District 08 Mobility Performance Report

2019 Second Quarter

DEPARTMENT OF TRANSPORTATION DISTRICT 8 DIVISION OF OPERATIONS TMS SUPPORT August 5, 2019

District 08 Mobility Performance Report

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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

District 08 Mobility Performance Report 8/5/2019

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 2019 was 5.4 billion miles, which was a 25.4 percent decrease when compared to VMT from a year ago and a 4.2 percent increase from the previous quarter.

In the second quarter of 2019, at the 35mph speed threshold, Riverside County exhibited 1.87 million vehicle hours of delay followed by San Bernardino County at 1.35 million. Total delay in District 8 equaled 3.2 million VHD for 35mph speed threshold. This was a 6.2 percent increase from the previous quarter, and a 14.6 percent increase when compared to the same quarter over a year ago. The 60-mph speed threshold saw a similar trend, during the second quarter of 2019, total delay equaled 8.2 million VHD, which was a increase in delay by 0.4 percent from last quarter and a 15.7 percent increase in delay for the same quarter over a year ago.

The busiest day of the week as far as congestion for the first quarter was Friday with 127,000 hours of delay for speed under 60 mph followed by Thursday with 114,000 hours and Monday with 110,000 hours.

Rank	County	City	Freeway	Approximate Location	Period	Begin CA Postmile	Average Extent (miles)	Total Delay (hours)	Average Duration (hours)
1	Riverside	Corona	SR91-W	Green River		.995	4.35	286,449.1	3.76
2	Riverside	Corona	SR71-S	Rte 71/91 (s/o Prado Dam)	AM	2.5	3.34	48,638.0	3.36
3	Riverside	Corona	SR91-W	Lincoln	AM	5.28	1.07	36,189.3	2.93
4	Riverside	Riverside	I215-S	Center Street	AM	44.908	3.27	32,810.2	2.16
5	Riverside	Riverside	I215-N	Central/Watkins	AM	39.643	1.44	27,540.5	3.09
6	San Bernardino	Ontario	SR60-W	Milliken	AM	9.789	1.63	26,002.5	2.26
7	Riverside	Riverside	SR60-W	west of Main Street	AM	11.6	3.07	25,443.9	2.23
8	Riverside	Perris	I215-N	Harley Knox Blvd	AM	32.5	3.88	24,049.3	1.33
9	San Bernardino	Upland	I210-W	Carnelian	AM	4.5	3.44	21,548.3	1.43
10	San Bernardino	Ontario	I15-S	Jurupa	AM	.969	1.50	20,642.7	1.96

Top Ten AM Bottlenecks for 2019 Second Quarter:

Top Ten PM Bottlenecks for 2019 Second Quarter

Rank	County	City	Freeway	Approximate Location	Period	Begin CA Postmile	Average Extent (miles)	Total Delay (hours)	Average Duration (hours)
1	San Bernardino	Rancho Cucamonga	I15-N	4th Street	PM	3.2	1.64	80,187	3.95
2	San Bernardino	Victorville	I15-N	Oakie Flats	PM	17.401	3.82	71,185	1.75
3	Riverside	Corona	I15-S	Cajalco Road	PM	36.8	2.76	70,267	3.08
4	Riverside	Temecula	I15-N	Winchester Rd	PM	6.8	4.15	64,100	4.08
5	Riverside	Unincorporated	I215-S	Van Buren Blvd	PM	33.463	3.47	56,455	2.80
6	San Bernardino	Upland	I210-E	Milliken	PM	8	4.85	52,581	1.88
7	San Bernardino	Ontario	I15-S	Jurupa	PM	.969	1.60	48,062	3.37
8	San Bernardino	Fontana	I10-E	Cherry Ave	PM	13.346	2.86	46,276	1.88
9	Riverside	Moreno Valley	SR60-E	Pigeon Pass	PM	14.509	2.61	45,652	3.37
10	San Bernardino	Fontana	I10-E	Fontana Rest	PM	13.8	3.56	43,711	2.28

PROJECT STATUS

The following District 8 projects which are separated by county are currently in

construction for the year of 2018. These projects will relieve congestion in District 8, 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. 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 15: Location - From San Diego county line to 15/91 separation, EA: 0G7704

Postmile R0.00 to 41.80 - Install New Fiber Optic infrastructure on Rte 15 from PM 0.00/41.80 and upgrade newly installed wireless vehicle detection stations. Connect all the existing TMS elements to the newly installed Fiber Optic infrastructure

RIV - Rte 15,79: Location - Temecula *(a)* **I-15/SR-79 South Interchange, EA: 432304** Rte 15 Postmile 3.00 to 4.00, Rte 79 Postmile 19.60 to 19.90 – Realign and reconstruct onramp and offramp.

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

RIV - Rte 15: Location - SR74 to SR-60 and I-215 to SR-74, EA: 0J080

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 60: Location - Highway 60 at Potrera Blvd, City of Beaumont, EA: 34141

Postmile 28.70 to 30.20, New Bridge and Highway widening

RIV - Rte 15: Location - I-15/SR-79, EA: 43230

Postmile 3.0 to 4.0, Interchange Improvement @ SR-79(Front St) and I-15.

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.

RIV - 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.

RIV - Rte 215: Location - City of Menifee Rte 215 at Newport Rd Interchange

Postmile R17.40 to 19.30, Interchange Improvement.

San Bernardino County:

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 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 – Victorville from Mojave Dr to Stoddard Wells Rd, EA: 3555VA

Postmile 42.50 to 46.00, In San Bernardino County in Victorville from 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

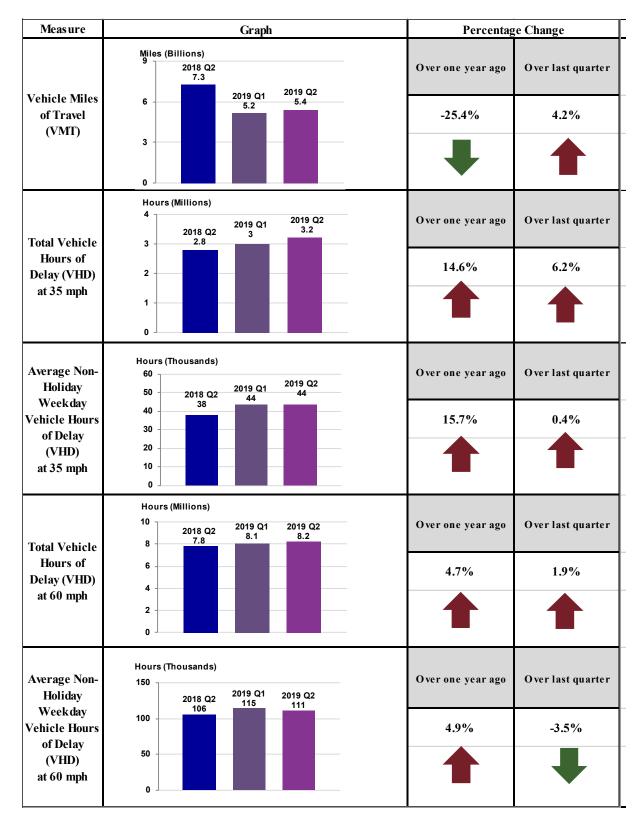
Install Road Weather Information System and Modify Existing Electrical system

SBD - Rte 215: Locations - Rte 215/Barton Rd, EA: 0J070

Postmile 0.58/1.95, Project to reconstruct the existing I-215/Barton Rd Interchange.

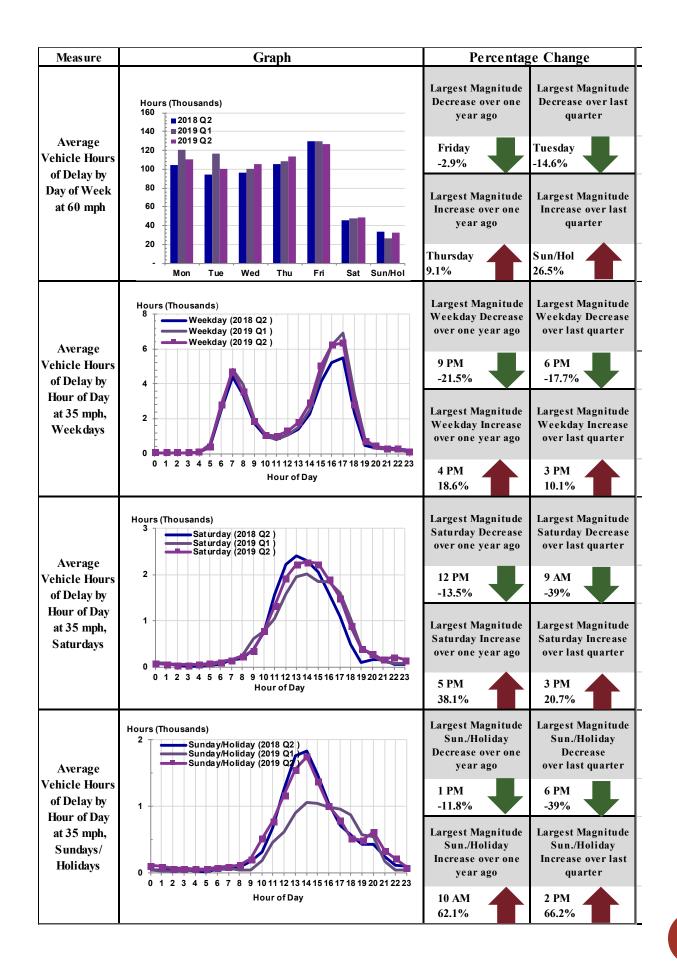
SBD - Rte 10: Location - 0.2 MI w/o Live Oak Canyon Rd to County Line, EA: 0K2934

Postmile: R36.80/39.20, Pavement Rehab & Continuously Reinforced Concrete Pavement



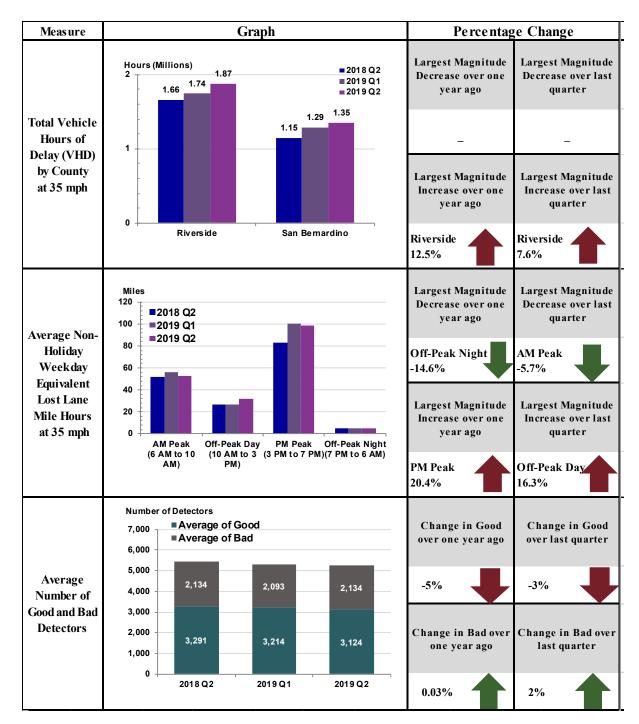
2019 Second Quarter Mobility Statistics District 8

District 08 Mobility Performance Report 8/5/2019



District 08 Mobility Performance Report 8/5/2019

6



District 08 Mobility Performance Report 8/5/2019

	Congestion by Route											
	Vehicle Hours of at 35 m ph			Delay Difference 2019 Q2-2018 Q2		Difference 2019 Q2-2019 Q1		Rank				
Route	County	2018 Q2	2019 Q1	2019 Q2	Absolute	Percentage	Absolute	Percentage	2018 Q2	2019 Q1	2019 Q2	
SR91	Riverside	568090	664822.5	700575.9	132485.9	23%	35,753	5%	1	1	1	
I215	Riverside	438376.2	573697.9	603043.5	164667.3	38%	29,346	5%	3	2	2	
110	San Bernardino	390869	444139	390694.5	-174.5	0%	(53,445)	-12%	4	3	3	
115	San Bernardino	335254.9	328903.3	367366.5	32111.6	10%	38,463	12%	5	4	4	
115	Riverside	446844.3	302374.2	346819.6	-100024.7	-22%	44,445	15%	2	5	5	
l210	San Bernardino	175102.4	251263.9	331736.2	156633.8	89%	80,472	32%	6	6	6	
SR60	Riverside	125794.6	130088	138120.2	12325.6	10%	8,032	6%	7	7	7	
SR60	San Bernardino	122381.3	119263	127766.3	5385	4%	8,503	7%	8	8	8	
I215	San Bernardino	66953.1	75510.4	79520.5	12567.4	19%	4,010	5%	9	10	9	
SR71	San Bernardino	57300.7	75536	53621.1	-3679.6	-6%	(21,915)	-29%	10	9	10	
SR71	Riverside	39423.4	37926.3	43311	3887.6	10%	5,385	14%	12	11	11	
110	Riverside	44105.1	29050.8	38548.7	-5556.4	-13%	9,498	33%	11	12	12	
	TOTALS	2,810,495	3,032,575	3,221,124	410,629	14.6%	188,549	6.2%				

*I-15 Riverside County – The data shows a major decrease in delay which is incorrect. Currently on this route there are two major construction projects. Due to construction our detector health has been fluctuating, thus a lot of delay has not been captured from the sensors on this route.