District 05 Mobility Performance Report

2018 First Quarter

DEPARTMENT OF TRANSPORTATION

July 27, 2018 : Sam Toh

District 05 Mobility Performance Report

2018 First 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. Aggregation of new detection data for San Benito County started in first quarter, 2018. Detection were implemented along SR25 on Bolsa Rd (PM 59.5) and SR156 from San Juan Bautista to Hollister (PM 1.71-R12.024) respectively. Therefore, there are no comparable data for 2017 for San Benito County. 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 1st 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

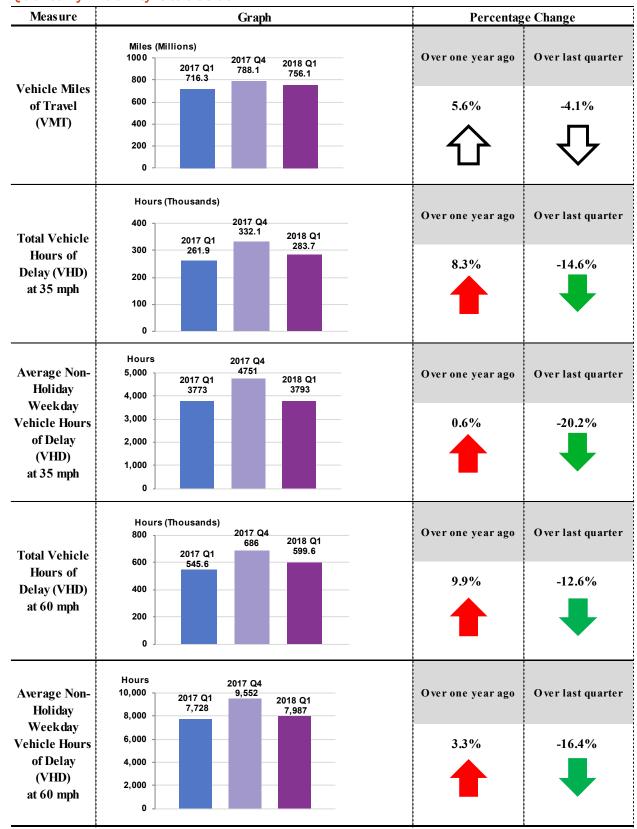
In the first quarter, total delay equaled 283,700 vehicle hours of delay (VHD) at the

35 mph speed threshold, and 599,600 VHD at the 60 mph threshold. The average weekday delay

experienced in this quarter was approximately 3,793 VHD at 35 mph, and 7,987 VHD at 60 mph.

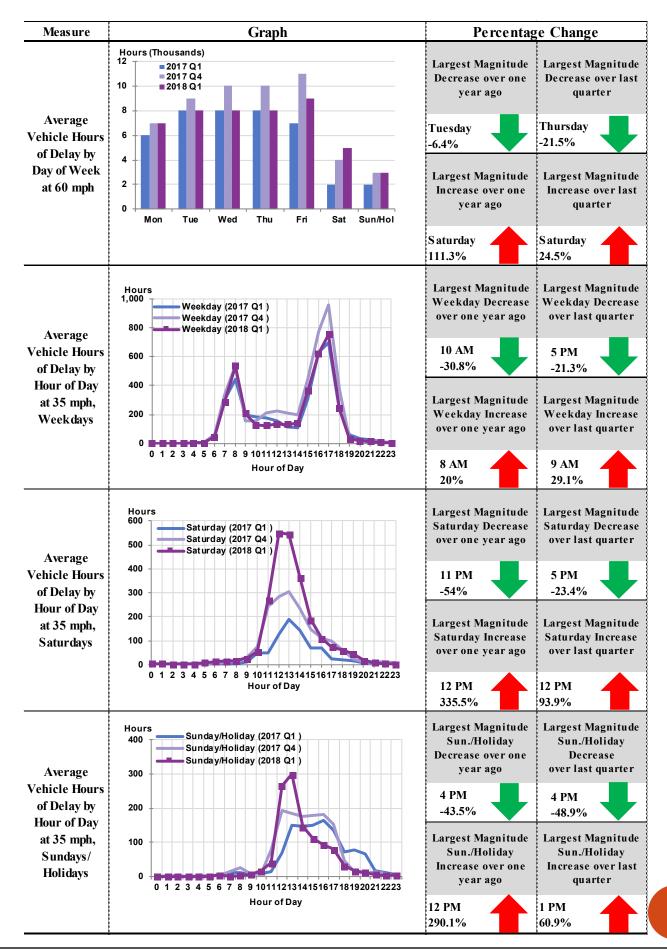
Top Ten Bottlenecks for Quarter 1

County	VDS	Fwy	Location	Туре	Shift	Abs PM	CA PM	Latitude	Longitude	# Days Active		Total Delay (veh-hrs)	Total Duration (mins)
SCR	500013151	SR1-S	STATE PARK DR AT HWY 1 SB VDS ML	ML	PM	362.07	10.772	36.979813	-121.914036	50	4.838	28783.1	6360
SCR	500014072	SR1-N	41ST ST EXIT AT HWY 1 SB VDS MLN	ML	AM	365.27	13.929	36.983207	-121.969927	55	4.36364	18169.9	5880
SB	501010102	US101-N	NORTH PADARO LANE 101 NB VDS MLN	ML	AM	90.225	7.30200	34.417097	-119.585526	42	3.74524	9819.4	4775
MON	500010101	SR1-N	SOUTH OF HWY 68 EAST AT HWY 1 NB	ML	PM	328.558	78.023	36.594593	-121.869761	33	1.97879	7756.1	3745
SCR	500014022	SR1-S	PARK AVE AT HWY 1 NB VDS MLSB SB	ML	PM	363.178	11.88	36.983854	-121.933254	57	2.99474	7641	3375
MON	500010142	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	ML	PM	330.075	79.54	36.611936	-121.85503	53	1.32453	5432.9	6090
SCR	405575	SR1-S	NB1 to NB 17 conn	ML	PM	368.018	16.72	36.989141	-122.019205	32	8.79375	4162.8	1975
SB	501010071	US101-S	SANTA CLAUS LANE 101 SB VDS MLSB	ML	PM	87.528	4.63200	34.405913	-119.543612	42	1.7	3606.9	4380
SCR	500014082	SR1-S	SOQUEL DR NEXT EXIT SIGN HWY 1 N	ML	PM	365.708	14.41	36.985023	-121.978295	28	1.86071	3421.1	1820
SCR	500014052	SR1-S	BAY AVE - PORTER ST AT HWY 1 SB	ML	PM	364.577	13.279	36.983018	-121.95851	52	1.61346	3249	2295



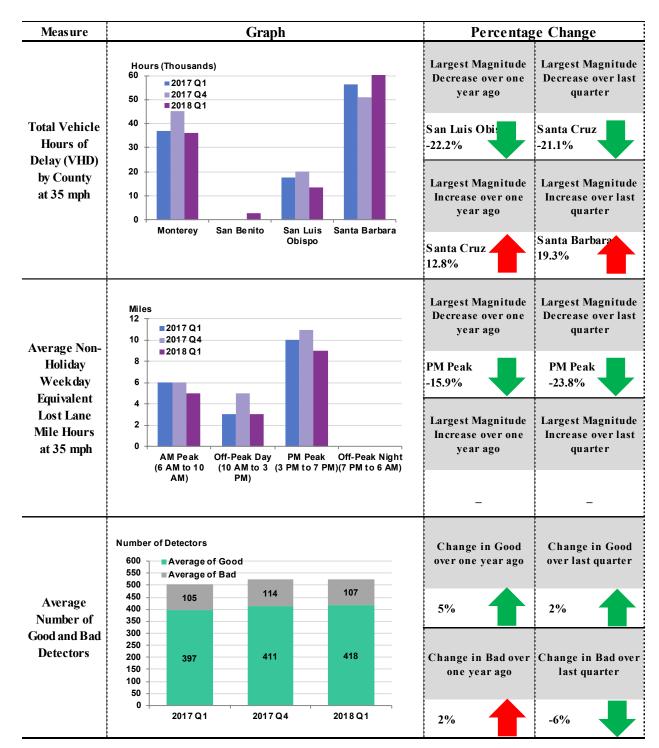
Quarterly Mobility Statistics

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Congestion by Route													
		Vehicle Hours of Delay at 35 mph				erence 1-2017 Q1		erence 1-2017 Q4	Rank				
Route	County	2017 Q1	2017 Q4	2018 Q1	Absolute	Percentage	Absolute	Percentage	2017 Q1	2017 Q4	2018 Q1		
SR1	Santa Cruz	93,365	199,360	161,009	67,644	72.5%	-38,351	-19.2%	1	1	1		
US101	Santa Barbara	56,443	51,082	60,947	4,503	8.0%	9,865	19.3%	3	2	2		
SR1	Monterey	31,737	39,315	32,822	1,085	3.4%	-6,493	-16.5%	4	3	3		
US101	San Luis Obispo	17,436	20,016	13,561	-3,876	-22.2%	-6,456	-32.3%	5	4	4		
SR17	Santa Cruz	57,639	16,411	9,274	-48,365	-83.9%	-7,137	-43.5%	2	5	5		
US101	Monterey	5,331	5,951	3,181	-2,150	-40.3%	-2,770	-46.5%	6	6	6		
SR156	San Benito	0	0	2,519	2,519		2,519				7		
SR25	San Benito	0	0	359	359		359				8		
TOTALS		261,951	332,135	283,672	21,721	8.3%	-48,463	-14.6%		•			

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