District 08 Mobility Performance Report

2024 Quarter One

DEPARTMENT OF TRANSPORTATION

April 30, 2024

DIVISION OF OPERATIONS
TMS SUPPORT

District 08 Mobility Performance Report

2024 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 2024 was 5.21 billion miles, which was a 9.8 percent increase when compared to VMT from a year ago and a 3.7 percent decrease from the previous quarter.

In the first quarter of 2024, at the 35mph speed threshold, San Bernardino County exhibited 1.5 million vehicle hours of delay followed by Riverside County at 1.46 million. Total delay in District 8 equaled 3.0 million VHD for the 35mph speed threshold. This was a 7.5 percent decrease from the previous quarter, and a 8.7 percent decrease when compared to the same quarter over a year ago. The 60-mph speed threshold saw a similar trend, during the first quarter of 2024, total delay equaled 8.3 million VHD, which was a decrease in delay by 3.9 percent from last quarter and a 0.4 percent decrease 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 2024 was Friday with 126,000 hours of delay for speed under 60 mph followed by Thursday at 114,000 hours of delay.

Top Ten Bottlenecks for the First Quarter of 2024

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	PM	I15-N	61.12	-	6.6	33.5223	-117.1626	62	5.91	149,684.30	200.58
2	Riverside	Rte 71/91	AM	SR91-W	39.86	R	2.542	33.8849	-117.6329	51	4.81	105,032.50	89.17
3	San Bernardino	Jurupa	PM	I15-S	107.73	-	0.969	34.0475	-117.5502	62	2.35	73,432.50	217.33
4	San Bernardino	4th Street	PM	I15-N	109.97	-	3.2	34.0792	-117.5446	62	2.09	69,985.40	219.17
5	Riverside	Weirick Rd	PM	I15-S	90.36	-	35.878	33.8101	-117.5091	60	3.71	61,590.90	128.92
6	San Bernardino	Haven	PM	I10-E	54.99	-	8.22	34.0675	-117.5748	62	2.59	51,001.20	243.67
7	Riverside	Pigeon Pass	PM	SR60-E	54.63	-	14.509	33.9408	-117.2583	62	2.77	47,338.40	220.42
8	San Bernardino	Milliken	PM	I210-E	60.44	-	8	34.1365	-117.5569	58	4.59	43,277.20	100.58
9	Riverside	Harley Knox Blvd	AM	I215-N	24.17	-	32.5	33.8650	-117.2606	57	3.28	43,199.90	126.33
10	Riverside	Central / Watkins	AM	I215-N	31.63	-	39.652	33.9604	-117.3117	62	3.12	40,673.70	157.58

PROJECT STATUS

Some of the following District 8 projects which are separated by county are currently in construction for the year of 2023/2024. 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 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 Freeway and add Express Lanes

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.

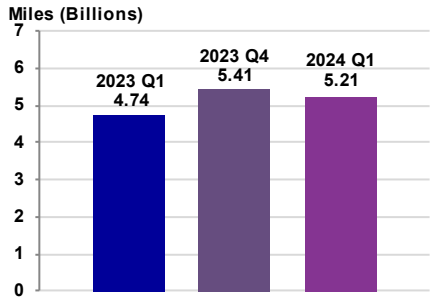
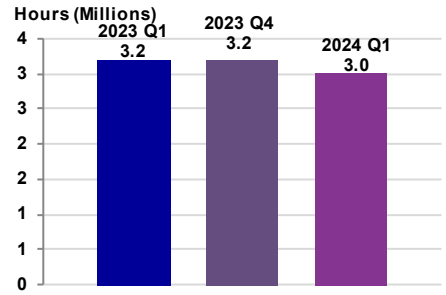
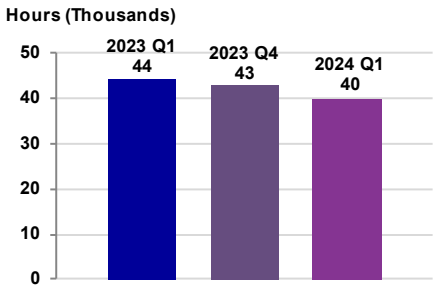
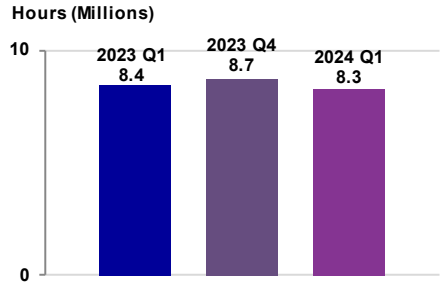
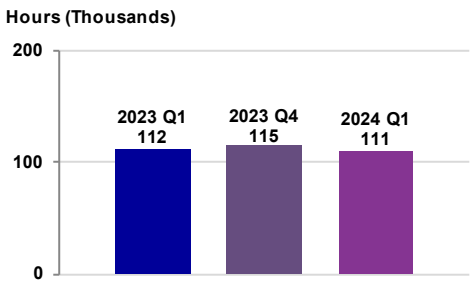
SBD – Rte 10: Location – Alabama street to 0.2 Miles East of County Line Road, EA 384234
Postmile: 29.40 to 39.20, Install Fiber Optic System and Modify Electrical System

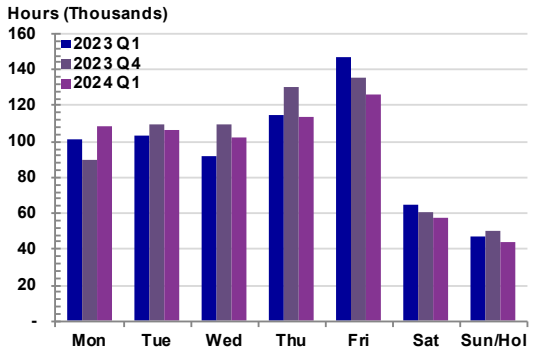
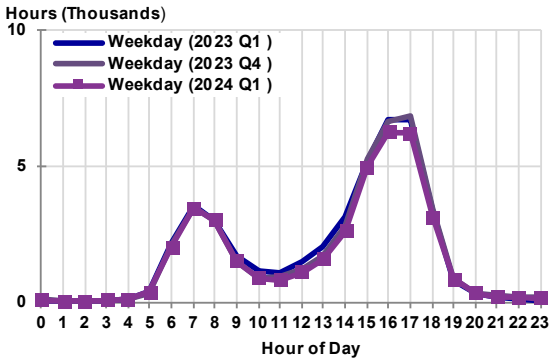
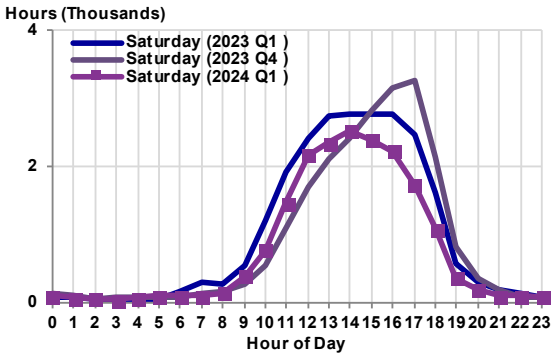
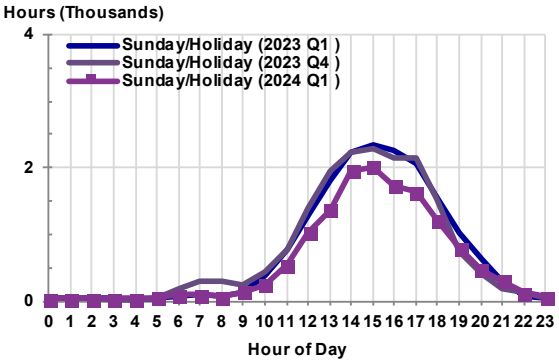
SBD – Rte 71: Location – Chino Hills & Corona and Junction 71/91, EA 08-0G7904
Postmile 0.00 to 8.48, Install Ramp metering, CCTV, CMS VDS and Fiber Optic

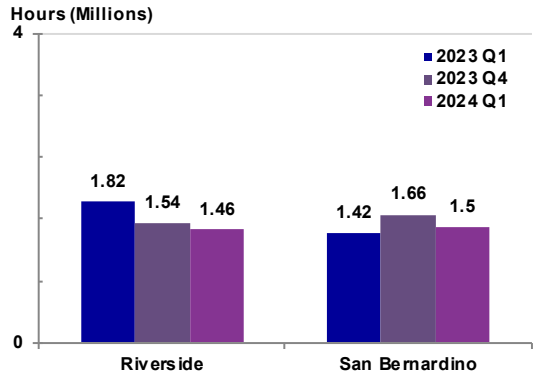
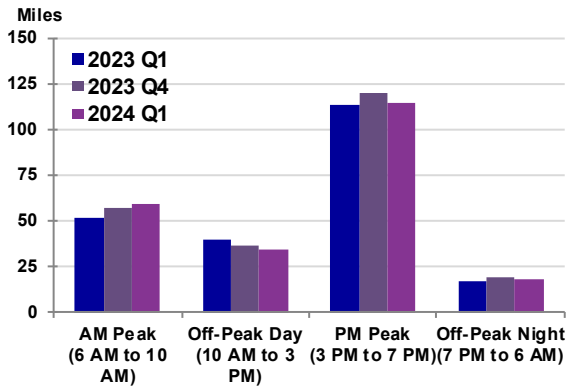
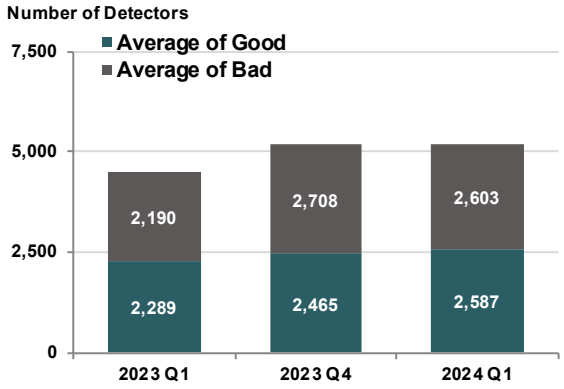
SBD – Rte 10, 15, 60, 91, 210, 215 – Varions Locations, EA 08-1M7104
Postmile: Various, Modify Camera Systems

SBD – Rte 15: Location – Rancho Cucamonga At Foothill Blvd NB On-Ramp, EA 08-0H7924
Postmile: 5.10 to 5.80, Widen On Ramps to 2 Lanes & install Ramp meters

Quarterly Mobility Statistics

Measure	Graph	Percentage Change	
Vehicle Miles of Travel (VMT)		Over one year ago 9.8%	Over last quarter -3.7%
Total Vehicle Hours of Delay (VHD) at 35 mph		Over one year ago -8.7%	Over last quarter -7.5%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph		Over one year ago -8.1%	Over last quarter -5.6%
Total Vehicle Hours of Delay (VHD) at 60 mph		Over one year ago -0.4%	Over last quarter -3.9%
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph		Over one year ago -0.4%	Over last quarter -2.9%

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago Friday -14.8%	Largest Magnitude Decrease over last quarter Thursday -12.4%
		Largest Magnitude Increase over one year ago Wednesday 10.8%	Largest Magnitude Increase over last quarter Monday 20.9%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		Largest Magnitude Weekday Decrease over one year ago 2 PM -16.5%	Largest Magnitude Weekday Decrease over last quarter 5 PM -9.1%
		Largest Magnitude Weekday Increase over one year ago 11 PM 60.2%	Largest Magnitude Weekday Increase over last quarter 5 AM 25.6%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago 5 PM -29.3%	Largest Magnitude Saturday Decrease over last quarter 5 PM -46.8%
		Largest Magnitude Saturday Increase over one year ago 5 AM 53.2%	Largest Magnitude Saturday Increase over last quarter 12 PM 27.2%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/ Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago 4 PM -23.1%	Largest Magnitude Sun./Holiday Decrease over last quarter 1 PM -29.6%
		Largest Magnitude Sun./Holiday Increase over one year ago 10 PM 92.5%	Largest Magnitude Sun./Holiday Increase over last quarter 9 PM 53.9%

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph		Largest Magnitude Decrease over one year ago Riverside -20.2%	Largest Magnitude Decrease over last quarter San Bernardi -9.1%
		Largest Magnitude Increase over one year ago San Bernardino 6%	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 Off-Peak Day -13.8%	Largest Magnitude Decrease over last quarter PM Peak -4.5%
		Largest Magnitude Increase over one year ago AM Peak 13.2%	Largest Magnitude Increase over last quarter AM Peak 2.8%
Average Number of Good and Bad Detectors		Change in Good over one year ago 13%	Change in Good over last quarter 5%
		Change in Bad over one year ago 19%	Change in Bad over last quarter -4%

Congestion by Route											
		Vehicle Hours of Delay at 35 mph			Difference 2024 Q1-2023 Q1		Difference 2024 Q1-2023 Q4		Rank		
Route	County	2023 Q1	2023 Q4	2024 Q1	Absolute	Percentage	Absolute	Percentage	2023 Q1	2023 Q4	2024 Q1
I15	San Bernardino	762091.6	573025.6	584602.4	-177489.2	-23%	11,577	2%	1	1	1
I15	Riverside	444747	443404.7	476352.7	31605.7	7%	32,948	7%	4	4	2
I215	Riverside	553101.8	419878	419675.5	-133426.3	-24%	(203)	0%	2	5	3
I10	San Bernardino	431432.9	500218.3	392955	-38477.9	-9%	(107,263)	-21%	5	2	4
SR91	Riverside	464800.3	470521.2	382996.9	-81803.4	-18%	(87,524)	-19%	3	3	5
I210	San Bernardino	179595.8	395656.3	327573.9	147978.1	82%	(68,082)	-17%	7	6	6
I215	San Bernardino	17580.9	109988.4	131391.5	113810.6	647%	21,403	19%	10	8	7
SR60	Riverside	304353.8	152969	129655.5	-174698.3	-57%	(23,314)	-15%	6	7	8
SR71	San Bernardino	345.5	27178.8	44074.1	43728.6	12657%	16,895	62%	11	11	9
I10	Riverside	56944.9	55528.9	42293.3	-14651.6	-26%	(13,236)	-24%	8	9	10
SR60	San Bernardino	28767.2	49556.5	24179.6	-4587.6	-16%	(25,377)	-51%	9	10	11
SR71	Riverside	0	1241.1	4737.6	4737.6		3,497	282%	12	12	12
TOTALS		**3,243,762**	**3,199,167**	**2,960,488**	**-283,274**	**-8.7%**	**-238,679**	**-7.5%**			

The Congestion by Route table shows that congestion in District 8 has decreased by 7.5 percent from the previous quarter and decreased by 8.7 percent from one year ago.