District 11 Mobility Performance Report

2020 Second Quarter

DEPARTMENT OF TRANSPORTATION

July 30, 2020

District 11- Traffic System Performance

District 11 Mobility Performance Report

2020 Second 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

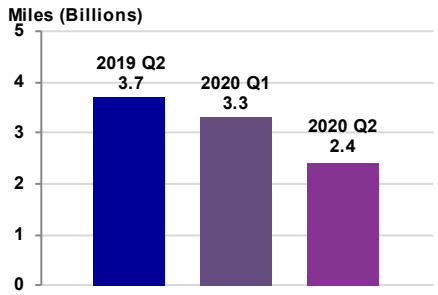
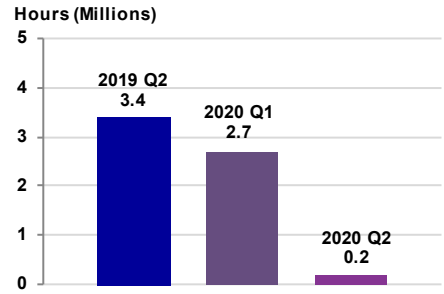
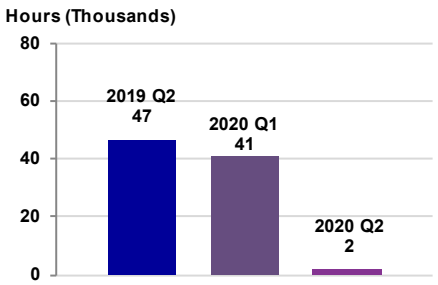
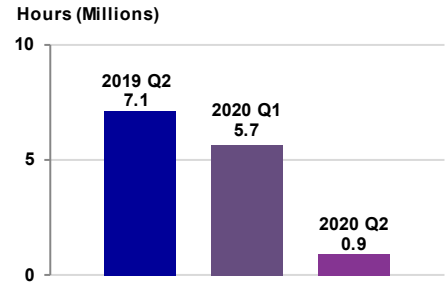
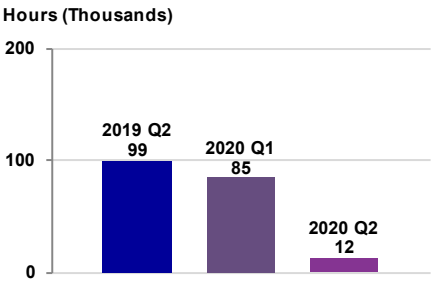
60 mph represents total congestion. These thresholds are set by Caltrans and are based upon engineering experience and District input.

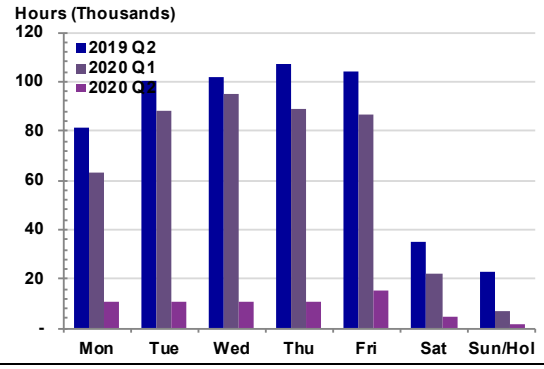
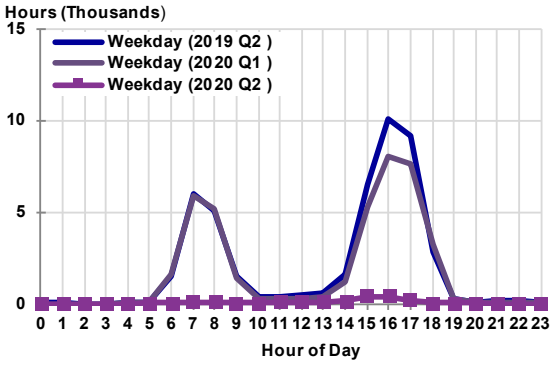
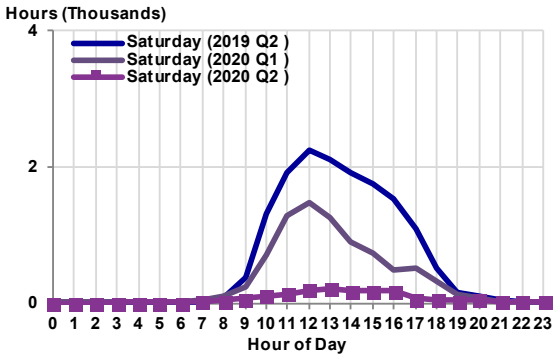
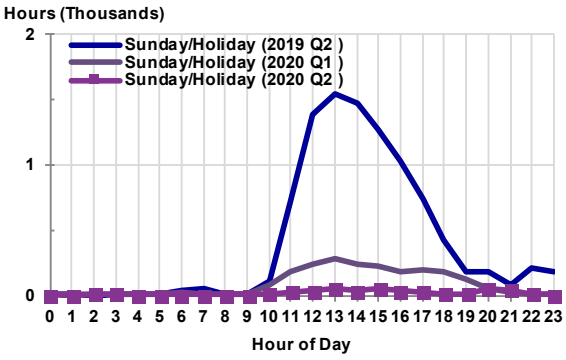
FINDINGS

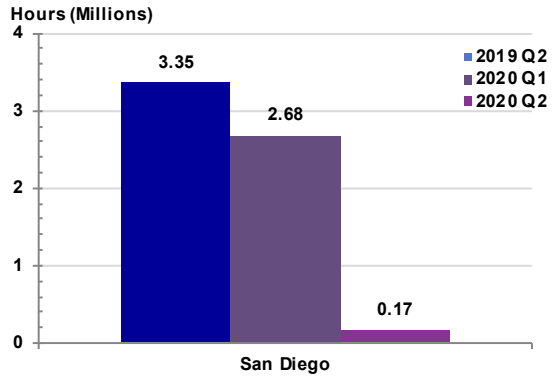
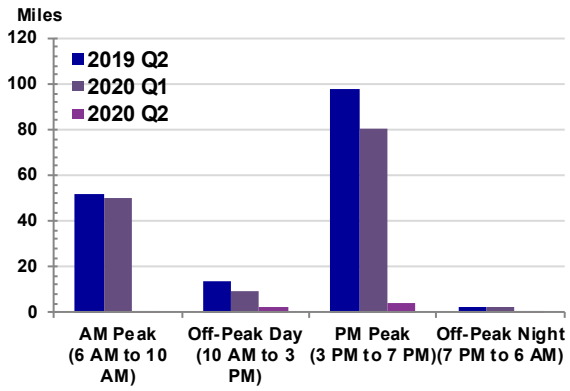
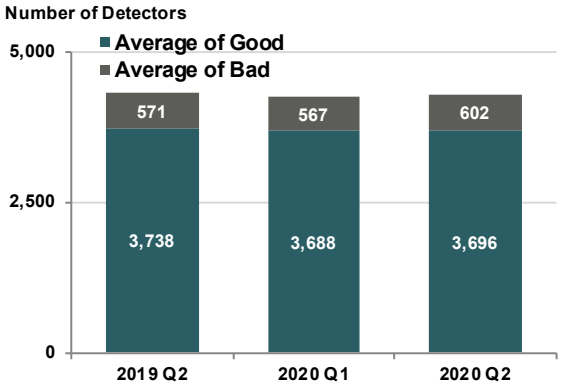
In the second quarter of 2020, the total delay equaled 0.2 million VHD at the 35mph speed threshold, and 0.9 million VHD at the 60mph threshold. The average weekday delay experienced in this quarter was approximately 2 thousand VHD at 35 mph, and 12 thousand VHD at 60 mph.

Top Ten Bottlenecks for the 2020 Second Quarter:

Fwy	Location	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
SR78-E	Twin Oaks Valley Rd	PM	13.02	13.022	22	2.63	9,973.30	2,275.00
I15-N	15 NB N-O Mission Rd	PM	52.35	R52.09	11	4.80	8,079.00	940.00
SR125-S	GROSSMONT BLVD	PM	17.42	R15.015	19	1.80	7,823.10	1,735.00
SR125-N	125 NB CONNECTOR	PM	16.97	R15.216	19	2.60	5,781.90	1,090.00
I5-S	Oceanside Blvd	PM	52.27	R52.408	5	2.58	3,293.70	495.00
I5-S	N-O DIVISION	PM	11.85	R11.951	15	0.71	2,717.20	1,050.00
I805-S	Imperial Ave	PM	12.20	12.347	2	3.45	2,568.20	125.00
I805-S	SB805 HOV Plaza Blvd	PM	9.83	9.976	55	0.60	2,052.40	8,915.00
SR78-W	EL CAMINO REAL	AM	1.38	1.387	3	3.63	1,522.80	280.00
I805-S	SB805 HOV Plaza Blvd	AM	9.83	9.976	46	0.60	1,512.50	5,590.00

Measure	Graph	Percentage Change	
		Over one year ago	Over last quarter
Vehicle Miles of Travel (VMT)		-34%	-25.1%
Total Vehicle Hours of Delay (VHD) at 35 mph		-95%	-93.7%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph		-95.5%	-94.8%
Total Vehicle Hours of Delay (VHD) at 60 mph		-87.9%	-84.9%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph		-88%	-86.1%

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago Thursday -89.5%	Largest Magnitude Decrease over last quarter Wednesday -88.1%
		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 4 PM -96%	Largest Magnitude Weekday Decrease over last quarter 4 PM -95%
		Largest Magnitude Weekday Increase over one year ago 3 AM 5.1%	Largest Magnitude Weekday Increase over last quarter 2 AM 18.6%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago 12 PM -91.2%	Largest Magnitude Saturday Decrease over last quarter 12 PM -86.7%
		Largest Magnitude Saturday Increase over one year ago 10 PM 103.1%	Largest Magnitude Saturday Increase over last quarter 10 PM 24.6%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/ Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago 1 PM -96.3%	Largest Magnitude Sun./Holiday Decrease over last quarter 1 PM -79.9%
		Largest Magnitude Sun./Holiday Increase over one year ago 2 AM 229%	Largest Magnitude Sun./Holiday Increase over last quarter 9 PM 51.5%

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph		Largest Magnitude Decrease over one year ago San Diego -95% Largest Magnitude Increase over one year ago –	Largest Magnitude Decrease over last quarter San Diego -93.7% Largest Magnitude Increase over last quarter –
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph		Largest Magnitude Decrease over one year ago PM Peak -95.8% Largest Magnitude Increase over one year ago –	Largest Magnitude Decrease over last quarter PM Peak -94.8% Largest Magnitude Increase over last quarter –
Average Number of Good and Bad Detectors		Change in Good over one year ago -1.1% Change in Bad over one year ago 6%	Change in Good over last quarter 0.2% Change in Bad over last quarter 6%

Congestion by Route											
		Vehicle Hours of Delay at 35 mph			Difference 2020 Q2-2019 Q2		Difference 2020 Q2-2020 Q1		Rank		
Route	County	2019 Q2	2020 Q1	2020 Q2	Absolute	Percentage	Absolute	Percentage	2019 Q2	2020 Q1	2020 Q2
I15	San Diego	645,955	533,607	37,360	-608,595	-94.2%	-496,247	-93.0%	2	3	1
SR78	San Diego	223,334	189,365	31,057	-192,278	-86.1%	-158,308	-83.6%	4	4	2
I805	San Diego	604,900	542,661	26,338	-578,563	-95.6%	-516,323	-95.1%	3	2	3
I5	San Diego	1,208,222	801,507	25,299	-1,182,923	-97.9%	-776,208	-96.8%	1	1	4
SR125	San Diego	170,862	174,531	20,338	-150,525	-88.1%	-154,193	-88.3%	5	5	5
I8	San Diego	153,902	144,116	14,374	-139,528	-90.7%	-129,742	-90.0%	6	6	6
SR94	San Diego	60,768	63,380	4,905	-55,863	-91.9%	-58,475	-92.3%	9	10	7
I905	San Diego	3,573	6,298	4,775	1,202	33.6%	-1,523	-24.2%	12	11	8
SR76	San Diego	3,642	3,741	1,574	-2,068	-56.8%	-2,166	-57.9%	11	12	9
SR52	San Diego	86,631	73,306	1,196	-85,435	-98.6%	-72,110	-98.4%	8	8	10
SR67	San Diego	698	746	799	101	14.5%	54	7.2%	14	14	11
SR163	San Diego	129,276	81,877	347	-128,929	-99.7%	-81,530	-99.6%	7	7	12
SR56	San Diego	59,542	63,724	243	-59,298	-99.6%	-63,480	-99.6%	10	9	13
SR54	San Diego	2,008	1,711	237	-1,771	-88.2%	-1,474	-86.1%	13	13	14
SR11	San Diego	0	51	0	0		-51	-99.4%		15	15
TOTALS		**3,353,313**	**2,680,619**	**168,842**	**-3,184,471**	**-95.0%**	**-2,511,776**	**-93.7%**			