

2017 Second Quarter

DEPARTMENT OF TRANSPORTATION
OFFICE OF SYSTEM MODELING, DATA COLLECTION AND ANALYSIS
DIVISION OF OPERATIONS

August 2, 2017 : Ashraf Armanious

## **District 07 Mobility Performance Report**

## 2017 Second Quarter

## **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.

# District 07 Mobility Performance Report 8/2/2017

## **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.

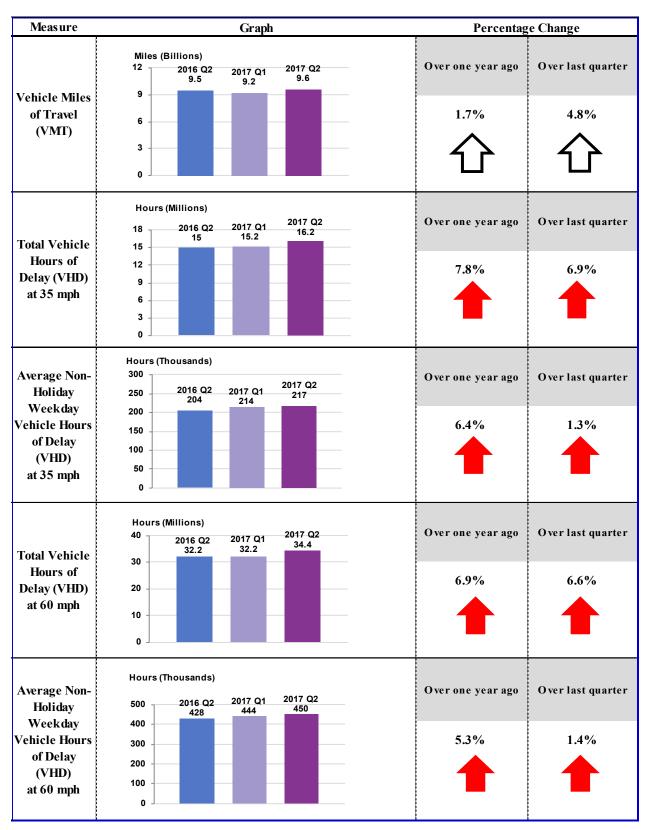
The average weekday daily vehicle hour delay experienced in this quarter was approximately 217 thousand VHD at 35 mph and 450 thousand VHD at 60 mph threshold. In general Delays were Up about 7% from both last Quarter (2017 Q1) and year ago (2016 Q2).

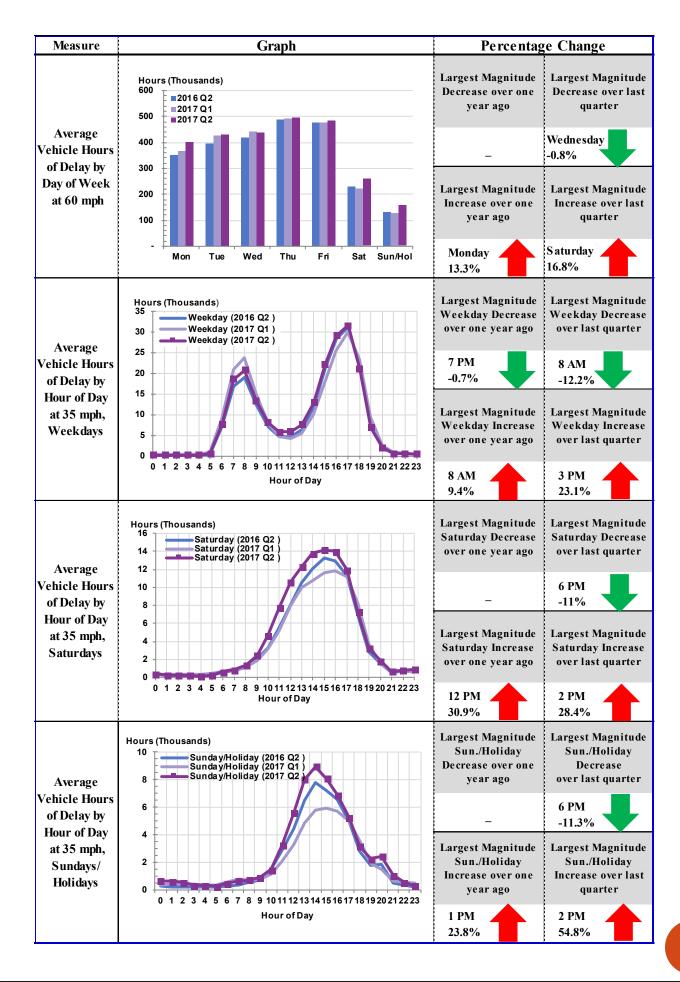
Thursdays and Fridays are the most congested days of the week, with Peak hours extend from 6:00 am to 9:30 am and from 2:30 pm to 7:00 pm. Peak hour in the weekend (Saturday and Sunday) is generally between 1:00 pm and 5:00 pm

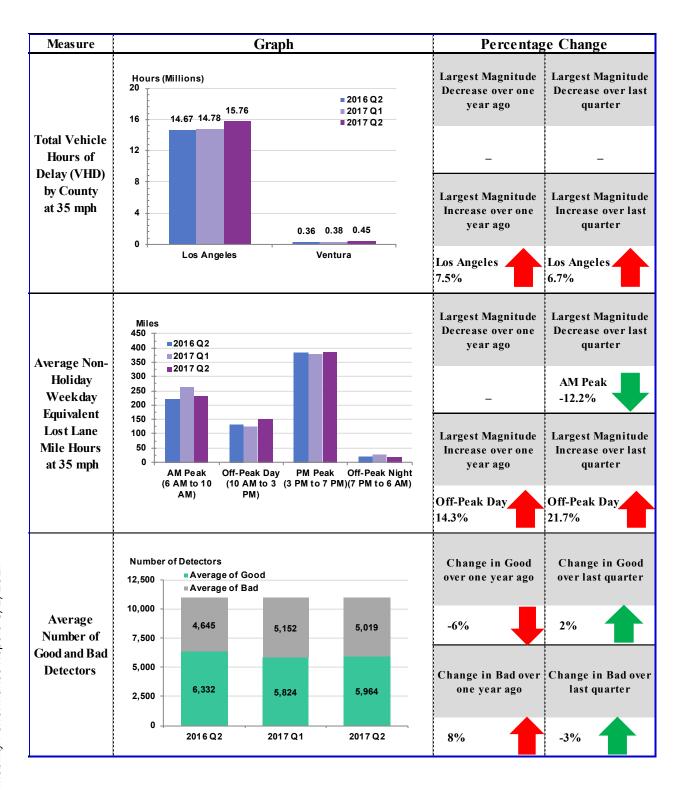
# Top Ten Bottlenecks for the 2017 Second Quarter:

Rank	Fwy	Location	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (hrs)
1	1405-N	Nordhoff	РМ	68.642	44.87	63	8.7	312,467	3.6
2	1405-N	Westminster	AM	52.292	28.52	63	7.2	231,104	2.3
3	1405-S	Howard Hughes Pkwy	РМ	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	РМ	9.948	8.6	64	4.1	187,340	3.9
6	1405-N	Waterford	РМ	55.882	32.11	60	4.2	186,375	3.7
7	I105-E	Long Beach Blvd	РМ	11.9	R11.9	64	5.6	184,541	4.7
8	I210-E	Nb 605 To Eb 210 Conn.	РМ	36.889	R36.6	64	6.5	173,725	3.2
9	1405-N	Inglewood	AM	42.122	18.35	61	5.5	157,187	3.0
10	15-S	Lakewood	РМ	124.78	8.21	51	7.7	156,717	2.2

# **Quarterly Mobility Statistics**







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Congestion by Route											
Double County		Vehicle Hours of Delay at 35 mph			Difference 2017 Q2-2016 Q2 Absolute Percentage		Difference 2017 Q2-2017 Q1 Absolute Percentage		Rank 2016 Q2   2017 Q1   2017 Q2		
Route	County	2016 Q2	2017 Q1	2017 Q2				_	2016 Q2		2017 Q2
I-405	Los Angeles	3.272.479	2.976.061	3.618.602	346.123		642,541	21.6%	3	2	2
I-5	Los Angeles	1,661,110	1.869.947	1.836.944	175.834	-	-33,003	-1.8%	4	3	
US-101	Los Angeles	1,276,871	1,756,683	1,680,464	403,593		-76.219	4.3%		4	4
I-10	Los Angeles	1.869.641	1,326,618		-368.078		174,944	13.2%	6	6	5
I-110	Los Angeles	1,039,713	1,130,186		149,940		59,466			5	
I-210	Los Angeles	1,214,554	1,202,282	1,187,526			-14,757	-1.2%	5	7	6 7
I-605	Los Angeles	703,043	873,796		290,248		119,495		8		
SR-60	Los Angeles	811,886	814,466				2,034	0.2%	7	8	8
SR-91	Los Angeles	575,223	506,884	599,213			92,329	18.2%	10	9	9
I-105	Los Angeles	636,042	476,610		-58,680		100,752	21.1%	9	10	10
I-710	Los Angeles	213,602	449,290	422,524	208,923		-26,765	-6.0%	15	11	11
US-101	Ventura	300,666	324.821	400,410			75,589	23.3%	13	14	12
SR-134	Los Angeles	354,710	439,697	384,055	29,345		-55,642	-12.7%	11	12	13
SR-170	Los Angeles	279,452	381,957	307.225	27,773	9.9%	-74,732	-19.6%	14	13	14
SR-57	Los Angeles	350,338	163,292	191,113	-159,226	45.4%	27,821	17.0%	12	16	15
SR-118	Los Angeles	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	-12,8%	-36,908	-21.3%	16	15	17
SR-2	Los Angeles	46,294	95,823	109,393	63,099	136.3%	13,571	14.2%	19	18	18
SR-71	Los Angeles	130,744	2,642	50,407	-80,337	-61.4%	47,765	1808.0%	17	22	19
SR-23	Ventura	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	32.2%	-426	-12.3%	22	21	21
SR-90	Los Angeles	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%			_