# District 08 Mobility Performance Report

2023 Quarter One

DEPARTMENT OF TRANSPORTATION

May 22, 2023 DIVISION OF OPERATIONS TMS SUPPORT

# **District 08 Mobility Performance Report**

# 2023 Quarter One

## **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 our freeways are strategically placed throughout the District and are collecting data. The MPR uses the data collected from these stations through 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.

# District 08 Mobility Performance Report | 5/22/2023

## **FINDINGS**

Vehicle Miles Traveled (VMT) in District 8 during the first quarter of 2023 was 4.74 billion miles, which was a 6.5 percent decrease when compared to VMT from a year ago and a 10.4 percent decrease from the previous quarter.

In the first quarter of 2023, at the 35mph speed threshold, Riverside County exhibited 1.82 million vehicle hours of delay followed by San Bernardino County at 1.42 million. Total delay in District 8 equaled 3.2 million VHD for the 35mph speed threshold. This was a 5.7 percent decrease from the previous quarter, and a 3.3 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 2023, total delay equaled 8.4 million VHD, which was a decrease in delay by 4.4 percent from last quarter and a 1.2 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 of 2023 was Friday with 147,000 hours of delay for speed under 60 mph followed by Thursday at 115,000 hours of delay.

Top Ten Bottlenecks for the First Quarter of 2023

Rank	County	Location Name	Shift	Fwy	Abs PM	Prefix	CA PM	Latitude	Longitude	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (Hours)
1	Riverside	Winchester Road	РМ	I15-N	61.32	1	6.8	33.52	-117.16	63	4.99	172,265.70	252.67
2	Riverside	Pigeon Pass	РМ	SR60-E	64.15	-	24.033	33.94	-117.10	56	4.96	85,050.80	197.50
3	Riverside	RTE 71/91	АМ	SR91-W	39.29	R	1.975	33.88	-117.64	45	2.96	58,602.50	105.58
4	San Bernardino	4th Street	РМ	I15-N	162.99	-	55.46	34.70	-117.21	64	1.58	57,311.60	213.67
5	San Bernardino	Philadelphia St	РМ	I15-S	106.76	-	0	34.03	-117.55	28	6.44	53,366.90	74.25
6	San Bernardino	Haven	РМ	I10-E	54.99	•	8.22	34.07	-117.57	62	2.24	43,572.80	150.25
7	Riverside	Van Buren Blvd	РМ	1215-S	17.23	-	25.656	33.78	-117.21	62	2.75	41,185.20	149.33
8	Riverside	Harley Knox Blvd	AM	I215-N	15.74	1	24.167	33.76	-117.19	58	3.13	40,596.00	122.67
9	Riverside	Pierce	РМ	SR91-W	48.27	-	10.836	33.90	-117.49	61	1.93	38,462.00	202.17
10	Riverside	Pierce	AM	SR91-W	48.27	•	10.836	33.90	-117.49	58	1.99	36,477.30	179.00

## **PROJECT STATUS**

Some of the following District 8 projects which are separated by county are currently in construction for the year of 2023. These projects will relieve congestion in District 8 once complete. However, during construction there might be an increase in delay for off-peak periods due to lane closures.

## Riverside County:

RIV - Rte. 215: Location Moreno Valley from Alessandro Blvd overcrossing to Eucalyptus Ave Overcrossing, EA:1K4604

Postmile: R36.30 to 37.20, Construct NB and SB Auxiliary Lanes

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 91: Location SR-91 at McKinley Ave City of Corona EA:1J990

PM: R9.20 to 9.20 - Reconstruct SR-91/McKinley interchange consisting of retaining wall, drainage, ramp metering and signal placement

RIV - Rte 215: Location Placentia Ave, EA:0F3214

PM: R27.9/32.80 - Interstate 215 at Placentia Interchange Improvement

RIV - Rte 15: Location Between Cajalco Rd and Weirick Rd, EA: 1M750

PM: R35.70 to 37.00 – Add Auxiliary Lanes

RIV – Rte 15: Location Main Street City of Lake Elsinore EA: 1G720

PM: R20.50/21.50 – Ramp Widening and Construct Retaining Wall

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 - 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

## San Bernardino County:

SBD - Rte 215: Location - Colton and Washington Overcrossing EA: 1F7304 Postmile 2.70 to 2.70, Replace Concrete Bridge

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 EA: 0C70U4 Postmile 25.00 to 33.20, Widen Freeway add one lane in each direction.

**SBD** – **Rte 60: Locations** – **Central Avenue EA: 0C8704** Postmile 2.08 to 2.80, Central Avenue Ramp Improvement

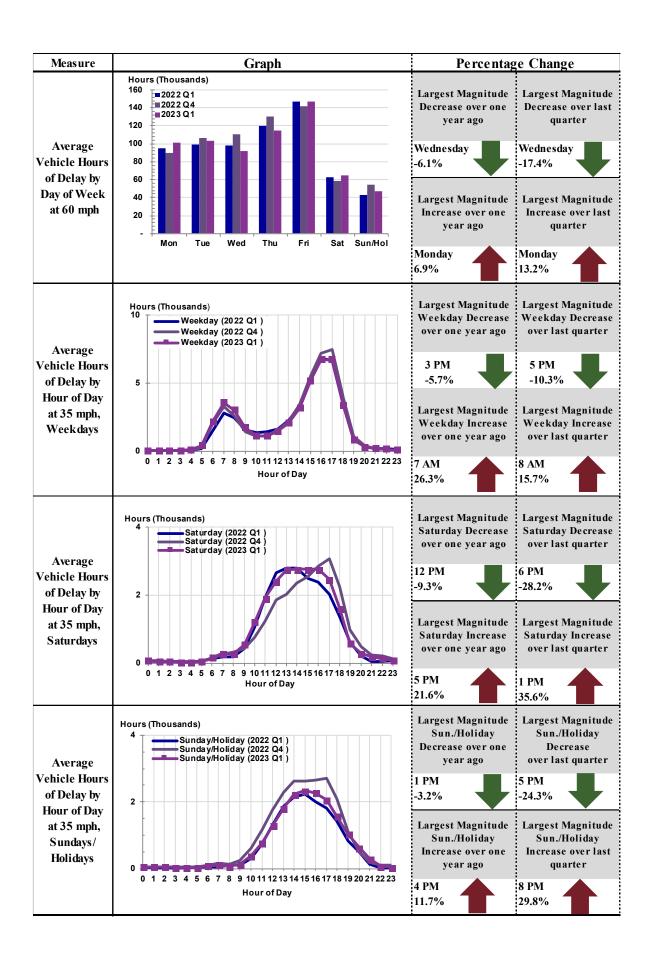
SBD – Rte 60: Location – Near Chino and Various Locations from 0.1 mile west of Pipeline Ave OC to 0.1 Mile East of Benson Ave. EA: 0F0304

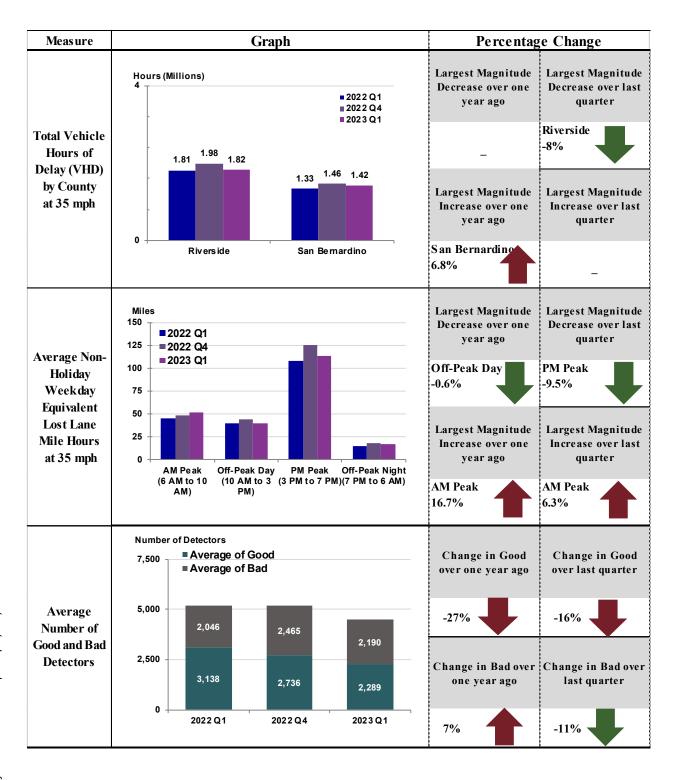
Postmile 0.07 to 3.00, Bridge Replacement, Pipeline Ave, Monte Vista Ave, Benson Ave.

SBD – Rte 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	Percentag	Percentage Change				
	Miles (Billions)  2022 Q1  5.08  2023 Q1  4.74	Over one year ago	Over last quarter				
Vehicle Miles of Travel (VMT)	3	-6.5%	-10.4%				
((1.11)	0	•	•				
Total Vehicle	Hours (Millions)  4 2022 Q4 4 2022 Q1 3.4 2023 Q1 3.1 3.2	Over one year ago	Over last quarter				
Hours of Delay (VHD)	3 2	3.3%	-5.7%				
at 35 mph	1 0	1	-				
Average Non- Holiday	Hours (Thousands)  50 2022 Q1 2022 Q4 2023 Q1  43 45 44	Over one year ago	Over last quarter				
Weekday Vehicle Hours of Delay	30 -	2.1%	-3.5%				
(VHD) at 35 mph	10 0	1	•				
Total Vehicle	Hours (Millions)  10 2022 Q4 2023 Q1 8.8 8.4	Over one year ago	Over last quarter				
Hours of Delay (VHD)		1.2%	-4.4%				
at 60 mph	0		•				
Average Non- Holiday	Hours (Thousands)	Over one year ago	Over last quarter				
Weekday Vehicle Hours	2022 Q1 2022 Q4 2023 Q1 112 115 112	0.1%	-3%				
of Delay (VHD) at 60 mph			•				





Congestion by Route											
		Vehicle Hours of Delay at 35 mph				rence 1-2022 Q1		rence -2022 Q4	Rank		
Route	County	2022 Q1	2022 Q4	2023 Q1	Absolute	Percentage	Absolute	Percentage	2022 Q1	2022 Q4	2023 Q1
I15	San Bernardino	616,774	572,367	762,092	145,318	23.6%	189,725	33.1%	2	2	1
I215	Riverside	577,871	618,073	553,102	-24,769	4.3%	-64,972	-10.5%	3	1	2
SR91	Riverside	324,734	471,597	464,800	140,066	43.1%	-6,796	-1.4%	5	5	3
I15	Riverside	638,471	512,848	444,747	-193,724	-30.3%	-68,101	-13.3%	1	4	4
I10	San Bernardino	377,724	540,523	431,433	53,709	14.2%	-109,090	-20.2%	4	3	5
SR60	Riverside	236,758	332,931	304,354	67,596	28.6%	-28,578	-8.6%	6	6	6
I210	San Bernardino	222,130	229,724	179,596	-42,534	-19.1%	-50,128	-21.8%	7	7	7
I10	Riverside	33,588	47,829	56,945	23,357	69.5%	9,116	19.1%	10	9	8
SR60	San Bernardino	40,011	46,349	28,767	-11,243	-28.1%	-17,582	-37.9%	9	10	9
1215	San Bernardino	69,421	68,344	17,581	-51,841	-74.7%	-50,763	-74.3%	8	8	10
SR71	San Bernardino	3,672	209	346	-3,327	-90.6%	136	65.2%	11	11	11
SR71	Riverside	18	4	0	-18	-100.0%	-4	-100.0%	12	12	12
TOTALS		3,141,172	3,440,798	3,243,762	102,590	3.3%	-197,037	-5.7%			

The Congestion by Route table shows that congestion has decreased by 5.7% from the previous quarter and increased by 3.3 percent from one year ago.

SR-71 detector stations are currently under construction and are currently offline, that is why there is little to no vehicle hours of delay shown.