# District 10 Mobility Performance Report

2018 Third Quarter

DEPARTMENT OF TRANSPORTATION

October 19, 2018 : Jaime Q. Quesada

## **District 10 Mobility Performance Report**

## 2018 Third Quarter

#### **EXECUTIVE SUMMARY**

#### Overview

Caltrans District 10 contains eight counties located within the Central Valley (San Joaquin / Stanislaus / Merced) and the Sierra Nevada (Amador / Calaveras / Tuolumne / Mariposa / Alpine). Over the years detection in Alpine and Calaveras Counties has been sparse, so the District 10 Mobility Performance Report (MPR) no longer includes these two counties in the quarterly or annual analysis.

The MPR quarterly analysis compares information in the current quarter to that of the previous quarter and the quarter one year prior. The following are the performance measures reported in the MPR:

- Vehicle Miles Traveled (VMT)
- Vehicle Hours of Delay (VHD)
- Lost Lane Miles (LLM)
- Detector Health (DH)

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 all congestion, both light and heavy. These thresholds are set by Caltrans and are based upon engineering experience and District input.

#### **FINDINGS**

In the third quarter, total delay equaled 397 thousand vehicle hours of delay (VHD) at the 35 mph speed threshold and 1.4 million VHD at the 60 mph threshold. Compared to the same quarter the

year before, there was a 20.3 percent increase in 35 mph quarterly delay and 25.5 percent increase in 60 mph quarterly delay. The average weekday delay experienced in this quarter was approximately 5,573 VHD at 35 mph and 19,674 VHD at 60 mph. The increased delay numbers can mainly be attributed to a 9 percent increase in the number of good detectors and -13% percent decrease in the number of bad detectors compared to the second quarter of 2018.

The following District 10 projects are currently being constructed or are scheduled for construction effective October 2018. These current and future (planned) projects will further relieve congestion in District 10:

#### **MERCED COUNTY**

## MER 99 NB LIVINGSTON MEDIAN WIDENING; EA 10-0Q121

Lane widening from 2 to 3 lanes Approve Construction Contract Date – 08/01/2021 End Project – 10/02/2023

#### MER 99 SB LIVINGSTON MEDIAN WIDENING; EA 10-0Q122

Lane widening from 2 to 3 lanes Approve Construction Contract Date – 01/19/2019 End Project – 10/01/2021

#### MER 152 – LOS BANOS BYPASS SEGMENT I; EA 10-41911

Convert 4 lane expressway to 6 lane freeway Approve Construction Contract Date – 05/15/2018 End Project – 10/01/2020

#### SAN JOAQUIN COUNTY

## SJ 4 RAMP METERING IMPROVEMENTS; EA 10-1F180

Install ramp meters along SR 4 between the I-5 and SR 99 Connectors Currently in PRS/PDS; PA&ED Scheduled for mid-2016 End Project – Estimated to be mid 2020

#### SJ 120 RAMP METERING IMPROVEMENTS; EA 10-1F040

Install ramp meters along SR 4 between the I-5 and SR 99 Connectors Currently in PRS/PDS; PA&ED Scheduled for mid-2016 End Project – Estimated to be mid 2020

## I-205 SMART CORRIDOR PHASE 2; EA 10-1C330

Install ramp meters and ITS elements along I205 from MacArthur to Grant Line Road Currently in PA&ED End Project – 11/01/2021

#### STANISLAUS COUNTY

## STA 99 / SJ 99 RAMP METERING & MAINLINE IMPROVEMENTS; EA 10-1C300

Improve Mainline and Ramp Operations; Standardize Structure Clearance; Add Auxiliary Lane Currently in PA&ED

End Project – Estimated to be mid 2020

The above capacity increasing, ramp metering, interchange improvement, and interchange construction projects are located on the routes, in the cities, and in the counties that experience the most congestion in District 10. It is expected that the projects will help increase the Vehicle Miles Traveled while reducing congestion and delay as the population and demand in District 10 grows over the next 10 years.

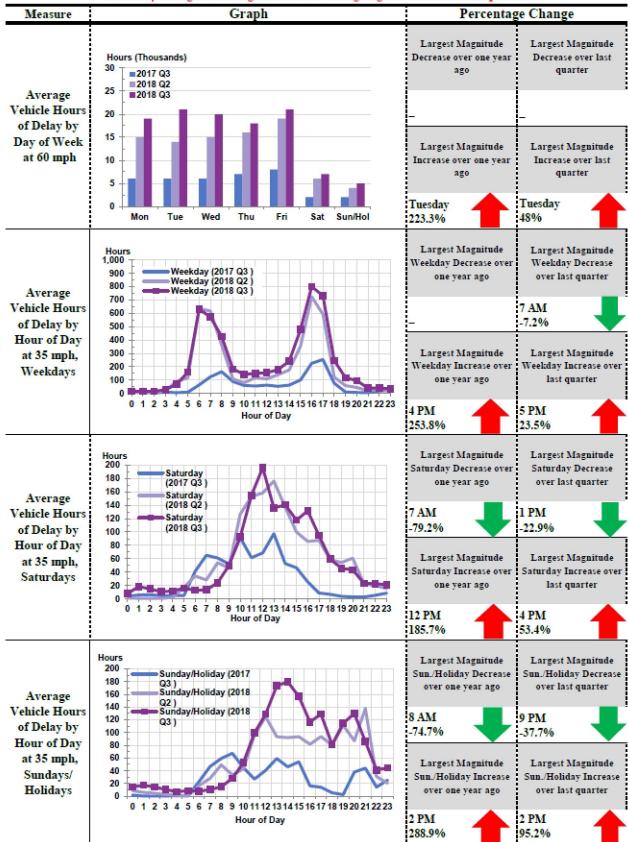
The next section of this report summarizes the District 10 2018 Q1 Quarterly Mobility Statistics.

# 2018 Q3 Quarterly Mobility Statistics - District 10

#### Data may change in coming months due to on-going data reconciliation process



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Congestion by Route											
		Vehicle Hours of Delay at 35 mph			Difference 2018 Q3-2017 Q3		Difference 2018 Q3-2018 Q2		Rank		
Route	County	2017 Q3	2018 Q2	2018 Q3	Absolute	Percentage	Absolute	Percentage	2017 Q3	2018 Q2	2018 Q3
1205	San Joaquin	191624.2	385323	299410.2	107786	56%	(85,913)	-22%	1	1	1
SR99	Stanislaus	30506.7	37993.2	84460.4	53953.7	177%	46,467	122%	n	3	2
SR99	San Joaquin	61140.4	32978	48745	-12395.4	-20%	15,767	48%	2	4	3
15	San Joaquin	2219.6	10348.3	46887.5	44667.9	2012%	36,539	353%	6	7	4
SR4	San Joaquin	307.6	32040	34517.8	34210.2	11122%	2,478	8%	11	5	5
SR132	Stanislaus	10576.6	24300	23946.1	13369.5	126%	(354)	-1%	4	6	6
1580	San Joaquin	5206.4	54056.7	18541.5	13335.1	256%	(35,515)	-66%	5	2	7
15	Stanislaus	0	1858.8	12083.4	12083.4		10,225	550%		10	8
SR152	Merced	0	368.8	6556.5	6556.5		6,188	1678%		14	9
SR99	Merced	1255.8	6516.9	5724.8	4469	356%	(792)	-12%	®	8	10
SR219	Stanislaus	1869.7	2853	5256	3386.3	181%	2,403	84%	7	9	11
SR165	Merced	0	131.6	1631.7	1631.7		1,500	1140%		16	12
SR108	Tuolumne	0	671.9	975.5	975.5		304	45%		12	13
SR132	San Joaquin	1131.2	779.1	743.7	-387.5	-34%	(35)	-5%	9	11	14
SR120	San Joaquin	752	561.3	709.2	-42.8	-6%	148	26%	10	13	15
SR49	Mariposa	0	102.1	538	538		436	427%		17	16
SR88	Amador	0	0	262.3	262.3	ì	262				17
15	Merced	0	2	36.8	36.8		35	1740%		18	18
SR104	Amador	0	0	0	0		-				
SR12	San Joaquin	3.4	0.1	0	-3.4	-100%	(D)	-100%	12	19	
SR120	Tuolumne	0	0	0	0		-				
SR49	Tuolumne	0	267.1	0	0		(267)	-100%		15	
TOTALS		306,594	591,152	591,026	284,433	92.8%	-126	0.0%			