District 11 Mobility Performance Report

2017 Third Quarter

DEPARTMENT OF TRANSPORTATION

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District 11 Mobility Performance Report

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EXECUTIVE SUMMARY

Overview

Caltrans District 11 consists of both the Imperial and San Diego counties, with San Diego having a population of approximately 3,100,000 residents and Imperial County with approximately 175,000 residents. Although, District 11 is composed of these two counties, Imperial County does not report any performance data due to less population.

The Mobility Performance quarterly analysis compares traffic information with the information collected in the same quarter over a year ago. In addition, it compares traffic information with its preceding quarter. The following parameters are used to show the performance measures of the area freeways:

- 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 total congestion. These thresholds are set by Caltrans and are based upon engineering experience and District input.

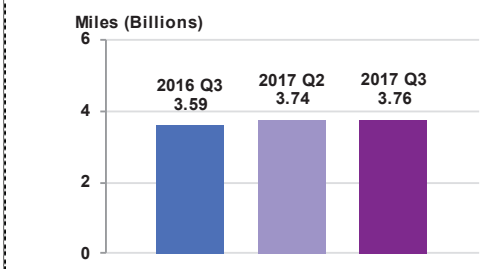
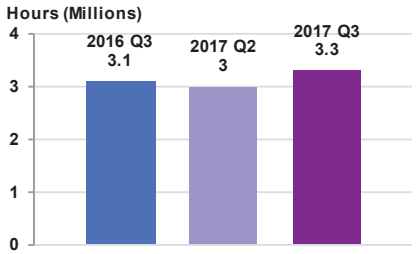
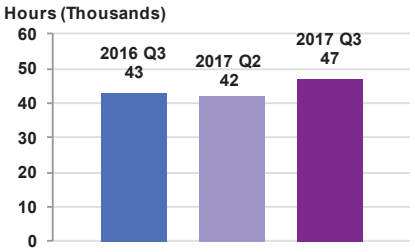
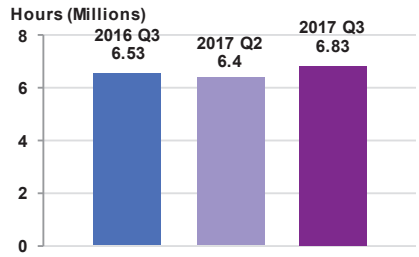
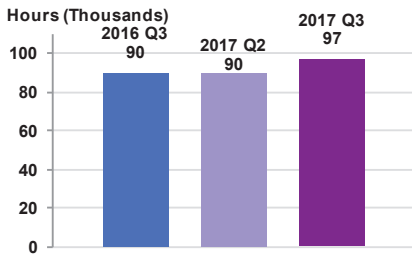
FINDINGS

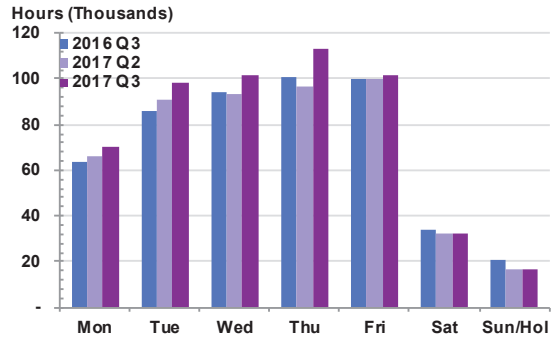
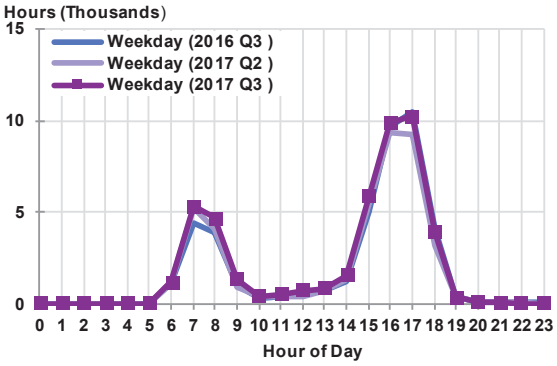
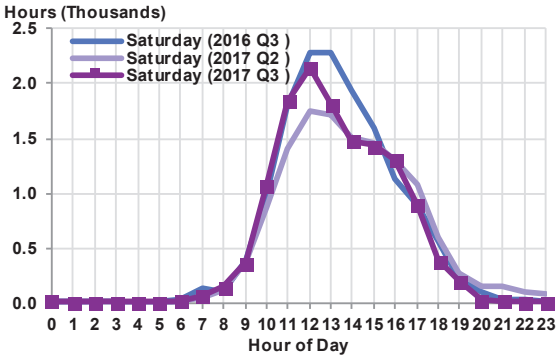
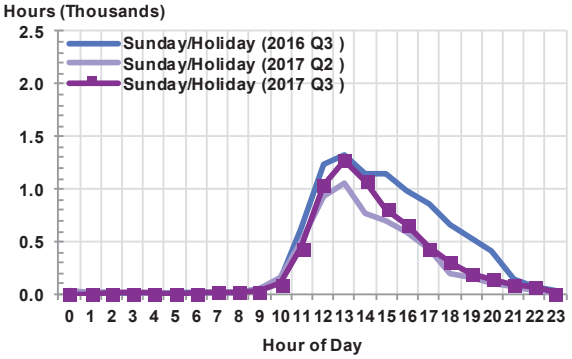
In the third quarter of 2017, the total delay equaled 3.3 million VHD at the 35 mph speed threshold, and 6.83 million VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 47 thousand VHD at 35 mph, and 97 thousand VHD at 60 mph.

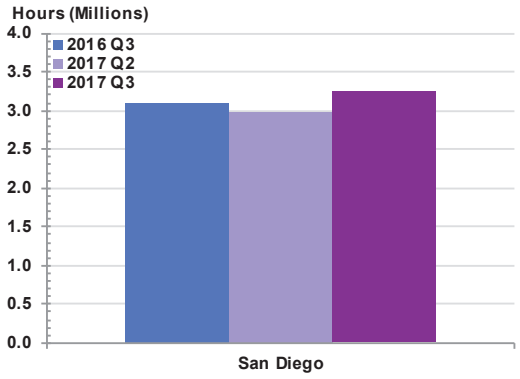
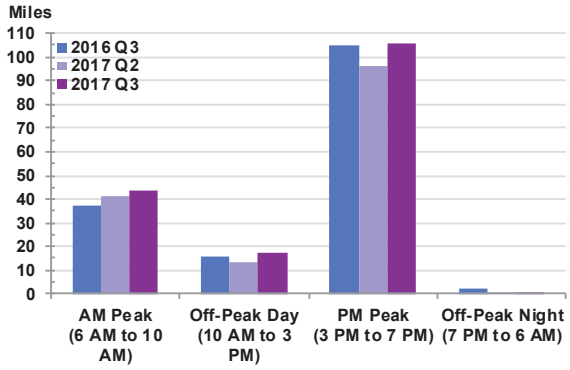
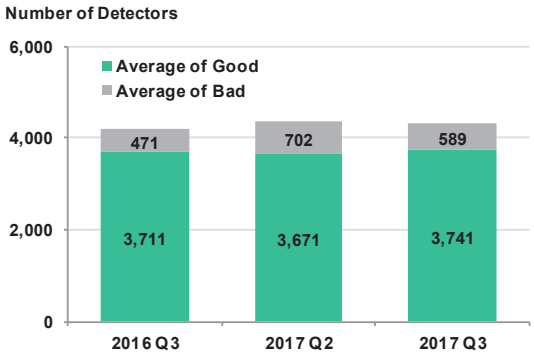
Top Ten Bottlenecks for the Quarter 3

Fwy	Location	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
I805-S	805 SB @ 15	PM	14.70	14.852	61	6.50	177,325	9,260
I5-S	EB CLAIREMONT DR	PM	21.97	R22.082	55	8.09	117,092	5,120
I5-N	Cannon Rd	PM	48.00	R48.104	63	3.69	109,721	13,490
I805-N	805 NB N-O 52	AM	23.50	23.65	60	3.13	101,481	11,650
I15-S	WB SR-274-BALBOA AVE	PM	9.37	R9.196	61	2.82	95,868	10,540
SR163-S	FRIARS RD	PM	3.68	4.277	62	3.22	94,543	9,955
I5-N	5N Lomas Santa Fe EB	PM	37.26	R37.37	61	5.15	87,211	6,155
I5-S	5 S N-O VISTA VIEW	AM	39.06	R39.201	61	5.53	77,288	7,225
I5-S	5th Ave	PM	16.00	R16.11	62	2.92	74,430	8,520
I805-S	805 SB N-O 15	PM	15.17	15.321	54	6.82	68,514	2,860

Quarterly Mobility Statistics

		Over one year ago	Over last quarter
Vehicle Miles of Travel (VMT)		4.6%	0.4%
Total Vehicle Hours of Delay (VHD) at 35 mph		4.8%	10.1%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph		8.7%	11.4%
Total Vehicle Hours of Delay (VHD) at 60 mph		4.7%	6.7%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph		8.1%	8.3%

Average Vehicle Hours of Delay by Day of Week at 60 mph		**Largest Magnitude Decrease over one year ago** **Sun/Hol -19.7%**	**Largest Magnitude Decrease over last quarter** **Saturday -0.4%**
		Largest Magnitude Increase over one year ago **Tuesday 13.6%**	**Largest Magnitude Increase over last quarter** **Thursday 15.9%**
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		**Largest Magnitude Weekday Decrease over one year ago** **5 PM -2.1%**	**Largest Magnitude Weekday Decrease over last quarter** **9 PM -43.3%**
		Largest Magnitude Weekday Increase over one year ago **7 AM 19.9%**	**Largest Magnitude Weekday Increase over last quarter** **5 PM 11.1%**
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		**Largest Magnitude Saturday Decrease over one year ago** **1 PM -20.8%**	**Largest Magnitude Saturday Decrease over last quarter** **6 PM -35.7%**
		Largest Magnitude Saturday Increase over one year ago **4 PM 16.2%**	**Largest Magnitude Saturday Increase over last quarter** **11 AM 30.1%**
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/ Holidays		**Largest Magnitude Sun./Holiday Decrease over one year ago** **5 PM -48.4%**	**Largest Magnitude Sun./Holiday Decrease over last quarter** **11 AM -14%**
		Largest Magnitude Sun./Holiday Increase over one year ago **7 AM 77.3%**	**Largest Magnitude Sun./Holiday Increase over last quarter** **2 PM 39.8%**

Total Vehicle Hours of Delay (VHD) by County at 35 mph		**Largest Magnitude Decrease over one year ago** –	**Largest Magnitude Decrease over last quarter** –
		Largest Magnitude Increase over one year ago **San Diego 4.8%**	**Largest Magnitude Increase over last quarter** **San Diego 10.1%**
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph		**Largest Magnitude Decrease over one year ago** **Off-Peak Night -17.1%**	**Largest Magnitude Decrease over last quarter** –
		Largest Magnitude Increase over one year ago **AM Peak 20%**	**Largest Magnitude Increase over last quarter** **PM Peak 10.1%**
Average Number of Good and Bad Detectors		**Change in Good over one year ago** **1%**	**Change in Good over last quarter** **1.91%**
		Change in Bad over one year ago **25%**	**Change in Bad over last quarter** **-16%**

Congestion by Route												
		Vehicle Hours of Delay at 35 mph			Difference 2017 Q3-2016 Q3		Difference 2017 Q3-2017 Q2		Rank		
Route	County	2016 Q3	2017 Q2	2017 Q3	Absolute	Percentage	Absolute	Percentage	2016 Q3	2017 Q2	2017 Q3
I5	San Diego	1,123,567	1,053,023	1,186,056	62,489	5.6%	133,033	12.6%	1	1	1
I805	San Diego	568,927	551,343	570,224	1,297	0.2%	18,881	3.4%	2	2	2
I15	San Diego	476,563	425,009	487,929	11,366	2.4%	62,920	14.8%	3	3	3
SR78	San Diego	200,739	198,276	242,489	41,750	20.8%	44,213	22.3%	4	4	4
I8	San Diego	196,762	170,084	179,066	-17,696	-9.0%	8,982	5.3%	5	5	5
SR163	San Diego	160,213	138,430	157,981	-2,232	-1.4%	19,551	14.1%	6	7	6
SR125	San Diego	136,991	132,304	155,805	18,815	13.7%	23,502	17.8%	7	8	7
SR52	San Diego	116,268	143,373	133,003	16,735	14.4%	-10,371	-7.2%	8	6	8
SR94	San Diego	64,668	80,928	74,022	9,355	14.5%	-6,906	-8.5%	9	9	9
SR56	San Diego	61,651	54,335	66,252	4,601	7.5%	11,917	21.9%	10	10	10
I905	San Diego	2,161	7,800	4,022	1,861	86.1%	-3,778	-48.4%	12	11	11
SR54	San Diego	6,236	2,458	3,958	-2,278	-36.5%	1,500	61.0%	11	13	12
SR76	San Diego	0	6,368	3,656	3,656		-2,712	-42.6%		12	13
SR67	San Diego	0	1,713	389	389		-1,324	-77.3%		14	14
TOTALS		**3,114,747**	**2,965,445**	**3,264,853**	**150,106**	**4.8%**	**299,408**	**10.1%**			

SR67 and SR76: The reason why the difference between 2016 Q3 and 2017 Q3 is showing blank, is due to the fact that the detection data started to appear on 2016 Q4.