District 11 Mobility Performance Report

2020 Fourth Quarter

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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 3,338,330 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:

- o Vehicle Miles of Travel (VMT))
- o Vehicle Hours of Delay (VHD), Bottleneck Locations
- o Lost Lane Miles (equivalent lost productivity)
- o 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.
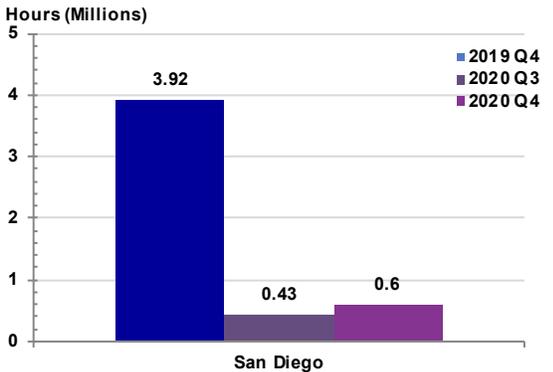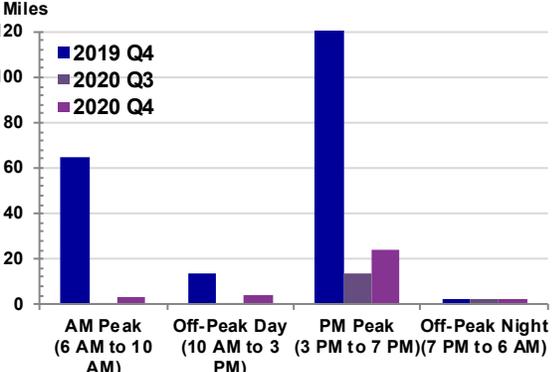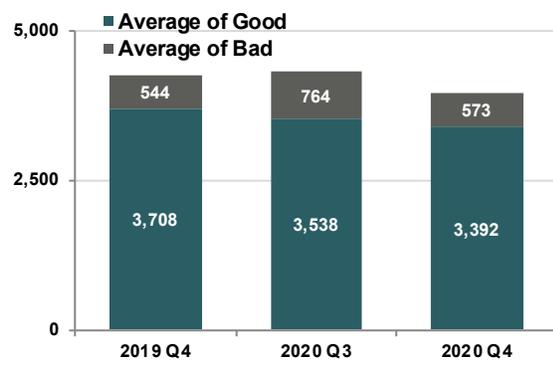
FINDINGS

In the fourth quarter of 2020, the total delay equaled 0.6 million VHD at the 35mph speed threshold, and 2 million VHD at the 60mph threshold. The average weekday delay experienced in this quarter was approximately 8 thousand VHD at 35 mph, and 28 thousand VHD at 60 mph.

Top Ten Bottlenecks for the 2020 Fourth 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	I15-N	N	15 NB N-O Mission Rd	52.35	52.09	33.41	-117.16	34	4.78	44,667.40	4,405.00
San Diego	PM	SR125-S	S	GROSSMONT BLVD	17.42	15.015	32.76	-117.01	58	1.40	32,571.20	7,430.00
San Diego	PM	SR78-E	E	Twin Oaks Valley Rd	13.02	13.022	33.14	-117.16	54	3.20	29,809.60	5,335.00
San Diego	PM	SR125-N	N	125 NB CONNECTOR	16.97	15.216	32.77	-117.00	52	2.60	25,537.20	4,740.00
San Diego	PM	I5-S	S	Oceanside Blvd	52.27	52.408	33.19	-117.36	18	4.22	24,309.80	1,895.00
San Diego	PM	I5-N	N	Cannon Rd	48.00	48.104	33.14	-117.33	43	2.84	23,753.80	4,275.00
San Diego	PM	SR78-E	E	Barham Dr	14.86	14.86	33.14	-117.13	25	4.50	15,952.50	1,710.00
San Diego	PM	SR78-W	W	Nordahl Rd	15.37	15.37	33.13	-117.12	53	0.95	13,660.40	6,360.00
San Diego	PM	I5-S	S	N-O CMNO DE LA PLAZA	0.22	.311	32.54	-117.03	31	0.70	12,967.80	4,095.00
San Diego	PM	I805-S	S	805 SB @ 15	14.70	14.852	32.73	-117.11	36	2.11	11,482.40	2,520.00

Measure	Graph	Percentage Change	

Measure	Graph	Over one year ago	Over last quarter
Vehicle Miles of Travel (VMT)	Miles (Billions) 2019 Q4 3.6 2020 Q3 3.1 2020 Q4 3	**-16.4%** ⬇	**-3.8%** ⬇
Total Vehicle Hours of Delay (VHD) at 35 mph	Hours (Millions) 2019 Q4 3.9 2020 Q3 0.4 2020 Q4 0.6	**-84.7%** ⬇	**39%** ⬆
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	Hours (Thousands) 2019 Q4 61 2020 Q3 5 2020 Q4 8	**-86.5%** ⬇	**59.3%** ⬆
Total Vehicle Hours of Delay (VHD) at 60 mph	Hours (Millions) 2019 Q4 7.7 2020 Q3 1.6 2020 Q4 2	**-74.7%** ⬇	**22.6%** ⬆
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	Hours (Thousands) 2019 Q4 117 2020 Q3 21 2020 Q4 28	**-76.4%** ⬇	**34.6%** ⬆

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		**Largest Magnitude Decrease over one year ago** **Thursday -79.7%** ⬇	**Largest Magnitude Decrease over last quarter** **Saturday -8.9%** ⬇
		Largest Magnitude Increase over one year ago –	**Largest Magnitude Increase over last quarter** **Friday 31.3%** ⬆
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		**Largest Magnitude Weekday Decrease over one year ago** **5 PM -84.8%** ⬇	**Largest Magnitude Weekday Decrease over last quarter** **8 PM -63.1%** ⬇
		Largest Magnitude Weekday Increase over one year ago **4 AM 8.6%** ⬆	**Largest Magnitude Weekday Increase over last quarter** **5 PM 119.8%** ⬆
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		**Largest Magnitude Saturday Decrease over one year ago** **12 PM -63.4%** ⬇	**Largest Magnitude Saturday Decrease over last quarter** **1 PM -22%** ⬇
		Largest Magnitude Saturday Increase over one year ago **11 PM 78.5%** ⬆	**Largest Magnitude Saturday Increase over last quarter** **4 PM 35.8%** ⬆
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 -65.5%** ⬇	**Largest Magnitude Sun./Holiday Decrease over last quarter** **8 PM -85.4%** ⬇
		Largest Magnitude Sun./Holiday Increase over one year ago **6 AM 166.5%** ⬆	**Largest Magnitude Sun./Holiday Increase over last quarter** **12 PM 54.3%** ⬆

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph	Hours (Millions) 3.92 (2019 Q4), 0.43 (2020 Q3), 0.6 (2020 Q4) San Diego	**Largest Magnitude Decrease over one year ago** **San Diego -84.7%** ⬇ **Largest Magnitude Increase over one year ago** –	**Largest Magnitude Decrease over last quarter** – **Largest Magnitude Increase over last quarter** **San Diego 39%** ⬆
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph	Miles AM Peak (6 AM to 10 AM), Off-Peak Day (10 AM to 3 PM), PM Peak (3 PM to 7 PM), Off-Peak Night (7 PM to 6 AM)	**Largest Magnitude Decrease over one year ago** **PM Peak -80.6%** ⬇ **Largest Magnitude Increase over one year ago** –	**Largest Magnitude Decrease over last quarter** – **Largest Magnitude Increase over last quarter** **PM Peak 67.5%** ⬆
Average Number of Good and Bad Detectors	Number of Detectors Average of Good / Average of Bad 2019 Q4: 3,708 / 544 2020 Q3: 3,538 / 764 2020 Q4: 3,392 / 573	**Change in Good over one year ago** -8.5% ⬇ **Change in Bad over one year ago** 5% ⬆	**Change in Good over last quarter** -4.1% ⬇ **Change in Bad over last quarter** -25% ⬇

		Vehicle Hours of Delay at 35 mph			Difference 2020 Q4-2019 Q4		Difference 2020 Q4-2020 Q3		Rank		
Route	County	2019 Q4	2020 Q3	2020 Q4	Absolute	Percentage	Absolute	Percentage	2019 Q4	2020 Q3	2020 Q4
I5	San Diego	1,246,991	188,503	171,478	-1,075,513	-86.2%	-17,025	-9.0%	1	1	1
I15	San Diego	762,369	68,785	136,936	-625,433	-82.0%	68,151	99.1%	2	2	2
SR78	San Diego	284,073	48,889	93,635	-190,438	-67.0%	44,746	91.5%	4	3	3
SR125	San Diego	234,278	39,470	74,499	-159,779	-68.2%	35,028	88.7%	5	4	4
I805	San Diego	747,346	33,397	53,382	-693,964	-92.9%	19,985	59.8%	3	5	5
SR163	San Diego	144,988	4,418	20,151	-124,837	-86.1%	15,733	356.1%	7	9	6
I8	San Diego	219,445	19,781	20,141	-199,304	-90.8%	360	1.8%	6	6	7
I905	San Diego	3,449	6,105	11,646	8,197	237.7%	5,541	90.8%	13	8	8
SR52	San Diego	98,334	15,342	4,127	-94,207	-95.8%	-11,215	-73.1%	8	7	9
SR54	San Diego	3,757	427	4,026	269	7.2%	3,598	841.9%	12	12	10
SR76	San Diego	7,760	3,491	3,379	-4,381	-56.5%	-112	-3.2%	11	10	11
SR94	San Diego	90,548	1,489	2,887	-87,661	-96.8%	1,398	93.9%	9	11	12
SR56	San Diego	75,106	355	1,570	-73,536	-97.9%	1,215	342.2%	10	13	13
SR67	San Diego	1,560	31	429	-1,130	-72.5%	398	1276.3%	14	14	14
SR11	San Diego	5	0	0	-5	-98.0%	0	0.0%	15	15	15
TOTALS		**3,920,008**	**430,484**	**598,286**	**-3,321,722**	**-84.7%**	**167,802**	**39.0%**			

Congestion by Route