# District 07 Mobility Performance Report 

## 2017 Second Quarter

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## EXECUTIVE SUMMARY

## Overview

Caltrans District 7 contains two counties located in coastal southern California: Los Angeles and Ventura Counties. Both counties are urban, with Los Angeles being the most populous county in the United States with almost 10.2 million residents. Ventura County has a population of 856,500 . Although these are urban counties, they do contain a large amount of sparsely populated National Forest and National Recreation Area.

The Mobility Performance quarterly analysis compares information with over a year ago and over last quarter in the following performance measures:

- Vehicle Miles of Travel (VMT)
- Vehicle Hours of Delay (VHD), Bottleneck Locations
- Lost Lane Miles (equivalent lost productivity)
- Detection Health

This report is based on daily data collected, 24 hours a day, by automated vehicle detector stations deployed on urban-area freeways where congestion is regularly experienced. The MPR presents congestion information at two speed thresholds: delay from vehicles traveling below 60 miles per hour (mph), and delay from vehicles traveling below 35 mph . The delay at the 35 mph threshold represents severe congestion while delay at 60 mph represents all congestion, both light and heavy. These thresholds are set by Caltrans and are based on engineering experience and District input.

## FINDINGS

In this quarter (April - June 2017), the total delay at the 35 mph speed threshold equaled 16.2 million vehicle hours of delay (VHD), where $22 \%$ of this delay is generated by I- 405 freeway congestion alone, this total delay is 7\% more than the previous Quarter (2017-Q1).

Similarly, total delay at the 60 mph speed threshold equaled 34.4 million vehicle hours of delay (VHD), an increase of $6.6 \%$ of previous Quarter.

The average weekday daily vehicle hour delay experienced in this quarter was approximately 217 thousand VHD at 35 mph and 450 thousand VHD at 60 mph threshold. In general Delays were Up about 7\% from both last Quarter (2017 Q1) and year ago (2016 Q2).

Thursdays and Fridays are the most congested days of the week, with Peak hours extend from 6:00 am to 9:30 am and from 2:30 pm to 7:00 pm. Peak hour in the weekend (Saturday and Sunday) is generally between 1:00 pm and 5:00 pm

Top Ten Bottlenecks for the 2017 Second Quarter:

| Rank | Fwy | Location | Shift | Abs PM | CA PM | \# Days <br> Active | Avg Extent <br> (Miles) | Total Delay <br> (veh-hrs) | Total Duration <br> (hrs) |
| :---: | :---: | :--- | :--- | ---: | ---: | ---: | ---: | ---: | :---: |
| 1 | I405-N | Nordhoff | PM | 68.642 | 44.87 | 63 | 8.7 | 312,467 | 3.6 |
| 2 | I405-N | Westminster | AM | 52.292 | 28.52 | 63 | 7.2 | 231,104 | 2.3 |
| 3 | I405-S | Howard Hughes Pkwy | PM | 48.672 | 24.9 | 64 | 5.8 | 218,766 | 2.9 |
| 4 | I110-N | Adams | AM | 20.53 | 20.6 | 64 | 4.8 | 201,372 | 3.5 |
| 5 | US101-N | Highland | PM | 9.948 | 8.6 | 64 | 4.1 | 187,340 | 3.9 |
| 6 | I405-N | Waterford | PM | 55.882 | 32.11 | 60 | 4.2 | 186,375 | 3.7 |
| 7 | I105-E | Long Beach Blvd | PM | 11.9 | R11.9 | 64 | 5.6 | 184,541 | 4.7 |
| 8 | I210-E | Nb 605 To Eb 210 Conn. | PM | 36.889 | $R 36.6$ | 64 | 6.5 | 173,725 | 3.2 |
| 9 | I405-N | Inglewood | AM | 42.122 | 18.35 | 61 | 5.5 | 157,187 | 3.0 |
| 10 | I5-S | Lakewood | PM | 124.78 | 8.21 | 51 | 7.7 | 156,717 | 2.2 |

Quarterly Mobility Statistics




| Congestion by Route |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Route | County | Vehicle Hours of Delay at 35 mph |  |  | $\begin{gathered} \text { Difference } \\ 2017 \text { Q2-2016 Q2 } \end{gathered}$ |  | $\begin{gathered} \text { Difference } \\ 2017 \text { Q2-2017 Q1 } \end{gathered}$ |  | Rank |  |  |
|  |  | 2016 Q2 | 2017 Q1 | 2017 Q2 | Absolute | Percentage | Absolute | Percentage | 2016 Q2 | 2017 Q1 | 2017 Q2 |
| I-405 | Los Angeles | 3,272.479 | 2976,061 | 3,618,602 | 346,123 | 10.6\% | 642,411 | 21.6\% | 1 | 1 | 1 |
| I-5 | Los Ang eles | 1,661,110 | 1869,947 | 1,836,944 | 175834 | 10.6\% | -33,003 | -1.8\% | 3 | 2 | 2 |
| US-101 | Los Ang eles | 1,276,871 | 1,756,583 | 1,680,464 | 403,593 | 31.6\% | -76,219 | 4.3\% | 4 | 3 | 3 |
| I-10 | Los Ang eles | 1,869,641 | 1,326,618 | 1,501,562 | -368,078 | -19.7\% | 174,944 | 132\% | 2 | 4 | 4 |
| I-110 | Los Ang eles | 1,039,713 | 1,130,186 | 1,189,653 | 149940 | 14.4\% | 59,466 | 5.3\% | 6 | 6 | 5 |
| I-210 | Los Ang eles | 1,214,554 | 1202282 | 1,187,526 | -27,028 | $-22 \%$ | -14,757 | -12\% | 5 | 5 | 6 |
| I-605 | Los Angeles | 703,043 | 873,796 | 993,291 | 290,248 | 41.3\% | 119,495 | 13.7\% | 8 | 7 | 7 |
| SR-60 | Los Angeles | 811,886 | 814,466 | 816,500 | $4 ; 613$ | 0.6\% | 2,034 | 02\% | 7 | 8 | 8 |
| SR-91 | Los Angeles | 575,23 | 506,884 | 599,213 | 23,990 | 42\% | 92,329 | 182\% | 10 | 9 | 9 |
| I-105 | Los Ang eles | 636,042 | 476,610 | 577,362 | -58,680 | -92\% | 100,752 | 21.1\% | 9 | 10 | 10 |
| I-710 | Los Angeles | 213,602 | 449290 | 422,524 | 208,923 | 97.8\% | -26,765 | -6.0\% | 15 | 11 | 11 |
| US-101 | Vertura | 300.666 | 324,821 | 400.410 | 99,744 | 332\% | 75.589 | 233\% | 13 | 14 | 12 |
| SR-134 | Los Ang eles | 354,710 | 439,697 | 384,055 | 29,345 | 8.3\% | -55,642 | -12.7\% | 11 | 12 | 13 |
| SR-170 | Los Ang eles | 279,452 | 381,957 | 307,225 | 27,773 | 9.9\% | -74,732 | -19.6\% | 14 | 13 | 14 |
| SR-57 | Los Ang eles | 350,338 | 163292 | 191,113 | -159,226 | 45.4\% | 27,821 | 170\% | 12 | 16 | 15 |
| SR-118 | Los Ang eles | 70,201 | 128,837 | 152,712 | 82,511 | 117.5\% | 23,875 | 18.5\% | 18 | 17 | 16 |
| SR-14 | Los Angeles | 156,775 | 173,546 | 136,639 | -20,136 | -128\% | -36,908 | -21.3\% | 16 | 15 | 17 |
| SR-2 | Los Angeles | 46,294 | 95,823 | 109,393 | 63,099 | 136.3\% | 13,571 | 142\% | 19 | 18 | 18 |
| SR-71 | Los Angeles | 130,744 | 2642 | 50,407 | -80,337 | -61.4\% | 47,765 | 1808.0\% | 17 | 22 | 19 |
| SR-23 | Yentura | 35,018 | 57,242 | 45.422 | 10,404 | 29.7\% | -11,820 | -20.6\% | 20 | 19 | 20 |
| SR-47 | Los Angeles | 2,287 | 3.450 | 3,024 | 737 | 32\% | -126 | -123\% | 22 | 21 | 21 |
| SR-90 | Los Ang eles | 1,068 | 4,436 | 2,042 | 974 | 91.3\% | $-2,394$ | -54.0\% | 23 | 20 | 22 |
| SR-118 | Ventura | 26,545 | 691 | 315 | -26,231 | -98.8\% | -377 | -54.5\% | 21 | 23 | 23 |
| TOTALS |  | 15,028,261 | 15,159,257 | 16,206,395 | 1,178,134 | 7.8\% | 1,047,138 | 6.9\% |  |  |  |

