# District 11
# Mobility Performance Report

2023 Second Quarter

DEPARTMENT OF TRANSPORTATION

July 28, 2023

: District 11- Traffic System Performance

# District 11 Mobility Performance Report

2023 Second Quarter

## EXECUTIVE SUMMARY

### Overview

Caltrans District 11 consists of both Imperial and San Diego counties, with San Diego having a population of approximately 3,276,208 residents and Imperial County with approximately 178,713 residents. Although District 11 is composed of these two counties, no performance data was reported for Imperial County due to the lower population and lack of congestion.

The Mobility Performance quarterly analysis compares traffic information with the information collected in the same quarter over a year ago. In addition, it compares traffic information with its preceding quarter. The following parameters are used to show the performance measures of the area freeways:

- Vehicle Miles of Travel (VMT))
- Vehicle Hours of Delay (VHD), Bottleneck Locations
- Lost Lane Miles (equivalent lost productivity)
- 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 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 delay at the 35 mph threshold represents severe congestion while delay at 60

mph represents total congestion. These thresholds are set by Caltrans and are based upon engineering experience and District input.

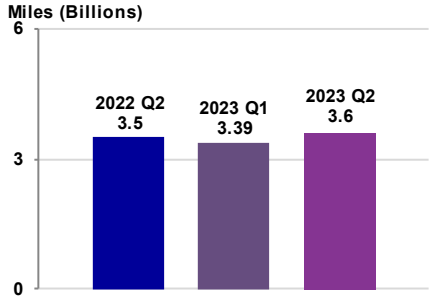
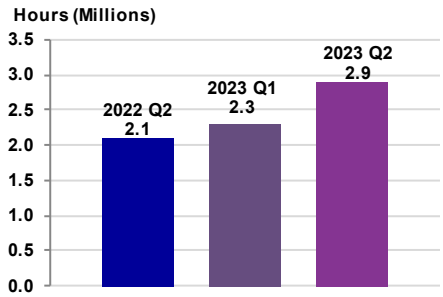
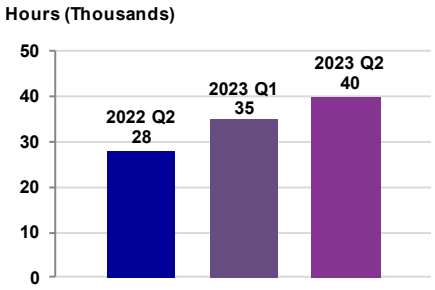
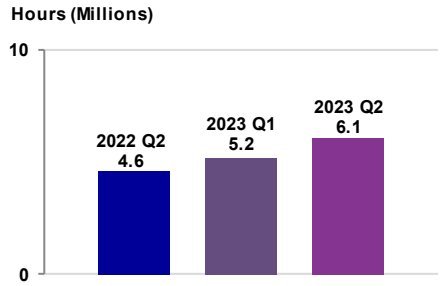
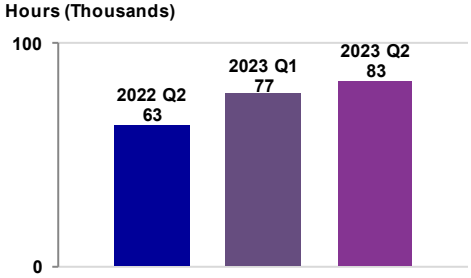
## FINDINGS

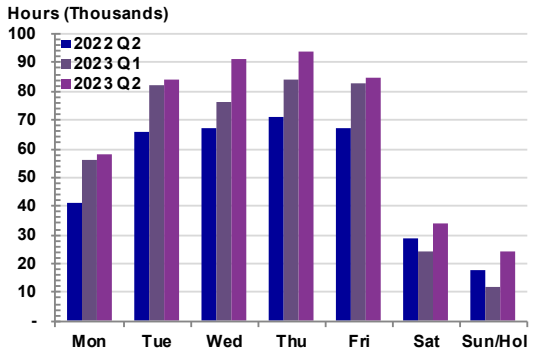
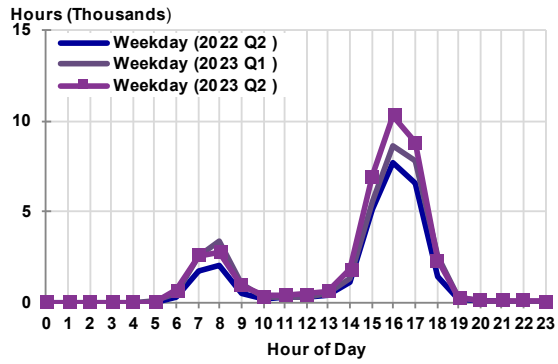
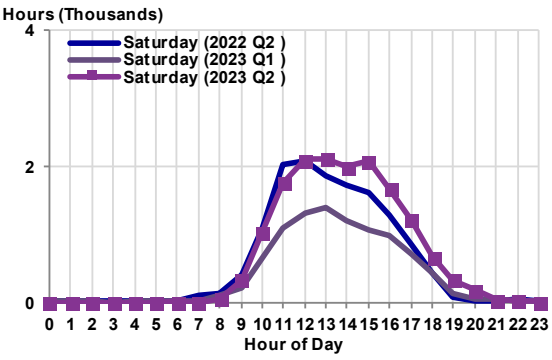
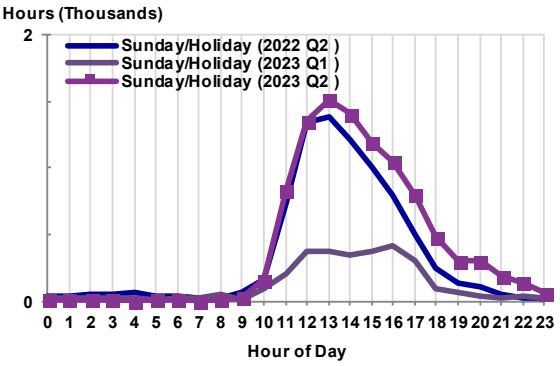
In the second quarter of 2023, total delay equaled 2.9 million vehicle hours of delay (VHD) at the 35 mph speed threshold, and 6.1 million VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 40 thousand VHD at 35 mph, and 83 thousand VHD at 60 mph.

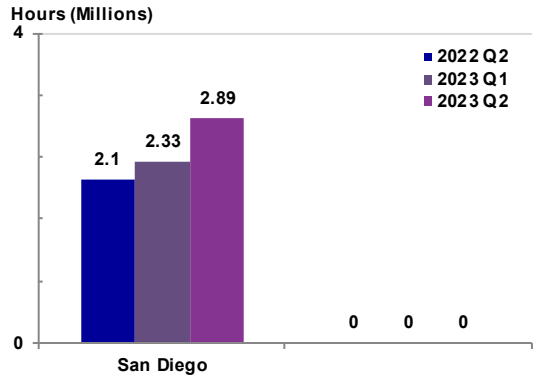
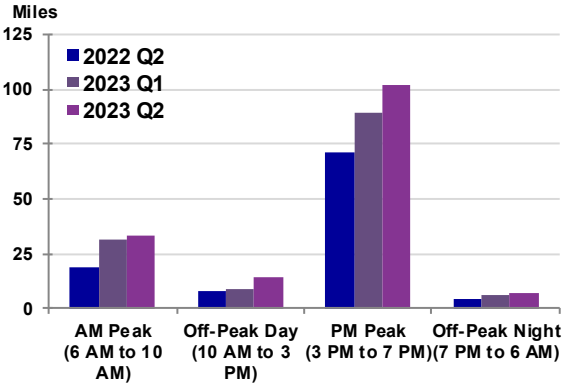
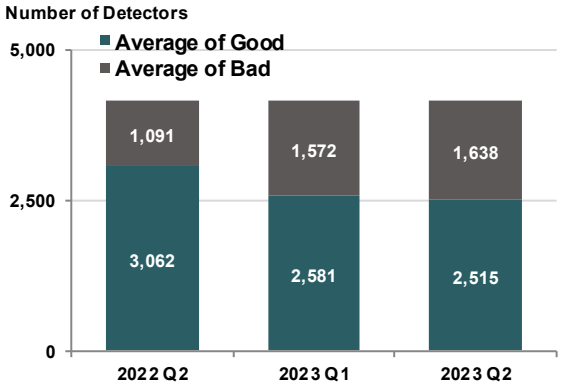
### Top Ten Bottlenecks for the 2023 Second Quarter:

| County | Shift | Fwy | Direction | Name | Abs PM | CA PM | Latitude | Longitude | # Days Active | Avg Extent (Miles) | Total Delay (veh-hrs) | Total Duration (mins) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| San Diego | PM | I805-S | S | 805 SB N-O 15 | 15.23 | 15.38 | 32.74 | -117.12 | 64 | 7.10 | 251,551.90 | 12,235.00 |
| San Diego | PM | SR125-S | S | Grossmont Blvd to 125 SB | 1.83 | 0 | 32.59 | -116.97 | 64 | 4.40 | 207,268.20 | 11,880.00 |
| San Diego | PM | I15-N | N | 15 NB 1.5 Mi N-O Mission Rd | 52.35 | 52.09 | 33.41 | -117.16 | 63 | 4.20 | 142,555.30 | 12,625.00 |
| San Diego | PM | I5-S | S | Clairemont Dr EB to 5 SB | 21.97 | 22.082 | 32.79 | -117.21 | 57 | 5.81 | 109,185.70 | 7,065.00 |
| San Diego | PM | I5-S | S | 5th Ave to 5 SB | 16.00 | 16.11 | 32.72 | -117.16 | 63 | 2.46 | 82,792.50 | 8,620.00 |
| San Diego | AM | I15-S | S | 15 SB 1 Mi S-O Deer Springs Rd | 35.44 | 35.193 | 33.18 | -117.11 | 56 | 6.51 | 77,637.60 | 7,545.00 |
| San Diego | PM | SR125-S | S | Spring St to 125 SB | 17.25 | 14.85 | 32.76 | -117.01 | 59 | 1.93 | 64,148.40 | 10,010.00 |
| San Diego | PM | I805-S | S | Nobel Dr to 805 SB | 25.10 | 25.249 | 32.87 | -117.19 | 64 | 2.46 | 62,962.40 | 8,980.00 |
| San Diego | PM | SR78-E | E | Twin Oaks Vlly Rd to 78 EB | 12.98 | 12.988 | 33.14 | -117.16 | 64 | 3.65 | 61,922.10 | 8,430.00 |
| San Diego | PM | I15-S | S | Balboa Ave WB to 15 SB | 9.37 | 9.195 | 32.82 | -117.12 | 64 | 2.67 | 61,271.10 | 7,865.00 |

## Quarterly Mobility Statistics

| Measure | Graph | Percentage Change | |
|---|---|---|---|
| | | Over one year ago | Over last quarter |
| Vehicle Miles of Travel (VMT) |  | 2.9% | 6.3% |
| Total Vehicle Hours of Delay (VHD) at 35 mph |  | 37.5% | 24.3% |
| Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph |  | 41.2% | 12.6% |
| Total Vehicle Hours of Delay (VHD) at 60 mph |  | 31.5% | 17.4% |
| Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph |  | 32.5% | 7.5% |

| Measure | Graph | Percentage Change | |
|---|---|---|---|
| Average Vehicle Hours of Delay by Day of Week at 60 mph |  | Largest Magnitude Decrease over one year ago<br>– | Largest Magnitude Decrease over last quarter<br>– |
| | | Largest Magnitude Increase over one year ago<br>Wednesday 36.7% | Largest Magnitude Increase over last quarter<br>Wednesday 19.4% |
| Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays |  | Largest Magnitude Weekday Decrease over one year ago<br>2 AM -81.2% | Largest Magnitude Weekday Decrease over last quarter<br>8 AM -16.9% |
| | | Largest Magnitude Weekday Increase over one year ago<br>4 PM 32.7% | Largest Magnitude Weekday Increase over last quarter<br>4 PM 19.3% |
| Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays |  | Largest Magnitude Saturday Decrease over one year ago<br>11 AM -12.3% | Largest Magnitude Saturday Decrease over last quarter<br>8 AM -44.7% |
| | | Largest Magnitude Saturday Increase over one year ago<br>3 PM 29.2% | Largest Magnitude Saturday Increase over last quarter<br>3 PM 92.7% |
| Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/ Holidays |  | Largest Magnitude Sun./Holiday Decrease over one year ago<br>4 AM -92.6% | Largest Magnitude Sun./Holiday Decrease over last quarter<br>8 AM -89.8% |
| | | Largest Magnitude Sun./Holiday Increase over one year ago<br>5 PM 61.1% | Largest Magnitude Sun./Holiday Increase over last quarter<br>1 PM 308.9% |

| Measure | Graph | Percentage Change | |
|---|---|---|---|
| Total Vehicle Hours of Delay (VHD) by County at 35 mph |  | Largest Magnitude Decrease over one year ago<br>– | Largest Magnitude Decrease over last quarter<br>– |
| | | Largest Magnitude Increase over one year ago<br>San Diego 37.5% | Largest Magnitude Increase over last quarter<br>San Diego 24.3% |
| Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph |  | Largest Magnitude Decrease over one year ago<br>– | Largest Magnitude Decrease over last quarter<br>– |
| | | Largest Magnitude Increase over one year ago<br>PM Peak 44% | Largest Magnitude Increase over last quarter<br>PM Peak 13.7% |
| Average Number of Good and Bad Detectors |  | Change in Good over one year ago<br>-18% | Change in Good over last quarter<br>-3% |
| | | Change in Bad over one year ago<br>50% | Change in Bad over last quarter<br>4% |

| Route | County | Vehicle Hours of Delay at 35 mph | | | Difference 2023 Q2-2022 Q2 | | Difference 2023 Q2-2023 Q1 | | Rank | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2022 Q2 | 2023 Q1 | 2023 Q2 | Absolute | Percentage | Absolute | Percentage | 2022 Q2 | 2023 Q1 | 2023 Q2 |
| I5 | San Diego | 715,914 | 551,449 | 877,696 | 161,782 | 22.6% | 326,247 | 59.2% | 1 | 1 | 1 |
| I15 | San Diego | 251,342 | 469,666 | 600,168 | 348,826 | 138.8% | 130,502 | 27.8% | 4 | 2 | 2 |
| I805 | San Diego | 406,706 | 467,808 | 503,976 | 97,270 | 23.9% | 36,168 | 7.7% | 2 | 3 | 3 |
| SR125 | San Diego | 253,504 | 96,412 | 288,991 | 35,487 | 14.0% | 192,580 | 199.7% | 3 | 7 | 4 |
| SR78 | San Diego | 175,603 | 252,194 | 183,364 | 7,761 | 4.4% | -68,830 | -27.3% | 5 | 4 | 5 |
| I8 | San Diego | 74,372 | 153,107 | 145,675 | 71,303 | 95.9% | -7,433 | -4.9% | 7 | 5 | 6 |
| SR52 | San Diego | 65,062 | 141,512 | 110,597 | 45,535 | 70.0% | -30,915 | -21.8% | 8 | 6 | 7 |
| SR163 | San Diego | 80,809 | 67,492 | 81,501 | 692 | 0.9% | 14,009 | 20.8% | 6 | 8 | 8 |
| SR56 | San Diego | 36,978 | 60,943 | 53,573 | 16,595 | 44.9% | -7,371 | -12.1% | 9 | 9 | 9 |
| SR94 | San Diego | 27,321 | 46,138 | 28,958 | 1,636 | 6.0% | -17,181 | -37.2% | 10 | 10 | 10 |
| I905 | San Diego | 10,901 | 9,888 | 14,614 | 3,714 | 34.1% | 4,726 | 47.8% | 11 | 11 | 11 |
| SR67 | San Diego | 616 | 6,506 | 2,723 | 2,106 | 341.7% | -3,783 | -58.1% | 13 | 12 | 12 |
| SR54 | San Diego | 5,315 | 4,286 | 1,757 | -3,558 | -66.9% | -2,529 | -59.0% | 12 | 13 | 13 |
| SR11 | San Diego | 2 | 2 | 5 | 3 | 155.0% | 3 | 200.0% | 15 | 14 | 14 |
| SR76 | San Diego | 243 | 1 | 0 | -243 | -100.0% | -1 | -100.0% | 14 | 15 | 15 |
| **TOTALS** | | **2,104,688** | **2,327,404** | **2,893,596** | **788,908** | **37.5%** | **566,192** | **24.3%** | | | |