

# District 08 Mobility Performance Report

2023 Quarter Four

**DEPARTMENT OF TRANSPORTATION**

January 24, 2024  
DIVISION OF OPERATIONS  
TMS SUPPORT

# District 08 Mobility Performance Report

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2023 Quarter Four

## 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 fourth quarter of 2023 was 5.41 billion miles, which was a 2.1 percent increase when compared to VMT from a year ago and a 2.4 percent increase from the previous quarter.

In the fourth quarter of 2023, at the 35mph speed threshold, San Bernardino County exhibited 1.66 million vehicle hours of delay followed by Riverside County at 1.54 million. Total delay in District 8 equaled 3.2 million VHD for the 35mph speed threshold. This was a 7 percent increase from the previous quarter, and a 7 percent decrease when compared to the same quarter over a year ago. The 60-mph speed threshold saw a similar trend, during the fourth quarter of 2023, total delay equaled 8.7 million VHD, which was an increase in delay by 7.4 percent from last quarter and a 1 percent decrease in delay for the same quarter over a year ago.

The busiest day of the week as far as congestion for the fourth quarter of 2023 was Friday with 136,000 hours of delay for speed under 60 mph followed by Thursday at 130,000 hours of delay.

### Top Ten Bottlenecks for the Four 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	Rte 71/91	AM	SR91-W	39.86	R	2.542	33.8849	-117.6329	47	5.91	125,118.70	124.67
2	Riverside	Winchester Road	PM	I15-N	61.12	-	6.6	33.5223	-117.1626	61	4.16	108,834.00	197.58
3	San Bernardino	Jurupa	PM	I15-S	107.73	-	.969	34.0475	-117.5502	63	2.49	88,491.80	238.58
4	San Bernardino	Milliken	PM	I210-E	60.44	-	8	34.1365	-117.5569	58	6.84	70,565.20	103.17
5	San Bernardino	4th Street	PM	I15-N	109.97	-	3.2	34.0792	-117.5446	63	2.04	66,889.80	222.50
6	Riverside	Rte 79 / Rte 15	PM	I15-N	58.02	-	3.5	33.4817	-117.1409	56	2.62	54,959.80	112.75
7	San Bernardino	Arrowhead Ave	PM	I210-E	75.99	R	23.555	34.1454	-117.2900	62	2.25	50,452.00	180.25
8	San Bernardino	Haven	PM	I10-E	54.99	-	8.22	34.0675	-117.5748	64	1.99	49,324.20	233.33
9	Riverside	Weirick Rd	PM	I15-S	90.36	-	35.878	33.8101	-117.5091	63	2.91	47,997.60	142.17
10	Riverside	Pigeon Pass	PM	SR60-E	54.63	-	14.509	33.9408	-117.2583	63	2.22	44,530.00	213.50

## **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 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

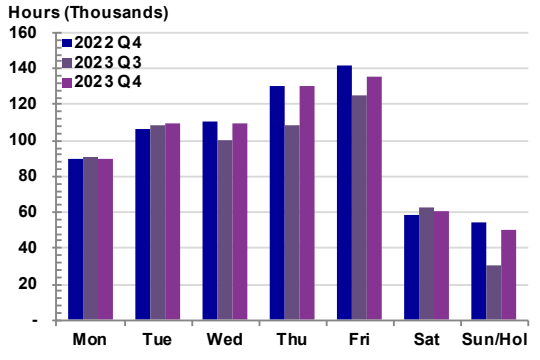
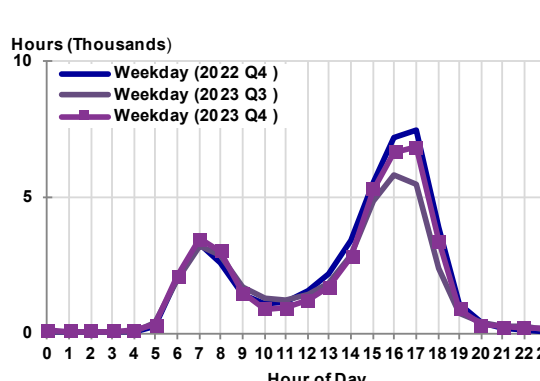
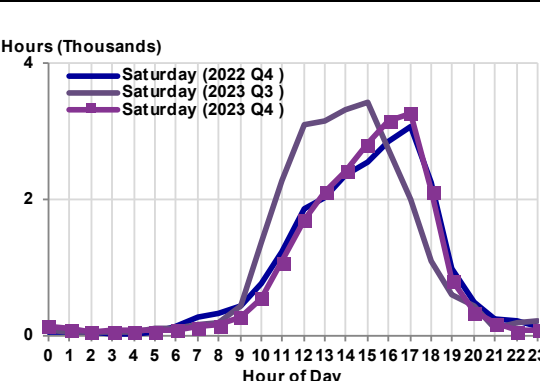
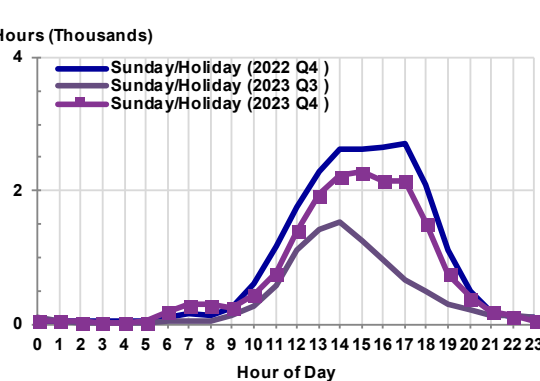
**SBD – Rte 71: Location – Chino Hills & Corona and Junction 71/91, EA 08-0G7904**  
Postmile 0.00 to 8.48, Install Ramp metering, CCTV, CMS VDS and Fiber Optic

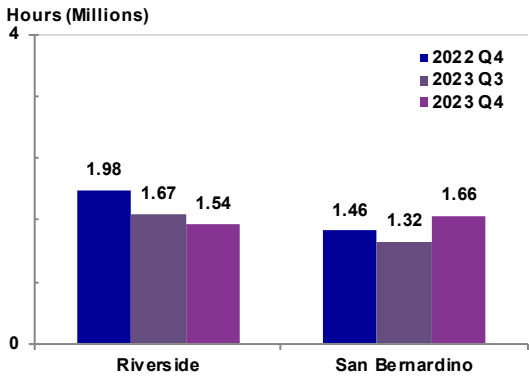




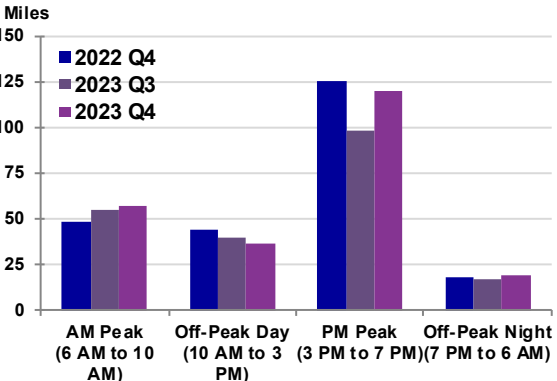




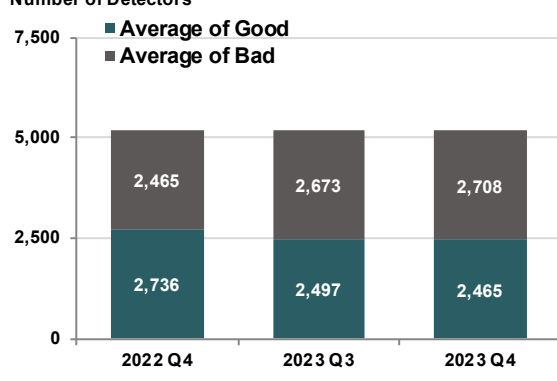




**SBD – Rte 10, 15, 60, 91, 210, 215 – Varions Locations, EA 08-1M7104**  
Postmile: Various, Modify Camera Systems

**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)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2022</td><td>5.3</td></tr> <tr><td>2023</td><td>5.28</td></tr> <tr><td>2023</td><td>5.41</td></tr> </table>	Year	Q4	2022	5.3	2023	5.28	2023	5.41	Over one year ago	Over last quarter
		Year	Q4								
		2022	5.3								
2023	5.28										
2023	5.41										
2.1%	2.4%										
↑	↑										
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2022</td><td>3.4</td></tr> <tr><td>2023</td><td>3</td></tr> <tr><td>2023</td><td>3.2</td></tr> </table>	Year	Q4	2022	3.4	2023	3	2023	3.2	Over one year ago	Over last quarter
		Year	Q4								
		2022	3.4								
2023	3										
2023	3.2										
-7%	7%										
↓	↑										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2022</td><td>45</td></tr> <tr><td>2023</td><td>40</td></tr> <tr><td>2023</td><td>43</td></tr> </table>	Year	Q4	2022	45	2023	40	2023	43	Over one year ago	Over last quarter
		Year	Q4								
		2022	45								
2023	40										
2023	43										
-6.1%	7.6%										
↓	↑										
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2022</td><td>8.8</td></tr> <tr><td>2023</td><td>8.1</td></tr> <tr><td>2023</td><td>8.7</td></tr> </table>	Year	Q4	2022	8.8	2023	8.1	2023	8.7	Over one year ago	Over last quarter
		Year	Q4								
		2022	8.8								
2023	8.1										
2023	8.7										
-1%	7.4%										
↓	↑										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2022</td><td>115</td></tr> <tr><td>2023</td><td>107</td></tr> <tr><td>2023</td><td>115</td></tr> </table>	Year	Q4	2022	115	2023	107	2023	115	Over one year ago	Over last quarter
		Year	Q4								
		2022	115								
2023	107										
2023	115										
-0.5%	6.9%										
↓	↑										

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago Friday -4.7% ↓	Largest Magnitude Decrease over last quarter Saturday -2.9% ↓
		Largest Magnitude Increase over one year ago Tuesday 3.4% ↑	Largest Magnitude Increase over last quarter Thursday 18.6% ↑
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		Largest Magnitude Weekday Decrease over one year ago 5 PM -8.8% ↓	Largest Magnitude Weekday Decrease over last quarter 10 AM -31.5% ↓
		Largest Magnitude Weekday Increase over one year ago 8 AM 16.7% ↑	Largest Magnitude Weekday Increase over last quarter 5 PM 25.3% ↑
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago 10 AM -26.8% ↓	Largest Magnitude Saturday Decrease over last quarter 12 PM -44.8% ↓
		Largest Magnitude Saturday Increase over one year ago 4 PM 11.2% ↑	Largest Magnitude Saturday Increase over last quarter 5 PM 62.4% ↑
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago 6 PM -26.8% ↓	Largest Magnitude Sun./Holiday Decrease over last quarter 11 PM -45.7% ↓
		Largest Magnitude Sun./Holiday Increase over one year ago 8 AM 100.3% ↑	Largest Magnitude Sun./Holiday Increase over last quarter 5 PM 229.1% ↑

Measure	Graph	Percentage Change	
<p><b>Total Vehicle Hours of Delay (VHD) by County at 35 mph</b></p>		<p>Largest Magnitude Decrease over one year ago</p>	<p>Largest Magnitude Decrease over last quarter</p>
		<p>Riverside -22.2% </p>	<p>Riverside -7.5% </p>
		<p>Largest Magnitude Increase over one year ago</p>	<p>Largest Magnitude Increase over last quarter</p>
		<p>San Bernardino 13.6% </p>	<p>San Bernardino 25.4% </p>
<p><b>Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph</b></p>		<p>Largest Magnitude Decrease over one year ago</p>	<p>Largest Magnitude Decrease over last quarter</p>
		<p>Off-Peak Day -14.1% </p>	<p>Off-Peak Day -5.9% </p>
		<p>Largest Magnitude Increase over one year ago</p>	<p>Largest Magnitude Increase over last quarter</p>
		<p>AM Peak 17.1% </p>	<p>PM Peak 22.5% </p>
<p><b>Average Number of Good and Bad Detectors</b></p>		<p>Change in Good over one year ago</p>	<p>Change in Good over last quarter</p>
		<p>-10% </p>	<p>-1% </p>
		<p>Change in Bad over one year ago</p>	<p>Change in Bad over last quarter</p>
		<p>10% </p>	<p>1% </p>



Congestion by Route												
Route	County	Vehicle Hours of Delay at 35 mph			Difference 2023 Q4-2022 Q4		Difference 2023 Q4-2023 Q3		Rank			
		2022 Q4	2023 Q3	2023 Q4	Absolute	Percentage	Absolute	Percentage	2022 Q4	2023 Q3	2023 Q4	
I15	San Bernardino	572366.7	493142.5	573025.6	658.9	0%	79,883	16%	2	3	1	
I10	San Bernardino	540523.3	462704.8	500218.3	-40305	-7%	37,514	8%	3	4	2	
SR91	Riverside	471596.6	526970.5	470521.2	-1075.4	0%	(56,449)	-11%	5	2	3	
I15	Riverside	512847.6	568910.6	443404.7	-69442.9	-14%	(125,506)	-22%	4	1	4	
I215	Riverside	618073.4	372397	419878	-198195.4	-32%	47,481	13%	1	5	5	
I210	San Bernardino	229724	211297.1	395656.3	165932.3	72%	184,359	87%	7	6	6	
SR60	Riverside	332931.4	168512.6	152969	-179962.4	-54%	(15,544)	-9%	6	7	7	
I215	San Bernardino	68344.1	72218.9	109988.4	41644.3	61%	37,770	52%	8	8	8	
I10	Riverside	47828.8	29709.8	55528.9	7700.1	16%	25,819	87%	9	10	9	
SR60	San Bernardino	46349.4	56451.2	49556.5	3207.1	7%	(6,895)	-12%	10	9	10	
SR71	San Bernardino	209.2	24179.3	27178.8	26969.6	12892%	3,000	12%	11	11	11	
SR71	Riverside	3.7	3016.5	1241.1	1237.4	33443%	(1,775)	-59%	12	12	12	
<b>TOTALS</b>		<b>3,440,798</b>	<b>2,989,511</b>	<b>3,199,167</b>	<b>-241,631</b>	<b>-7.0%</b>	<b>209,656</b>	<b>7.0%</b>				

The Congestion by Route table shows that congestion in District 8 has increased by 7 percent from the previous quarter and decreased by 7 percent from one year ago.

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