# District 08 Mobility Performance Report 

2023 Quarter One

May 22, 2023
DIVISION OF OPERATIONS
TMS SUPPORT

## 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.

## 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 35 mph 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 35 mph 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 $60-\mathrm{mph}$ 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 <br> Active | Avg Extent <br> (Miles) | Total Delay <br> (veh-hrs) | Total <br> Duration <br> (Hours) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1 | Riverside | Winchester Road | PM | I15-N | 61.32 | - | 6.8 | 33.52 | -117.16 | 63 | 4.99 | $172,265.70$ | 252.67 |
| 2 | Riverside | Pigeon Pass | PM | SR60-E | 64.15 | - | 24.033 | 33.94 | -117.10 | 56 | 4.96 | $85,050.80$ | 197.50 |
| 3 | Riverside | RTE 71/91 | AM | SR91-W | 39.29 | R | 1.975 | 33.88 | -117.64 | 45 | 2.96 | $58,602.50$ | 105.58 |
| 4 | San Bernardino | 4th Street | PM | I15-N | 162.99 | - | 55.46 | 34.70 | -117.21 | 64 | 1.58 | $57,311.60$ | 213.67 |
| 5 | San Bernardino | Philadelphia St | PM | I15-S | 106.76 | - | 0 | 34.03 | -117.55 | 28 | 6.44 | $53,366.90$ | 74.25 |
| 6 | San Bernardino | Haven | PM | I10-E | 54.99 | - | 8.22 | 34.07 | -117.57 | 62 | 2.24 | $43,572.80$ | 150.25 |
| 7 | Riverside | Van Buren Blvd | PM | I215-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 | - | 24.167 | 33.76 | -117.19 | 58 | 3.13 | $40,596.00$ | 122.67 |
| 9 | Riverside | Pierce | PM | 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

Quarterly Mobility Statistics




| Congestion by Route |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Vehicle Hours of Delay at 35 mph |  |  | Difference2023 Q1-2022 Q1 |  | Difference2023 Q1-2022 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 |
| I215 | 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 |
|  | TALS | 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.

