

2025 Q2

DEPARTMENT OF TRANSPORTATION

Definitions

- Vehicle Miles of Travel (VMT): Total miles driven by all the vehicles over a freeway segment during a specified time period. When plotted over a spatial segment, this quantity is simply the sum of VMT from the individual detectors. Users can query VMT reports for any freeway (or segment) available in PeMS. At a freeway segment page in PeMS, users can select the VMT reports by using the Performance pull-down menu and selecting Aggregates. There are three types of Aggregates reports: Time Series, Time of Day, and Day of Week.
- Vehicle Hours of Delay (VHD): Amount of extra time spent by all the vehicles beyond the time it takes to traverse a freeway segment at a threshold speed. In other words, it is the amount of additional time that vehicles spend on the roadway due to congestion. PeMS can compute the amount of delay using different threshold speeds (i.e., 35, 40, 45, 50, 55, 60, and 65 miles per hour).
- Lost Lane Miles Hours (equivalent lost productivity): Number of lane-mile-hours that are lost due to the freeway operating under congested conditions. When the freeway is in congestion speed is below 35 mph PeMS find the ratio between the measured flow and the capacity for this location. This drop in capacity is caused by the freeway is operating in congested conditions instead of in free flow)
- Detection Health: Detectors can malfunction for many reasons. For some
 detectors, this is an intermittent problem. For other detectors, the problem
 is recurrent. PeMS devotes a large amount of its computing resources to
 identifying bad detectors and calculating health diagnostics to help users
 evaluate data quality and to help those responsible for detector
 maintenance.
- Bottleneck: Location where the traffic demand exceeds the available capacity of the roadway facility. Characteristics include reduction in speeds, congestion, queuing, and delay. PeMS can identify a bottleneck at a particular detector where there is a persistent drop in speed from the detector immediately upstream.

District 12 Mobility Performance Report

2025 Q2

EXECUTIVE SUMMARY

Overview

The Quarterly Mobility Performance Report (MPR) evaluates key traffic performance metrics by comparing current conditions with both the previous quarter and the same period from the prior year. This report provides information on the following performance measures:

- Vehicle Miles Traveled (VMT)
- Vehicle Hours of Delay (VHD)
- Lost Lane Mile Hours
- Detection Health

The information in this report is based on daily data collected 24 hours a day by automated vehicle detector stations across the State Highway System.

Vehicular delay is assessed using two speed thresholds:

- Below 60 mph: Indicates both light and heavy congestion
- Below 35 mph: Indicates severe congestion

Through engineering judgment, Caltrans uses these thresholds and performance measures to identify bottleneck locations and assess congestion severity.

FINDINGS

Summary

- In this second quarter (April to June of 2025), Vehicle Miles Travel (VMT) across all district 12 freeways were 3.43 billion miles, an increase of 5.4 percent from previous quarter.
- There was 5.4 million Vehicle Hours of Delay (VHD) at the 60-mph speed threshold, an increase of 6.2 percent over previous quarter and an/a increase/decrease of 8.9 percent from a year ago.
- In this quarter about 94 percent of the total delay in District 12 at the 35-mph speed threshold were generated from five freeways, 15 (27%), 1405 (22%), SR91 (20%), SR55 (15%) and SR57 (10%).
- These delays were equivalent to 61.1 Lost Lane Miles Hours (LLM)* from the freeway network during the PM Peak Period, compared to 54.4 LLM from previous quarter.
- ➤ The average weekday daily delay in this quarter was approximately 23 thousand VHD at 35-mph speed threshold, and 71 thousand VHD at 60-mph speed thresholds (5.2 percent increase and 0.5 Percent increase respectively over the previous quarter.)
- Tuesday Thursday are the most congested days of the week in this quarter than Monday or Friday. Morning peak hour was at 8 AM. Afternoon peak hour was at 5 PM. The peak periods extended from 6:30 AM to 9 AM and from 2 PM to 6:30 PM.
- Weekend's peak hour (Saturday and Sunday) was at 4 PM, and peak period extended between 2 PM and 5:30 PM.
- ➤ By the end of the second quarter, loop detectors in good service condition account for 66 percent of the total loops, while 34 percent of total loop detectors are nonoperational.

District 12 Mobility Performance Report 5/1/2025

Bottleneck Locations

Table 1: Top 20 Bottlenecks for the 2024 Calendar Year:

| Location | County | Route | Name | Peak Period (AM/PM) | Abs Postmile (Miles) | CA Postmile (Miles) | Days Observed (Days) | Avg Extent (Miles) | Total Delay (vehicle- hours) | Total Duration (Minutes) |
|----------|--------|--------|-------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|--------------------------|------------------------------------|--------------------------------|
| 1 | ORA | SR55-N | TAFT | PM | 15.78 | 15.8 | 244 | 3.12 | 188,087.8 | 53,640 |
| 2 | ORA | I5-S | MAIN 1 | AM | 105.19 | 33 | 246 | 1.08 | 129,656.8 | 40,755 |
| 3 | ORA | 1405-N | BROOKH UR2 | PM | 13.74 | 13.97 | 247 | 1.61 | 126,720.5 | 47,660 |
| 4 | ORA | 1405-S | HARBOR 1 | AM | 10.97 | 11.2 | 191 | 1.94 | 101,884.7 | 17,970 |
| 5 | ORA | SR57-N | TONNER | PM | 11.27 | 22 | 207 | 1.26 | 92,356.8 | 35,220 |
| 6 | ORA | 15-N | CULVER 1 | PM | 98.82 | R26.56 | 201 | 2.21 | 88,159.0 | 43,080 |
| 7 | ORA | 15-S | RED ROBIN | PM | 91.53 | 19.33 | 226 | 1.02 | 80,333.9 | 34,310 |
| 8 | ORA | SR55-N | DYER 2 | PM | 8.12 | R8.12 | 241 | 1.90 | 79,861.8 | 19,150 |
| 9 | ORA | SR55-N | N-O E WARNER MVDS | PM | 8.56 | R8.563 | 237 | 2.06 | 76,550.0 | 16,985 |
| 10 | ORA | 1405-S | WARNER | AM | 14.49 | 14.72 | 228 | 1.06 | 75,956.3 | 30,220 |
| 11 | ORA | SR55-N | NEWPO RT AVE OR MVDS | PM | 9.76 | R9.755 | 232 | 0.88 | 74,011.9 | 34,325 |
| 12 | ORA | 1405-S | YALE | PM | 4.78 | 5.01 | 239 | 1.48 | 72,582.4 | 32,345 |
| 13 | ORA | 15-S | LA PALMA | AM | 113.17 | 40.98 | 232 | 1.07 | 71,964.5 | 16,425 |
| 14 | ORA | 1405-N | OLD RANCH PKWY | PM | 22.43 | 22.659 | 234 | 0.86 | 66,782.1 | 27,845 |
| 15 | ORA | I5-S | CRESCEN T | AM | 112.23 | 40.04 | 196 | 1.67 | 66,398.8 | 17,080 |
| 16 | ORA | 15-N | 1ST | PM | 103.05 | 30.8 | 244 | 0.68 | 64,940.9 | 35,665 |
| 17 | ORA | SR55-S | FOURTH 1 | AM | 10.82 | 10.84 | 240 | 2.04 | 64,370.3 | 31,955 |
| 18 | ORA | 15-N | ALICIA 1 | AM | 89.69 | 17.43 | 113 | 2.16 | 60,722.2 | 15,395 |
| 19 | ORA | 15-N | RED HILL | PM | 101.49 | 29.24 | 247 | 1.72 | 58,763.5 | 57,170 |
| 20 | ORA | SR91-E | LAKEVIE W1 | PM | 28.45 | R10.08 | 224 | 2.54 | 58,725.1 | 49,435 |

Table 2: Top 10 Bottlenecks for the 2025 2nd Quarter:

| Location | County | Route | Name | Peak Period (AM/PM) | Abs Postmile (Miles) | CA Postmile (Miles) | Days Observed (Days) | Avg Extent (Miles) | Total Delay (vehicle- hours) | Total Duration (Minutes) |
|----------|--------|--------|------------|---------------------------|----------------------------|---------------------------|----------------------------|--------------------------|------------------------------------|--------------------------------|
| 1 | ORA | SR55-N | TAFT | PM | 15.78 | 15.8 | 63 | 3.63 | 45,102.1 | 13,010 |
| 2 | ORA | 1405-N | BROOKHUR2 | PM | 13.74 | 13.97 | 63 | 1.81 | 41,269.8 | 13,665 |
| 3 | ORA | 15-S | LA PALMA | AM | 113.17 | 40.98 | 62 | 1.35 | 37,736.9 | 8,535 |
| 4 | ORA | 15-S | MAIN 1 | AM | 105.19 | 33 | 63 | 1.03 | 36,593.7 | 11,160 |
| 5 | ORA | 15-N | JAMBOREE 1 | PM | 99.80 | 27.55 | 55 | 2.40 | 35,508.5 | 14,300 |
| 6 | ORA | 1405-S | WARNER | AM | 14.49 | 14.72 | 55 | 1.65 | 29,223.6 | 7,890 |
| 7 | ORA | 15-N | YALE | PM | 98.06 | R25.8 | 63 | 0.83 | 26,612.9 | 10,710 |
| 8 | ORA | 1405-S | HARBOR 1 | AM | 10.97 | 11.2 | 49 | 1.98 | 25,811.9 | 4,725 |
| 9 | ORA | SR55-N | MACARTHU1 | PM | 6.94 | R6.94 | 63 | 0.60 | 21,960.4 | 14,030 |
| 10 | ORA | SR91-E | MIDPOINT | PM | 31.14 | R12.762 | 53 | 3.23 | 21,469.9 | 5,295 |

Bottleneck Mitigation Projects:

Location 1:

Project EA 12-0R32U, Feb 8, 2028

- Multi-Asset project on SR55 N between Routes 1 and 91.
- Scope includes pavement rehabilitation, drainage, bridge rail and landscaping, upgrading lighting and TMS elements, add bike and pedestrian improvements, improve worker safety, and install safety lighting.

Locations 2, 6 and 8:

Project EA 0H1004, Feb 2027

- OCTA I-405 Express Lanes Project.
- In Close Out Process, target CCA date Feb 2027.
- Add one GP Lane in each direction on the I-405 from Euclid St to the I-605 I/C.
- Add a tolled express lane in each direction to what was the HOV Lane on the I-405 from the SR-73 to the I-605. The Express Lanes were opened in December of 2023. The new tolled lanes are being managed jointly as the Express Lane Facility with two lanes in each direction.
- Improve ramps, ramp intersections, and add auxiliary lanes at various locations
- Improve most interchanges and reconstruct 18 bridges.
- Add capacity, reduce congestion, improve trip reliability, enhance interchange operations, optimize operations and maximize throughput throughout the subject corridor.

Locations 3 and 4:

EA 0Q9500

- The I-5 Managed Lanes Project
- In PA&ED Phase.

• Improve Managed lanes improvements in each direction between Red Hill Ave and the OC/LA County Line. The project proposes to improve mobility, trip reliability, and maximize person throughput by facilitating efficient movement of bus and rideshare users, and apply technology to help manage the demand with the I-5.

Location 5:

EA 12-0K61U/1224000096, Nov 2029

- Combined project 12-0K671 (OCTA project) and 12-0S051 (Multi-Asset project)
- Projects to be combined in Construction (next phase)
- Construction begins 12/2025, Contract Acceptance 11/2029
- Between I-5/I-405 Separation and Yale Avenue OC (PM 21.3 R25.8)
- 12-0K671 is an OCTA project to add one general purpose lane from I-5/I-405
 Separation to Yale Ave OC
- 12-0S051 is a multi-assets SHOPP project from I-5/I-405 Separation to Yale Ave OC

Location 7:

EA 12-0K62U/1224000090, Mar 2029

- Combined project 12-0K672 (OCTA project) and 12-0S052 (Multi-Asset project)
- Projects to be combined in Construction (next phase)
- Construction begins 12/2025, Contract Acceptance 03/2029
- Between Yale Avenue OC and I-5/SR 55 Separation (PM R25.8 30.3)
- 12-0K672 is an OCTA project to add one general purpose lane from Yale Ave OC to I-5/SR 55 Separation
- 12-0S052 is a multi-asset SHOPP project from Yale Ave OC to I-5/SR 55 Separation

Locations 5 & 7:

EA 12-0T950/1223000008, Dec 2031

- In PA&ED
- Construction begins 12/28 and Contract Acceptance is 12/31
- Between I-5/I-405 Interchange and I-5/SR 55 Interchange (PM 21.1 R29.1)
- Convert existing HOV lane from 2+ to 3+ during peak hour to address HOV Degradation

Location 9:

Project EA 12-0J34U, 02/08/2028

OCTA widening project on SR55 between I-405 and I-5.

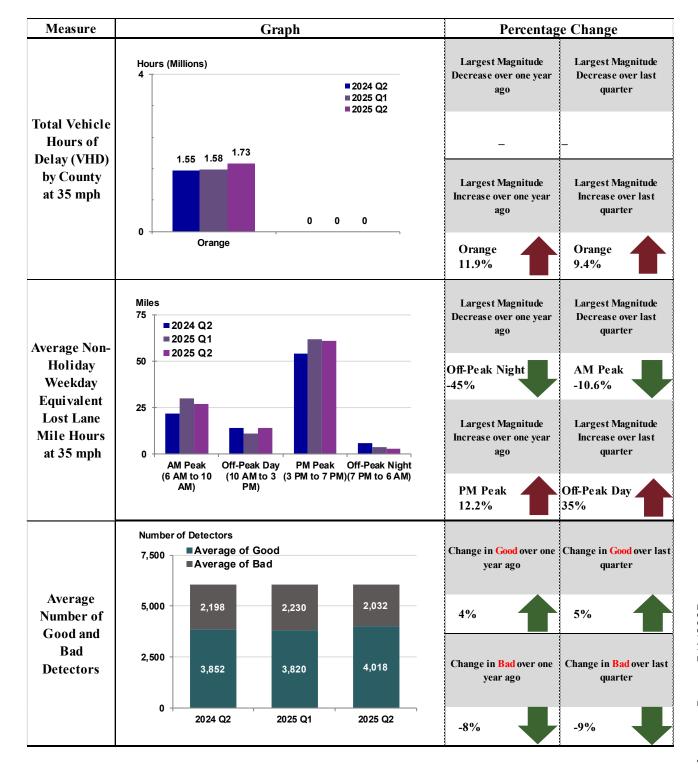
• Scope includes constructing a northbound auxiliary lane on Route 55 between Dyer Rd and Edinger Ave, as well as, add a HOV lane and a general-purpose lane in each direction.

Quarterly Mobility Statistics

The following figures show a summary of the performance across all state routes in the districts.

| Measure | Graph | Percentage Change | | | |
|-------------------------------------|--|-------------------|-------------------|--|--|
| V.1. 1 M. | Miles (Billions) 6 2024 Q2 2025 Q1 2025 Q2 | Over one year ago | Over last quarter | | |
| Vehicle Miles of Travel (VMT) | 2024 Q2 2025 Q1 2025 Q2 3.34 3.25 3.43 | 2.7% | 5.4% | | |
| | 0 | 1 | | | |
| Total Vehicle | Hours (Millions) 2025 Q1 2025 Q2 2 2024 Q2 1.6 1.7 | Over one year ago | Over last quarter | | |
| Hours of Delay (VHD) | 1 | 11.9% | 9.4% | | |
| at 35 mph | 1 0 0 0 0 | 1 | | | |
| Average Non- Holiday | Hours (Thousands) 25 | Over one year ago | Over last quarter | | |
| Weekday Vehicle Hours of | 15 | 14.5% | 5.2% | | |
| Delay (VHD) at 35 mph | 5 0 | 1 | 1 | | |
| Total Vehicle | Hours (Millions) | Over one year ago | Over last quarter | | |
| Hours of Delay (VHD) | 2024 Q2 2025 Q1 2025 Q2 5 5.1 5.4 | 8.9% | 6.2% | | |
| at 60 mph | 0 | 1 | | | |
| Average Non- Holiday | Hours (Thousands) | Over one year ago | Over last quarter | | |
| Weekday Vehicle Hours of | 2024 Q2 2025 Q1 2025 Q2 65 71 71 | 9.9% | 0.5% | | |
| Delay (VHD) at 60 mph | 0 | 1 | 1 | | |

Measure



| Congestion by Route | | | | | | | | | | | | |
|---------------------|--------|-------------------------------------|-----------|-----------|----------|---------------------|----------|---------------------|---------|---------|---------|--|
| | | Vehicle Hours of Delay at 35 mph | | | | erence 2-2024 Q2 | l | erence 2-2025 Q1 | Rank | | | |
| Route | County | 2024 Q2 | 2025 Q1 | 2025 Q2 | Absolute | Percentage | Absolute | Percentage | 2024 Q2 | 2025 Q1 | 2025 Q2 | |
| 15 | Orange | 393,874 | 368,277 | 463,435 | 69,561 | 17.7% | 95,158 | 25.8% | 1 | 2 | 1 | |
| I405 | Orange | 316,926 | 393,993 | 384,691 | 67,765 | 21.4% | -9,302 | -2.4% | 2 | 1 | 2 | |
| SR91 | Orange | 213,216 | 278,663 | 341,889 | 128,673 | 60.3% | 63,226 | 22.7% | 5 | 4 | 3 | |
| SR55 | Orange | 257,785 | 281,089 | 266,952 | 9,167 | 3.6% | -14,137 | -5.0% | 3 | 3 | 4 | |
| SR57 | Orange | 235,279 | 153,339 | 176,569 | -58,710 | -25.0% | 23,230 | 15.1% | 4 | 5 | 5 | |
| SR22 | Orange | 84,025 | 49,711 | 27,181 | -56,844 | -67.7% | -22,531 | -45.3% | 6 | 6 | 6 | |
| SR73 | Orange | 13,952 | 28,700 | 27,016 | 13,064 | 93.6% | -1,684 | -5.9% | 8 | 7 | 7 | |
| I605 | Orange | 20,236 | 17,001 | 21,832 | 1,596 | 7.9% | 4,831 | 28.4% | 7 | 8 | 8 | |
| SR241 | Orange | 9,474 | 6,186 | 15,863 | 6,389 | 67.4% | 9,677 | 156.4% | 9 | 9 | 9 | |
| SR133 | Orange | 486 | 5,232 | 4,830 | 4,345 | 894.9% | -402 | -7.7% | 11 | 10 | 10 | |
| SR261 | Orange | 800 | 61 | 44 | -756 | -94.6% | -17 | -28.6% | 10 | 11 | 11 | |
| SR74 | Orange | 5 | 5 | 5 | 0 | 0.0% | 0 | 0.0% | 12 | 12 | 12 | |
| SR142 | Orange | 3 | 3 | 3 | 0 | 0.0% | 0 | 0.0% | 13 | 13 | 13 | |
| SR1 | Orange | 0 | 0 | 0 | 0 | | 0 | | | | | |
| TO | TALS | 1.546.059 | 1,582,260 | 1.730.308 | 184,249 | 11.9% | 148,048 | -0.03% | | | | |