District 11 Mobility Performance Report

2020 Third Quarter

DEPARTMENT OF TRANSPORTATION

October 29, 2020

District 11- Traffic System Performance

District 11 Mobility Performance Report

2020 Third Quarter

EXECUTIVE SUMMARY

Overview

Caltrans District 11 consists of both the Imperial and San Diego counties, with San Diego having a population of approximately 3,338,330 residents and Imperial County with approximately 181,215 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

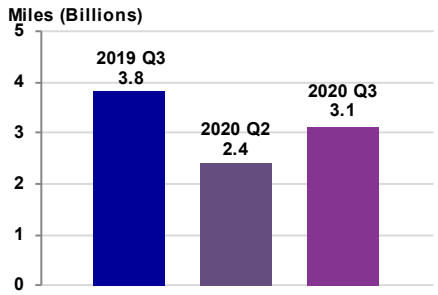
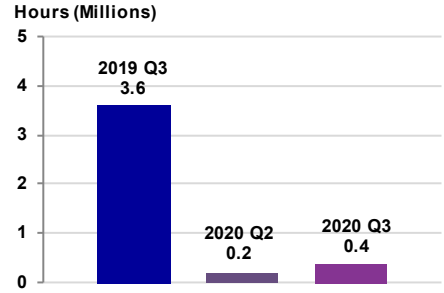
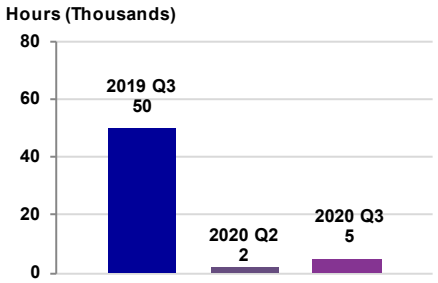
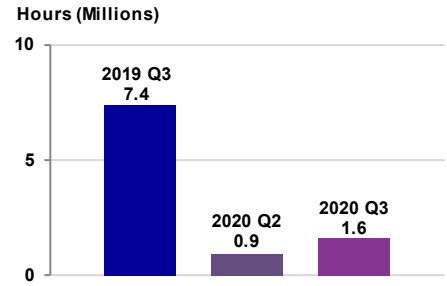
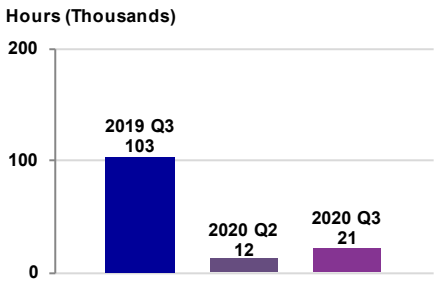
60 mph represents total congestion. These thresholds are set by Caltrans and are based upon engineering experience and District input.

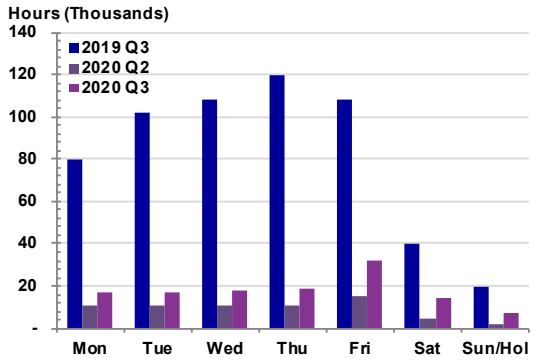
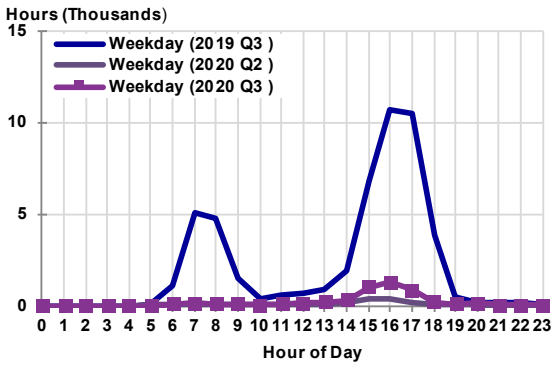
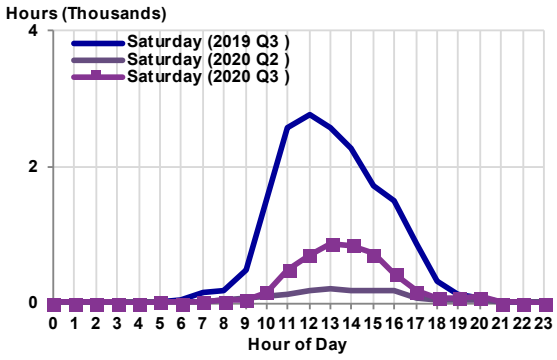
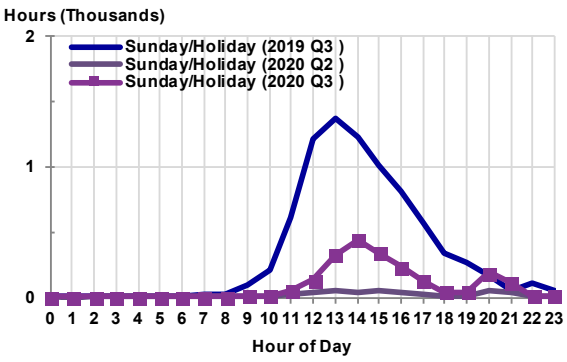
FINDINGS

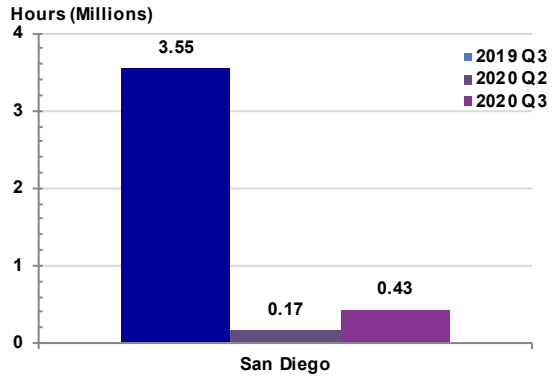
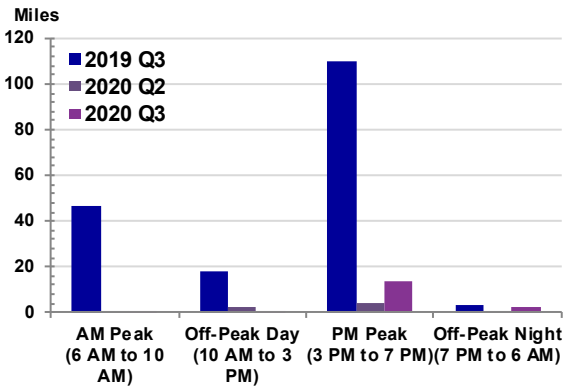
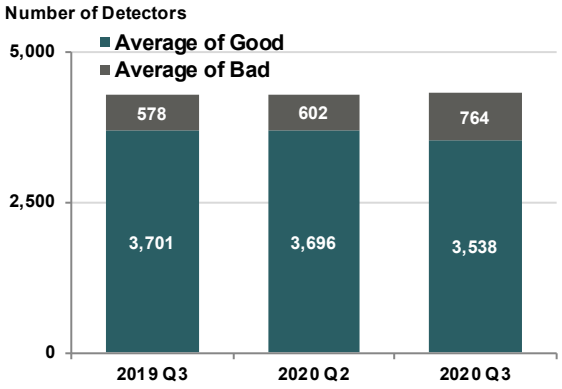
In the third quarter of 2020, the total delay equaled 0.4 million VHD at the 35mph speed threshold, and 1.6 million VHD at the 60mph threshold. The average weekday delay experienced in this quarter was approximately 5 thousand VHD at 35 mph, and 21 thousand VHD at 60 mph.

Top Ten Bottlenecks for the 2020 Third Quarter:

County	Shift	Fwy	Direction	Name	Abs PM	CA PM	Latitude	Longitude	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
San Diego	PM	I5-S	S	Oceanside Blvd	52.266	R52.408	33.191277	-117.363281	15	7.18	41,477.80	2,435.00
San Diego	PM	SR78-E	E	Twin Oaks Valley Rd	13.018	13.022	33.137161	-117.161693	57	2.68	26,657.80	6,560.00
San Diego	PM	SR125-S	S	GROSSMONT BLVD	17.418	R15.015	32.759045	-117.005049	52	1.80	21,146.00	5,580.00
San Diego	PM	SR125-N	N	125 NB CONNECTOR	16.967	R15.216	32.774782	-117.002684	46	2.62	15,843.50	3,085.00
San Diego	PM	I15-N	N	15 NB N-O Mission Rd	52.347	R52.09	33.406738	-117.164546	27	4.32	13,597.10	1,835.00
San Diego	PM	I5-N	N	Cannon Rd	47.995	R48.104	33.136145	-117.330076	33	1.78	10,462.20	2,935.00
San Diego	PM	I5-S	S	N-O DIVISION	11.848	R11.951	32.686001	-117.113072	46	0.66	7,415.20	3,320.00
San Diego	PM	I15-N	N	15 NB S-O Rte 76	45.717	R45.46	33.317188	-117.153998	2	3.90	7,007.20	355.00
San Diego	PM	I805-S	S	805 SB @ 15	14.703	14.852	32.734636	-117.113512	29	1.89	6,088.00	1,480.00
San Diego	PM	I15-S	S	WB SR-274-BALBOA AVE	9.367	R9.196	32.822271	-117.116575	37	1.28	5,615.80	2,305.00

Measure	Graph	Percentage Change	
		Over one year ago	Over last quarter
Vehicle Miles of Travel (VMT)		-17%	27.6%
Total Vehicle Hours of Delay (VHD) at 35 mph		-87.9%	155%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph		-89.7%	141.7%
Total Vehicle Hours of Delay (VHD) at 60 mph		-78.5%	86.3%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph		-80.1%	74.4%

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago Thursday -83.8%	Largest Magnitude Decrease over last quarter –
		Largest Magnitude Increase over one year ago –	Largest Magnitude Increase over last quarter Friday 119%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		Largest Magnitude Weekday Decrease over one year ago 5 PM -91.9%	Largest Magnitude Weekday Decrease over last quarter 2 AM -60%
		Largest Magnitude Weekday Increase over one year ago –	Largest Magnitude Weekday Increase over last quarter 4 PM 223.7%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago 11 AM -80.7%	Largest Magnitude Saturday Decrease over last quarter 9 AM -20.9%
		Largest Magnitude Saturday Increase over one year ago 8 PM 41.4%	Largest Magnitude Saturday Increase over last quarter 2 PM 346.2%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/ Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago 12 PM -88.2%	Largest Magnitude Sun./Holiday Decrease over last quarter 3 AM -48.9%
		Largest Magnitude Sun./Holiday Increase over one year ago 9 PM 98%	Largest Magnitude Sun./Holiday Increase over last quarter 2 PM 971.7%

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph		Largest Magnitude Decrease over one year ago San Diego -87.9%	Largest Magnitude Decrease over last quarter –
		Largest Magnitude Increase over one year ago –	Largest Magnitude Increase over last quarter San Diego 155%
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph		Largest Magnitude Decrease over one year ago PM Peak -86.9%	Largest Magnitude Decrease over last quarter Off-Peak Day -38.5%
		Largest Magnitude Increase over one year ago –	Largest Magnitude Increase over last quarter PM Peak 249.3%
Average Number of Good and Bad Detectors		Change in Good over one year ago -4.4%	Change in Good over last quarter -4.3%
		Change in Bad over one year ago 32%	Change in Bad over last quarter 27%

Congestion by Route											
		Vehicle Hours of Delay at 35 mph			Difference 2020 Q3-2019 Q3		Difference 2020 Q3-2020 Q2		Rank		
Route	County	2019 Q3	2020 Q2	2020 Q3	Absolute	Percentage	Absolute	Percentage	2019 Q3	2020 Q2	2020 Q3
I5	San Diego	1,331,558	25,299	188,503	-1,143,055	-85.8%	163,204	645.1%	1	4	1
I15	San Diego	611,187	37,360	68,785	-542,402	-88.7%	31,425	84.1%	3	1	2
SR78	San Diego	247,553	31,057	48,889	-198,664	-80.3%	17,832	57.4%	4	2	3
SR125	San Diego	178,961	20,338	39,470	-139,490	-77.9%	19,133	94.1%	5	5	4
I805	San Diego	640,136	26,338	33,397	-606,739	-94.8%	7,059	26.8%	2	3	5
I8	San Diego	175,847	14,374	19,781	-156,066	-88.8%	5,407	37.6%	6	6	6
SR52	San Diego	83,139	1,196	15,342	-67,797	-81.5%	14,146	1182.8%	8	10	7
I905	San Diego	9,277	4,775	6,105	-3,172	-34.2%	1,331	27.9%	11	8	8
SR163	San Diego	137,224	347	4,418	-132,806	-96.8%	4,071	1172.9%	7	12	9
SR76	San Diego	5,983	1,574	3,491	-2,493	-41.7%	1,916	121.7%	12	9	10
SR94	San Diego	54,836	4,905	1,489	-53,347	-97.3%	-3,416	-69.6%	10	7	11
SR54	San Diego	2,044	237	427	-1,617	-79.1%	190	80.3%	13	14	12
SR56	San Diego	72,137	243	355	-71,782	-99.5%	112	45.9%	9	13	13
SR67	San Diego	131	799	31	-100	-76.1%	-768	-96.1%	14	11	14
SR11	San Diego	1	0	0	-1	-87.5%	0	-66.7%	15	15	15
TOTALS		**3,550,014**	**168,842**	**430,484**	**-3,119,530**	**-87.9%**	**261,642**	**155.0%**			