

# District 11 Mobility Performance Report

2015 Third Quarter

**DEPARTMENT OF TRANSPORTATION**

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## District 11 Mobility Performance Report

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2015 Third 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 3,000,000 residents and Imperial County with approximately 180,000 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 third quarter, the total delay equaled 2.7 million vehicle hours of delay (VHD) at the 35 mph speed threshold, and 5.9 million VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 37 thousand VHD at 35 mph, and 80 thousand VHD at 60 mph.

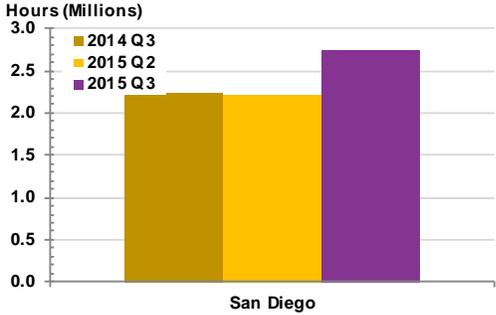
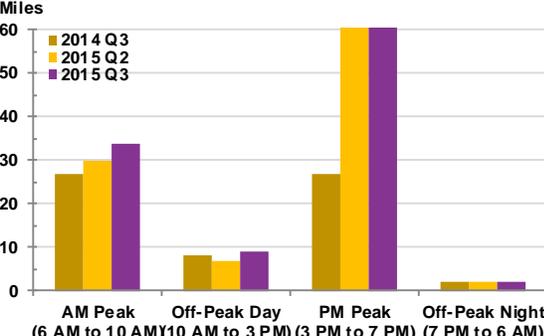
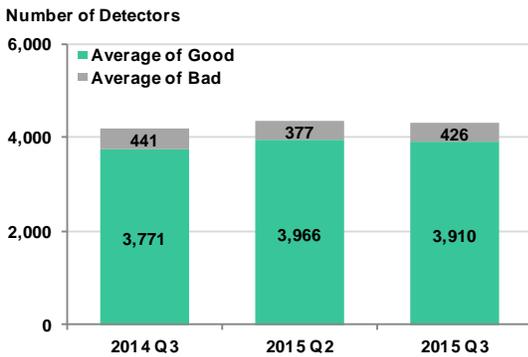
### Top Ten Bottlenecks for the Quarter 3

Fwy	Location	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
SR78-E	Twin Oaks Valley Rd	PM	13.018	13.022	64	4.1	128,280	13,080
I805-S	At I?15	PM	14.702	14.851	63	5.3	126,404	7,495
I5-S	5th Ave	PM	16.001	R16.11	64	3.0	78,285	8,680
I15-S	WB SR-274/BALBOA AVE	PM	9.367	R9.196	64	2.8	78,042	10,375
I805-N	805 NB S/O 52	AM	23.111	23.26	61	2.8	77,929	9,400
I5-N	Cannon Rd	PM	47.995	R48.104	64	2.8	76,015	12,510
SR163-S	Robinson Ave	PM	1.892	2.49	59	3.9	67,542	9,000
I5-S	Mission Bay Dr	PM	22.85	R22.959	48	3.7	53,841	4,970
I5-S	5 S N/O VISTA VIEW	AM	39.059	R39.201	54	6.2	47,399	4,055
I805-N	At I?15	AM	14.701	14.85	59	2.2	45,329	5,550

## Quarterly Mobility Statistics

Measure	Graph	Percentage Change									
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Quarter</th><th>Value (Billions)</th></tr> <tr><td>2014 Q3</td><td>3.37</td></tr> <tr><td>2015 Q2</td><td>3.57</td></tr> <tr><td>2015 Q3</td><td>3.61</td></tr> </table>	Quarter	Value (Billions)	2014 Q3	3.37	2015 Q2	3.57	2015 Q3	3.61	Over one year ago 7.1% ↑	Over last quarter 1.2% ↑
Quarter	Value (Billions)										
2014 Q3	3.37										
2015 Q2	3.57										
2015 Q3	3.61										
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Quarter</th><th>Value (Millions)</th></tr> <tr><td>2014 Q3</td><td>2.2</td></tr> <tr><td>2015 Q2</td><td>2.2</td></tr> <tr><td>2015 Q3</td><td>2.7</td></tr> </table>	Quarter	Value (Millions)	2014 Q3	2.2	2015 Q2	2.2	2015 Q3	2.7	Over one year ago 23% ↑	Over last quarter 23% ↑
Quarter	Value (Millions)										
2014 Q3	2.2										
2015 Q2	2.2										
2015 Q3	2.7										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Quarter</th><th>Value (Thousands)</th></tr> <tr><td>2014 Q3</td><td>30</td></tr> <tr><td>2015 Q2</td><td>31</td></tr> <tr><td>2015 Q3</td><td>37</td></tr> </table>	Quarter	Value (Thousands)	2014 Q3	30	2015 Q2	31	2015 Q3	37	Over one year ago 25% ↑	Over last quarter 20% ↑
Quarter	Value (Thousands)										
2014 Q3	30										
2015 Q2	31										
2015 Q3	37										
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Quarter</th><th>Value (Millions)</th></tr> <tr><td>2014 Q3</td><td>4.93</td></tr> <tr><td>2015 Q2</td><td>5</td></tr> <tr><td>2015 Q3</td><td>5.9</td></tr> </table>	Quarter	Value (Millions)	2014 Q3	4.93	2015 Q2	5	2015 Q3	5.9	Over one year ago 19.7% ↑	Over last quarter 18.1% ↑
Quarter	Value (Millions)										
2014 Q3	4.93										
2015 Q2	5										
2015 Q3	5.9										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Quarter</th><th>Value (Thousands)</th></tr> <tr><td>2014 Q3</td><td>66</td></tr> <tr><td>2015 Q2</td><td>69</td></tr> <tr><td>2015 Q3</td><td>80</td></tr> </table>	Quarter	Value (Thousands)	2014 Q3	66	2015 Q2	69	2015 Q3	80	Over one year ago 22% ↑	Over last quarter 16% ↑
Quarter	Value (Thousands)										
2014 Q3	66										
2015 Q2	69										
2015 Q3	80										

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
		-	-
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Tuesday 31% ↑	Friday 18% ↑
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
		10 AM -28% ↓	6 AM -3% ↓
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		4 PM 30% ↑	5 PM 22% ↑
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
		5 PM -23% ↓	3 AM -70% ↓
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		3 PM 25.8% ↑	2 PM 77% ↑
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
		8 PM -48% ↓	9 AM -31% ↓
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		3 PM 66% ↑	3 PM 88% ↑

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph	 <p>Hours (Millions)</p> <p>San Diego</p>	Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		-	-
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		San Diego 23% ↑	San Diego 23% ↑
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>	Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		-	-
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		PM Peak 212% ↑	PM Peak 20% ↑
Average Number of Good and Bad Detectors	 <p>Number of Detectors</p> <p>Average of Good (blue) Average of Bad (grey)</p> <p>2014 Q3 2015 Q2 2015 Q3</p>	Change in Good over one year ago	Change in Good over last quarter
		4% ↑	-1% ↓
		Change in Bad over one year ago	Change in Bad over last quarter
		-3% ↓	13.1% ↑

**Congestion by Route**

Route	County	Vehicle Hours of Delay at 35 mph			Difference 2015 Q3-2014 Q3		Difference 2015 Q3-2015 Q2		Rank		
		2014 Q3	2015 Q2	2015 Q3	Absolute	Percentage	Absolute	Percentage	2014 Q3	2015 Q2	2015 Q3
		I5	San Diego	885,748	831,731	1,057,657	171,909	19%	225,927	27%	1
I805	San Diego	522,710	448,481	520,239	-2,470	0%	71,758	16%	2	2	2
I15	San Diego	241,737	324,819	364,063	122,326	51%	39,244	12%	3	3	3
SR78	San Diego	182,637	155,331	189,384	6,747	4%	34,053	22%	4	4	4
I8	San Diego	89,950	116,057	162,613	72,663	81%	46,556	40%	6	5	5
SR52	San Diego	60,499	98,405	107,686	47,187	78%	9,281	9%	7	6	6
SR125	San Diego	44,316	73,999	105,323	61,007	138%	31,324	42%	9	8	7
SR163	San Diego	113,194	81,879	97,223	-15,971	-14%	15,344	19%	5	7	8
SR56	San Diego	50,388	46,054	63,138	12,750	25%	17,085	37%	8	9	9
SR94	San Diego	35,817	35,755	44,472	8,655	24%	8,717	24%	10	10	10
SR54	San Diego	1,593	1,655	22,970	21,377	1342%	21,315	1288%	12	12	11
I905	San Diego	5,487	3,951	2,147	-3,340	-61%	-1,804	-46%	11	11	12
<b>TOTALS</b>		<b>2,234,074</b>	<b>2,218,116</b>	<b>2,736,914</b>	<b>502,840</b>	<b>23%</b>	<b>518,799</b>	<b>23%</b>			