

# District 05 Mobility Performance Report

2017 Fourth Quarter

**DEPARTMENT OF TRANSPORTATION**

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: Sam Toh

2017 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 4<sup>th</sup> 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 332,100 thousand vehicle hours of delay (VHD) at the 35 mph speed threshold, and 686,000 thousand VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 4,751 VHD at 35 mph, and 10,000 VHD at 60 mph.

### Top Ten Bottlenecks for Quarter 4

County	Fwy	Location	Type	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
SCR	SR1-S	STATE PARK DR AT HWY 1 SB VDS ML	ML	PM	362.07	10.772	56	4.6	40443	8780
MON	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	ML	PM	330.075	79.54	58	2.97586	17294.2	6445
SCR	SR1-N	41ST ST EXIT AT HWY 1 SB VDS MLN	ML	AM	365.27	13.929	51	4.9	15441	5045
SCR	SR1-S	PARK AVE AT HWY 1 NB VDS MLSB SB	ML	PM	363.178	11.88	55	3.0	8525	3060
SB	US101-S	SANTA CLAUS LANE 101 SB VDS MLSB	ML	PM	87.528	4.63200	52	1.7	7210	7590
SCR	SR1-S	SOQUEL DR NEXT EXIT SIGN HWY 1 N	ML	PM	365.708	14.41	49	1.4	6865	4195
SCR	SR1-S	NB1 to NB 17 conn	ML	PM	368.018	16.72	36	8.42778	6274.4	2435
SLO	US101-S	SPYGLASS DR 101 SB VDS MLSB SB	ML	PM	193.322	19.797	49	2.0	4485	4480
SCR	SR1-S	NB1 to NB 17 conn	ML	AM	368.018	16.72	33	8.7	4406	1625
SCR	SR1-N	RIO DEL MAR BLVD AT HWY 1 SB VDS	ML	AM	360.894	9.553	46	3.4	3956	1985

## 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>2016</td><td>709.8</td></tr> <tr><td>2017</td><td>788.1</td></tr> </table>	Year	Q4	2016	709.8	2017	788.1	Over one year ago	Over last quarter
		Year	Q4						
2016	709.8								
2017	788.1								
		11% ↑	-7.2% ↓						
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>2016</td><td>333.9</td></tr> <tr><td>2017</td><td>332.1</td></tr> </table>	Year	Q4	2016	333.9	2017	332.1	Over one year ago	Over last quarter
		Year	Q4						
2016	333.9								
2017	332.1								
		-0.5% ↓	-29% ↓						
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>2016</td><td>4839</td></tr> <tr><td>2017</td><td>4751</td></tr> </table>	Year	Q4	2016	4839	2017	4751	Over one year ago	Over last quarter
		Year	Q4						
2016	4839								
2017	4751								
		-1.8% ↓	-12.4% ↓						
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>2016</td><td>652.7</td></tr> <tr><td>2017</td><td>686</td></tr> </table>	Year	Q4	2016	652.7	2017	686	Over one year ago	Over last quarter
		Year	Q4						
2016	652.7								
2017	686								
		5.1% ↑	-29.3% ↓						
Average Non-Holiday Weekday 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>2016</td><td>9</td></tr> <tr><td>2017</td><td>10</td></tr> </table>	Year	Q4	2016	9	2017	10	Over one year ago	Over last quarter
		Year	Q4						
2016	9								
2017	10								
		4.3% ↑	-14.4% ↓						

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 -7.4%	Sun/Hol -64.3%
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase 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
		7 AM -37.4%	4 PM -23.1%
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
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 -25%	12 PM -58.4%
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase 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
		5 PM -19.1%	1 PM -72.4%
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		Friday 20.2%	-
		8 AM 29.9%	8 AM 31.4%
		3 PM 107.1%	-
		12 PM 71.6%	8 AM 245.4%

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 Barbara: -42.4%	Monterey: -51.4%
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Santa Cruz: 36.4%	-
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: -25.9%	PM Peak: -19.3%
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Off-Peak Night: 56.1%	AM Peak: 16%
Average Number of Good and Bad Detectors		Change in Good over one year ago	Change in Good over last quarter
		8%	-3%
		Change in Bad over one year ago	Change in Bad over last quarter
		87%	15%

**Congestion by Route**

Route	County	Vehicle Hours of Delay at 35 mph			Difference 2017 Q4-2016 Q4		Difference 2017 Q4-2017 Q3		Rank		
		2016 Q4	2017 Q3	2017 Q4	Absolute	Percentage	Absolute	Percentage	2016 Q4	2017 Q3	2017 Q4
		SR1	Santa Cruz	135,488	229,236	199,360	63,872	47.1%	-29,875	-13.0%	1
US101	Santa Barbara	88,726	82,588	51,082	-37,645	-42.4%	-31,506	-38.1%	2	3	2
SR1	Monterey	61,105	84,182	39,315	-21,790	-35.7%	-44,867	-53.3%	3	2	3
US101	San Luis Obispo	18,939	37,511	20,016	1,078	5.7%	-17,495	-46.6%	5	4	4
SR17	Santa Cruz	22,722	24,968	16,411	-6,310	-27.8%	-8,557	-34.3%	4	5	5
US101	Monterey	6,929	9,022	5,951	-978	-14.1%	-3,071	-34.0%	6	6	6
<b>TOTALS</b>		<b>333,909</b>	<b>467,506</b>	<b>332,135</b>	<b>-1,773</b>	<b>-0.5%</b>	<b>-135,371</b>	<b>-29.0%</b>			