District 11 Mobility Performance Report

2019 Fourth Quarter

DEPARTMENT OF TRANSPORTATION

January 23, 2020
District 11-Advance Transportation Systems

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 3,095,313 residents and Imperial County with approximately 174,528 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

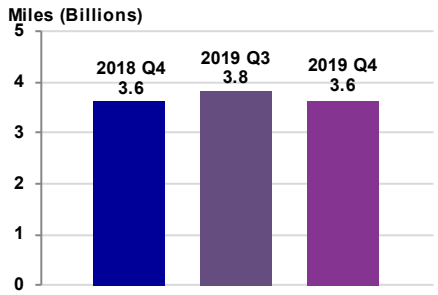
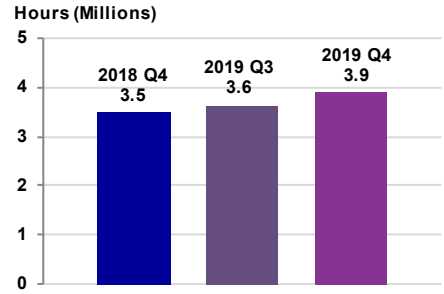
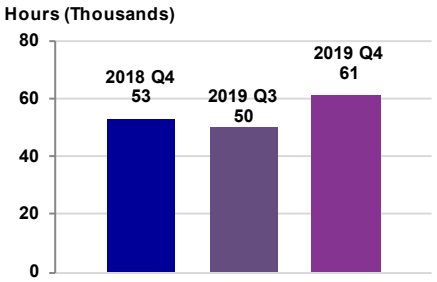
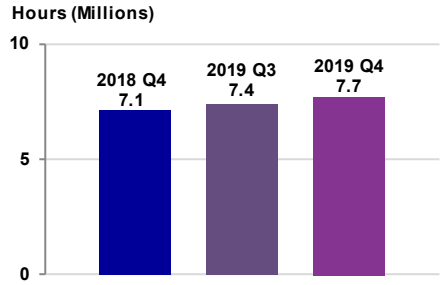
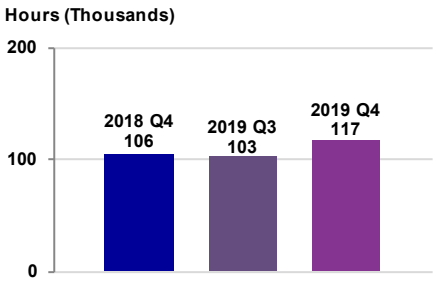
60 mph represents total congestion. These thresholds are set by Caltrans and are based upon engineering experience and District input.

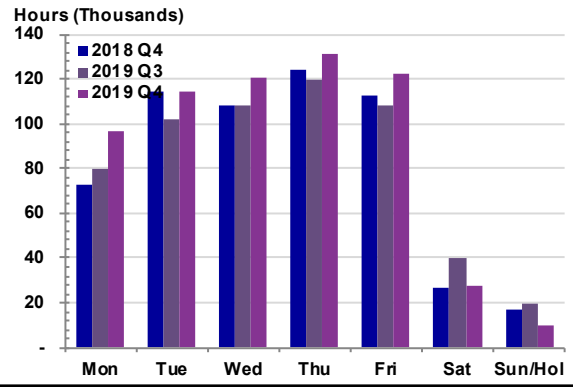
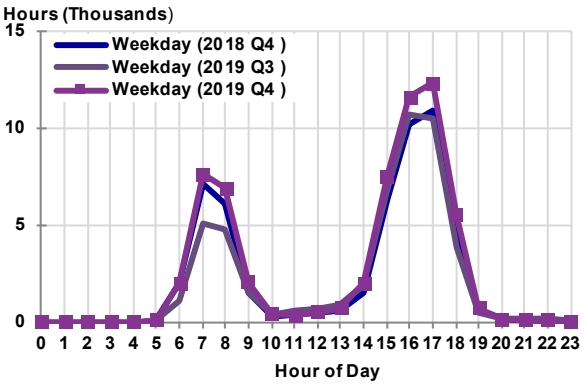
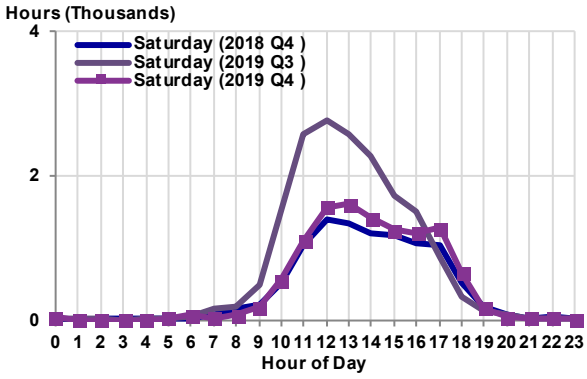
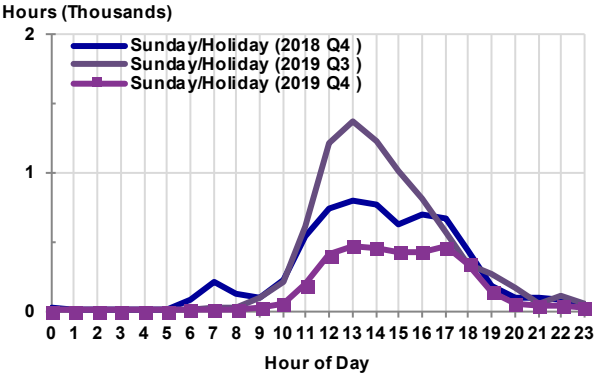
FINDINGS

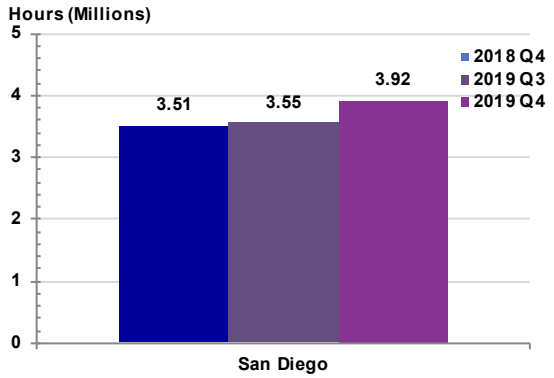
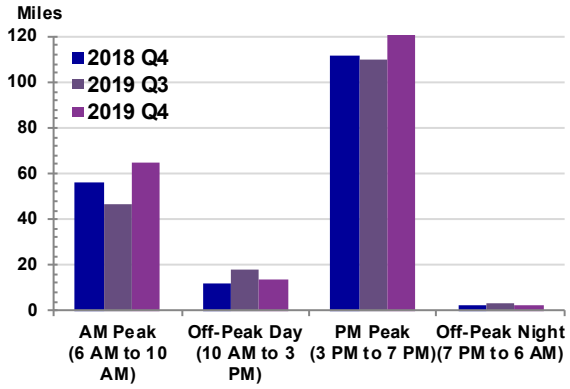
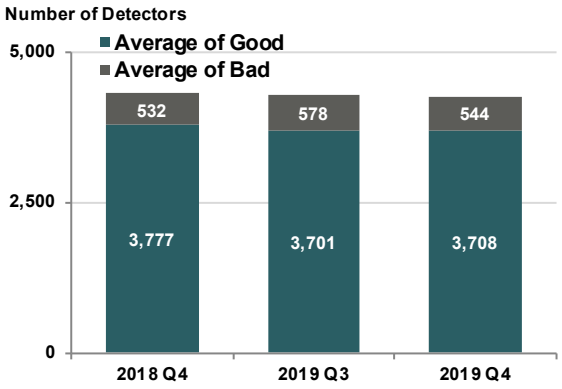
In the fourth quarter of 2019, the total delay equaled 3.9 million VHD at the 35mph speed threshold, and 7.7 million VHD at the 60mph threshold. The average weekday delay experienced in this quarter was approximately 61 thousand VHD at 35 mph, and 117 thousand VHD at 60 mph.

Top Ten Bottlenecks for the 2019 Fourth Quarter:

Fwy	Location	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
I805-S	805 SB N-O 15	PM	15.17	15.321	56	8.93	157,259.10	5,365.00
I805-N	805 NB N-O 52	AM	23.50	23.65	56	3.64	137,786.10	11,590.00
I805-S	805 SB @ 15	PM	14.70	14.852	52	7.33	113,514.00	5,025.00
I805-N	At I?15	AM	14.70	14.85	54	4.13	109,783.20	7,835.00
I15-N	15 NB N-O Mission Rd	PM	52.35	R52.09	47	5.06	90,535.20	7,620.00
SR78-E	Barham Dr	PM	14.86	14.86	56	5.59	89,346.80	7,420.00
I5-N	Cannon Rd	PM	48.00	R48.104	59	3.78	87,203.60	9,050.00
I5-S	5th Ave	PM	16.00	R16.11	55	2.79	82,604.80	7,430.00
I5-N	NB 5 @ B ST	AM	15.23	R15.34	53	3.74	78,790.50	7,025.00
I5-S	EB CLAIREMONT DR	PM	21.97	R22.082	50	7.16	72,383.50	3,360.00

Measure	Graph	Percentage Change	
		Over one year ago	Over last quarter
Vehicle Miles of Travel (VMT)		-0.2%	-4.6%
Total Vehicle Hours of Delay (VHD) at 35 mph		11.7%	10.4%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph		13.7%	21.5%
Total Vehicle Hours of Delay (VHD) at 60 mph		7.9%	3.8%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph		10.3%	13.6%

Average Vehicle Hours of Delay by Day of Week at 60 mph		**Largest Magnitude Decrease over one year ago** **Sun/Hol** **-40.9%** **Largest Magnitude Increase over one year ago** **Monday** **33.5%**	**Largest Magnitude Decrease over last quarter** **Saturday** **-29.6%** **Largest Magnitude Increase over last quarter** **Monday** **20.7%**
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		**Largest Magnitude Weekday Decrease over one year ago** **4 AM** **-4.2%** **Largest Magnitude Weekday Increase over one year ago** **4 PM** **13.8%**	**Largest Magnitude Weekday Decrease over last quarter** **11 AM** **-37.4%** **Largest Magnitude Weekday Increase over last quarter** **7 AM** **49.9%**
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		**Largest Magnitude Saturday Decrease over one year ago** **8 AM** **-51.4%** **Largest Magnitude Saturday Increase over one year ago** **1 PM** **20.3%**	**Largest Magnitude Saturday Decrease over last quarter** **11 AM** **-56.9%** **Largest Magnitude Saturday Increase over last quarter** **5 PM** **44.4%**
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/ Holidays		**Largest Magnitude Sun./Holiday Decrease over one year ago** **11 AM** **-63%** **Largest Magnitude Sun./Holiday Increase over one year ago** **11 PM** **5.6%**	**Largest Magnitude Sun./Holiday Decrease over last quarter** **1 PM** **-65.4%** **Largest Magnitude Sun./Holiday Increase over last quarter** **12 AM** **9.5%**

		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
Total Vehicle Hours of Delay (VHD) by County at 35 mph		–	–
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		San Diego 11.7%	San Diego 10.4%
		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph		–	Off-Peak Day -22.4%
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		PM Peak 11.2%	AM Peak 39.9%
		Change in Good over one year ago	Change in Good over last quarter
Average Number of Good and Bad Detectors		-1.8%	0.2%
		Change in Bad over one year ago	Change in Bad over last quarter
		2%	-6%

Congestion by Route												
		Vehicle Hours of Delay at 35 mph			Difference 2019 Q4-2018 Q4		Difference 2019 Q4-2019 Q3		Rank		
Route	County	2018 Q4	2019 Q3	2019 Q4	Absolute	Percentage	Absolute	Percentage	2018 Q4	2019 Q3	2019 Q4
I5	San Diego	1,175,328	1,331,558	1,246,991	71,664	6.1%	-84,566	-6.4%	1	1	1
I15	San Diego	622,039	611,187	762,369	140,330	22.6%	151,183	24.7%	3	3	2
I805	San Diego	668,175	640,136	747,346	79,170	11.8%	107,210	16.7%	2	2	3
SR78	San Diego	263,893	247,553	284,073	20,180	7.6%	36,520	14.8%	4	4	4
SR125	San Diego	200,239	178,961	234,278	34,039	17.0%	55,317	30.9%	5	5	5
I8	San Diego	182,099	175,847	219,445	37,346	20.5%	43,598	24.8%	6	6	6
SR163	San Diego	129,161	137,224	144,988	15,827	12.3%	7,764	5.7%	7	7	7
SR52	San Diego	95,238	83,139	98,334	3,096	3.3%	15,196	18.3%	8	8	8
SR94	San Diego	91,368	54,836	90,548	-820	-0.9%	35,712	65.1%	9	10	9
SR56	San Diego	70,335	72,137	75,106	4,771	6.8%	2,969	4.1%	10	9	10
SR76	San Diego	3,142	5,983	7,760	4,618	147.0%	1,777	29.7%	13	12	11
SR54	San Diego	3,590	2,044	3,757	167	4.7%	1,713	83.8%	12	13	12
I905	San Diego	4,141	9,277	3,449	-692	-16.7%	-5,829	-62.8%	11	11	13
SR67	San Diego	502	131	1,560	1,058	210.8%	1,429	1092.5%	14	14	14
SR11	San Diego	0	1	5	5		4	512.5%		15	15
TOTALS		**3,509,250**	**3,550,014**	**3,920,008**	**410,758**	**11.7%**	**369,994**	**10.4%**			