# District 08 Mobility Performance Report

2021 QUARTER TWO

DEPARTMENT OF TRANSPORTATION

August 2, 2021 DIVISION OF OPERATIONS TMS SUPPORT

# **District 08 Mobility Performance Report**

# 2021 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 2.5 million residents while San Bernardino County is estimated at 2.2 million residents. With a total of 4.7 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 2021 was 5.17 billion miles, which was a 17.7 percent increase when compared to VMT from a year ago and a 5.7 percent increase from the previous quarter.

In the second quarter of 2021, at the 35mph speed threshold, Riverside County exhibited 2.12 million vehicle hours of delay followed by San Bernardino County at 1.28 million. Total delay in District 8 equaled 3.4 million VHD for the 35mph speed threshold. This was a 56.2 percent increase from the previous quarter, and a 227.4 percent increase when compared to the same quarter over a year ago. The 60-mph speed threshold saw a similar trend, during the first quarter of 2021, total delay equaled 8.4 million VHD, which was an increase in delay by 31.9 percent from last quarter and a 145.9 percent increase in delay for the same quarter over a year ago.

The busiest day of the week as far as congestion for the second quarter of 2021 was Friday with 133,000 hours of delay for speed under 60 mph followed by Thursday at 107,000 and Wednesday with 96,000 hours.

Top Ten Bottlenecks for the Second Quarter of 2021

Rank	County	Location Name	Shift	Fwy	Abs PM	CA PM	Latitude	Longitude	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (Hours)
1	Riverside	Winchester Road	PM	I15-N	61.32	6.8	33.52	-117.16	63	6.95	286,630.70	278.17
2	Riverside	Cajalco Road	PM	I15-S	91.40	36.921	33.82	-117.52	63	3.40	128,030.40	264.83
3	Riverside	Green River	AM	SR91-W	38.31	.995	33.88	-117.66	41	4.92	87,405.30	91.25
4	San Bernardino	Jurupa	PM	I15-S	107.73	.969	34.05	-117.55	64	2.30	74,387.80	226.25
5	Riverside	Pigeon Pass	PM	SR60-E	54.63	14.509	33.94	-117.26	64	2.61	48,287.00	214.33
6	San Bernardino	east of Cherry	PM	I10-E	60.57	13.8	34.07	-117.48	61	3.15	45,915.20	150.83
7	San Bernardino	4th Street	PM	I15-N	109.97	3.2	34.08	-117.54	63	1.10	41,959.00	216.33
8	Riverside	Main	PM	SR91-E	43.84	6.492	33.88	-117.56	64	1.17	40,825.40	257.42
9	Riverside	Van Buren Blvd	PM	1215-S	25.66	33.989	33.89	-117.27	62	2.10	36,795.90	174.92
10	Riverside	Rte71/91	AM	SR91-W	39.29	1.975	33.88	-117.64	48	2.57	33,619.40	62.67

# **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. 74: Location Lake Elsinore from RIV County Line to Monte Vista St EA: 1C8504, PM: 0.00 to 5.80 - Widen Existing Lanes to provide 12' Lanes

RIV - Rte. 10,15,60: Location On Routes 10, 15, 60, 210, 215, EA: 1H5304 Postmiles: Various - Repair Traffic Monitoring Stations

RIV – Rte. 74: Location City of Perris at 215/74

Postmile: 27.50 to 28.00 - Install New Ramp Metering System.

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: 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 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.

### San Bernardino County:

SBD - Rte. 10,15, 210, 215: Location On Routes 10, 15, 60, 210, 215, EA: 1H5304 Postmiles: Various - Repair Traffic Monitoring Stations

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: 0Q9104 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 – 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

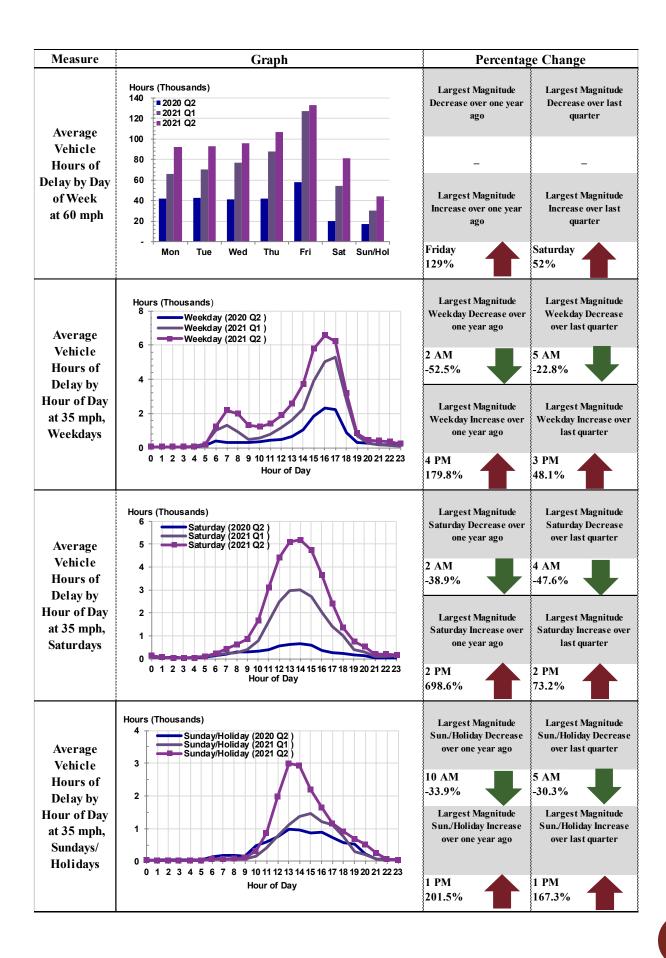
SBD – Rte Various Locations, San Bernardino and Riverside County, EA: 1C6304 Install Road Weather Information System and Modify Existing Electrical system

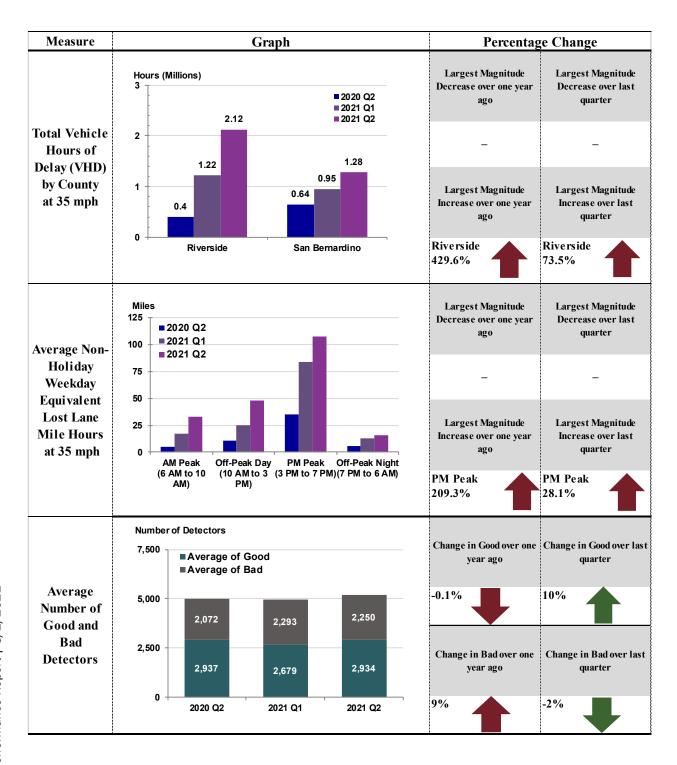
SBD – Rte 10: Location – 0.2 MI w/o Live Oak Canyon Rd to County Line, EA: 0K2934 Postmile: R36.80/39.20, Pavement Rehab & Continuously Reinforced Concrete Pavement

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

**Ouarterly Mobility Statistics** 

Measure	Graph	Percentage Change
Vehicle Miles of Travel (VMT)	Miles (Billions)  6 2021 Q1 2021 Q2 5.17  4 2 2 4.89	Over one year ago Over last quarter  17.7% 5.7%
Total Vehicle	Hours (Millions)  2021 Q2 3.4	Over one year ago
Hours of Delay (VHD) at 35 mph	2 2021 Q1 2.2 2 2020 Q2 1	227.4% 56.2%
Average Non- Holiday Weekday	Hours (Thousands) 50 40 2021 Q2 42	Over one year ago Over last quarter
Vehicle Hours of Delay (VHD) at 35 mph	20 2020 Q2 13 10	219.2% 44.2%
Total Vehicle	Hours (Millions)  10 2021 Q2 8.4 2021 Q1 6.3	Over one year ago Over last quarter
Hours of Delay (VHD) at 60 mph	6 2020 Q2 4 3.4 2	145.9% 31.9%
Average Non- Holiday	Hours (Thousands)  125 100 2021 Q2 104	Over one year ago Over last quarter
Weekday Vehicle Hours of Delay (VHD) at 60 mph	75 2020 Q2 50 45	130.3% 22%





Congestion by Route											
		Vehicle Hours of Delay at 35 mph				rence -2020 Q2	Difference 2021 Q2-2021 Q1		Rank		
Route	County	2020 Q2	2021 Q1	2021 Q2	Absolute	Percentage	Absolute	Percentage	2020 Q2	2021 Q1	2021 Q2
I15	Riverside	149,252	404,368	864,895	715,643	479.5%	460,527	113.9%	3	1	1
1215	Riverside	132,382	382,286	553,524	421,141	318.1%	171,238	44.8%	5	2	2
SR91	Riverside	97,894	338,491	536,104	438,209	447.6%	197,613	58.4%	6	4	3
I1 0	San Bernardino	267,209	336,505	491,171	223,962	83.8%	154,666	46.0%	1	5	4
I15	San Bernardino	155,076	354,141	429,614	274,539	177.0%	75,474	21.3%	2	3	5
I210	San Bernardino	137,509	166,118	223,099	85,590	62.2%	56,981	34.3%	4	6	6
SR60	Riverside	15,288	79,845	155,347	140,060	916.2%	75,503	94.6%	10	7	7
1215	San Bernardino	29,812	45,768	53,437	23,625	79.2%	7,669	16.8%	7	8	8
SR71	San Bernardino	26,620	39,527	46,521	19,901	74.8%	6,994	17.7%	8	9	9
SR60	San Bernardino	20,775	10,917	33,267	12,491	60.1%	22,350	204.7%	9	11	10
SR71	Riverside	392	1,736	3,551	3,159	806.6%	1,815	104.6%	12	12	11
I1 0	Riverside	4,389	13,056	2,902	-1,486	-33.9%	-10,154	-77.8%	11	10	12
TOTALS		1,036,597	2,172,756	3,393,431	2,356,834	227.4%	1,220,674	56.2%			

The Congestion by Route table shows that congestion has increased by 56.2% from the previous quarter, as well as an increase by 227.4% from the previous year.