

District 08 Mobility Performance Report

2019 Fourth Quarter

DEPARTMENT OF TRANSPORTATION
DISTRICT 8
DIVISION OF OPERATIONS
TMS SUPPORT
February 4, 2020

District 08 Mobility Performance Report

2019 Fourth Quarter

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 2.4 million residents while San Bernardino County is estimated at 2.2 million residents. With a total of 4.6 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 fourth quarter of 2019 was 5.3 billion miles, which was a 20.9 percent decrease when compared to VMT from a year ago and a 2.7 percent decrease from the previous quarter.

In the fourth quarter of 2019, at the 35mph speed threshold, Riverside County exhibited 1.97 million vehicle hours of delay followed by San Bernardino County at 1.46 million. Total delay in District 8 equaled 3.4 million VHD for 35mph speed threshold. This was a 0.9 percent decrease from the previous quarter, and a 11.8 percent increase when compared to the same quarter over a year ago. The 60-mph speed threshold saw a similar trend, during the fourth quarter of 2019, total delay equaled 8.6 million VHD, which was a increase in delay by 0.9 percent from last quarter and a 4.4 percent increase in delay for the same quarter over a year ago.

The busiest day of the week as far as congestion for the fourth quarter was Friday with 149,000 hours of delay for speed under 60 mph followed by Thursday with 124,000 hours and Monday, with 115,000 hours.

Top Ten Bottlenecks for 2019 Fourth Quarter:

Rank	Fwy	Name	Shift	Begin CA Postmile	Avg Extent (Miles)	Total Delay (veh-hrs)
1	SR91-W	Green River	AM	.995	4.43	261,776.50
2	I15-N	Winchester Rd	PM	6.8	5.62	207,649.10
3	I15-N	4th Street	PM	3.2	1.21	73,662.10
4	I10-E	Fontana Rest Area	PM	13.8	3.26	69,283.30
5	I15-S	Cajalco Road	PM	36.8	2.57	58,979.20
6	I15-N	Bedford Wash	AM	36.3	4.02	58,715.20
7	I210-E	Milliken	PM	8	5.61	55,042.90
8	I215-S	Van Buren Blvd	PM	33.989	2.59	54,246.40
9	I15-S	Jurupa	PM	.969	1.60	54,044.80
10	SR91-W	LINCOLN	AM	5.28	1.03	48,120.80

PROJECT STATUS

The following District 8 projects which are separated by county are currently in construction for the year of 2018 and 2019. These projects will relieve congestion in District 8 however, during the construction phase there might be an increase in delay during off-peak periods due to lane closures.

Riverside County:

EA: 08-0A0204 DA: 08-1617		REVISED:11-05-2018
		FHWA: STPLN - 5956 (262)
Project Time Began: September 24, 2018 Location: Interstate 215 at Scott Road Interchange Improvement in the City of Menifee Delivery: 215 Interchange Improvement @ Scott Road		RIV-215-R14.80(23.82) / 16.20(26.07)
PROJ I.D.: 0800000018 EA: 08-0A4904		REVISED:06-29-2016
		FHWA:
Project Time Began: April 04, 2011 Location: IN RIVERSIDE COUNTYIN MURRIETA FROM 0.3 MILES SOUTH TO 0.6 MILES NORTH OF CALIFORNIA OAKS AVENUE UNDERCROSSING Delivery: BRIDGE WIDENING, TRAFFIC AND DRAINAGE IMPROVEMENTS		RIV-015-10.30(16.58) / 10.90(17.54)
PROJ I.D.: 0800000136 EA: 08-0F540 EP: 08-14-N-DP-0075 DA: 08-1468		REVISED:03-15-2017
		FHWA:
Project Time Began: January 31, 2014 P.E. Period Began: September 20, 2017 Location: 08-RIV-91-00.0/14.0, 08-RIV-15-34.0/46.0, 12-ORA-R14.0.R18.91 Delivery: Corridor Improvement Project		RIV-015-R34.00(R54.72) / 46.00(R74.03) RIV-091-R0.00(R0.00) / 14.00(R22.53)
PROJ I.D.: 0800000301 EA: 08-0J4404 EP: 08-14-A-OP-0729 DA: 08-1574		REVISED:05-23-2019
		FHWA: STPLN-5956(234)
Project Time Began: May 18, 2015 P.E. Period Began: June 01, 2019 Location: In Riverside County, In the City of Menifee on Interstate 215 at Newport Road Interchange Improvements Delivery: Interchange Improvement		RIV-215-R17.40(28.00) / 19.30(31.06)
PROJ I.D.: 0800000308 EA: 08-0J6104		REVISED:01-19-2018
		FHWA:
Project Time Began: October 16, 2017 Location: Interstate 15/Cajalco Road Interchange. In the City of Corona between El Cerrito and Weirick Roads. Delivery: Interchange Improvements & Reconstruction		RIV-015-36.40(58.58) / 37.60(60.51)

PROJ I.D.: 0812000057 REVISID:04-24-2019
EA: 08-OR3104] FHWA:

Project Time Began: December 26, 2019
Location: In Riverside County along SR-74 in Lake Elsinore at Various
Locations from Macy Street to 0.1 Mile East of Lakeshore Drive
Delivery: Reconstruct sidewalks, curb ramps and driveways
RIV-074-12.10(19.47) /
14.30(23.01)

PROJ I.D.: 0814000223 REVISID:12-21-2016
EA: 08-1C0914] FHWA: ACNHP-P060(147)E

Project Time Began: June 06, 2016
Location: Construction on State Highway in Riverside County from 60/215
Separation to Gilman Springs Road and 1.5 Miles west of Jack Rabbit trail to
Route 60/10 Separation.
Delivery: Mill and overlay mainline pavement, shoulders, ramps, include dig outs
RIV-060-12.20(19.63) /
33.10(53.27)
RIV-060-26.50(42.65) /
30.40(48.92)

PROJ I.D.: 0812000339 REVISID:01-14-2020
EA: 08-1C64A4] FHWA: ACST-000C(454)E

Project Time Began: August 01, 2019
Location: Route 60 in Riverside county from Milliken Ave to
60/91/215 interchange.
Delivery: Replace wireless communication with Fiber Optic and
connect existing.
RIV-060-R0.00(0.00) / 12.20(19.63)

PROJ I.D.: 0814000026 REVISID:07-12-2019
EA: 08-1E4604] FHWA: ACHSNH-P074(066)E

Project Time Began: May 13, 2019
Location: In Riv. Co in and around Hemet from 0.1 Mile West of West
Acacia Avenue to Ramona Expressway
Delivery: Construct raised median curbs and left turns, and widen
shoulders
RIV-074-37.70(60.67) / 44.70(71.94)

PROJ I.D.: 0815000059[SUSPENDED] REVISID:12-13-2019
EA: 08-1F9204] FHWA: ACSB1NH-X065(114)/
RMRA

Project Time Began: January 11, 2019
Location: ALSO RIV 10 R54.3/R56.3, RIV-10 R100.2/R102.2, RIV-10
R147.1/R149.1 RIV 60 18.7/20.7, RIV-86 R19.1/R21.1 VARIOUS LOCATIONS
ON ROUTES 10, 60 AND 86
Delivery: INSTALL 4 CHANGEABLE MESSAGE SIGNS (CMS) ON RTE 10 EB &
1 CMS ON RTE 60 EB AND 1 CMS ON RTE 86 NB
RIV-010-4.60(7.40) /
148.10(238.34)
RIV-060-19.80(31.86) /
19.80(31.86)
RIV-086-R20.10(32.35) /
20.10(32.35)

PROJ I.D.: 0816000162 REVISID:12-13-2019
EA: 08-1H1404] FHWA: ACHSNGH-P060(156)E

Project Time Began:
Location: On State Hwy in Riverside County in Moreno Valley at
Sunnymead Boulevard eastbound entrance ramp.
Delivery: Construct traffic signal
RIV-060-16.60(26.71) / 16.60(26.71)

PROJ I.D.: 0817000074

REVISED:12-13-2019

EA: 08-1H5304 |

FHWA: ACSB1ST-000C(491)E

Project Time Began: November 01, 2019
Location: On Routes 10, 15, 60, 210, and 215
Delivery: Repair detection sites

RIV-010-0.70(1.13) / 154.80(249.12)
RIV-015-41.80(67.27) / 47.50(76.44)
RIV-060-23.70(38.14) / 29.90(48.12)
SBD-010-21.50(34.60) / 24.50(39.43)
SBD-015-0.80(1.29) / 183.40(295.15)
SBD-210-0.10(0.16) / 32.60(52.46)
SBD-215-11.80(18.99) / 16.40(26.39)

PROJ I.D.: 0800020444

REVISED:12-31-2019

EA: 08-34141 | EP: 08-17-A-MC-0675 | DA: 08-1525 |

FHWA: DEM10L-5209(008)

Project Time Began: February 20, 2018
Location: New bridge over Highway 60 at Potrero Blvd. The bridge is in the City of Beaumont and County of Riverside.
Delivery: Bridge and Highway widening

RIV-060-28.70(46.19) / 30.20(48.60)

PROJ I.D.: 0800000668

REVISED:05-23-2019

EA: 08-432304 | DA: 08-1515 |

FHWA: STPHPLULN 5459(025)

Project Time Began: June 13, 2017
P.E. Period Began: March 01, 2019
Location: In Temecula @ I-15/SR-79 South Interchange.
Delivery: Realign and reconstruct onramps & offramps

RIV-015-3.00(4.83) / 4.00(6.44)
RIV-079-19.60(31.54) / 19.90(32.03)

PROJ I.D.: 0800000755

REVISED:01-18-2019

EA: 08-475204 | EP: 08-14-A-OP-0684 | DA: 08-1583 |

FHWA: ACNHPI-010-4(064)E

Project Time Began: April 13, 2015
P.E. Period Began: August 25, 2017
Location: In Riverside County, in the City of Indio, Interstate 10 at Jefferson Street.

RIV-010-51.70(83.20) / 53.10(85.45)

Delivery: Demolish existing bridge and northbound Indio Boulevard overcrossing, and replace with new six-lane bridge

San Bernardino County

PROJ I.D.: 0800020201 <u>EA: 08-0E1504</u>	REVISED:11-07-2019 FHWA:
Project Time Began: August 23, 2018 Location: Limonite Avenue at I-15 Interchange Improvement Project, in the city of Eastvale and Jurupa Valley Delivery: Interchange Improvement	SBD-015-46.70(75.15) / 49.70(79.98)
PROJ I.D.: 0800020358 <u>EA: 08-0F0304</u>	REVISED:04-12-2019 FHWA:
Project Time Began: June 03, 2019 Location: In San Bernardino County in and Near Chino at Various locations from 0.1 mile west of Pipeline Ave OC to 0.1 Mile East of Benson Ave. OC. Delivery: Bridge Replacement, Pipeline Ave, Monte Vista Ave, Benson Ave.	SBD-060-R0.07(0.11) / 3.00(4.83)
PROJ I.D.: 18-1001967 <u>EA: 08-0F6314</u>	REVISED:01-14-2020 FHWA: STPLULN 6053 (122)
Project Time Began: April 10, 2019 Location: Five miles of US 395 between State Route 18 (Palmdale Road) to Chamberlain Way Delivery: Widening from two to four lanes	SBD-395-11.20(18.02) / 16.60(26.71)
PROJ I.D.: 0812000098 <u>EA: 08-0K2914</u>	REVISED:04-12-2019 FHWA: ACIM-010-2(265)E
Project Time Began: June 07, 2018 Location: Lane Replacement in San Bernardino County in Redlands from Orange Street Undercrossing to Redlands Blvd off-ramp undercrossing. Delivery: Lane Replacement	SBD-010-30.90(49.73) / 33.30(53.59)
PROJ I.D.: 0817000114 <u>EA: 08-0Q75U4</u>	REVISED:06-18-2019 FHWA: ACSB1NH-P060(155)E
Project Time Began: June 08, 2019 Location: IN ONTARIO FR EUCLID AVE UC TO RIV CO LN & NEAR RIVERSIDE FROM SBD CO LN TO COUNTRY VILLAGE RD & FROM 0.7 MILES W/O VALLEY WAY TO JCT 60/91/215 IC Delivery: REPLACEMENT OF TWO OUTSIDE LANES AND CONCRETE SLABS	SBD-060-R4.60(7.40) / 9.90(15.93)
PROJ I.D.: 0817000074 <u>EA: 08-1H5304</u>	REVISED:12-13-2019 FHWA: ACSB1ST-000C(491)E
Project Time Began: November 01, 2019 Location: On Routes 10, 15, 60, 210, and 215 Delivery: Repair detection sites	RIV-010-0.70(1.13) / 154.80(249.12) RIV-015-41.80(67.27) / 47.50(76.44) RIV-060-23.70(38.14) / 29.90(48.12) SBD-010-21.50(34.60) / 24.50(39.43) SBD-015-0.80(1.29) / 183.40(295.15) SBD-210-0.10(0.16) / 32.60(52.46) SBD-215-11.80(18.99) / 16.40(26.39)

PROJ I.D.: 0800000616
EA: [08-347704](#) |

REVISED:01-12-2018
FHWA: ACNH-P058(127)N

Project Time Began: January 10, 2018
Location : San Bernardino County on Route 58 from Kern County Line to 7.5 Miles East of Route 395 and on Route 395 from 0.1 Mile to 0.6 Mile North of Kramer Junction.
Delivery : Construct 4-lane Divided Expressway

SBD-058-R0.00(0.00) /
R12.92(20.80)

PROJ I.D.: 0814000086
EA: [08-3555V4](#) |

REVISED:01-04-2019
FHWA: ACNHPI-015-1(237)146E
STPLN-6208(029)

Project Time Began: March 23, 2016
Location : In San Bernardino County in Victorville from 0.5 Mile North of Mojave Drive to 1.5 Mile North of Stoddard Wells Road Overcrossing
Delivery : Widen I-15, Reconstruct 3 IC'S, construct 2 new BR and widen 3 BR

SBD-015-42.50(68.40) /
46.00(74.03)

PROJ I.D.: 0815000168
EA: [08-384234](#) |

REVISED:12-16-2019
FHWA:

Project Time Began: April 10, 2019
Location : IN SAN BERNARDINO AND RIVERSIDE COUNTIES IN AND NEAR REDLANDS AND YUCAIPA FROM 0.1 MILE WEST OF ALABAMA STREET TO 0.2 MILE EAST OF COUNTY LINE ROAD
Delivery : Install Fiber Optic System and Modify Existing Electrical System

SBD-010-29.40(47.31) /
39.20(63.08)

2019 Fourth Quarter Mobility Statistics District 8

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>2018</td><td>6.7</td></tr> <tr><td>2019</td><td>5.5</td></tr> <tr><td>2019</td><td>5.3</td></tr> </table>	Year	Q4	2018	6.7	2019	5.5	2019	5.3	Over one year ago	Over last quarter
		Year	Q4								
		2018	6.7								
2019	5.5										
2019	5.3										
-20.9%	-2.7%										
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>2018</td><td>3.1</td></tr> <tr><td>2019</td><td>3.5</td></tr> <tr><td>2019</td><td>3.4</td></tr> </table>	Year	Q4	2018	3.1	2019	3.5	2019	3.4	Over one year ago	Over last quarter
		Year	Q4								
		2018	3.1								
2019	3.5										
2019	3.4										
11.8%	-0.9%										
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>2018</td><td>43</td></tr> <tr><td>2019</td><td>47</td></tr> <tr><td>2019</td><td>49</td></tr> </table>	Year	Q4	2018	43	2019	47	2019	49	Over one year ago	Over last quarter
		Year	Q4								
		2018	43								
2019	47										
2019	49										
14.3%	4.8%										
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>2018</td><td>8.2</td></tr> <tr><td>2019</td><td>8.6</td></tr> <tr><td>2019</td><td>8.6</td></tr> </table>	Year	Q4	2018	8.2	2019	8.6	2019	8.6	Over one year ago	Over last quarter
		Year	Q4								
		2018	8.2								
2019	8.6										
2019	8.6										
4.4%	-0.9%										
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>2018</td><td>113</td></tr> <tr><td>2019</td><td>116</td></tr> <tr><td>2019</td><td>120</td></tr> </table>	Year	Q4	2018	113	2019	116	2019	120	Over one year ago	Over last quarter
		Year	Q4								
		2018	113								
2019	116										
2019	120										
6.6%	3.6%										

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
		Sun/Hol -27% ↓	Thursday -7.5% ↓
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Monday 35.1% ↑	Friday 17.2% ↑
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
		10 AM -4.1% ↓	9 AM -24.6% ↓
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		5 PM 16.7% ↑	5 PM 18.4% ↑
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
		9 PM -55.5% ↓	2 PM -22.5% ↓
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		12 PM 32.2% ↑	5 PM 14.2% ↑
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
		1 PM -25.9% ↓	8 PM -51.3% ↓
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		7 PM 3.6% ↑	5 PM 47.1% ↑

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		-	San Bernardino -6.8% ↓
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		-	AM Peak -9.6% ↓
Average Number of Good and Bad Detectors		Change in Good over one year ago	Change in Good over last quarter
		-13% ↓	-15% ↓
		Change in Bad over one year ago	Change in Bad over last quarter
		-31.94% ↓	-25% ↓

Congestion by Route											
Route	County	Vehicle Hours of Delay at 35 mph			Difference 2019 Q4-2018 Q4		Difference 2019 Q4-2019 Q3		Rank		
		2018 Q4	2019 Q3	2019 Q4	Absolute	Percentage	Absolute	Percentage	2018 Q4	2019 Q3	2019 Q4
SR91	Riverside	565963.9	700,575.90	693,502.00	127,538.10	22.53%	(7,073.90)	-1.01%	1	1	1
I10	San Bernardino	386928.6	390,694.50	534,007.10	147,078.50	38.01%	143,312.60	36.68%	4	3	2
I15	Riverside	400419	346,819.60	522,249.60	121,830.60	30.43%	175,430.00	50.58%	3	5	3
I215	Riverside	440496.8	603,043.50	501,353.60	60,856.80	13.82%	(101,689.90)	-16.86%	2	2	4
I15	San Bernardino	377871.3	367,366.50	353,058.20	(24,813.10)	-6.57%	(14,308.30)	-3.89%	5	4	5
I210	San Bernardino	237910.1	331,736.20	330,407.90	92,497.80	38.88%	(1,328.30)	-0.40%	6	6	6
SR60	San Bernardino	141159.5	127,766.30	175,218.60	34,059.10	24.13%	47,452.30	37.14%	7	8	7
SR60	Riverside	104488.7	138,120.20	97,470.70	(7,018.00)	-6.72%	(40,649.50)	-29.43%	8	7	8
I215	San Bernardino	68611.1	79,520.50	89,563.60	20,952.50	30.54%	10,043.10	12.63%	9	9	9
SR71	San Bernardino	58778.3	53,621.10	81,683.40	22,905.10	38.97%	28,062.30	52.33%	10	10	10
SR71	Riverside	41567.8	43,311.00	57,161.00	15,593.20	37.51%	13,850.00	31.98%	11	11	11
I10	Riverside	28107.8	38,548.70	22,324.40	(5,783.40)	-20.58%	(16,224.30)	-42.09%	12	12	12
TOTALS		2,852,303	3,221,124	3,458,000	605,697	21.2%	236,876	7.4%			