

District 05 Mobility Performance Report

2015 Fourth Quarter

DEPARTMENT OF TRANSPORTATION

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2015 Fourth 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 Santa Barbara are the top two most congested counties in the 4th 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 fourth quarter, total delay equaled 190,900 thousand vehicle hours of delay (VHD) at the 35 mph speed threshold, and 396,800 thousand VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 2,708 thousand VHD at 35 mph, and 5,564 thousand VHD at 60 mph.

Top Ten Bottlenecks for Quarter 4

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	56	1.6	24414	11065
SB	US101-N	CASSITAS PASS RD 101 NB VDS MLNB	AM	85.408	2.485	54	2.9	11406	4815
MON	SR1-N	CASA VERDE WAY HWY 1 SB VDS MLNB	PM	329.082	78.547	41	3.0	7867	3435
SCR	SR1-S	NB1 to NB 17 conn	PM	368.018	16.72	30	5.5	6189	2210
SLO	US101-S	BELLO ST 101 NB VDS MLSB SB	PM	190.714	17.179	38	3.9	5609	3660
SCR	SR1-S	BAY AVE / PORTER ST AT HWY 1 SB	PM	364.577	13.279	58	0.6	4444	12200
SB	US101-S	CABRILLO BLVD SB 101 PM 94.57 VD	PM	94.55	11.662	57	0.7	3590	5840
SB	US101-S	HERMOSILLO RD 101 NB VDS MLSB SB	PM	93.968	11.08	60	0.8	3373	6640
MON	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	PM	330.075	79.54	57	1.0	2934	4115
SB	US101-S	SAN YSIDRO RD 101 NB VDS MLSB SB	PM	92.928	10.04	32	2.2	2494	3220

Quarterly Mobility Statistics

Measure	Graph	Percentage Change							
Vehicle Miles of Travel (VMT)	<p>Miles (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2014</td><td>404.3</td></tr> <tr><td>2015</td><td>379.1</td></tr> </table>	Year	Q4	2014	404.3	2015	379.1	Over one year ago	Over last quarter
Year	Q4								
2014	404.3								
2015	379.1								
		-6.2%	-5.4%						
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2014</td><td>138.9</td></tr> <tr><td>2015</td><td>190.9</td></tr> </table>	Year	Q4	2014	138.9	2015	190.9	Over one year ago	Over last quarter
Year	Q4								
2014	138.9								
2015	190.9								
		37.4%	-24.6%						
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2014</td><td>1,957</td></tr> <tr><td>2015</td><td>2,708</td></tr> </table>	Year	Q4	2014	1,957	2015	2,708	Over one year ago	Over last quarter
Year	Q4								
2014	1,957								
2015	2,708								
		38.4%	-8.9%						
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2014</td><td>338.7</td></tr> <tr><td>2015</td><td>396.8</td></tr> </table>	Year	Q4	2014	338.7	2015	396.8	Over one year ago	Over last quarter
Year	Q4								
2014	338.7								
2015	396.8								
		17.2%	-19.8%						
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2014</td><td>4,693</td></tr> <tr><td>2015</td><td>5,564</td></tr> </table>	Year	Q4	2014	4,693	2015	5,564	Over one year ago	Over last quarter
Year	Q4								
2014	4,693								
2015	5,564								
		18.6%	-3%						

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
		Tuesday -7.9%	Saturday -56.6%
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
		8 AM -7.5%	12 PM -66.6%
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
		10 AM -23.6%	1 PM -64%
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
		1 PM -22.8%	1 PM -85.5%
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		Friday 71%	Wednesday 15.7%
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		7 AM 75.3%	7 AM 50.2%
		Largest Magnitude Sunday/Holiday Increase over one year ago	Largest Magnitude Sunday/Holiday Increase over last quarter
		4 PM 109.3%	7 AM 180.4%

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 Cruz -34.8%
		Largest Magnitude Increase over one year ago Santa Barbara 115.1%	Largest Magnitude Increase over last quarter Santa Barbara 37.7%
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 Off-Peak Day -29%
		Largest Magnitude Increase over one year ago PM Peak 30.5%	Largest Magnitude Increase over last quarter AM Peak 50.6%
Average Number of Good and Bad Detectors		Change in Good over one year ago 4%	Change in Good over last quarter 23%
		Change in Bad over one year ago -7%	Change in Bad over last quarter -26%

Congestion by Route

Route	County	Vehicle Hours of Delay at 35 mph			Difference 2015 Q4-2014 Q4		Difference 2015 Q4-2015 Q3		Rank		
		2014 Q4	2015 Q3	2015 Q4	Absolute	Percentage	Absolute	Percentage	2014 Q4	2015 Q3	2015 Q4
SR1	Santa Cruz	76,265	117,076	87,456	11,192	15%	-29,620	-25%	1	1	1
US101	Santa Barbara	27,833	43,491	59,873	32,040	115%	16,382	38%	2	2	2
SR1	Monterey	19,299	40,451	22,047	2,748	14%	-18,405	-45%	3	3	3
US101	San Luis Obispo	10,291	27,000	16,328	6,038	59%	-10,671	-40%	4	4	4
SR17	Santa Cruz	5,215	25,139	5,222	7	0%	-19,918	-79%	5	5	5
TOTALS		138,902	253,157	190,926	52,024	37%	-62,231	-25%			