

# District 08 Mobility Performance Report

2019 Third Quarter

**DEPARTMENT OF TRANSPORTATION**  
**DISTRICT 8**  
**DIVISION OF OPERATIONS**  
**TMS SUPPORT**  
January 8, 2020

## District 08 Mobility Performance Report

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2019 Third 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 third quarter of 2019 was 5.5 billion miles, which was a 24.5 percent decrease when compared to VMT from a year ago and a 0.2 percent increase from the previous quarter.

In the third quarter of 2019, at the 35mph speed threshold, Riverside County exhibited 1.89 million vehicle hours of delay followed by San Bernardino County at 1.56 million. Total delay in District 8 equaled 3.5 million VHD for 35mph speed threshold. This was a 7.4 percent increase from the previous quarter, and a 21.2 percent increase when compared to the same quarter over a year ago. The 60-mph speed threshold saw a similar trend, during the second quarter of 2019, total delay equaled 8.6 million VHD, which was a increase in delay by 5.2 percent from last quarter and a 9.8 percent increase in delay for the same quarter over a year ago.

The busiest day of the week as far as congestion for the third quarter was Thursday with 134,000 hours of delay for speed under 60 mph followed by Friday with 127,000 hours and Monday, Tuesday and Wednesday with 107,000 hours.

### Top Ten Bottlenecks for 2019 Third Quarter:

Rank	Freeway	Approximate Location	Period	Begin CA Postmile	Avg Extent (Miles)	Total Delay (veh-hrs)
1	SR91-W	Green River	AM	R.995	4.41	291,545.40
2	I15-N	Winchester Rd	PM	6.8	6.03	224,778.40
3	I210-E	Milliken	PM	8	5.90	74,533.10
4	I15-N	4th Street	PM	3.2	1.15	73,093.20
5	I10-E	Fontana Rest Area	PM	13.8	3.35	69,616.80
6	I15-S	Cajalco Road	PM	36.8	2.65	66,447.70
7	SR71-S	Rte71/91 s/o Prado Dam	AM	2.5	3.42	61,494.10
8	I15-S	Jurupa	PM	.969	1.60	53,385.80
9	SR91-W	Lincoln	AM	5.28	1.02	46,880.30
10	I215-S	Van Buren Blvd	PM	R33.463	3.23	46,554.70

## 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

REVISED:06-29-2016

EA: [08-0A4904](#) |

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

REVISED:03-15-2017

EA: [08-0F540](#) | EP: [08-14-N-DP-0075](#) | DA: [08-1468](#) |

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

REVISED:05-23-2019

EA: [08-0J4404](#) | EP: [08-14-A-OP-0729](#) | DA: [08-1574](#) |

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

REVISED:01-19-2018

EA: [08-0J6104](#) |

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

EA: [08-0R3104](#) |

REVISED:04-24-2019

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

EA: [08-1C0914](#) |

REVISED:12-21-2016

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 digouts

RIV-060-12.20(19.63) /  
33.10(53.27)  
RIV-060-26.50(42.65) /  
30.40(48.92)

PROJ I.D.: 0812000339

EA: [08-1C64A4](#) |

REVISED:01-14-2020

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

EA: [08-1E4604](#) |

REVISED:07-12-2019

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]

EA: [08-1F9204](#) |

REVISED:12-13-2019

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

EA: [08-1H1404](#) |

REVISED:12-13-2019

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

<p><b>Project Time Began:</b> November 01, 2019  <b>Location :</b> On Routes 10, 15, 60, 210, and 215  <b>Delivery :</b> Repair detection sites</p>	<p><b>RIV-010-0.70(1.13) / 154.80(249.12)</b>  <b>RIV-015-41.80(67.27) / 47.50(76.44)</b>  <b>RIV-060-23.70(38.14) / 29.90(48.12)</b>                  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)</p>
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PROJ I.D.: 0800020444 **REVISED:12-31-2019**  
**EA: 08-34141 | EP: 08-17-A-MC-0675 | DA: 08-1525 |** FHWA: DEM10L-5209(008)

<p><b>Project Time Began:</b> February 20, 2018  <b>Location :</b> New bridge over Highway 60 at Potrero Blvd. The bridge is in the City of Beaumont and County of Riverside.  <b>Delivery :</b> Bridge and Highway widening</p>	<p><b>RIV-060-28.70(46.19) / 30.20(48.60)</b></p>
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PROJ I.D.: 0800000668 **REVISED:05-23-2019**  
**EA: 08-432304 | DA: 08-1515 |** FHWA: STPHPLULN 5459(025)

<p><b>Project Time Began:</b> June 13, 2017  <b>P.E. Period Began:</b> March 01, 2019  <b>Location :</b> In Temecula @ I-15/SR-79 South Interchange.  <b>Delivery :</b> Realign and resonstruct onramps &amp; offramps</p>	<p><b>RIV-015-3.00(4.83) / 4.00(6.44)</b>  <b>RIV-079-19.60(31.54) / 19.90(32.03)</b></p>
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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

<p><b>Project Time Began:</b> April 13, 2015  <b>P.E. Period Began:</b> August 25, 2017  <b>Location :</b> In Riverside County, in the City of Indio, Interstate 10 at Jefferson Street.  <b>Delivery :</b> Demolish existing bridge and northbound Indio Boulevard overcrossing, and replace with new six-lane bridge</p>	<p><b>RIV-010-51.70(83.20) / 53.10(85.45)</b></p>
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## San Bernardino County

PROJ I.D.: 0800020201 **REVISED:11-07-2019**  
**EA: 08-0E1504 |** FHWA:

<p><b>Project Time Began:</b> August 23, 2018  <b>Location :</b> Limonite Avenue at I-15 Interchange Improvement Project, in the city of Eastvale and Jurupa Valley  <b>Delivery :</b> Interchange Improvement</p>	<p><b>SBD-015-46.70(75.15) / 49.70(79.98)</b></p>
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PROJ I.D.: 0800020358

REVISED:04-12-2019

EA: [08-0F0304](#) |

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

REVISED:01-14-2020

EA: [08-0F6314](#) |

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

REVISED:04-12-2019

EA: [08-0K2914](#) |

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

REVISED:06-18-2019

EA: [08-0Q75U4](#) |

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

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.: 0800000616

REVISED:01-12-2018

EA: [08-347704](#) |

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 Divieded 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 Bernarino 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, Constrcut 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

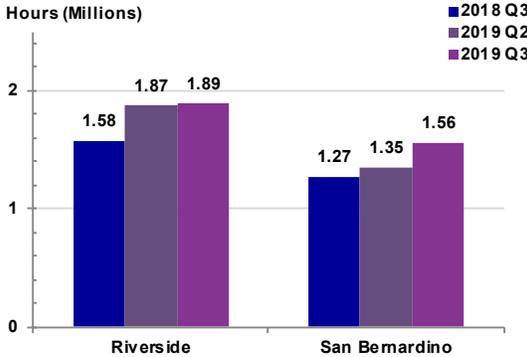
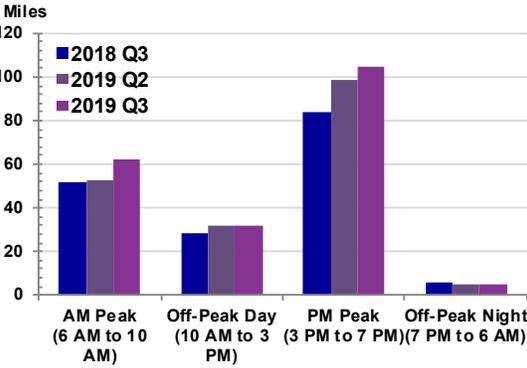
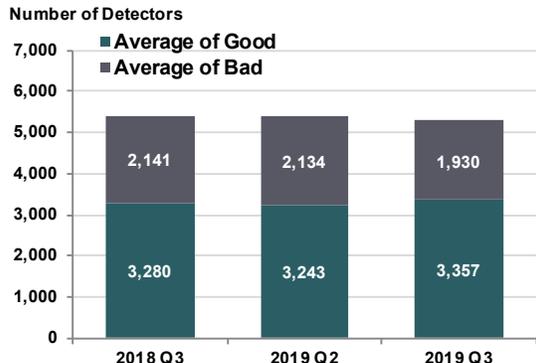
Delivery : Install Fiber Optic System and Modify Existing Electrical System

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

## 2019 Third Quarter Mobility Statistics District 8

Measure	Graph	Percentage Change									
		Over one year ago	Over last quarter								
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2018</td><td>7.2</td></tr> <tr><td>2019</td><td>5.4</td></tr> <tr><td>2019</td><td>5.5</td></tr> </table>	Year	Q3	2018	7.2	2019	5.4	2019	5.5	Over one year ago	Over last quarter
		Year	Q3								
		2018	7.2								
2019	5.4										
2019	5.5										
-24.5%	0.2%										
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>2018</td><td>2.9</td></tr> <tr><td>2019</td><td>3.2</td></tr> <tr><td>2019</td><td>3.5</td></tr> </table>	Year	Q3	2018	2.9	2019	3.2	2019	3.5	Over one year ago	Over last quarter
		Year	Q3								
		2018	2.9								
2019	3.2										
2019	3.5										
21.2%	7.4%										
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>2018</td><td>39</td></tr> <tr><td>2019</td><td>44</td></tr> <tr><td>2019</td><td>47</td></tr> </table>	Year	Q3	2018	39	2019	44	2019	47	Over one year ago	Over last quarter
		Year	Q3								
		2018	39								
2019	44										
2019	47										
19.4%	5.9%										
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>2018</td><td>7.9</td></tr> <tr><td>2019</td><td>8.2</td></tr> <tr><td>2019</td><td>8.6</td></tr> </table>	Year	Q3	2018	7.9	2019	8.2	2019	8.6	Over one year ago	Over last quarter
		Year	Q3								
		2018	7.9								
2019	8.2										
2019	8.6										
9.8%	5.2%										
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>2018</td><td>108</td></tr> <tr><td>2019</td><td>111</td></tr> <tr><td>2019</td><td>116</td></tr> </table>	Year	Q3	2018	108	2019	111	2019	116	Over one year ago	Over last quarter
		Year	Q3								
		2018	108								
2019	111										
2019	116										
7.5%	4.5%										

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
		Friday -1.9%	Sun/Hol -15.6%
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Thursday 25.1%	Thursday 17.1%
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
		9 PM -42.7%	9 PM -42.6%
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		5 PM 27.1%	5 PM 9.7%
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
		7 AM -16.5%	9 PM -47.9%
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		5 PM 68.8%	5 PM 60.4%
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
		10 AM -6.2%	1 PM -24.8%
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		4 PM 41.1%	6 PM 41%

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> -
		<b>Largest Magnitude Increase over one year ago</b> <b>Riverside 19.8%</b> ↑	<b>Largest Magnitude Increase over last quarter</b> <b>San Bernardino 15.8%</b> ↑
<b>Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph</b>		<b>Largest Magnitude Decrease over one year ago</b> <b>Off-Peak Night -23%</b> ↓	<b>Largest Magnitude Decrease over last quarter</b> -
		<b>Largest Magnitude Increase over one year ago</b> <b>PM Peak 24.1%</b> ↑	<b>Largest Magnitude Increase over last quarter</b> <b>AM Peak 16.8%</b> ↑
<b>Average Number of Good and Bad Detectors</b>		<b>Change in Good over one year ago</b> <b>2%</b> ↑	<b>Change in Good over last quarter</b> <b>3%</b> ↑
		<b>Change in Bad over one year ago</b> <b>-9.86%</b> ↓	<b>Change in Bad over last quarter</b> <b>-10%</b> ↓

**Congestion by Route**

Route	County	Vehicle Hours of Delay at 35 mph			Difference 2019 Q3-2018 Q3		Difference 2019 Q3-2019 Q2		Rank		
		2018 Q3	2019 Q2	2019 Q3	Absolute	Percentage	Absolute	Percentage	2018 Q3	2019 Q2	2019 Q3
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
<b>TOTALS</b>		<b>2,852,303</b>	<b>3,221,124</b>	<b>3,458,000</b>	<b>605,697</b>	<b>21.2%</b>	<b>236,876</b>	<b>7.4%</b>			

**\*I-10 Riverside County** – The data shows a major decrease in delay this could possibly be due to an ongoing paving construction project damaging our vehicle detector sensors in that area.

**\*SR-60 Riverside County** – We have multiple radar stations on this route, and an ongoing construction project which is adding a lane on both directions of the freeway could be disturbing radar detection due to lanes being shifted.