District 07 Mobility Performance Report

2021 First Quarter

DEPARTMENT OF TRANSPORTATION OFFICE OF SYSTEM PERFORMANCE DIVISION OF OPERATIONS April 18, 2021 : Ashraf Armanious

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EXECUTIVE SUMMARY

Overview

Caltrans District 7, consisting of Los Angeles and Ventura counties, is part of the secondlargest urban region in the United States. Los Angeles County is the most populous county in the United States with more than 10.2 million residents as of 2020. Ventura County has a population of 0.84 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 35 mph 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 First quarter (January March of 2021), the cases of the COVID-19 virus in California plummeted and began to average at a lower rate after the vaccine was distributed to tens of millions of people. The normal way of life was almost restored, and congestion on the freeway started to show on AM and PM peak hours.
- Having said that, the Vehicle Miles Traveled (VMT) across all district 7 freeways at the end of March have restored to 95% of its February 2020 pre-pandemic values.
 In summary, total VMT in this first quarter was 8.23 billion miles a 1.6 percent decrease over the previous quarter, and 0.4 percent decrease from a year ago.
- Delays started to increase gradually in this quarter. There were 6.7 million Vehicle Hours of Delay (VHD) at the 35-mph speed threshold – an increase of 4.6 percent over previous quarter and still a decrease of 49.4 percent from a year ago.

Two percent of the 6.7 million VHD were generated in Ventura County and 98 percent were generated in Los Angeles County. About 55 percent of VHD in Los Angeles County were generated from I-405, I-10, I-5 and US-101 freeways.

Similarly, a total of 18.5 million VHD occurred at the 60-mph speed threshold, an increase of 6.0 percent over the previous quarter.

- These delays were equivalent to 252 Lost Lane Miles Hours (LLM) from the freeway network in the PM Peak Period, compared to the 247 LLM from previous quarter.
- The average weekday daily delay in this quarter was approximately 96,000 VHD at 35-mph speed threshold, and 261,000 VHD at 60-mph speed thresholds (5.2 percent and 6.4 Percent increase respectively over the previous quarter.)
- Fridays were the most congested days of the week, followed by Thursdays. Morning peak hour was at 8:00 AM. Afternoon peak hour was at 4:00 PM. The peak periods extended from 7:00 AM to 8:00 AM and from 3:00 PM to 5:00 PM.

- The weekend's peak hour (Saturday and Sunday) was at 3:00 PM, and peak period extended between 1:00 PM and 4:00 PM.
- Good loop detectors in this first quarter were 51.1 percent of the total loops- an increase of 6.0 percent over the previous quarter.

Rank	County	Location	Shift	Fwy	Abs PM	CAPM	Latitude	Longitude	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (hrs)
1	Los Angeles	Nordhoff St.	PM	1405-N	68.64	44.87	34.23737	-118.47293	58	6.0	195,546	208.4
2	Los Angeles	Howard Hughes Pkwy	PM	1405-S	48.67	24.9	33.97654	-118.38727	61	5.4	192,133	183.8
3	Los Angeles	Sycamore Ave	PM	I10-E	8.15	R10.3	34.03404	-118.35266	61	4.6	159,280	244.3
4	Los Angeles	NB 605 To EB 210 Conn	PM	I210-E	36.89	R36.6	34.13340	-117.95441	49	7.2	145,259	141.3
5	Los Angeles	Palms Blvd.	AM	1405-N	52.31	28.54	34.01921	-118.42385	60	4.2	101,617	178.1
6	Los Angeles	Pasadena Ave.	PM	15-N	136.63	20	34.07698	-118.21927	46	3.9	99,112	153.4
7	Los Angeles	Florence Ave.	PM	1605-S	11.22	R9.164	33.93521	-118.09989	55	4.0	96,677	214.2
8	Los Angeles	Los Angeles St.	PM	I10-E	13.63	15.78	34.03115	-118.26001	61	2.7	94,270	243.3
9	Los Angeles	Gaspar Ave.	PM	15-S	128.75	12.18	34.00246	-118.15116	59	3.1	89,914	156.2
10	Los Angeles	N Of 110	РМ	1405-S	36.95	13.18	33.85834	-118.28787	41	5.7	89,499	99.0

Top Ten Bottlenecks for the 2021 First Quarter:

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 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 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.

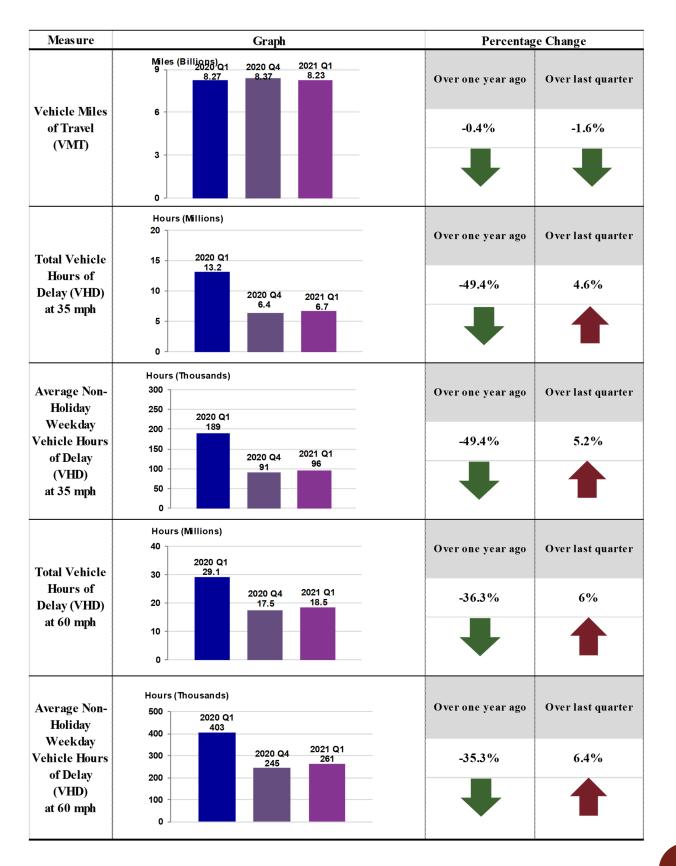
- LA 002: Repair/Restoration of the Intelligent Transportation System (ITS) in Los Angeles County and Ventura County. EA 34060.
- LA 10: Repair Ramp Metering and Vehicle Detection System on various routes. EA 34050.
- LA 405: Upgrade existing Traffic Management Communication System from Ventura Blvd.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

ROADSIDE SAFETY IMPROVEMENT PROJECTS

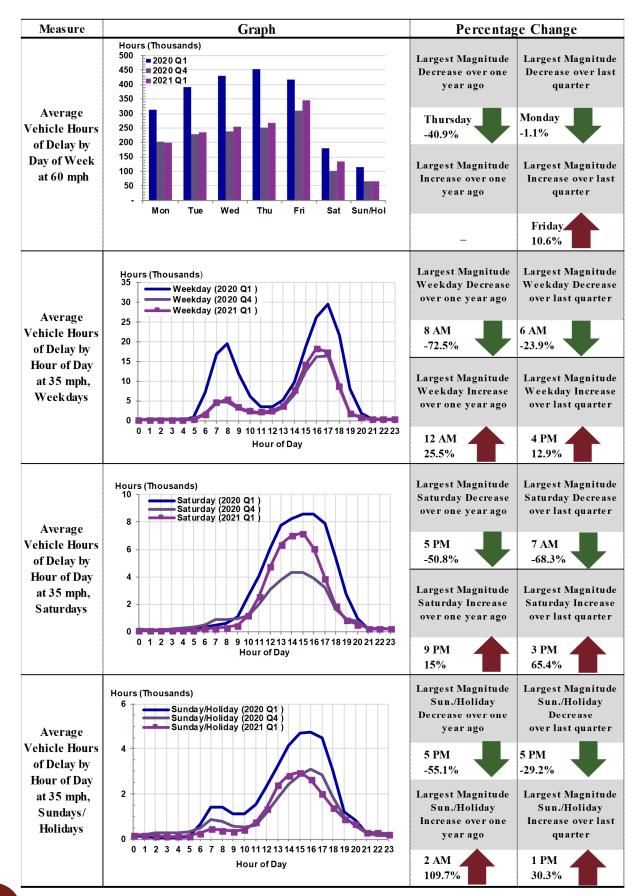
- LA 210: In Los Angeles County, in Pasadena and Arcadia from Fair Oaks to Huntington Dr. EA 30360
- LA 405: In Los Angeles County, Inglewood and Culver City, from I-105 to Port Road Undercrossing. EA 29630.
- LA 060: In the cities of Los Angeles, Monterey Park, Montebello, from Mednik Ave to Markland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



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				Co	ngestion by	Route					
Route	County	Vehicle Hours of Delay at 35 mph				rence -2020 Q1		rence 1-2020 Q4	Rank		
		2020 Q1	2020 Q4	2021 Q1	Absolute	Percentage	Absolute	Percentage	2020 Q1	2020 Q4	2021 0
I-405	Los Angeles	2,826,647	940,822	1,069,223	-1,757,424	-62.2%	128,401	13.6%	1	1	
I–10	Los Angeles	1,603,143	816,834	936,633	-666,510	-41.6%	119,799	14.7%	3	2	
US-101	Los Angeles	2,055,596	727,098	820,058	-1,235,538	-60.1%	92,960	12.8%	2	4	
I–5	Los Angeles	1,084,383	808,377	789,100	-295,284	-27.2%	-19,277	-2.4%	4	3	
I–210	Los Angeles	966,840	623,187	485,265	-481,574	-49.8%	-137,922	-22.1%	5	5	
I–110	Los Angeles	787,732	488,476	410,246	-377,486	-47.9%	-78,230	-16.0%	6	6	
SR-60	Los Angeles	659,532	353,700	399,210	-260,322	-39.5%	45,510	12.9%	7	7	
I-605	Los Angeles	575,585	347,006	392,099	-183,486	-31.9%	45,093	13.0%	8	8	
I–710	Los Angeles	513,399	246,579	353,834	-159,565	-31.1%	107,255	43.5%	9	10	
I–105	Los Angeles	497,711	230,583	259,700	-238,010	-47.8%	29,118	12.6%	10	11	
SR-14	Los Angeles	153,068	276,756	161,332	8,264	5.4%	-115,424	-41.7%	14	9	
SR-91	Los Angeles	407,671	128,023	149,611	-258,059	-63.3%	21,589	16.9%	11	13	
SR-57	Los Angeles	188,753	142,223	127,468	-61,285	-32.5%	-14,755	-10.4%	13	12	
SR-134	Los Angeles	376,435	77,806	104,749	-271,686	-72.2%	26,943	34.6%	12	15	
US-101	Ventura	142,672	105,847	96,162	-46,510	-32.6%	-9,685	-9.1%	15	14	
SR-71	Los Angeles	111,965	40,424	75,621	-36,344	-32.5%	35,197	87.1%	17	16	
SR-118	Los Angeles	132,552	16,804	30,296	-102,256	-77.1%	13,492	80.3%	16	17	
SR-2	Los Angeles	85,969	4,244	13,517	-72,452	-84.3%	9,273	218.5%	18	20	
SR-118	Ventura	23,049	9,475	10,999	-12,050	-52.3%	1,524	16.1%	19	18	
SR-33	Ventura	3,309	3,395	3,222	-87	-2.6%	-174	-5.1%	21	21	
SR-23	Ventura	20,268	911	2,389	-17,879	-88.2%	1,478	162.2%	20	23	
SR-47	Los Angeles	1,119	8,057	1,159	40	3.6%	-6,897	-85.6%	23	19	
SR-90	Los Angeles	1,901	1,055	196	-1,705	-89.7%	-860	-81.5%	22	22	
SR-126	Los Angeles	478	60	49	-429	-89.7%	-11	-17.6%	24	24	
SR-170	Los Angeles	0	0	0	0		0				
TOTALS		13,219,775	6,397,739	6,692,138	-6,527,637	-49.4%	294,398	4.6%			