.5 million VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 56 thousand VHD at 35 mph, and 112 thousand VHD at 60 mph.

### Top Ten Bottlenecks for the Quarter 1

Fwy	Location	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
I805-S	805 SB @ 15	PM	14.70	14.852	58	7.00	160,560.80	8,085.00
I15-N	15 NB N-O Mission Rd	PM	52.35	R52.09	55	5.32	108,488.00	9,540.00
I5-S	5 S N-O VISTA VIEW	AM	39.06	R39.201	59	6.23	102,863.30	8,355.00
I805-S	805 SB N-O 15	PM	15.17	15.321	58	6.88	98,364.60	4,680.00
I805-N	805 NB N-O 52	AM	23.50	23.65	58	1.81	84,195.70	11,860.00
I5-N	5N Lomas Santa Fe EB	PM	37.26	R37.37	59	5.08	79,222.90	5,560.00
I5-S	5th Ave	PM	16.00	R16.11	61	2.60	76,786.40	9,660.00
I5-N	Cannon Rd	PM	48.00	R48.104	62	3.10	76,082.40	10,130.00
I5-N	NB 5 @ B ST	AM	15.23	R15.34	59	3.16	69,733.40	7,405.00
I805-N	At I?15	AM	14.70	14.85	59	2.93	64,148.90	7,330.00

Measure	Graph	Percentage Change									
<b>Vehicle Miles of Travel (VMT)</b>	<p>Miles (Billions)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2018 Q1</td><td>3.5</td></tr> <tr><td>2018 Q4</td><td>3.6</td></tr> <tr><td>2019 Q1</td><td>3.5</td></tr> </table>	Period	Value	2018 Q1	3.5	2018 Q4	3.6	2019 Q1	3.5	Over one year ago	Over last quarter
Period	Value										
2018 Q1	3.5										
2018 Q4	3.6										
2019 Q1	3.5										
		-0.7%	-2.9%								
<b>Total Vehicle Hours of Delay (VHD) at 35 mph</b>	<p>Hours (Millions)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2018 Q1</td><td>3.3</td></tr> <tr><td>2018 Q4</td><td>3.5</td></tr> <tr><td>2019 Q1</td><td>3.7</td></tr> </table>	Period	Value	2018 Q1	3.3	2018 Q4	3.5	2019 Q1	3.7	Over one year ago	Over last quarter
Period	Value										
2018 Q1	3.3										
2018 Q4	3.5										
2019 Q1	3.7										
		11.6%	4.7%								
<b>Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph</b>	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2018 Q1</td><td>50</td></tr> <tr><td>2018 Q4</td><td>53</td></tr> <tr><td>2019 Q1</td><td>56</td></tr> </table>	Period	Value	2018 Q1	50	2018 Q4	53	2019 Q1	56	Over one year ago	Over last quarter
Period	Value										
2018 Q1	50										
2018 Q4	53										
2019 Q1	56										
		11.9%	4.4%								
<b>Total Vehicle Hours of Delay (VHD) at 60 mph</b>	<p>Hours (Millions)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2018 Q1</td><td>6.8</td></tr> <tr><td>2018 Q4</td><td>7.1</td></tr> <tr><td>2019 Q1</td><td>7.5</td></tr> </table>	Period	Value	2018 Q1	6.8	2018 Q4	7.1	2019 Q1	7.5	Over one year ago	Over last quarter
Period	Value										
2018 Q1	6.8										
2018 Q4	7.1										
2019 Q1	7.5										
		10.5%	4.7%								
<b>Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph</b>	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Period</th><th>Value</th></tr> <tr><td>2018 Q1</td><td>100</td></tr> <tr><td>2018 Q4</td><td>106</td></tr> <tr><td>2019 Q1</td><td>112</td></tr> </table>	Period	Value	2018 Q1	100	2018 Q4	106	2019 Q1	112	Over one year ago	Over last quarter
Period	Value										
2018 Q1	100										
2018 Q4	106										
2019 Q1	112										
		11.5%	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
		Sun/Hol -7.9%	Friday -5.3%
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
		6 AM -14.9%	6 PM -7.7%
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
		7 AM -41.9%	8 AM -39.9%
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
		4 PM -15.5%	11 AM -43.4%
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Tuesday 23.4%	Monday 38.1%
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		4 PM 15.1%	4 PM 12.3%
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		11 AM 60.8%	11 AM 69.3%
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		2 PM 36.3%	7 PM 60.1%

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph	<p>Hours (Millions)</p> <p>San Diego</p> <p>2018 Q1: 3.29 2018 Q4: 3.51 2019 Q1: 3.67</p>	Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		San Diego 11.6% ↑	San Diego 4.7% ↑
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph	<p>Miles</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>2018 Q1, 2018 Q4, 2019 Q1</p>	Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		PM Peak 12.7% ↑	AM Peak 4.8% ↑
Average Number of Good and Bad Detectors	<p>Number of Detectors</p> <p>Average of Good Average of Bad</p> <p>2018 Q1: 3,698 Good, 619 Bad 2018 Q4: 3,777 Good, 532 Bad 2019 Q1: 3,734 Good, 575 Bad</p>	Change in Good over one year ago	Change in Good over last quarter
		Change in Bad over one year ago	Change in Bad over last quarter

**Congestion by Route**

Route	County	Vehicle Hours of Delay at 35 mph			Difference 2019 Q1-2018 Q1		Difference 2019 Q1-2018 Q4		Rank		
		2018 Q1	2018 Q4	2019 Q1	Absolute	Percentage	Absolute	Percentage	2018 Q1	2018 Q4	2019 Q1
		I5	San Diego	1,083,548	1,175,328	1,235,695	152,147	14.0%	60,367	5.1%	1
I805	San Diego	576,478	668,175	708,608	132,130	22.9%	40,432	6.1%	2	2	2
I15	San Diego	574,862	622,039	685,469	110,607	19.2%	63,430	10.2%	3	3	3
SR78	San Diego	254,540	263,893	256,698	2,159	0.8%	-7,194	-2.7%	4	4	4
SR125	San Diego	177,158	200,239	204,299	27,141	15.3%	4,060	2.0%	6	5	5
I8	San Diego	197,702	182,099	190,661	-7,040	-3.6%	8,562	4.7%	5	6	6
SR163	San Diego	118,850	129,161	119,802	952	0.8%	-9,359	-7.2%	8	7	7
SR52	San Diego	126,969	95,238	99,917	-27,052	-21.3%	4,679	4.9%	7	8	8
SR94	San Diego	100,152	91,368	82,203	-17,949	-17.9%	-9,165	-10.0%	9	9	9
SR56	San Diego	68,563	70,335	74,365	5,803	8.5%	4,030	5.7%	10	10	10
I905	San Diego	5,670	4,141	7,128	1,459	25.7%	2,987	72.1%	11	11	11
SR76	San Diego	4,099	3,142	4,266	167	4.1%	1,125	35.8%	13	13	12
SR54	San Diego	4,316	3,590	3,783	-533	-12.3%	193	5.4%	12	12	13
SR67	San Diego	195	502	1,415	1,220	624.6%	913	182.0%	14	14	14
<b>TOTALS</b>		<b>3,293,102</b>	<b>3,509,250</b>	<b>3,674,311</b>	<b>381,210</b>	<b>11.6%</b>	<b>165,062</b>	<b>4.7%</b>			