

District 05 Mobility Performance Report

2015 Third Quarter

DEPARTMENT OF TRANSPORTATION

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: Sam Toh

2015 Third Quarter

EXECUTIVE SUMMARY

Overview

Caltrans District 5 contains five counties located in central coast California: Santa Barbara, San Luis Obispo, Monterey, Santa Cruz and San Benito Counties. There is no detection in San Benito County currently. All of the counties are in an urban setting within the cities limit and rural outside city limit. Santa Cruz and Monterey are the top two most congested counties in the 3rd quarter.

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, total delay equaled 253,200 thousand vehicle hours of delay (VHD) at the 35 mph speed threshold, and 490,500 thousand VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 2,972 thousand VHD at 35 mph, and 5,738 thousand VHD at 60 mph.

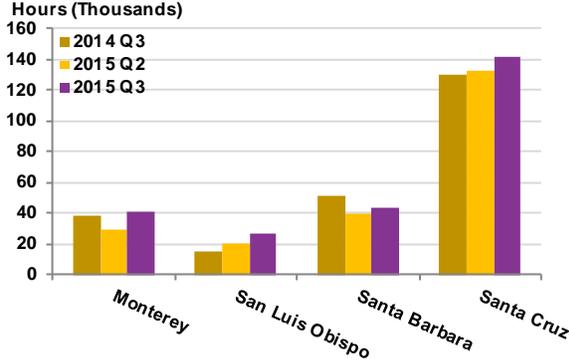
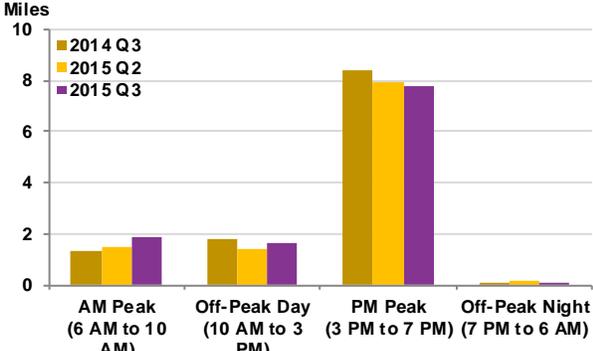
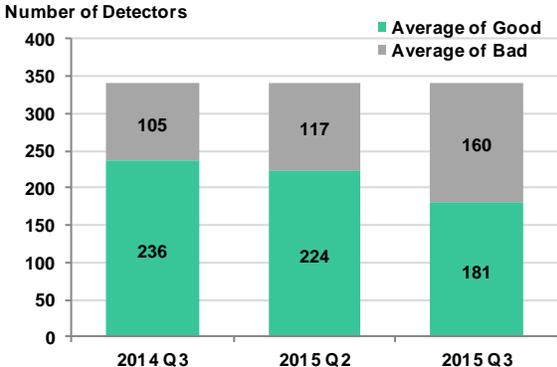
Top Ten Bottlenecks for Quarter 3

County	Fwy	Location	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
SCR	SR1-S	SOQUEL DR NEXT EXIT SIGN HWY 1 N	PM	365.708	14.41	35	1.8	15709	7090
MON	SR1-N	CASA VERDE WAY HWY 1 SB VDS MLNB	PM	329.082	78.547	58	1.9	12097	6255
SB	US101-N	CASSITAS PASS RD 101 NB VDS MLNB	AM	85.408	2.485	48	2.0	8942	4715
MON	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	PM	330.075	79.54	63	1.1	7658	7930
SLO	US101-S	SPYGLASS DR 101 SB VDS MLSB SB	PM	193.322	19.797	17	3.1	7327	2360
SLO	US101-S	BELLO ST 101 NB VDS MLSB SB	PM	190.714	17.179	42	3.8	6975	4575
SCR	SR1-S	BAY AVE / PORTER ST AT HWY 1 SB	PM	364.577	13.279	38	1.0	6686	8670
SCR	SR1-S	SOQUEL AVE AT HWY 1 SB VDS MLSB	PM	366.298	15	40	1.2	5339	4715
SB	US101-S	CABRILLO BLVD 101 SB PM 94.26 VD	PM	94.238	11.35	29	1.0	3616	2675
MON	SR1-N	SLOAT AVE HWY 1 SB VDS MLNB NB	PM	328.168	77.633	37	2.7	3418	1900

Quarterly Mobility Statistics

Measure	Graph	Percentage Change									
Vehicle Miles of Travel (VMT)	<p>Miles (Millions)</p> <table border="1"> <tr><th>Year/Quarter</th><th>Value</th></tr> <tr><td>2014 Q3</td><td>431.9</td></tr> <tr><td>2015 Q2</td><td>429.2</td></tr> <tr><td>2015 Q3</td><td>400.6</td></tr> </table>	Year/Quarter	Value	2014 Q3	431.9	2015 Q2	429.2	2015 Q3	400.6	Over one year ago	Over last quarter
Year/Quarter	Value										
2014 Q3	431.9										
2015 Q2	429.2										
2015 Q3	400.6										
		-7.3%	-6.7%								
		↑	↑								
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year/Quarter</th><th>Value</th></tr> <tr><td>2014 Q3</td><td>234.4</td></tr> <tr><td>2015 Q2</td><td>221</td></tr> <tr><td>2015 Q3</td><td>253.2</td></tr> </table>	Year/Quarter	Value	2014 Q3	234.4	2015 Q2	221	2015 Q3	253.2	Over one year ago	Over last quarter
Year/Quarter	Value										
2014 Q3	234.4										
2015 Q2	221										
2015 Q3	253.2										
		8%	14.5%								
		↑	↑								
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours</p> <table border="1"> <tr><th>Year/Quarter</th><th>Value</th></tr> <tr><td>2014 Q3</td><td>2,774</td></tr> <tr><td>2015 Q2</td><td>2,612</td></tr> <tr><td>2015 Q3</td><td>2,972</td></tr> </table>	Year/Quarter	Value	2014 Q3	2,774	2015 Q2	2,612	2015 Q3	2,972	Over one year ago	Over last quarter
Year/Quarter	Value										
2014 Q3	2,774										
2015 Q2	2,612										
2015 Q3	2,972										
		7.1%	13.8%								
		↑	↑								
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year/Quarter</th><th>Value</th></tr> <tr><td>2014 Q3</td><td>525.8</td></tr> <tr><td>2015 Q2</td><td>497.7</td></tr> <tr><td>2015 Q3</td><td>495</td></tr> </table>	Year/Quarter	Value	2014 Q3	525.8	2015 Q2	497.7	2015 Q3	495	Over one year ago	Over last quarter
Year/Quarter	Value										
2014 Q3	525.8										
2015 Q2	497.7										
2015 Q3	495										
		-5.9%	-0.5%								
		↓	↓								
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours</p> <table border="1"> <tr><th>Year/Quarter</th><th>Value</th></tr> <tr><td>2014 Q3</td><td>6,172</td></tr> <tr><td>2015 Q2</td><td>5,964</td></tr> <tr><td>2015 Q3</td><td>5,738</td></tr> </table>	Year/Quarter	Value	2014 Q3	6,172	2015 Q2	5,964	2015 Q3	5,738	Over one year ago	Over last quarter
Year/Quarter	Value										
2014 Q3	6,172										
2015 Q2	5,964										
2015 Q3	5,738										
		-7%	-3.8%								
		↓	↓								

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
		Friday -14.5%	Thursday -14.3%
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Tuesday 19.9%	Tuesday 11.8%
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
		1 PM -97%	2 PM -65.1%
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		7 AM 21%	5 PM 20%
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
		12 PM -81.8%	7 PM -98.7%
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		5 AM 38.5%	3 PM 109.7%
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
		12 PM -75%	5 PM -33.3%
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		9 PM 151.4%	2 PM 82.2%

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
		Santa Barbara -14.7% 	-
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 -6.8% 	PM Peak -1.6% 
Average Number of Good and Bad Detectors		Change in Good over one year ago	Change in Good over last quarter
		-23% 	-19% 
		Change in Bad over one year ago	Change in Bad over last quarter
		53% 	36% 

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
		SR1	Santa Cruz	110,425	115,715	117,076	6,651	6%	1,361	1%	1
US101	Santa Barbara	51,008	39,179	43,491	-7,517	-15%	4,312	11%	2	2	2
SR1	Monterey	38,470	28,703	40,451	1,981	5%	11,748	41%	3	3	3
US101	San Luis Obispo	15,061	20,611	27,000	11,939	79%	6,388	31%	5	4	4
SR17	Santa Cruz	19,476	16,824	25,139	5,663	29%	8,316	49%	4	5	5
TOTALS		234,440	221,031	253,157	18,717	8%	32,125	15%			