# District 12 Mobility Performance Report

2017 2nd Quarter

**DEPARTMENT OF TRANSPORTATION** 

July 27, 2017 District 12 TMC

#### DISTRICT 12 MOBILITY PERFORMANCE REPORT

## 2017 2nd Quarter

#### **EXECUTIVE SUMMARY**

#### Overview

Caltrans District 12 (Orange County) is located in southern California and is neighbors with District 7 (Los Angeles), District 8 (San Bernardino), and District 11 (San Diego). As of July 2016 the total population in Orange County was 3,172,532. Orange County is the third most populous county in California, the sixth-most populous in the United States, and more populous than twenty-one U.S. states. Its county seat is Santa Ana. It is the second most densely populated county in the state.

The Mobility Performance quarterly analysis compares information from the most recent quarter and the previous 4 quarters, involving the following performance measures:

- Vehicle Miles of Travel (VMT)
- Vehicle Hours of Delay (VHD)
- o Lost Lane Miles (LLM)
- Detector Health

This information is based on data collected every day of the quarter, twenty-four hours a day, by automated vehicle detector stations deployed on urban-area freeways where congestion is regularly experienced. The MPR uses congestion at two speed thresholds: delay from vehicles traveling below 35 MPH and delay from vehicles traveling below 60 mph. The 35 MPH limit represents severe congestion while the 60 MPH limit represents light and heavy congestion. These thresholds/limits are set by Caltrans and are based upon engineering experience and District input.

## **FINDINGS**

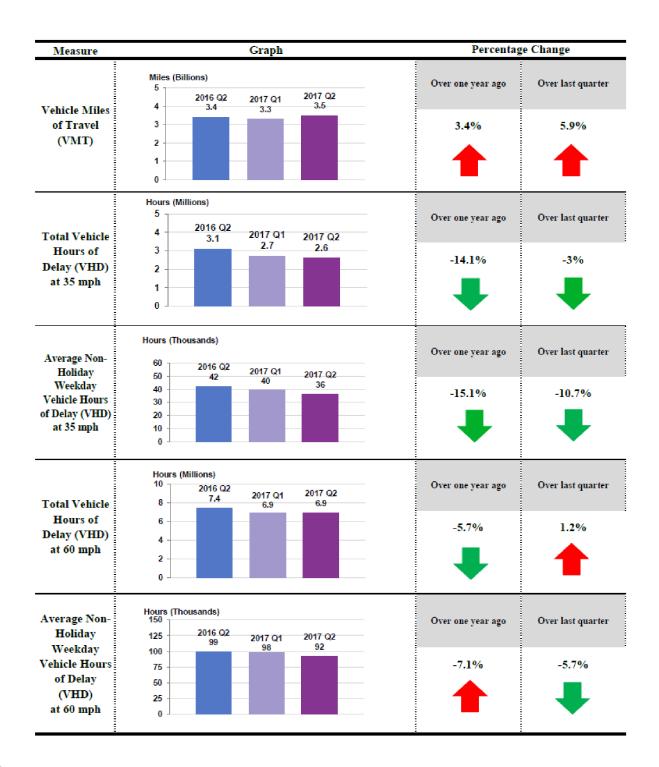
In the second quarter, at 35 mph threshold, the total delay equaled to 2.6 million vehicle hours of delay (VHD) and at 60 mph threshold, the total delay was 6.9 million VHD. The average weekday VHD in this quarter was 36 thousand hours of delay at 35 MPH and 92 thousand hours of delay at 60 MPH.

Top 10 Bottlenecks for 2nd Quarter

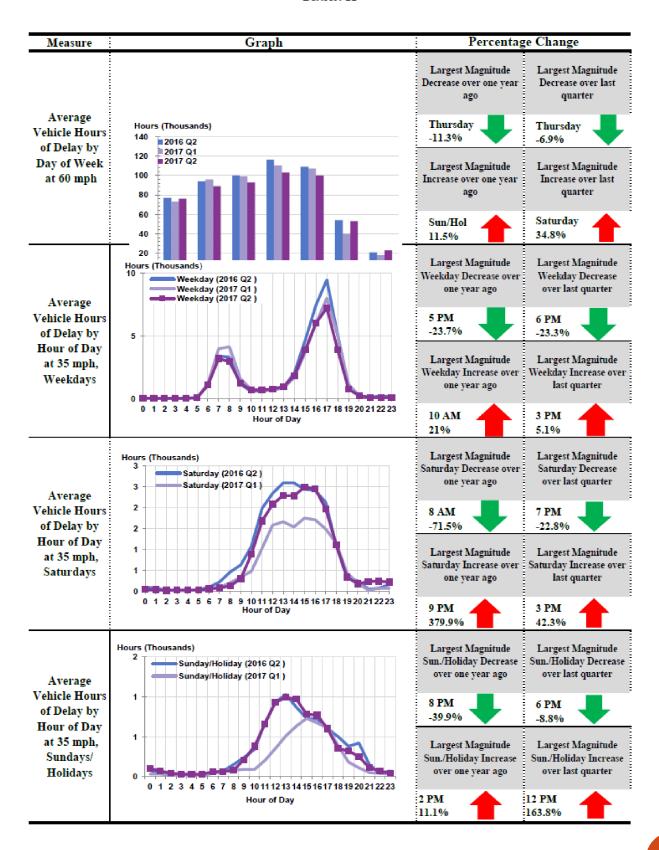
| Fwy.   | Location  | Shift | Abs PM | CA PM | # Days<br>Active | Avg.<br>Extent<br>(Miles) | Total<br>Delay<br>(veh. –<br>hrs.) | Total<br>Duration<br>(mins) |
|--------|-----------|-------|--------|-------|------------------|---------------------------|------------------------------------|-----------------------------|
| SR55-N | EDINGER 2 | PM    | 9.41   | R9.41 | 63               | 3.579365                  | 75205.6                            | 11330                       |
| 1405-N | BEACH 2   | PM    | 16.53  | 16.76 | 61               | 3.84918                   | 71986.2                            | 8705                        |
| 1405-N | BROOKHUR2 | PM    | 13.74  | 13.97 | 52               | 3.788462                  | 62464.6                            | 6940                        |
| 1405-S | WARNER    | AM    | 14.49  | 14.72 | 64               | 3.748438                  | 45273.5                            | 10205                       |
| SR55-N | LINCOLN 2 | PM    | 17.102 | 17.12 | 64               | 3.2875                    | 29558                              | 11960                       |
| 1405-N | BEACH 1   | PM    | 16.29  | 16.52 | 31               | 3.635484                  | 29171                              | 2385                        |
| 1405-S | HARVARD   | PM    | 5.98   | 6.21  | 63               | 1.368254                  | 27583.4                            | 10250                       |
| SR91-E | TUSTIN    | PM    | 26.733 | 8.36  | 59               | 2.530508                  | 25088.9                            | 11310                       |
| 1405-N | EUCLID    | PM    | 12.62  | 12.85 | 48               | 2.733333                  | 24364                              | 2330                        |
| 1405-N | BROOKHUR2 | PM    | 13.74  | 13.97 | 64               | 4.115625                  | 23397.4                            | 9955                        |

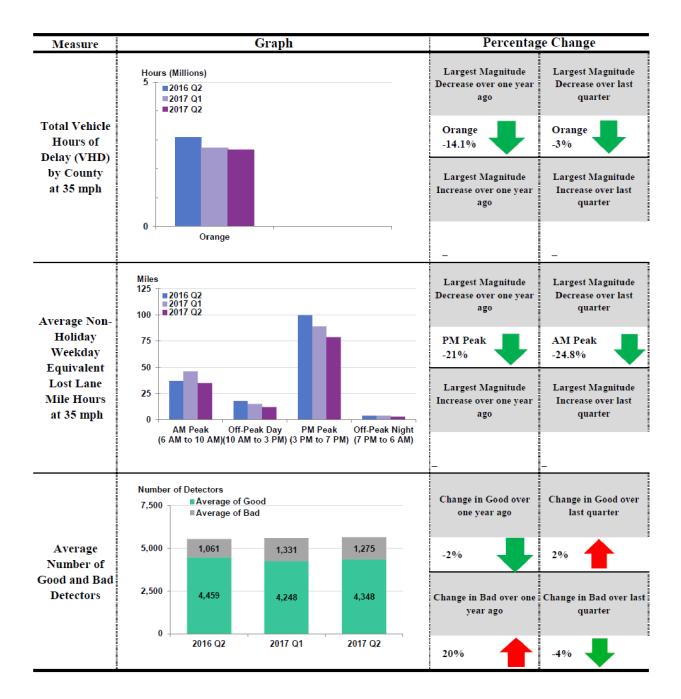
## **Quarterly Mobility Statistics**

2017 Q2 Quarterly Mobility Statistics District 12



#### 2017 Q2 Quarterly Mobility Statistics District 12





### 2017 Q2 Quarterly Mobility Statistics District 12

| Congestion by Route |                       |                                     |         |         |                               |            |                               |            |         |         |         |  |  |
|---------------------|-----------------------|-------------------------------------|---------|---------|-------------------------------|------------|-------------------------------|------------|---------|---------|---------|--|--|
|                     |                       | Vehicle Hours of Delay<br>at 35 mph |         |         | Difference<br>2017 Q2-2016 Q2 |            | Difference<br>2017 Q2-2017 Q1 |            | Rank    |         |         |  |  |
| Route               | County                | 2016 Q2                             | 2017 Q1 | 2017 Q2 | Absolute                      | Percentage | Absolute                      | Percentage | 2016 Q2 | 2017 Q1 | 2017 Q2 |  |  |
| I405                | Orange                | 768,650                             | 674,078 | 706,079 | -62,572                       | -8.1%      | 32,000                        | 4.7%       | 2       | 1       | 1       |  |  |
| SR91                | Orange                | 419,664                             | 373,886 | 495,655 | 75,990                        | 18.1%      | 121,769                       | 32.6%      | 4       | 4       | 2       |  |  |
| 15                  | Orange                | 832,635                             | 563,409 | 471,591 | -361,044                      | -43.4%     | -91,818                       | -16.3%     | 1       | 2       | 3       |  |  |
| SR55                | Orange                | 441,780                             | 510,173 | 461,403 | 19,623                        | 4.4%       | -48,770                       | -9.6%      | 3       | 3       | 4       |  |  |
| SR57                | Orange                | 317,520                             | 303,469 | 226,682 | -90,838                       | -28.6%     | -76,787                       | -25.3%     | 5       | 5       | 5       |  |  |
| SR22                | Orange                | 104,683                             | 142,866 | 131,925 | 27,242                        | 26.0%      | -10,941                       | -7.7%      | 7       | 6       | 6       |  |  |
| SR73                | Orange                | 133,603                             | 112,539 | 105,409 | -28,194                       | -21.1%     | -7,130                        | -6.3%      | 6       | 7       | 7       |  |  |
| SR241               | Orange                | 31,671                              | 31,774  | 21,880  | -9,791                        | -30.9%     | -9,894                        | -31.1%     | 8       | 8       | 8       |  |  |
| I605                | Or <mark>a</mark> nge | 12,891                              | 13,954  | 19,763  | 6,872                         | 53.3%      | 5,809                         | 41.6%      | 9       | 9       | 9       |  |  |
| SR133               | Orange                | 7,782                               | 2,216   | 5,468   | -2,315                        | -29.7%     | 3,252                         | 146.7%     | 11      | 10      | 10      |  |  |
| SR261               | Orange                | 10,390                              | 992     | 885     | -9,505                        | -91.5%     | -106                          | -10.7%     | 10      | 11      | 11      |  |  |
| SR74                | Orange                | 27                                  | 0       | 41      | 14                            | 50.7%      | 41                            |            | 13      |         | 12      |  |  |
| SR39                | Orange                | 109                                 | 0       | 3       | -106                          | -97.2%     | 3                             |            | 12      |         | 13      |  |  |
| SR142               | Orange                | 0                                   | 0       | 0       | 0                             |            | 0                             |            |         |         |         |  |  |