

# District 08 Mobility Performance Report

2020 QUARTER ONE

**DEPARTMENT OF TRANSPORTATION**

June 3, 2020  
DIVISION OF OPERATIONS  
TMS SUPPORT

# District 08 Mobility Performance Report

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2020 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 2.4 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 first quarter of 2020 was 5 billion miles, which was a 4.9 percent decrease when compared to VMT from a year ago and a 6.3 percent decrease from the previous quarter.

In the first quarter of 2020, at the 35mph speed threshold, Riverside County exhibited 1.5 million vehicle hours of delay followed by San Bernardino County at 1.02 million. Total delay in District 8 equaled 2.5 million VHD for the 35mph speed threshold. This was a 26.6 percent decrease from the previous quarter, and a 17.1 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 2020, total delay equaled 6.8 million VHD, which was a decrease in delay by 21 percent from last quarter and a 16 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 was Friday with 105,000 hours of delay for speed under 60 mph followed by Thursday with 100,000 hours and Wednesday, with 101,000 hours.

### Top Ten Bottlenecks for the First Quarter of 2020

| Rank | Fwy    | Name                        | Shift | Begin CA Postmile | Avg Extent (Miles) | Total Delay (veh-hrs) |
|------|--------|-----------------------------|-------|-------------------|--------------------|-----------------------|
| 1    | I15-N  | Winchester Rd               | PM    | 6.8               | 6.89               | 214,528.00            |
| 2    | SR91-W | Green River                 | AM    | .995              | 4.48               | 206,934.70            |
| 3    | I15-N  | Bedford Wash                | AM    | 36.3              | 4.49               | 72,616.30             |
| 4    | I15-S  | Cajalco Road                | PM    | 36.8              | 3.17               | 68,677.70             |
| 5    | I10-E  | Fontana Rest Area           | PM    | 13.8              | 3.10               | 66,021.60             |
| 6    | I15-N  | 4th Street                  | PM    | 3.2               | 1.16               | 55,971.30             |
| 7    | I15-S  | Jurupa                      | PM    | .969              | 1.58               | 43,101.20             |
| 8    | I210-E | 0.4 miles east of Carnelian | PM    | 5.1               | 3.98               | 41,521.50             |
| 9    | I10-E  | Haven Ave                   | PM    | 8.22              | 2.66               | 40,570.30             |
| 10   | I210-E | Milliken                    | PM    | 8                 | 3.89               | 40,138.70             |

## PROJECT STATUS

Some of the following District 8 projects which are separated by county are currently in construction while some have been suspended due to COVID-19 pandemic, for the year of 2019 and 2020. 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 – Rte. 215 Interchange at Scotts Road, EA: 0A0204**

Postmile R14.80 to 16.20 – Interchange improvement at Scotts Road city of Menifee.

**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. 15,91: Location - Corona on Rte. 91 from Main St. to Rte. 15, and on Rte. 15, Northbound 15 to WB Connectors EA: 0F5434**

Rte 15 - PM 41.08 to 42.31 and Rte. 91 – PM 6.05 to 7.57  
Express Lanes' Connectors - Bridge & GP Lane Widening

**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 215: Location – Menifee Rte 215 at Newport Rd Interchange, EA: 0J4404**

Postmile R17.40 to 19.30, Interchange Improvement.

**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

**RIV – Rte 60: Location – City of Beaumont, Potrero Blvd**

Postmile 28.80 to 30.20 – New Bridge and Highway widening.

**RIV - Rte. 10: Location - City of Indio at Jefferson St, EA: 475204**

Postmile 51.70 to 53.10 - Demolish existing bridge and northbound Indio Boulevard overcrossing and replace with new six-lane bridge.

**RIV – Rte 60: Location – Rte 60 from Milliken Ave to 91/215**

Postmile 0.0 to R12.2, Replace wireless communication system with Fiber Optic Infrastructure.

**San Bernardino County:**

**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**

Postmile 25.00 to 33.20, Widen Freeway add one lane in each direction.

**SBD – Rte 15: Location - Limonite Ave/I-15, EA: 0E1504**

Postmile 46.70 to 49.70, Limonite Avenue at I-15 interchange Improvement Project, in city of Eastvale and Jurupa Valley.

**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 215: Locations – Rte 215/Barton Rd, EA: 0J0704**

Postmile 0.58/1.95, Project to reconstruct the existing I-215/Barton Rd Interchange.

**SBD - Rte 10: Location – San Bernardino County from Redlands to Orange St, EA: 0K2914**

Postmile 30.90 to 33.30, Lane Replacement in San Bernardino County in Redlands from Orange Street Undercrossing to Redlands Blvd off-ramp undercrossing.

**SBD – Rte 10: Location – Colton at Santa Ana River Bridge EA: 0Q9104**

Postmile 23.80 to 23.80, Bridge Rehabilitation and Seismic Retrofit.

**SBD - Rte 15: Location – Kenwood Ave to West Hesperia, EA: 0Q7404**

Postmile 15.40 to 30.80, Lane Replacement on I-15 from 0.4 mile north of Kenwood Avenue to 0.3 mile south of West Hesperia OH

**SBD – Rte 15: Location – Rte 15 to 395 Connector, EA: 1L5404**

Postmile 31.50 to 32.50, repair Bridge Deck

**SBD - Rte 15: Location – Victorville from Mojave Dr to Stoddard Wells Rd, EA: 3555VA**

Postmile 42.50 to 46.00, In San Bernardino County in Victorville from 0.5 Mile North of Mojave Drive to 1.5 Mile North of Stoddard Wells Road Overcrossing, Widen I-15, Reconstruct 3 IC'S, construct 2 new BR and widen 3 BR

**SBD – Rte Various Locations, San Bernardino and Riverside County, EA: 1C6304**

Install Road Weather Information System and Modify Existing Electrical system

**SBD – Rte 10: Location – 0.2 MI w/o Live Oak Canyon Rd to County Line, EA: 0K2934**

Postmile: R36.80/39.20, Pavement Rehab & Continuously Reinforced Concrete Pavement

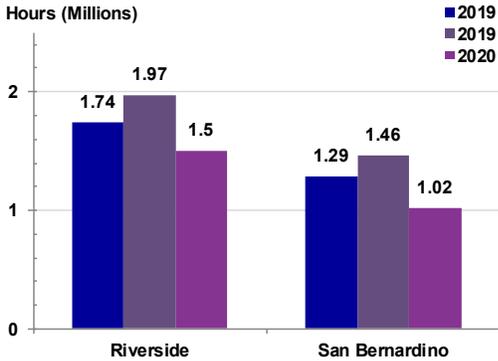
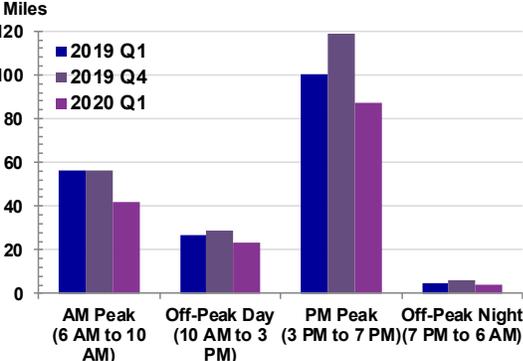
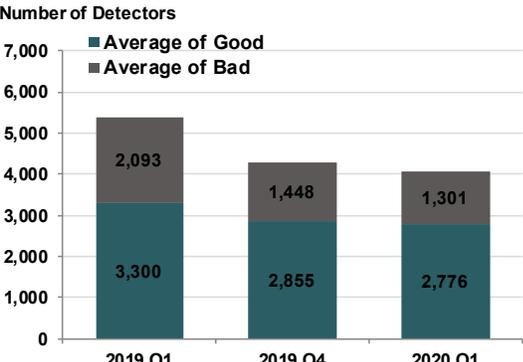
**SBD – Rte 10: Location – Alabama street to 0.2 Miles East of County Line Road, EA 384234**

Postmile: 29.40 to 39.20, Install Fiber Optic System and Modify Electrical System

## Quarterly Mobility Statistics

| Measure  | Graph  | Percentage Change |                   |         |     |         |     |         |     |                   |                   |
|--|--|-------------------|-------------------|---------|-----|---------|-----|---------|-----|-------------------|-------------------|
|  |  | Over one year ago | Over last quarter |         |     |         |     |         |     |                   |                   |
| Vehicle Miles of Travel (VMT)                                      | <p>Miles (Billions)</p> <table border="1"> <caption>Vehicle Miles of Travel (VMT) - Miles (Billions)</caption> <thead> <tr> <th>Period</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>2019 Q1</td> <td>5.2</td> </tr> <tr> <td>2019 Q4</td> <td>5.3</td> </tr> <tr> <td>2020 Q1</td> <td>5</td> </tr> </tbody> </table>   | Period            | Value             | 2019 Q1 | 5.2 | 2019 Q4 | 5.3 | 2020 Q1 | 5   | Over one year ago | Over last quarter |
|  |  | Period            | Value             |         |     |         |     |         |     |                   |                   |
| 2019 Q1  | 5.2  |                   |                   |         |     |         |     |         |     |                   |                   |
| 2019 Q4  | 5.3  |                   |                   |         |     |         |     |         |     |                   |                   |
| 2020 Q1  | 5  |                   |                   |         |     |         |     |         |     |                   |                   |
|  |  | -4.9%             | -6.3%             |         |     |         |     |         |     |                   |                   |
| Total Vehicle Hours of Delay (VHD) at 35 mph                       | <p>Hours (Millions)</p> <table border="1"> <caption>Total Vehicle Hours of Delay (VHD) at 35 mph - Hours (Millions)</caption> <thead> <tr> <th>Period</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>2019 Q1</td> <td>3</td> </tr> <tr> <td>2019 Q4</td> <td>3.4</td> </tr> <tr> <td>2020 Q1</td> <td>2.5</td> </tr> </tbody> </table>                          | Period            | Value             | 2019 Q1 | 3   | 2019 Q4 | 3.4 | 2020 Q1 | 2.5 | Over one year ago | Over last quarter |
|  |  | Period            | Value             |         |     |         |     |         |     |                   |                   |
| 2019 Q1  | 3  |                   |                   |         |     |         |     |         |     |                   |                   |
| 2019 Q4  | 3.4  |                   |                   |         |     |         |     |         |     |                   |                   |
| 2020 Q1  | 2.5  |                   |                   |         |     |         |     |         |     |                   |                   |
|  |  | -17.1%            | -26.6%            |         |     |         |     |         |     |                   |                   |
| Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph | <p>Hours (Thousands)</p> <table border="1"> <caption>Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph - Hours (Thousands)</caption> <thead> <tr> <th>Period</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>2019 Q1</td> <td>44</td> </tr> <tr> <td>2019 Q4</td> <td>49</td> </tr> <tr> <td>2020 Q1</td> <td>37</td> </tr> </tbody> </table>   | Period            | Value             | 2019 Q1 | 44  | 2019 Q4 | 49  | 2020 Q1 | 37  | Over one year ago | Over last quarter |
|  |  | Period            | Value             |         |     |         |     |         |     |                   |                   |
| 2019 Q1  | 44   |                   |                   |         |     |         |     |         |     |                   |                   |
| 2019 Q4  | 49   |                   |                   |         |     |         |     |         |     |                   |                   |
| 2020 Q1  | 37   |                   |                   |         |     |         |     |         |     |                   |                   |
|  |  | -15.5%            | -24.2%            |         |     |         |     |         |     |                   |                   |
| Total Vehicle Hours of Delay (VHD) at 60 mph                       | <p>Hours (Millions)</p> <table border="1"> <caption>Total Vehicle Hours of Delay (VHD) at 60 mph - Hours (Millions)</caption> <thead> <tr> <th>Period</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>2019 Q1</td> <td>8.1</td> </tr> <tr> <td>2019 Q4</td> <td>8.6</td> </tr> <tr> <td>2020 Q1</td> <td>6.8</td> </tr> </tbody> </table>                        | Period            | Value             | 2019 Q1 | 8.1 | 2019 Q4 | 8.6 | 2020 Q1 | 6.8 | Over one year ago | Over last quarter |
|  |  | Period            | Value             |         |     |         |     |         |     |                   |                   |
| 2019 Q1  | 8.1  |                   |                   |         |     |         |     |         |     |                   |                   |
| 2019 Q4  | 8.6  |                   |                   |         |     |         |     |         |     |                   |                   |
| 2020 Q1  | 6.8  |                   |                   |         |     |         |     |         |     |                   |                   |
|  |  | -16%              | -21%              |         |     |         |     |         |     |                   |                   |
| Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph | <p>Hours (Thousands)</p> <table border="1"> <caption>Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph - Hours (Thousands)</caption> <thead> <tr> <th>Period</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>2019 Q1</td> <td>115</td> </tr> <tr> <td>2019 Q4</td> <td>120</td> </tr> <tr> <td>2020 Q1</td> <td>97</td> </tr> </tbody> </table> | Period            | Value             | 2019 Q1 | 115 | 2019 Q4 | 120 | 2020 Q1 | 97  | Over one year ago | Over last quarter |
|  |  | Period            | Value             |         |     |         |     |         |     |                   |                   |
| 2019 Q1  | 115  |                   |                   |         |     |         |     |         |     |                   |                   |
| 2019 Q4  | 120  |                   |                   |         |     |         |     |         |     |                   |                   |
| 2020 Q1  | 97   |                   |                   |         |     |         |     |         |     |                   |                   |
|  |  | -15.5%            | -19.1%            |         |     |         |     |         |     |                   |                   |

| Measure   | Graph   | Percentage Change   |   |
|---|---|---|---|
| Average Vehicle Hours of Delay by Day of Week at 60 mph                   | <p>Hours (Thousands)</p> <p>■ 2019 Q1<br/>■ 2019 Q4<br/>■ 2020 Q1</p> <p>Mon Tue Wed Thu Fri Sat Sun/Hol</p>  | Largest Magnitude Decrease over one year ago              | Largest Magnitude Decrease over last quarter              |
|   |   | Monday -29% ↓   | Friday -29.4% ↓   |
|   |   | Largest Magnitude Increase over one year ago              | Largest Magnitude Increase over last quarter              |
|   |   | Wednesday 0.8% ↑  | -   |
| Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays         | <p>Hours (Thousands)</p> <p>— Weekday (2019 Q1)<br/>— Weekday (2019 Q4)<br/>— Weekday (2020 Q1)</p> <p>0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23</p> <p>Hour of Day</p>                                   | Largest Magnitude Weekday Decrease over one year ago      | Largest Magnitude Weekday Decrease over last quarter      |
|   |   | 7 AM -22% ↓   | 5 PM -26.5% ↓   |
|   |   | Largest Magnitude Weekday Increase over one year ago      | Largest Magnitude Weekday Increase over last quarter      |
|   |   | 5 AM 8.4% ↑   | 5 AM 3.1% ↑   |
| Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays        | <p>Hours (Thousands)</p> <p>— Saturday (2019 Q1)<br/>— Saturday (2019 Q4)<br/>— Saturday (2020 Q1)</p> <p>0 1 2 3</p> <p>0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23</p> <p>Hour of Day</p>                 | Largest Magnitude Saturday Decrease over one year ago     | Largest Magnitude Saturday Decrease over last quarter     |
|   |   | 2 PM -44.2% ↓   | 4 PM -57.9% ↓   |
|   |   | Largest Magnitude Saturday Increase over one year ago     | Largest Magnitude Saturday Increase over last quarter     |
|   |   | -   | -   |
| Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/Holidays | <p>Hours (Thousands)</p> <p>— Sunday/Holiday (2019 Q1)<br/>— Sunday/Holiday (2019 Q4)<br/>— Sunday/Holiday (2020 Q1)</p> <p>0 1 2</p> <p>0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23</p> <p>Hour of Day</p> | Largest Magnitude Sun./Holiday Decrease over one year ago | Largest Magnitude Sun./Holiday Decrease over last quarter |
|   |   | 3 PM -51.6% ↓   | 5 PM -56.4% ↓   |
|   |   | Largest Magnitude Sun./Holiday Increase over one year ago | Largest Magnitude Sun./Holiday Increase over last quarter |
|   |   | 9 AM 114.7% ↑   | 9 AM 8.5% ↑   |

| Measure   | Graph  | Percentage Change   |  |
|---|--|---|--|
| <b>Total Vehicle Hours of Delay (VHD) by County at 35 mph</b> |   | Largest Magnitude Decrease over one year ago<br>San Bernardino -21.5%  | Largest Magnitude Decrease over last quarter<br>Riverside -23.9%  |
|   | Largest Magnitude Increase over one year ago<br>-<br>-   | Largest Magnitude Increase over last quarter<br>-<br>-  |  |
|   | <b>Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph</b>   |   | Largest Magnitude Decrease over one year ago<br>AM Peak -25.9%    |
| Largest Magnitude Increase over one year ago<br>-<br>-        |  | Largest Magnitude Increase over last quarter<br>-<br>-  |  |
| <b>Average Number of Good and Bad Detectors</b>               |  |    | Change in Good over one year ago<br>-16%                        |
|   | Change in Bad over one year ago<br>-37.85%  | Change in Bad over last quarter<br>-10%                              |  |

**Congestion by Route**

| Route         | County         | Vehicle Hours of Delay at 35 mph |                  |                  | Difference 2020 Q1-2019 Q1 |               | Difference 2020 Q1-2019 Q4 |               | Rank    |         |         |
|---------------|----------------|----------------------------------|------------------|------------------|----------------------------|---------------|----------------------------|---------------|---------|---------|---------|
|               |                | 2019 Q1                          | 2019 Q4          | 2020 Q1          | Absolute                   | Percentage    | Absolute                   | Percentage    | 2019 Q1 | 2019 Q4 | 2020 Q1 |
| I15           | Riverside      | 302374.2                         | 566,108.10       | 492,611.90       | 190,237.70                 | 62.91%        | (73,496.20)                | -12.98%       | 5       | 2       | 1       |
| I215          | Riverside      | 573697.9                         | 535,366.30       | 459,192.70       | (114,505.20)               | -19.96%       | (76,173.60)                | -14.23%       | 2       | 3       | 2       |
| SR91          | Riverside      | 664822.5                         | 697,496.40       | 453,506.20       | (211,316.30)               | -31.79%       | (243,990.20)               | -34.98%       | 1       | 1       | 3       |
| I10           | San Bernardino | 444139                           | 535,231.10       | 363,634.30       | (80,504.70)                | -18.13%       | (171,596.80)               | -32.06%       | 3       | 4       | 4       |
| I210          | San Bernardino | 251263.9                         | 359,857.60       | 286,378.90       | 35,115.00                  | 13.98%        | (73,478.70)                | -20.42%       | 6       | 5       | 5       |
| I15           | San Bernardino | 328903.3                         | 332,962.50       | 213,570.00       | (115,333.30)               | -35.07%       | (119,392.50)               | -35.86%       | 4       | 6       | 6       |
| I215          | San Bernardino | 75510.4                          | 111,681.10       | 93,350.00        | 17,839.60                  | 23.63%        | (18,331.10)                | -16.41%       | 10      | 7       | 7       |
| SR60          | Riverside      | 130088                           | 88,017.40        | 63,116.30        | (66,971.70)                | -51.48%       | (24,901.10)                | -28.29%       | 7       | 8       | 8       |
| SR71          | San Bernardino | 75536                            | 62,945.40        | 57,062.50        | (18,473.50)                | -24.46%       | (5,882.90)                 | -9.35%        | 9       | 9       | 9       |
| I10           | Riverside      | 29050.8                          | 50,673.40        | 26,832.40        | (2,218.40)                 | -7.64%        | (23,841.00)                | -47.05%       | 12      | 11      | 10      |
| SR71          | Riverside      | 37926.3                          | 31,929.40        | 4,208.90         | (33,717.40)                | -88.90%       | (27,720.50)                | -86.82%       | 11      | 12      | 11      |
| SR60          | San Bernardino | 119263                           | 54,284.80        | 2,033.20         | (117,229.80)               | -98.30%       | (52,251.60)                | -96.25%       | 8       | 10      | 12      |
| <b>TOTALS</b> |                | <b>3,032,575</b>                 | <b>3,426,554</b> | <b>2,515,497</b> | <b>-517,078</b>            | <b>-17.1%</b> | <b>-911,056</b>            | <b>-26.6%</b> |         |         |         |

\*The Congestion by Route table shows how much of an effect the COVID -19 pandemic has had on traffic congestion in District 8. District 8 showed a 26.6 percent decrease in congestion from the previous quarter and a 17.1 percent decrease from a year ago.