District 10 Mobility Performance Report

2022 Third Quarter

DEPARTMENT OF TRANSPORTATION

October 31, 2022 : Jaime Q. Quesada

District 10 Mobility Performance Report

2022 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 561 thousand vehicle hours of delay (VHD) at the 35 mph speed threshold and 2.0 million VHD at the 60 mph threshold. Compared to the same quarter the year before, there was a 0.2 percent total delay increase in 35 mph quarterly delay and 3.6 percent

total delay increase in 60 mph quarterly delay. The average weekday delay experienced in this quarter was approximately 7,977 VHD at 35 mph and 28,214 VHD at 60 mph. Compared to the same quarter the year before, there was a 4.5% percent increase in 35 mph average weekday quarterly delay and 6.5 percent increase in 60 mph average weekday quarterly delay. The small overall change in delay numbers at 35 mph and 60 mph can mainly be attributed to the fact that the COVID-19 traffic patterns are balancing out in the past year. It is expected that the fourth quarter of 2022 will continue the same trend of small overall change in delay numbers because traffic flows are balancing out throughout post COVID-19 District 10.

Top Ten Bottlenecks for Quarter 3

County	Shift	Fwy	Abs PM	CA PM	Latitude	Longitude	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
SJ	AM	1205-W	1.69	0.761	37.74	-121.54	61	2.88	99,292	12,205
SJ	PM	SR99-S	238.76	2.971	37.76	-121.15	61	2.76	41,926	9,495
SJ	PM	SR99-S	236.56	0.776	37.74	-121.12	56	2.40	36,548	9,820
STA	PM	SR99-S	227.83	R16.799	37.65	-121.02	50	2.03	20,619	6,335
SJ	PM	SR120-E	0.42	R0.914	37.79	-121.30	61	1.29	13,995	11,565
SJ	PM	1205-E	12.87	R11.94	37.77	-121.34	40	1.80	10,497	4,115
SJ	PM	1205-E	10.22	R9.29	37.76	-121.39	41	1.99	10,264	3,355
SJ	PM	15-N	468.70	R23.21	37.91	-121.29	31	2.80	9,895	2,335
SJ	PM	1205-W	11.41	R10.48	37.77	-121.37	43	1.63	9,250	4,170
SJ	PM	1205-W	13.13	R12.195	37.77	-121.35	46	1.26	8,373	4,600

SUMMARY TABLE FOR THE 2022 Q3 REPORT

The following District 10 projects are currently being constructed or are scheduled for construction effective October 2022. 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 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 – 12/01/2022

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 2023

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 2023

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 2027

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 2027

$I-205 - LAMMERS ROAD / 11^{TH} STREET INTERCHANGE PROJECT; EA 10-0H910$

Construct the I-205 - Lammers Road / 11^{th} Street Interchange to accommodate planned future growth in and around the City of Tracy

Currently in PS&E

End Project – Estimated to be 2027

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

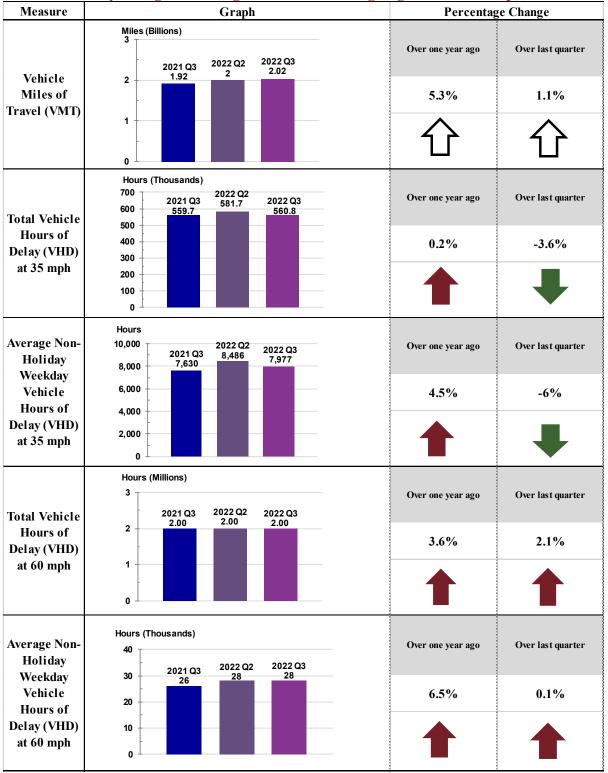
The above capacity increasing, ramp metering, interchange improvement, and interchange construction projects are located on the routes, in the cities, and in the counties that experience the most congestion in District 10. It is expected that the projects will help increase the Vehicle Miles

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 2022 Q3 Quarterly Mobility Statistics.

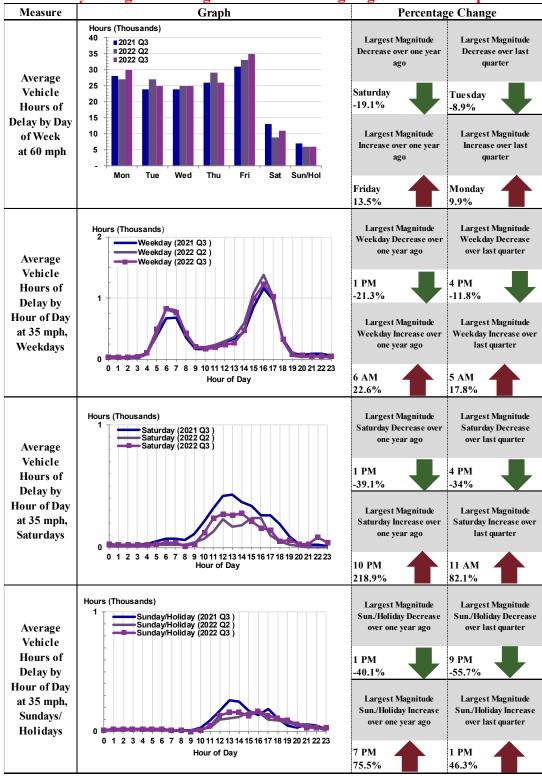
2022 Q3 Quarterly Mobility Statistics District 10

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



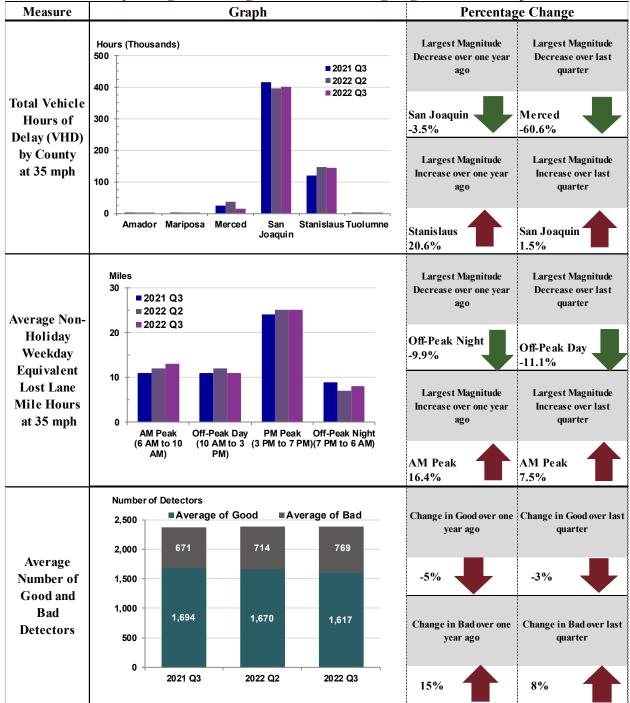
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Congestion by Route												
		Vehicle Hours of Delay at 35 mph				rence -2021 Q3	Difference 2022 Q3-2022 Q2		Rank			
Route	County	2021 Q3	2022 Q2	2022 Q3	Absolute	Percentage	Absolute	Percentage	2021 Q3	2022 Q2	2022 Q3	
I205	San Joaquin	314,289	235,466	176,581	-137,708	-43.8%	-58,884	-25.0%	1	1	1	
SR99	San Joaquin	81,381	101,048	103,793	22,412	27.5%	2,745	2.7%	3	3	2	
SR99	Stanislaus	92,085	103,676	99,395	7,310	7.9%	-4,281	-4.1%	2	2	3	
I5	San Joaquin	70,856	43,684	47,971	-22,886	-32.3%	4,287	9.8%	4	4	4	
SR120	San Joaquin	34,572	27,846	34,185	-387	-1.1%	6,339	22.8%	5	7	5	
SR132	Stanislaus	19,401	33,364	30,182	10,780	55.6%	-3,182	-9.5%	8	6	6	
SR4	San Joaquin	28,339	33,469	17,719	-10,620	-37.5%	-15,750	-47.1%	6	5	7	
I5	Stanislaus	6,070	8,726	11,999	5,929	97.7%	3,274	37.5%	10	11	8	
I580	San Joaquin	11,180	13,714	11,227	47	0.4%	-2,487	-18.1%	9	10	9	
SR99	Merced	21,312	20,204	8,029	-13,283	-62.3%	-12,175	-60.3%	7	8	10	
SR12	San Joaquin	4,134	5,830	5,468	1,335	32.3%	-362	-6.2%	12	12	11	
SR132	San Joaquin	4,927	5,077	4,510	-417	-8.5%	-567	-11.2%	11	13	12	
SR165	Merced	1,856	1,304	3,773	1,917	103.3%	2,469	189.4%	13	15	13	
SR219	Stanislaus	1,375	1,365	1,876	501	36.5%	511	37.5%	14	14	14	
SR152	Merced	13	14,975	1,803	1,790	13661.8%	-13,172	-88.0%	21	9	15	
I5	Merced	211	637	1,013	802	381.0%	376	59.0%	19	17	16	
SR108	Tuolumne	647	212	783	135	20.9%	571	270.0%	15	19	17	
SR120	Tuolumne	342	1,157	367	24	7.1%	-791	-68.3%	16	16	18	
SR16	Amador	296	390	116	-180	-60.9%	-275	-70.4%	17	18	19	
SR49	Mariposa	51	110	44	-7	-13.8%	-66	-59.7%	20	20	20	
SR88	San Joaquin	0	34	5	5		-30	-86.6%		22	21	
SR104	Amador	246	0	2	-245	-99.3%	2		18		22	
SR140	Merced	0	0	1	1		1				23	
SR124	Amador	0	6	1	1	900.0%	-5	-83.6%	23	23	24	
SR49	Tuolumne	13	1	1	-12	-94.4%	-1	-50.0%	22	24	25	
SR88	Amador	0	65	0	0		-65	-99.5%		21	26	
TC	TALS	693,597	652,360	560,843	-132,754	-19.1%	-91,517	-14.0%				