# District 10 Mobility Performance Report

2021 Third Quarter

DEPARTMENT OF TRANSPORTATION

October 29, 2021 : Jaime Q. Quesada

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

#### 2021 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 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 third quarter, total delay equaled 560 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 a 65.9 percent total delay increase in 35 mph quarterly delay and 32.7

percent total delay increase in 60 mph quarterly delay. The average weekday delay experienced in this quarter was approximately 7,630 VHD at 35 mph and 26,492 VHD at 60 mph. Compared to the same quarter the year before, there was a 60.9 percent increase in 35 mph average weekday quarterly delay and 29.7 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 and third quarters of 2021. It is expected that the fourth quarter of 2021 will show an additional increased delay across the board if COVID-19 lockdown restriction continue to be rolled back.

County	Shift	Fwy	Abs PM	CA PM	Latitude	Longitude	# Days	Avg Extent	Total Delay	Total Duration	
County							Active	(Miles)	(veh-hrs)	(mins)	
SJ	AM	1205-W	R1.691	R0.761	37.74	-121.54	60	2.88	92,994.60	12,115.00	
SJ	PM	SR99-S	236.56	0.776	37.74	-121.12	49	2.37	28,638.50	8,260.00	
STA	PM	SR132-E	9.42	1.556	37.64	-121.25	50	5.26	27,178.10	7,200.00	
SJ	PM	SR4-E	R66.428	R18.9	37.96	-121.25	47	3.13	18,673.30	4,200.00	
SJ	PM	SR99-S	240.43	4.64	37.77	-121.18	59	1.00	18,424.80	10,705.00	
SJ	PM	1205-E	R12.87	R11.94	37.77	-121.34	57	1.80	16,463.80	6,275.00	
SJ	PM	SR99-S	238.76	2.971	37.76	-121.15	61	1.44	16,341.20	8,160.00	
SJ	PM	1205-E	R9.44	R8.51	37.76	-121.41	60	1.39	13,663.50	7,145.00	
SJ	PM	1205-E	R10.22	R9.29	37.76	-121.39	37	2.45	12,858.00	3,350.00	
SJ	PM	SR99-S	237.50	1.71	37.75	-121.13	60	1.33	10,097.00	4,625.00	
SUMMARY TABLE FOR THE 2021 Q3 REPORT											

# Top Ten Bottlenecks for Quarter 3

The following District 10 projects are currently being constructed or are scheduled for construction effective October 2021. 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 -01/01/2022

#### 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 -11/01/2022

#### <u>SAN JOAQUIN COUNTY</u> 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 Q3 Quarterly Mobility Statistics.



#### 2021 Q3 Quarterly Mobility Statistics District 10

For further information regarding the content of this report, contact: Jaime Q. Quesada at jquesada@dot.ca.gov



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**District 10** 

2021 Q3 Quarterly Mobility Statistics

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# 2021 Q3 Quarterly Mobility Statistics District 10

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

Congestion by Route												
		Vehicle Hours of Delay at 35 mph			Diffe 2021 Q3	rence -2020 Q3	Difference 2021 Q3-2021 Q2		Rank			
Route	County	2020 Q3	2021 Q2	2021 Q3	Absolute	Percentage	Absolute	Percentage	2020 Q3	2021 Q2	2021 Q3	
1205	San Joaquin	152318.4	286010.1	314289.4	161971	106%	28,279	10%	1	1	1	
SR99	Stanislaus	36801.7	77326.3	92085.1	55283.4	150%	14,759	19%	4	4	2	
SR99	San Joaquin	56464.9	98244.9	81381.1	24916.2	44%	(16,864)	-17%	2	2	3	
15	San Joaquin	41210.5	86580.4	70856.4	29645.9	72%	(15,724)	-18%	3	3	4	
SR120	San Joaquin	15104.4	27870.7	34571.6	19467.2	129%	6,701	24%	6	7	5	
SR4	San Joaquin	14460.5	35375.1	28339.3	13878.8	96%	(7,036)	-20%	7	5	6	
SR99	Merced	11978.3	27461.5	21312.2	9333.9	78%	(6,149)	-22%	8	8	7	
SR132	Stanislaus	22366.2	31448.7	19401.1	-2965.1	-13%	(12,048)	-38%	5	6	8	
1580	San Joaquin	5577.7	14829.4	11180.2	5602.5	100%	(3,649)	-25%	10	9	9	
15	Stanislaus	10487.8	5846.1	6070.1	-4417.7	-42%	224	4%	9	10	10	
SR132	San Joaquin	4616.3	4964.2	4926.9	310.6	7%	(37)	-1%	11	11	11	
SR12	San Joaquin	3826.2	3857.3	4133.6	307.4	8%	276	7%	12	12	12	
SR165	Merced	1577.3	1695	1856.1	278.8	18%	161	10%	16	15	13	
SR219	Stanislaus	1668.2	1547.3	1374.8	-293.4	-18%	(173)	-11%	15	16	14	
SR108	Tuolumne	2007.7	2250.9	647.2	-1360.5	-68%	(1,604)	-71%	14	14	15	
SR120	Tuolumne	19.5	388.6	342.3	322.8	1655%	(46)	-12%	20	18	16	
SR16	Amador	279.2	889.1	295.6	16.4	6%	(594)	-67%	18	17	17	
SR104	Amador	4.2	4.8	246.3	242.1	5764%	242	5031%	21	23	18	
15	Merced	2878.9	2298.1	210.6	-2668.3	-93%	(2,088)	-91%	13	13	19	
SR49	Mariposa	44.3	131.5	51.4	7.1	16%	(80)	-61%	19	20	20	
SR152	Merced	487.2	46.9	13.1	-474.1	-97%	(34)	-72%	17	21	21	
SR49	Tuolumne	2.6	25.5	12.6	10	385%	(13)	-51%	22	22	22	
SR124	Amador	1.2	0	0.1	-1.1	-92%	0		23		23	
SR88	Amador	1.1	335	0	-1.1	-100%	(335)	-100%	24	19		
TOTALS		384,184	709,427	693,597	309,413	80.5%	-15,830	-2.2%				

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