

# District 08 Mobility Performance Report

2022 QUARTER THREE

**DEPARTMENT OF TRANSPORTATION**

November 14, 2022  
DIVISION OF OPERATIONS  
TMS SUPPORT

# District 08 Mobility Performance Report

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2022 QUARTER THREE

## 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 third quarter of 2022 was 5.37 billion miles, which was a 0.4 percent increase when compared to VMT from a year ago and a 0.6 percent increase from the previous quarter.

In the third quarter of 2022, at the 35mph speed threshold, Riverside County exhibited 1.59 million vehicle hours of delay followed by San Bernardino County at 1.14 million. Total delay in District 8 equaled 2.7 million VHD for the 35mph speed threshold. This was a 15.3 percent decrease from the previous quarter, and a 22.4 percent decrease when compared to the same quarter over a year ago. The 60-mph speed threshold saw a similar trend, during the third quarter of 2022, total delay equaled 7.7 million VHD, which was a decrease in delay by 8.8 percent from last quarter and a 13.7 percent decrease in delay for the same quarter over a year ago.

The busiest day of the week as far as congestion for the third quarter of 2022 was Friday with 123,000 hours of delay for speed under 60 mph followed by Monday at 102,000 hours of delay.

### Top Ten Bottlenecks for the Third Quarter of 2022

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	61.32	-	6.8	33.52	-117.16	63	3.70	152,217.40	279.42
2	San Bernardino	Jurupa	PM	I15-S	107.73	-	.969	34.05	-117.55	63	2.79	79,108.70	224.08
3	San Bernardino	Haven Ave	PM	I10-E	54.99	-	8.22	34.07	-117.57	61	2.39	67,214.40	216.17
4	Riverside	Pigeon Pass	PM	SR60-E	54.63	-	14.509	33.94	-117.26	63	3.28	57,794.50	207.25
5	San Bernardino	4th Street	PM	I15-N	109.97	-	3.2	34.08	-117.54	63	1.10	52,255.70	242.75
6	San Bernardino	0.5 miles west of Milliken	PM	I210-E	59.84	-	7.4	34.14	-117.57	40	5.89	50,362.00	96.00
7	Riverside	Rte 79 / Rte 15	PM	I15-N	58.02	-	3.5	33.48	-117.14	57	2.98	48,081.00	112.42
8	Riverside	Pierce	AM	SR91-W	48.15	-	10.724	33.90	-117.49	62	1.90	41,480.90	230.25
9	Riverside	Pierce	PM	SR91-W	48.15	-	10.724	33.90	-117.49	63	1.96	35,005.60	203.08
10	San Bernardino	Jurupa	AM	I15-S	107.73	-	.969	34.05	-117.55	62	1.56	30,194.60	167.25

## **PROJECT STATUS**

Some of the following District 8 projects which are separated by county are currently in construction for the year of 2022. 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. 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 – 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

**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

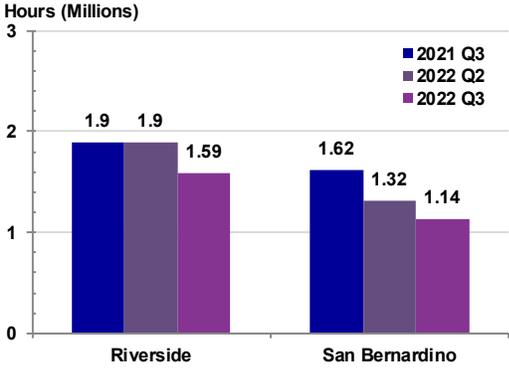
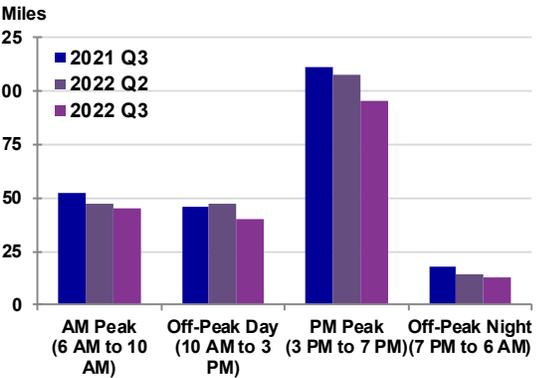
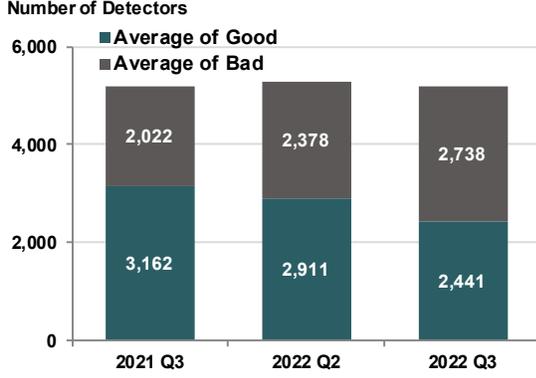
**SBD – Rte 60: Location – Near Chino and Various Locations from 0.1 mile west of Pipeline Ave OC to 0.1 Mile East of Benson Ave. EA: 0F0304**  
Postmile 0.07 to 3.00, Bridge Replacement, Pipeline Ave, Monte Vista Ave, Benson Ave.

**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

Measure	Graph	Percentage Change									
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2021</td><td>5.35</td></tr> <tr><td>2022</td><td>5.34</td></tr> <tr><td>2022</td><td>5.37</td></tr> </table>	Year	Q3	2021	5.35	2022	5.34	2022	5.37	Over one year ago	Over last quarter
		Year	Q3								
		2021	5.35								
2022	5.34										
2022	5.37										
0.4%	0.6%										
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2021</td><td>3.5</td></tr> <tr><td>2022</td><td>3.2</td></tr> <tr><td>2022</td><td>2.7</td></tr> </table>	Year	Q3	2021	3.5	2022	3.2	2022	2.7	Over one year ago	Over last quarter
		Year	Q3								
		2021	3.5								
2022	3.2										
2022	2.7										
-22.4%	-15.3%										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2021</td><td>44</td></tr> <tr><td>2022</td><td>41</td></tr> <tr><td>2022</td><td>36</td></tr> </table>	Year	Q3	2021	44	2022	41	2022	36	Over one year ago	Over last quarter
		Year	Q3								
		2021	44								
2022	41										
2022	36										
-18.9%	-13.7%										
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2021</td><td>8.9</td></tr> <tr><td>2022</td><td>8.4</td></tr> <tr><td>2022</td><td>7.7</td></tr> </table>	Year	Q3	2021	8.9	2022	8.4	2022	7.7	Over one year ago	Over last quarter
		Year	Q3								
		2021	8.9								
2022	8.4										
2022	7.7										
-13.7%	-8.8%										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2021</td><td>112</td></tr> <tr><td>2022</td><td>108</td></tr> <tr><td>2022</td><td>101</td></tr> </table>	Year	Q3	2021	112	2022	108	2022	101	Over one year ago	Over last quarter
		Year	Q3								
		2021	112								
2022	108										
2022	101										
-9.9%	-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	Largest Magnitude Decrease over last quarter
		Saturday -26.5% ↓	Sun/Hol -26% ↓
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		-	-
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		Largest Magnitude Weekday Decrease over one year ago	Largest Magnitude Weekday Decrease over last quarter
		5 PM -16.8% ↓	4 PM -16.7% ↓
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		-	8 AM 5.4% ↑
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago	Largest Magnitude Saturday Decrease over last quarter
		3 PM -38.6% ↓	4 PM -37.5% ↓
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		8 PM 51.4% ↑	10 PM 70.5% ↑
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago	Largest Magnitude Sun./Holiday Decrease over last quarter
		2 PM -50.6% ↓	1 PM -39.8% ↓
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		10 AM 16.1% ↑	6 AM 93.7% ↑

Measure	Graph	Percentage Change	
<b>Total Vehicle Hours of Delay (VHD) by County at 35 mph</b>		<b>Largest Magnitude Decrease over one year ago</b>	<b>Largest Magnitude Decrease over last quarter</b>
		San Bernardino -29.3% 	Riverside -16.5% 
<b>Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph</b>		<b>Largest Magnitude Decrease over one year ago</b>	<b>Largest Magnitude Decrease over last quarter</b>
		PM Peak -14.7% 	PM Peak -11.1% 
<b>Average Number of Good and Bad Detectors</b>		<b>Change in Good over one year ago</b>	<b>Change in Good over last quarter</b>
		-23% 	-16% 
		<b>Change in Bad over one year ago</b>	<b>Change in Bad over last quarter</b>
		35% 	15% 

Congestion by Route											
Route	County	Vehicle Hours of Delay at 35 mph			Difference 2022 Q3-2021 Q3		Difference 2022 Q3-2022 Q2		Rank		
		2021 Q3	2022 Q2	2022 Q3	Absolute	Percentage	Absolute	Percentage	2021 Q3	2022 Q2	2022 Q3
I215	Riverside	503,188	580,989	506,442	3,254	0.6%	-74,547	-12.8%	5	1	1
I15	Riverside	697,601	539,742	475,380	-222,221	-31.9%	-64,362	-11.9%	1	3	2
I10	San Bernardino	525,438	408,368	447,219	-78,218	-14.9%	38,851	9.5%	4	5	3
I15	San Bernardino	676,974	576,997	417,354	-259,620	-38.4%	-159,643	-27.7%	2	2	4
SR91	Riverside	547,173	426,989	404,937	-142,236	-26.0%	-22,052	-5.2%	3	4	5
SR60	Riverside	114,766	279,545	186,910	72,145	62.9%	-92,635	-33.1%	7	6	6
I210	San Bernardino	282,627	206,727	177,567	-105,060	-37.2%	-29,160	-14.1%	6	7	7
I215	San Bernardino	63,547	76,012	60,062	-3,485	-5.5%	-15,950	-21.0%	8	9	8
SR60	San Bernardino	10,692	55,937	41,438	30,746	287.6%	-14,499	-25.9%	11	10	9
I10	Riverside	37,252	77,110	15,920	-21,332	-57.3%	-61,190	-79.4%	10	8	10
SR71	San Bernardino	59,282	150	144	-59,138	-99.8%	-7	-4.5%	9	11	11
SR71	Riverside	3,485	0	0	-3,485	-100.0%	0		12		
<b>TOTALS</b>		<b>3,522,023</b>	<b>3,228,566</b>	<b>2,733,373</b>	<b>-788,650</b>	<b>-22.4%</b>	<b>-495,193</b>	<b>-15.3%</b>			

The Congestion by Route table shows that congestion has decreased by 15.3% from the previous quarter and a 22.4 percent decrease 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.