District 08 Mobility Performance Report

2020 QUARTER TWO

DEPARTMENT OF TRANSPORTATION

July 27, 2020
DIVISION OF OPERATIONS
TMS SUPPORT

District 08 Mobility Performance Report

2020 QUARTER TWO

EXECUTIVE SUMMARY

Overview

Caltrans District 8 covers approximately 28,650 square miles of land, making it the largest district in California. District 8 consists of two counties; San Bernardino and Riverside. Both counties are in Southern California and part of the Inland Empire. Riverside County has an estimated population of 2.4 million residents while San Bernardino County is estimated at 2.2 million residents. With a total of 4.6 million residents, District 8 comprises of twelve percent of California's total population.

The quarterly Mobility Performance Report compares the data from the current quarter with over a year ago as well as the previous quarter, for the following performance measures:

- Vehicle Miles of Travel (VMT)
- Vehicle Hours of Delay (VHD)
- Lost Lane Miles (LLM)
- Delay by County and Route
- Detector Health
- Bottleneck Locations

Vehicle Detector Stations installed on urban-area freeways are continuously collect data and are strategically placed at locations where congestion is regularly experienced. The MPR uses the data collected from Caltrans Performance Measurement System (PeMS) to produce this report and conduct traffic studies. This report 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 35-mph threshold represents severe congestion, while delay at 60 mph represents all congestion. These thresholds are set by Caltrans and are based upon engineering experience and District input.

FINDINGS

Vehicle Miles Traveled (VMT) in District 8 during the second quarter of 2020 was 4.4 billion miles, which was a 19.1 percent decrease when compared to VMT from a year ago and a 11.4 percent decrease from the previous quarter.

In the second quarter of 2020, at the 35mph speed threshold, San Bernardino County exhibited 0.64 million vehicle hours of delay followed by Riverside County at 0.4 million. Total delay in District 8 equaled 1 million VHD for the 35mph speed threshold. This was a 58.8 percent decrease from the previous quarter, and a 67.8 percent decrease when compared to the same quarter over a year ago. The 60-mph speed threshold saw a similar trend, during the second quarter of 2020, total delay equaled 3.4 million VHD, which was a decrease in delay by 49.8 percent from last quarter and a 58.7 percent decrease in delay for the same quarter over a year ago.

The busiest day of the week as far as congestion for the second quarter was Friday with 58,000 hours of delay for speed under 60 mph followed by Monday and Tuesday with 43,000 hours.

Top Ten Bottlenecks for the Second Quarter of 2020

Rank	FWY	Location Name	Shift	Begin CA Postmile	Avg Extent (Miles)	Total Delay (veh-hrs)
1	I10-E	Haven Ave	PM	8.22	3.17	46,859.70
2	I10-E	Fontana Rest Area	PM	13.8	3.06	44,026.90
3	I15-N	Winchester Road	PM	6.8	2.54	32,844.60
4	I15-N	4th Street	PM	3.2	1.10	21,841.60
5	SR91-E	Main	PM	6.492	0.85	19,476.30
6	I15-S	Jurupa	PM	.969	1.38	19,158.40
7	I215-S	Van Buren Blvd	PM	33.463	2.53	15,495.70
8	SR60-E	Archibald	PM	7.733	1.50	14,489.60
9	I15-N	Oakie Flats	PM	17.4	3.21	13,595.70
10	SR91-W	Green River	AM	.995	2.18	12,833.50

PROJECT STATUS

Some of the following District 8 projects which are separated by county are currently in construction while some have been suspended due to COVID-19 pandemic, for the year of 2019 and 2020. These projects will relieve congestion in District 8 once complete however, during the construction phase there might be an increase in delay during off-peak periods due to lane closures.

Riverside County:

RIV – Rte. 215: Location – Rte. 215 Interchange at Scotts Road, EA: 0A0204
Postmile R14.80 to 16.20 – Interchange improvement at Scotts Road city of Menifee.

RIV – Rte. 15: Location - City of Lake Elsinore on I-15 From 1.6 mile south of to 0.4-mile North of Railroad Canyon Rd, EA: 0A4414
Postmile 17.60 to 19.60 - Freeway and Bridge widening, JPCP, HMA, Retaining Walls, Ramp Modifications, Local Street Improvements.

RIV – Rte. 15: Location – Murrieta From 0.3 miles south of to 0.6 miles north of California Oaks Ave. Undercrossing, EA: 0A4904
Postmile 10.30 to 10.90 – Bridge widening, Traffic and Drainage Improvements.

RIV – Rte. 15,91: Location - Corona on Rte. 91 from Main St. to Rte. 15, and on Rte. 15, Northbound 15 to WB Connectors EA: 0F5434
Rte 15 - PM 41.08 to 42.31 and Rte. 91 – PM 6.05 to 7.57
Express Lanes' Connectors - Bridge & GP Lane Widening

RIV – Rte 15: Location – SR74 to SR-60 and I-215 to SR-74, EA: 0J0804
I-15 Corridor Improvement Project to add two Toll Express lane each direction from Cajalco Road to State Route 60, widen bridges and add sound wall.

RIV – Rte 215: Location – Menifee Rte 215 at Newport Rd Interchange, EA: 0J4404
Postmile R17.40 to 19.30, Interchange Improvement.

RIV - Rte 15: Location - Interstate 15/Cajalco Road Interchange, EA: 0J6104
Postmile 36.40 to 37.60 - Interchange Improvements & Reconstruction

RIV- Rte 60: Location – City of Beaumont, Gilman Springs Road to 1.37 miles west of Jack Rabbit Trail EA: 0N69U4
Postmile 22.10 to 26.60 – Construct a Truck Climbing Lane and Truck Descending Lane

RIV – Rte 60: Location – City of Beaumont, Potrero Blvd
Postmile 28.80 to 30.20 – New Bridge and Highway widening.

RIV - Rte. 10: Location - City of Indio at Jefferson St, EA: 475204
Postmile 51.70 to 53.10 - Demolish existing bridge and northbound Indio Boulevard overcrossing and replace with new six-lane bridge.

RIV – Rte 60: Location – Rte 60 from Milliken Ave to 91/215
Postmile 0.0 to R12.2, Replace wireless communication system with Fiber Optic Infrastructure.

San Bernardino County:

SBD – Rte 10: Location – LA/SBD county line to 0.2 miles west of Cherry EA: 0C2514
Postmile 0.00 to 13.20, Widen Express Lanes (Phase 1)

SBD – Rte 210: Location – Highland Ave to San Bernardino Ave
Postmile 25.00 to 33.20, Widen Freeway add one lane in each direction.

SBD – Rte 15: Location - Limonite Ave/I-15, EA: 0E1504
Postmile 46.70 to 49.70, Limonite Avenue at I-15 interchange Improvement Project, in city of Eastvale and Jurupa Valley.

SBD – Rte 60: Location – Near Chino and Various Locations from 0.1 mile west of Pipeline Ave OC to 0.1 Mile East of Benson Ave. EA: 0F0304
Postmile 0.07 to 3.00, Bridge Replacement, Pipeline Ave, Monte Vista Ave, Benson Ave.

SBD – Rte 215: Locations – Rte 215/Barton Rd, EA: 0J0704
Postmile 0.58/1.95, Project to reconstruct the existing I-215/Barton Rd Interchange.

SBD - Rte 10: Location – San Bernardino County from Redlands to Orange St, EA: 0K2914
Postmile 30.90 to 33.30, Lane Replacement in San Bernardino County in Redlands from Orange Street Undercrossing to Redlands Blvd off-ramp undercrossing.

SBD – Rte 10: Location – Colton at Santa Ana River Bridge EA: 0Q 9104
Postmile 23. 80 to 23. 80, Bridge Rehabilitation and Seismic Retrofit.

SBD - Rte 15: Location – Kenwood Ave to West Hesperia, EA: 0Q7404
Postmile 15.40 to 30.80, Lane Replacement on I-15 from 0.4 mile north of Kenwood Avenue to 0.3 mile south of West Hesperia OH

SBD – Rte 15: Location – Rte 15 to 395 Connector, EA: 1L5404
Postmile 31. 50 to 32. 50, repair Bridge Deck

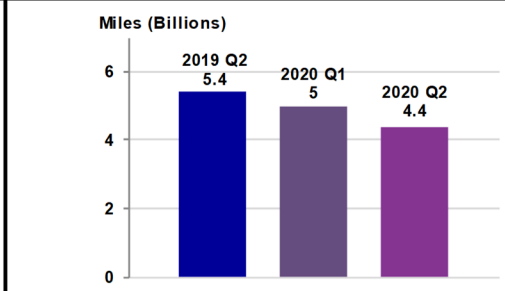
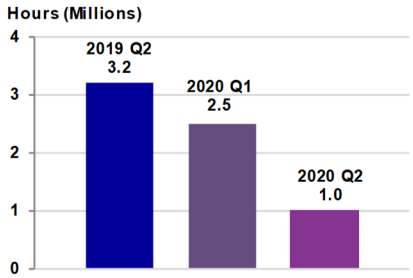
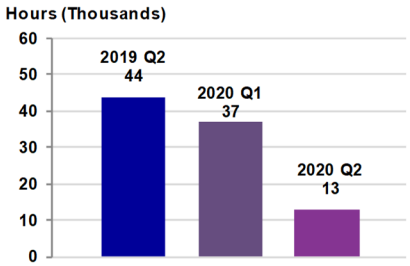
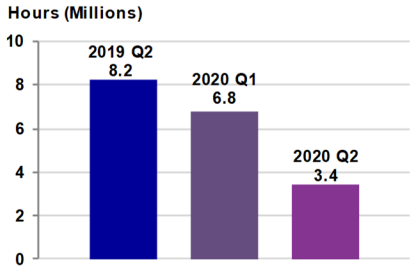
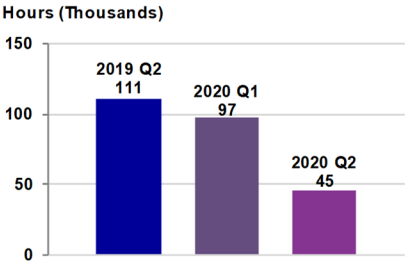
SBD - Rte 15: Location – Victorville from Mojave Dr to Stoddard Wells Rd, EA: 3555VA
Postmile 42.50 to 46.00, 0.5 Mile North of Mojave Drive to 1.5 Mile North of Stoddard Wells Road Overcrossing, Widen I-15, Reconstruct 3 IC'S, construct 2 new BR and widen 3 BR

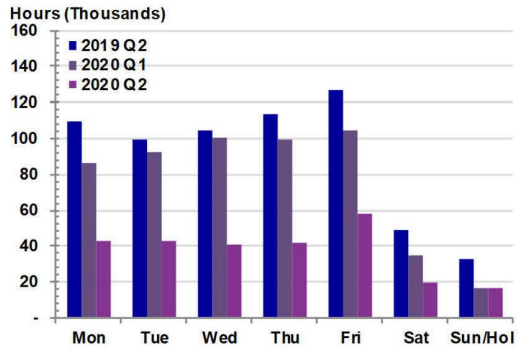
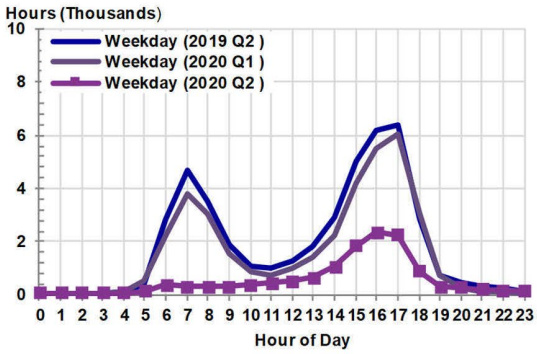
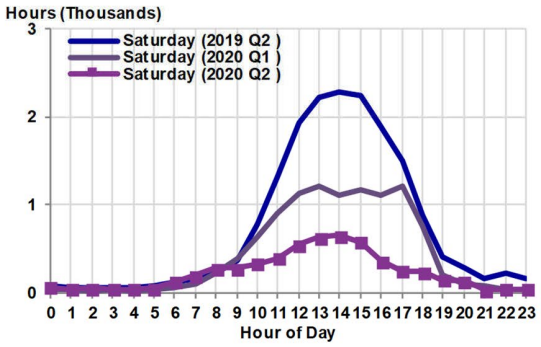
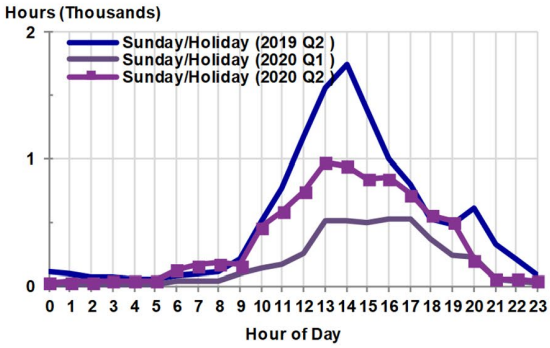
SBD – Rte Various Locations, San Bernardino and Riverside County, EA: 1C6304
Install Road Weather Information System and Modify Existing Electrical system

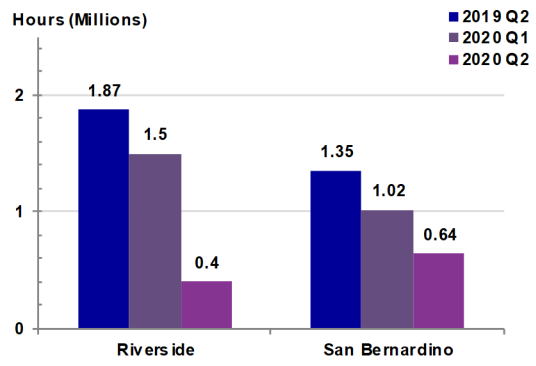
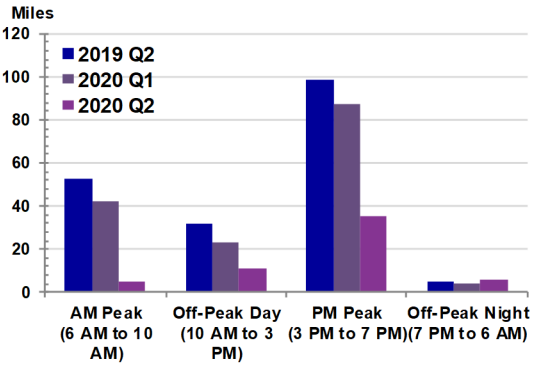
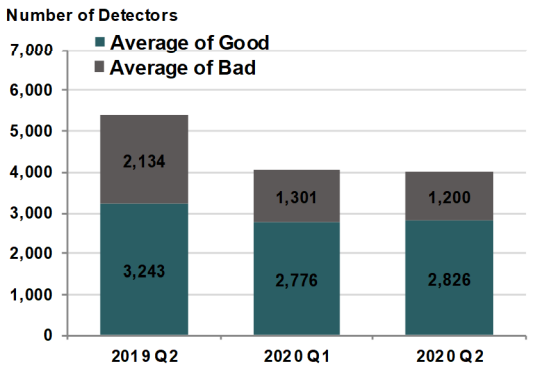
SBD – Rte 10: Location – 0.2 MI w/o Live Oak Canyon Rd to County Line, EA: 0K2934
Postmile: R36.80/39.20, Pavement Rehab & Continuously Reinforced Concrete Pavement

SBD – Rte 10: Location – Alabama street to 0.2 Miles East of County Line Road, EA 384234
Postmile: 29.40 to 39.20, Install Fiber Optic System and Modify Electrical System

Quarterly Mobility Statistics

Measure	Graph	Percentage Change	
		Over one year ago	Over last quarter
Vehicle Miles of Travel (VMT)		-19.1%	-11.4%
Total Vehicle Hours of Delay (VHD) at 35 mph		-67.8%	-58.8%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph		-70.1%	-64.5%
Total Vehicle Hours of Delay (VHD) at 60 mph		-58.7%	-49.8%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph		-59.1%	-53.3%

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago Thursday -62.8%	Largest Magnitude Decrease over last quarter Wednesday -59.9%
		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 7 AM -93.3%	Largest Magnitude Weekday Decrease over last quarter 5 PM -63.1%
		Largest Magnitude Weekday Increase over one year ago 2 AM 26.6%	Largest Magnitude Weekday Increase over last quarter 11 PM 92.3%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago 3 PM -74.2%	Largest Magnitude Saturday Decrease over last quarter 5 PM -79.7%
		Largest Magnitude Saturday Increase over one year ago 8 AM 24%	Largest Magnitude Saturday Increase over last quarter 7 AM 87.1%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/ Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago 2 PM -46%	Largest Magnitude Sun./Holiday Decrease over last quarter 8 PM -8.9%
		Largest Magnitude Sun./Holiday Increase over one year ago 7 AM 70.8%	Largest Magnitude Sun./Holiday Increase over last quarter 12 PM 191.9%

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph		Largest Magnitude Decrease over one year ago Riverside -78.6%	Largest Magnitude Decrease over last quarter Riverside -73.4%
		Largest Magnitude Increase over one year ago –	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 -65.1%	Largest Magnitude Decrease over last quarter PM Peak -60%
		Largest Magnitude Increase over one year ago Off-Peak Night 26.8%	Largest Magnitude Increase over last quarter Off-Peak Night 47.5%
Average Number of Good and Bad Detectors		Change in Good over one year ago -13%	Change in Good over last quarter 2%
		Change in Bad over one year ago -43.78%	Change in Bad over last quarter -8%

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
I10	San Bernardino	390694.5	363,634.30	267,209.10	(123,485.40)	-31.61%	(96,425.20)	-26.52%	3	4	1
I15	San Bernardino	367366.5	213,570.00	155,075.80	(212,290.70)	-57.79%	(58,494.20)	-27.39%	4	6	2
I15	Riverside	346819.6	492,611.90	149,252.40	(197,567.20)	-56.97%	(343,359.50)	-69.70%	5	1	3
I210	San Bernardino	331736.2	286,378.90	137,508.60	(194,227.60)	-58.55%	(148,870.30)	-51.98%	6	5	4
I215	Riverside	603043.5	459,192.70	132,382.40	(470,661.10)	-78.05%	(326,810.30)	-71.17%	2	2	5
SR91	Riverside	700575.9	453,506.20	97,894.20	(602,681.70)	-86.03%	(355,612.00)	-78.41%	1	3	6
I215	San Bernardino	79520.5	93,350.00	29,811.70	(49,708.80)	-62.51%	(63,538.30)	-68.06%	9	7	7
SR71	San Bernardino	53621.1	57,062.50	26,619.90	(27,001.20)	-50.36%	(30,442.60)	-53.35%	10	9	8
SR60	San Bernardino	127766.3	2,033.20	20,775.40	(106,990.90)	-83.74%	18,742.20	921.81%	8	12	9
SR60	Riverside	138120.2	63,116.30	15,287.50	(122,832.70)	-88.93%	(47,828.80)	-75.78%	7	8	10
I10	Riverside	38548.7	26,832.40	4,388.50	(34,160.20)	-88.62%	(22,443.90)	-83.64%	12	10	11
SR71	Riverside	43311	4,208.90	391.70	(42,919.30)	-99.10%	(3,817.20)	-90.69%	11	11	12
TOTALS		**3,221,124**	**2,515,497**	**1,036,597**	**-2,184,527**	**-67.8%**	**-1,478,900**	**-58.8%**			

*The Congestion by Route table shows how much of an effect the COVID -19 pandemic has had on traffic congestion in District 8. District 8 showed a 58.8 percent decrease in congestion from the previous quarter and a 67.8 percent decrease from a year ago.