

District 07 Mobility Performance Report

2019 Third Quarter

DEPARTMENT OF TRANSPORTATION
OFFICE OF SYSTEM PERFORMANCE
DIVISION OF OPERATIONS

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EXECUTIVE SUMMARY

Overview

Caltrans District 7, consisting of Los Angeles and Ventura counties, is part of the second-largest urban region in the United States. Los Angeles County is the most populous county in the United States with more than 10 million residents as of 2018. Ventura County has a population of 0.85 million. These two counties have a large amount of sparsely populated national forests and national recreation areas.

The Quarterly Mobility Performance Report (MPR) compares information with over a year ago and over previous quarter in the following performance measures:

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

This information is based on daily data collected, 24 hours a day, by automated vehicle detector stations deployed along the State Highway System. The Mobility Performance Report 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 35mph speed threshold represents severe congestion while delay at 60 mph speed threshold represents both light and heavy congestions. These two speed thresholds are set by Caltrans based on engineering judgement.

FINDINGS

- In this third quarter (July – September of 2019), there were 16.8 million VHD at the 35mph speed threshold - an increase of 2.4 percent over previous quarter. 2.4 percent of 16.8 million VHD were generated in Ventura County and 97.6 percent were generated in Los Angeles County. About 45 percent of VHD in Los Angeles County were generated from I-405, US-101 and I-10 freeways. Similarly, a total of 36.0 million VHD occurred at the 60mph speed threshold - an increase of 2.5 percent over the previous quarter.
- This delay was equivalent to 428 Lost Lane Miles (LLM) from the freeway network in the PM Peak Period (about 10% of the total monitored Lane Miles.)
- Total Vehicle Miles Traveled (VMT) in District 7 in this quarter was 9.6 billion miles - an increase of 113 million miles (1.2 percent) over the previous quarter.
- The average weekday daily delay in this quarter were approximately 229,000 VHD at 35 mph and 479,000 VHD at 60 mph speed thresholds.
- Thursdays were the most congested days of the week followed by Fridays. Morning peak hour was at 8:00 AM. Afternoon peak hour was at 5:00 PM. The peak periods extended from 6:00 AM to 9:30 AM and from 2:30 PM to 7:00 PM.
- The weekend's peak hour (Saturday and Sunday) was at 3:00 PM and peak period extended between 12:00 PM and 6:00 PM.
- Good Loop Detectors in this third quarter were 52.5 percent of the total loops- a decrease of 11.0 percent over the previous quarter.

Top Ten Bottlenecks for the 2019 Third Quarter:

Rank	Fwy	Location	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (Hrs)
1	I405-S	Howard Hughes Pkwy	PM	48.672	24.9	63	6.7	349,211	3.8
2	I405-N	Nordhoff	PM	68.642	44.87	59	7.5	278,352	4.2
3	I405-S	Lucerne St	PM	33.802	10.03	63	7.5	233,367	3.5
4	I405-N	Waterford	PM	55.882	32.11	58	4.3	227,140	4.1
5	I405-N	Palms Blvd	AM	52.312	28.54	60	7.1	216,655	2.4
6	I5-S	Lakewood	PM	124.78	8.21	62	6.6	197,224	3.0
7	I405-N	Inglewood	AM	42.122	18.35	61	5.7	184,432	3.1
8	I110-S	Vernon	PM	18.82	18.89	62	4.5	172,392	4.0
9	I105-E	Long Beach	PM	11.9	R11.9	63	4.7	166,568	4.7
10	US101-N	Mulholland Dr.	PM	9.948	8.6	62	4.1	155,224	3.6

Project Status:

The Following Projects are currently being constructed or are scheduled for construction in District 7. These projects are expected to relieve traffic congestion in Los Angeles and Ventura counties.

LA 5: WIDEN AND REALIGN FREEWAY (SEGMENT 2); EA 2159U

Widen Interstate 5 by adding one High Occupancy Vehicle (HOV) lane and one or two mixed-flow lanes in each direction, reconstruction of Valley View Avenue Interchange, and adjacent frontage roads in Los Angeles County, in La Mirada and Santa Fe Springs, from Artesia Blvd to North Fork Coyote Creek.

LA 5: WIDEN FREEWAY, CONSTRUCT HOV LANES; EA 21593 (Segment 3)

Widen Interstate 5 by adding one HOV lane and one or two mixed-flow lanes in each direction and upgrade the inside and outside shoulders to standard width in Los Angeles County, in Santa Fe Springs and Norwalk, from 0.1 mile north of Carmenita Road Overcrossing to 0.1 mile north of Silverbow Ave Pedestrian Overcrossing.

LA 5: WIDEN AND REALIGN FREEWAY, CONSTRUCT HOV LANES (SEGMENT 4); EA 21594

Widen Interstate 5 by adding one HOV lane and one or two mixed-flow lanes in each direction and upgrade the inside and outside shoulders to standard width; remove and replace San Antonio Avenue Undercrossing, Imperial Highway Undercrossing, and Pioneer Boulevard Undercrossing; construct new southbound Imperial Highway off-ramp (over Pioneer Boulevard) structure in Los Angeles County from 0.4 mile south of San Antonio Drive Undercrossing to 0.7 mile north of Pioneer Boulevard Undercrossing.

LA 5: WIDEN AND REALIGN FREEWAY, CONSTRUCT HOV LANES (SEGMENT 5); EA 21595

Widen Interstate 5 by adding one HOV lane, one or two mixed-flow lanes in each direction and upgrade the inside and outside shoulders to standard width; remove and replace Florence Avenue Overcrossing, northbound on-ramp bridge from Florence Avenue, and Orr and Day Overhead railroad bridge in Los Angeles County from north of Orr and Day Overhead to I-605/I-5 Interchange.

LA 5: WIDEN FREEWAY & CONSTRUCT HOV LANES (SEGMENT 4); EA 12184

Add one HOV lane in each direction along I-5 in Los Angeles, Glendale, and Burbank from I-5/SR-134 separation to Magnolia Boulevard Overcrossing Bridge in Los Angeles County.

LA 5: WIDEN & REALIGN FREEWAY FOR HOV LANES; REALIGN METROLINK RAILROAD TRACKS; EA 1218W

Add one HOV lane in each direction in Burbank from West Magnolia Boulevard Overcrossing to 0.3 mile north of Buena Vista Street/Winona Avenue Undercrossing in Los Angeles County.

LA 10: WIDEN FREEWAY, CONSTRUCT HOV LANES; EA 1193U (Segment 3)

Construct one HOV lane in each direction along I-10 in LA County from Citrus Avenue in West Covina to SR-57 in Pomona.

LA 10: WIDEN FREEWAY, CONSTRUCT HOV LANES; EA 1170U (Segment 2)

Construct one HOV lane in each direction along I-10 from Puente Avenue in city of Baldwin Park to Citrus Avenue in West Covina to reduce traffic congestion.

LA 405: IN LOS ANGELES COUNTY, FROM I-10 TO US-101 WIDEN FOR HOV LANE; EA 12030

Widen the existing northbound I-405. This project will provide continuous carpool lanes on I-405 by closing the last gap.

LA 101: IN LOS ANGELES COUNTY, ON SOUTHBOUND US-101, BETWEEN LANKERSHIM BLVD OFF-RAMP AND BARHAM BLVD OFF-RAMP; EA 29920

Modify interchange and improve both freeway systems access and safety on southbound US-101 between Lankershim Blvd. off-ramp and Barham Blvd. off-ramp in Los Angeles.

TRANSPORTATION MANAGEMENT SYSTEM PROJECTS TO UPGRADE THE EXISTING COMMUNICATION SYSTEMS.

- LA 002: Repair/Restoration of the Intelligent Transportation System (ITS) in Los Angeles County and Ventura County. EA 34060.
- LA 10: Repair Ramp Metering and Vehicle Detection System on various routes. EA 34050.
- LA 405: Upgrade existing Traffic Management Communication System from Ventura Blvd. Undercrossing to I-5/I-405 Separation. EA 25710.

ROADSIDE SAFETY IMPROVEMENT PROJECTS

- LA 210: In Los Angeles County, in Pasadena and Arcadia from Fair Oaks to Huntington Dr. EA 30360
- LA 405: In Los Angeles County, Inglewood and Culver City, from I-105 to Port Road Undercrossing. EA 29630.
- LA 060: In the cities of Los Angeles, Monterey Park, Montebello, from Mednik Ave to Markland Drive. EA 29580.
- LA 005: In Los Angeles County at various locations. EA 29510.

This list of ongoing or planned projects is only a partial list, please contact CALTRANS District 7 for more details.

Quarterly Mobility Statistics

Measure	Graph	Percentage Change									
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2018</td><td>9.68</td></tr> <tr><td>2019</td><td>9.45</td></tr> <tr><td>2019</td><td>9.57</td></tr> </table>	Year	Q3	2018	9.68	2019	9.45	2019	9.57	Over one year ago	Over last quarter
		Year	Q3								
		2018	9.68								
2019	9.45										
2019	9.57										
-1.2%	1.2%										
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2018</td><td>16.5</td></tr> <tr><td>2019</td><td>16.4</td></tr> <tr><td>2019</td><td>16.8</td></tr> </table>	Year	Q3	2018	16.5	2019	16.4	2019	16.8	Over one year ago	Over last quarter
		Year	Q3								
		2018	16.5								
2019	16.4										
2019	16.8										
1.6%	2.4%										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2018</td><td>228</td></tr> <tr><td>2019</td><td>225</td></tr> <tr><td>2019</td><td>229</td></tr> </table>	Year	Q3	2018	228	2019	225	2019	229	Over one year ago	Over last quarter
		Year	Q3								
		2018	228								
2019	225										
2019	229										
0.2%	1.5%										
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2018</td><td>35.2</td></tr> <tr><td>2019</td><td>35.2</td></tr> <tr><td>2019</td><td>36</td></tr> </table>	Year	Q3	2018	35.2	2019	35.2	2019	36	Over one year ago	Over last quarter
		Year	Q3								
		2018	35.2								
2019	35.2										
2019	36										
2.4%	2.5%										
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2018</td><td>475</td></tr> <tr><td>2019</td><td>471</td></tr> <tr><td>2019</td><td>479</td></tr> </table>	Year	Q3	2018	475	2019	471	2019	479	Over one year ago	Over last quarter
		Year	Q3								
		2018	475								
2019	471										
2019	479										
0.9%	1.7%										

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		Friday -2.6%	Friday -2.5%
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Thursday 6.8%	Thursday 4.9%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		Largest Magnitude Weekday Decrease over one year ago	Largest Magnitude Weekday Decrease over last quarter
		8 AM -5%	7 AM -6.6%
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		4 PM 5.1%	7 PM 25%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago	Largest Magnitude Saturday Decrease over last quarter
		6 PM -20.3%	4 PM -11.1%
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		2 PM 4.2%	8 PM 56.2%
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago	Largest Magnitude Sun./Holiday Decrease over last quarter
		10 PM -58.4%	1 PM -7.5%
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		4 PM 30.8%	6 PM 86.9%

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		Ventura -16.2% ↓	-
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		Off-Peak Night -8.5% ↓	-
Average Number of Good and Bad Detectors		Change in Good over one year ago	Change in Good over last quarter
		-13% ↓	-11% ↓
		Change in Bad over one year ago	Change in Bad over last quarter
		19% ↑	15% ↑

Congestion by Route

Route	County	Vehicle Hours of Delay at 35 mph			Difference 2019 Q3-2018 Q3		Difference 2019 Q3-2019 Q2		Rank		
		2018 Q3	2019 Q2	2019 Q3	Absolute	Percentage	Absolute	Percentage	2018 Q3	2019 Q2	2019 Q3
I405	Los Angeles	3,460,342	3,166,039	3,323,814	-136,528	-3.9%	157,775	5.0%	1	1	1
US101	Los Angeles	2,475,506	2,630,223	2,637,359	161,852	6.5%	7,136	0.3%	2	2	2
I10	Los Angeles	1,629,066	1,642,985	1,661,886	32,820	2.0%	18,901	1.2%	3	3	3
I5	Los Angeles	1,537,846	1,520,618	1,538,807	960	0.1%	18,188	1.2%	4	4	4
I210	Los Angeles	951,264	1,371,041	1,301,665	350,401	36.8%	-69,375	-5.1%	7	5	5
I605	Los Angeles	987,974	953,847	928,220	-59,754	-6.0%	-25,627	-2.7%	6	7	6
I110	Los Angeles	1,135,424	981,127	904,931	-230,493	-20.3%	-76,196	-7.8%	5	6	7
SR60	Los Angeles	676,062	791,889	834,948	158,886	23.5%	43,059	5.4%	10	8	8
SR91	Los Angeles	701,360	625,572	706,241	4,881	0.7%	80,669	12.9%	9	10	9
I105	Los Angeles	714,231	693,138	704,795	-9,435	-1.3%	11,658	1.7%	8	9	10
I710	Los Angeles	477,045	575,745	563,896	86,851	18.2%	-11,849	-2.1%	11	11	11
SR134	Los Angeles	348,762	331,218	415,776	67,014	19.2%	84,558	25.5%	13	12	12
SR57	Los Angeles	346,293	315,014	334,524	-11,769	-3.4%	19,510	6.2%	14	13	13
US101	Ventura	376,706	271,453	332,877	-43,829	-11.6%	61,425	22.6%	12	14	14
SR14	Los Angeles	172,308	131,978	212,882	40,574	23.5%	80,904	61.3%	16	15	15
SR2	Los Angeles	74,302	90,475	100,386	26,084	35.1%	9,911	11.0%	18	18	16
SR118	Los Angeles	114,993	93,970	91,084	-23,909	-20.8%	-2,886	-3.1%	17	17	17
SR71	Los Angeles	14,136	105,171	88,575	74,439	526.6%	-16,597	-15.8%	21	16	18
SR23	Ventura	60,431	63,085	38,600	-21,831	-36.1%	-24,485	-38.8%	19	19	19
SR118	Ventura	46,737	29,393	33,933	-12,805	-27.4%	4,540	15.4%	20	20	20
SR47	Los Angeles	8,656	4,279	14,763	6,107	70.5%	10,484	245.0%	22	21	21
SR90	Los Angeles	1,875	545	1,467	-408	-21.7%	922	169.2%	23	22	23
TOTALS		16,311,317	16,388,804	16,771,428	460,111	2.8%	382,625	2.3%			

SR-170 ALL Loops are down from Mid December 2018