# District 10 Mobility Performance Report

2018 First Quarter

#### DEPARTMENT OF TRANSPORTATION

August 6, 2018 : Jaime Q. Quesada

#### **District 10 Mobility Performance Report**

2018 First 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 first quarter, total delay equaled 208 thousand vehicle hours of delay (VHD) at the 35 mph speed threshold, and 781 thousand VHD at the 60 mph threshold. Compared to the same quarter

the year before, there was a 151.2 percent increase in 35 mph quarterly delay and 37.7 percent increase in 60 mph quarterly delay. The average weekday delay experienced in this quarter was approximately 2,900 VHD at 35 mph, and 11,036 VHD at 60 mph. The increased delay numbers mainly attributed to 35 percent increase in number of good detectors compared to the first quarter of 2017.

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

#### <u>MERCED COUNTY</u>

#### 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 -01/19/2019End 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 -05/15/2018End 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  $- \frac{11}{01}/2021$ 

### 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 first quarter Quarterly Mobility Statistics.

# 2018 Q1 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 Q1-2017 Q1		Difference 2018 Q1-2017 Q4		Rank		
Route	County	2017 Q1	2017 Q4	2018 Q1	Absolute	Percentage	Absolute	Percentage	2017 Q1	2017 Q4	2018 Q1
1205	San Joaquin	119552.2	154421.4	203735.6	84183.4	70%	49,314	32%	1	1	1
1580	San Joaquin	42246.8	14743.4	54481.8	12235	29%	39,738	270%	3	5	2
SR99	Stanislaus	2946.3	44824.9	30933.7	27987.4	950%	(13,891)	-31%	5	2	3
SR99	San Joaquin	68896	42712.4	23707.3	-45188.7	-66%	(19,005)	-44%	2	3	4
SR132	Stanislaus	0	24394.2	20244.3	20244.3		(4,150)	-17%		4	5
15	San Joaquin	960.4	7653.6	8853.5	7893.1	822%	1,200	16%	7	6	6
SR4	San Joaquin	320	389.7	5905	5585	1745%	5,515	1415%	9	9	7
SR219	Stanislaus	3521.8	3258.4	3100	-421.8	-12%	(158)	-5%	4	7	8
SR99	Merced	1551.6	1618.7	1277.3	-274.3	-18%	(341)	-21%	6	8	9
SR165	Merced	0	0	306.3	306.3		306				10
SR120	San Joaquin	202.6	355	227	24.4	12%	(128)	-36%	10	10	11
SR132	San Joaquin	476.1	8.6	214.1	-262	-55%	206	2390%	8	11	12
15	Stanislaus	11.2	0	26.7	15.5	138%	27		12		13
SR152	Merced	9.5	0	15.9	6.4	67%	16		13		14
SR88	Amador	0	0	3.4	3.4		3				15
15	Merced	0	0	0	0		-				
SR104	Amador	0	0	0	0		-				
SR108	Tuolumne	0	0	0	0		-				
SR12	San Joaquin	0	0.2	0	0		(0)	-100%		12	
SR120	Tuolumne	0	0	0	0		-				
SR49	Mariposa	25	0	0	-25	-100%	-		11		
TOTALS		240,720	294,381	353,032	112,312	46.7%	58,651	19.9%			

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