# District 10 Mobility Performance Report

2021 Second Quarter

**DEPARTMENT OF TRANSPORTATION** 

August 13, 2021 : Jaime Q. Quesada

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

#### 2021 Second 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 report.

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 second quarter, total delay equaled 586 thousand vehicle hours of delay (VHD) at the 35 mph speed threshold and 2 million VHD at the 60 mph threshold. Compared to the same quarter the year before, there was an 120 percent total delay increase in 35 mph quarterly delay and 78 percent

total delay increase in 60 mph quarterly delay. The average weekday delay experienced in this quarter was approximately 8,051 VHD at 35 mph and 27,162 VHD at 60 mph. Compared to the same quarter the year before, there was a 112 percent increase in 35 mph average weekday quarterly delay and 70 percent increase in 60 mph average weekday quarterly delay. The increased delay numbers at 35 mph and 60 mph can mainly be attributed to the fact that the COVID-19 lockdown restrictions were rolled back during the second quarter of 2021. It is expected that the third quarter of 2021 will show an additional increased delay across the board if COVID-19 lockdown restriction continue to be rolled back.

# Top Ten Bottlenecks for Quarter 2

County	Shift	Fwy	Abs PM	CA PM	Latitude	Longitude	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
SJ	AM	I205-W	1.69	0.761	37.74	-121.54	61	2.46	82,745	12,050
STA	PM	SR132-E	9.42	1.556	37.64	-121.25	64	5.40	43,622	10,060
SJ	PM	SR4-E	66.43	R18.9	37.96	-121.25	55	3.02	30,875	6,205
SJ	PM	SR99-S	236.56	0.776	37.74	-121.12	61	2.31	30,408	9,135
SJ	PM	SR99-S	240.43	4.64	37.77	-121.18	63	0.94	17,061	9,985
SJ	PM	SR99-S	238.76	2.971	37.76	-121.15	56	1.40	17,006	7,295
SJ	PM	I205-E	9.44	R8.51	37.76	-121.41	60	1.37	14,879	8,565
STA	PM	SR99-S	227.83	R16.799	37.65	-121.02	51	2.03	12,859	4,410
SJ	PM	I205-E	12.87	R11.94	37.77	-121.34	53	1.80	12,391	5,000
SJ	PM	I205-E	10.22	R9.29	37.76	-121.39	35	2.34	10,625	2,625

**SUMMARY TABLE FOR THE 2021 Q2 REPORT** 

The following District 10 projects are currently being constructed or are scheduled for construction effective August 2021. 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 – 11/01/2022

#### 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 2022

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

Install ramp meters along SR 4 between the I-5 and SR 99 Connectors Currently in PS&E End Project – Estimated to be 2023

#### 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 PS&E End Project – Estimated to be 2022

#### I-205 – MOUNTAIN HOUSE PARKWAY INTERCHANGE PROJECT; EA 10-1E210

 $Improve\ the\ I-205-Mountain\ House\ Parkway\ Interchange\ to\ accommodate\ planned\ future\ growth\ in\ and\ around\ the\ City\ of\ Tracy$ 

Currently in PS&E

End Project – Estimated to be 2025

#### I-580 – PATTERSON PASS ROAD INTERCHANGE PROJECT; EA 10-1E220

Improve the I-205 – Patterson Pass Road Interchange to accommodate planned future growth in and around the City of Tracy

Currently in PS&E

End Project – Estimated to be 2025

# I-205 – LAMMERS ROAD / 11<sup>TH</sup> STREET INTERCHANGE PROJECT; EA 10-0H910

Construct the I-205 – Lammers Road / 11<sup>th</sup> Street Interchange to accommodate planned future growth in and around the City of Tracy

Currently in PS&E

End Project – Estimated to be 2025

# **STANISLAUS COUNTY**

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

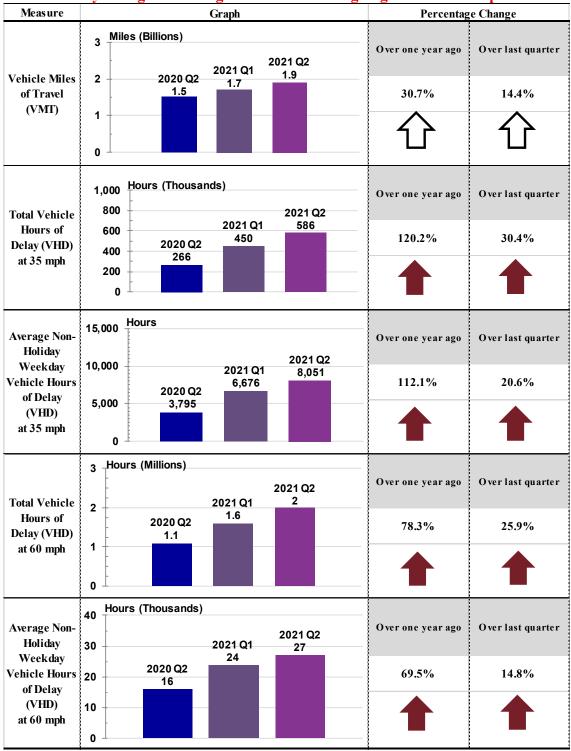
Improve Mainline and Ramp Operations; Standardize Structure Clearance; Add Auxiliary Lane Project Complete

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 2021 Q2 Quarterly Mobility Statistics.

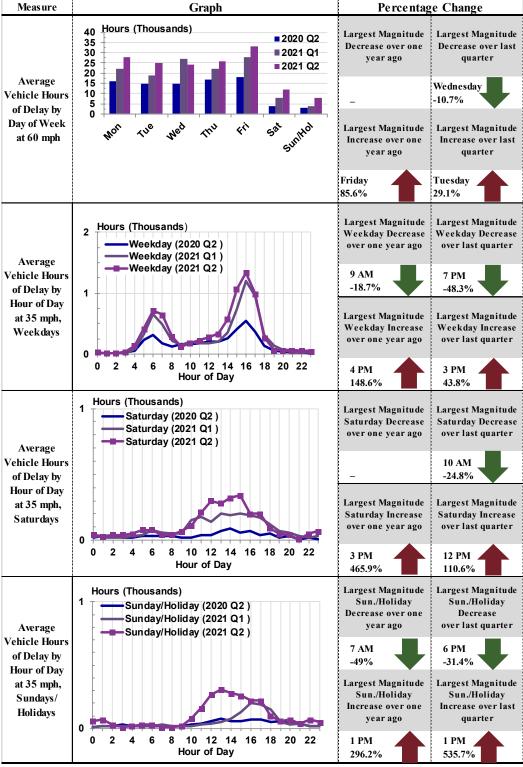
## 2021 Q2 Quarterly Mobility Statistics District 10

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



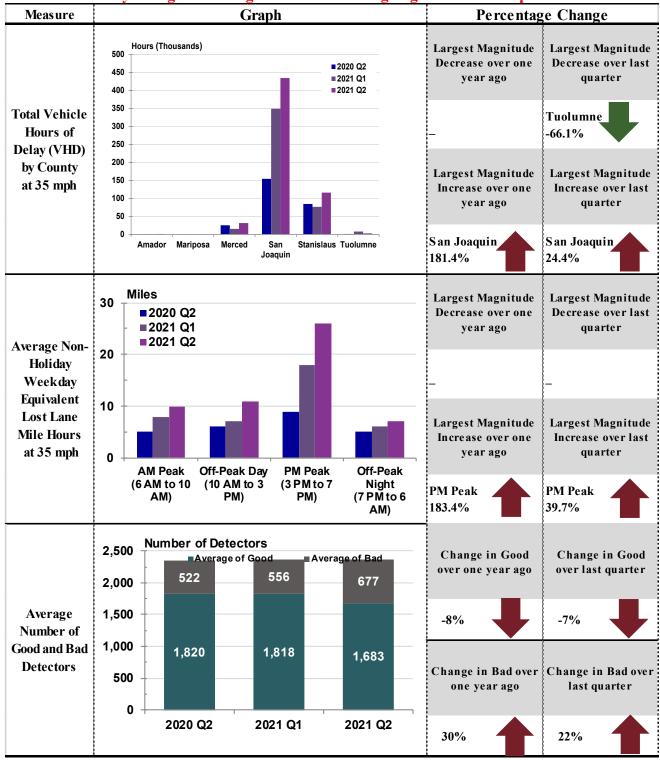
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# 2021 Q2 Quarterly Mobility Statistics District 10

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Congestion by Route											
		Vehicle Hours of Delay at 35 mph				rence -2020 Q2	Difference 2021 Q2-2021 Q1		Rank		
Route	County	2020 Q2	2021 Q1	2021 Q2	Absolute	Percentage	Absolute	Percentage	2020 Q2	2021 Q1	2021 Q2
1205	San Joaquin	80751	159310	286010.1	205259.1	254%	126,700	80%	1	1	1
SR99	San Joaquin	33279.5	62868.4	98244.9	64965.4	195%	35,377	56%	3	3	2
15	San Joaquin	22286	120662.4	86580.4	64294.4	288%	(34,082)	-28%	6	2	3
SR99	Stanislaus	64980.1	50255.9	77326.3	12346.2	19%	27,070	54%	2	4	4
SR4	San Joaquin	5127.2	15973.5	35375.1	30247.9	590%	19,402	121%	10	8	5
SR132	Stanislaus	8926.5	22599.3	31448.7	22522.2	252%	8,849	39%	9	5	6
SR120	San Joaquin	10864.8	21020.8	27870.7	17005.9	157%	6,850	33%	7	6	7
SR99	Merced	24865.5	13927.5	27461.5	2596	10%	13,534	97%	4	9	8
1580	San Joaquin	23374.3	19510.9	14829.4	-8544.9	-37%	(4,682)	-24%	5	7	9
15	Stanislaus	9486.3	1818	5846.1	-3640.2	-38%	4,028	222%	8	14	10
SR132	San Joaquin	3102.3	4792.9	4964.2	1861.9	60%	171	4%	12	11	11
SR12	San Joaquin	4051.8	3097.2	3857.3	-194.5	-5%	760	25%	11	12	12
15	Merced	534	963.4	2298.1	1764.1	330%	1,335	139%	15	15	13
SR108	Tuolumne	1246.6	7844	2250.9	1004.3	81%	(5,593)	-71%	13	10	14
SR165	Merced	55	409.1	1695	1640	2982%	1,286	314%	18	17	15
SR219	Stanislaus	1190.9	1881.1	1547.3	356.4	30%	(334)	-18%	14	13	16
SR16	Amador	261.6	447.3	889.1	627.5	240%	442	99%	16	16	17
SR120	Tuolumne	9.6	0	388.6	379	3948%	389		23		18
SR88	Amador	130.8	236.2	335	204.2	156%	99	42%	17	18	19
SR49	Mariposa	33.1	45.6	131.5	98.4	297%	86	188%	19	19	20
SR152	Merced	12.1	4.9	46.9	34.8	288%	42	857%	20	21	21
SR49	Tuolumne	11	7.4	25.5	14.5	132%	18	245%	22	20	22
SR104	Amador	11.3	4.8	4.8	-6.5	-58%	(0)	0%	21	22	23
SR124	Amador	1.7	0.2	0	-1.7	-100%	(0)	-100%	24	23	
TOTALS		294,593	507,681	709,427	414,834	140.8%	201,747	39.7%			