District 05 Mobility Performance Report

2023 Fourth Quarter

DEPARTMENT OF TRANSPORTATION

January 16, 2024 David Gallego

2023 Fourth Quarter

EXECUTIVE SUMMARY

Overview

Caltrans District 5 contains five counties located along the central coast of California: Santa Barbara, San Luis Obispo, Monterey, Santa Cruz and San Benito Counties. All counties are in urban settings within city limits and rural settings outside city limits. Santa Cruz and Monterey were the top two most congested counties in the 4th quarter.

The Mobility Performance quarterly analysis compares information with over a year ago and over last quarter in the following performance measures:

- Vehicle Miles of Travel (VMT))
- Vehicle Hours of Delay (VHD), Bottleneck Locations
- Lost Lane Miles (equivalent lost productivity)
- Detector Health

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 fourth, total delay equaled 374,900 vehicle hours of delay (VHD) at the 35 mph speed threshold, and 866,600 VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 5,409 VHD at 35 mph, and 12,126 VHD at 60 mph.

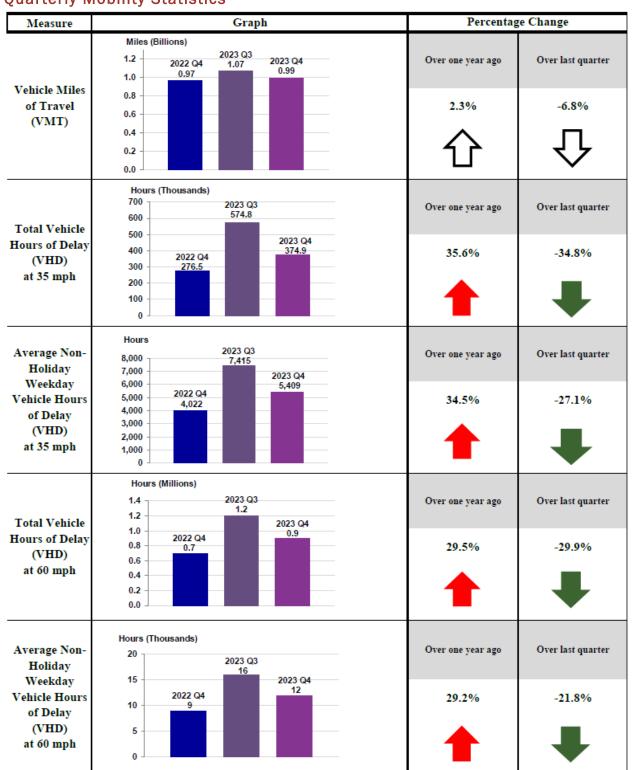
Top Ten Bottlenecks for Quarter 4

								Avg	Total	Total
							# Days	Extent	Delay	Duration
County	Fwy	Location	Туре	Shift	Abs PM	CA PM	Active	(Miles)	(veh-hrs)	(mins)
SCR	SR1-S	BAY AVE - PORTER ST AT HWY 1 SB	ML	PM	364.577	13.279	62	1.84516	31,516.5	12,680
MON	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	ML	PM	330.075	R79.54	60	2.85167	30,800.3	8,255
SB	US101-S	OLIVE MILL RD 101 NB VDS MLSB SB	ML	PM	93.295	10.407	62	1.97903	28,646.5	8,710
SCR	SR1-N	PARK AVE AT HWY 1 SB VDS MLNB NB	ML	AM	363.679	12.338	55	2.84182	25,400.2	6,640
MON	SR1-S	SOUTH OF FREMONT BLVD AT HWY 1 N	ML	AM	330.929	R80.46	51	4.2902	22,856.4	4,200
SCR	SR1-S	STATE PARK DR AT HWY 1 NB VDS ML	ML	PM	361.617	10.319	56	2.08214	12,771.3	5,880
MON	SR68-E	LAGUNA SECA MAIN ENTRANCE HWY 68	ML	PM	11.238	11.034	63	2.5	10,113.2	10,760
SLO	US101-S	SPYGLASS DR 101 SB VDS MLSB SB	ML	PM	193.322	R19.797	54	1.75926	9,888.6	5,140
SCR	SR1-N	STATE PARK DR AT HWY 1 NB VDS ML	ML	AM	361.659	10.318	43	3.26512	9,543.9	2,305
SCR	SR1-S	RIO DEL MAR BLVD AT HWY 1 NB VDS	ML	PM	360.312	9.0141	40	2.5925	9,107.3	3,450

SPECIAL CIRCUMSTANCE

The performance factor titled Average Vehicle Hours of Delay by Hour of Day at 35 mph on a Saturday had a special circumstance in Quarter 4 of 2023 that warrants discussion. The largest absolute increase for Average Vehicle Hours of Delay by Hour of Day at 35 mph on a Saturday when comparing Quarter 4 of 2023 to Quarter 3 of 2023 occurred in the 12:00 AM hour. Quarter 3 of 2023 had zero hours of vehicle delay in the 12:00 AM hour while Quarter 4 of 2023 had 1.58 hours of vehicle delay in the 12:00 AM hour. Because Quarter 3 of 2023 had zero hours of vehicle delay, the calculation for magnitude increase experienced the error of dividing by zero. The 4:00 AM hour experienced the same error of dividing by zero. Saturdays in Quarter 4 of 2023 had 18 separate hours where the average hours of vehicle delay decreased between Quarter 3 and Quarter 4 of 2023 and 3 separate hours that experienced zero hours of average

hours of vehicle delay in Quarter 4 of 2023. The only hour which had an increase for Average Vehicle Hours of Delay by Hour of Day at 35 mph on a Saturday when comparing Quarter 4 to Quarter 3 of 2023 that did not have the error of dividing by zero was the 6:00 AM hour and which had an absolute increase of 0.25 hours which is a 183.4% increase over Quarter 3 of 2023.

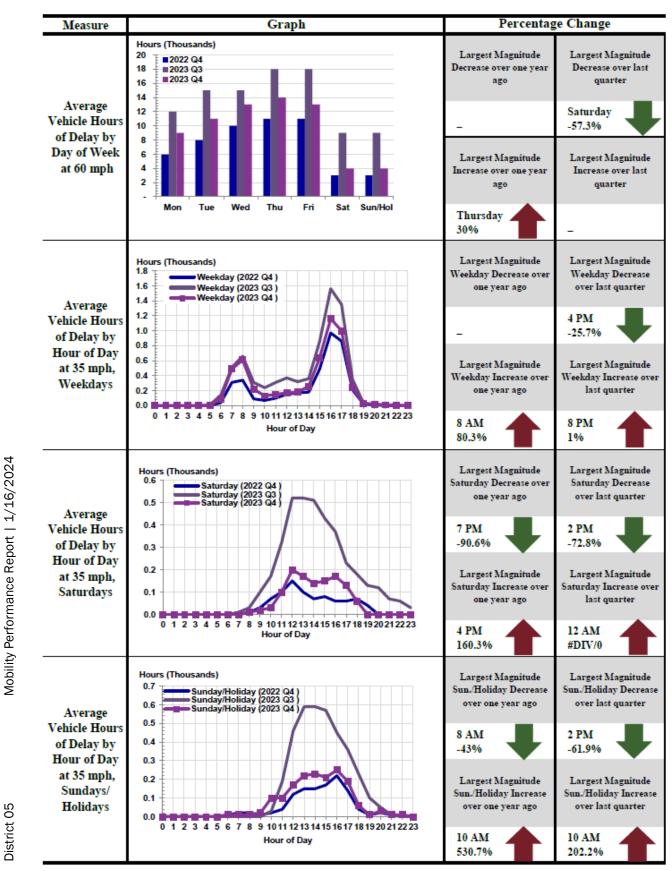


Quarterly Mobility Statistics



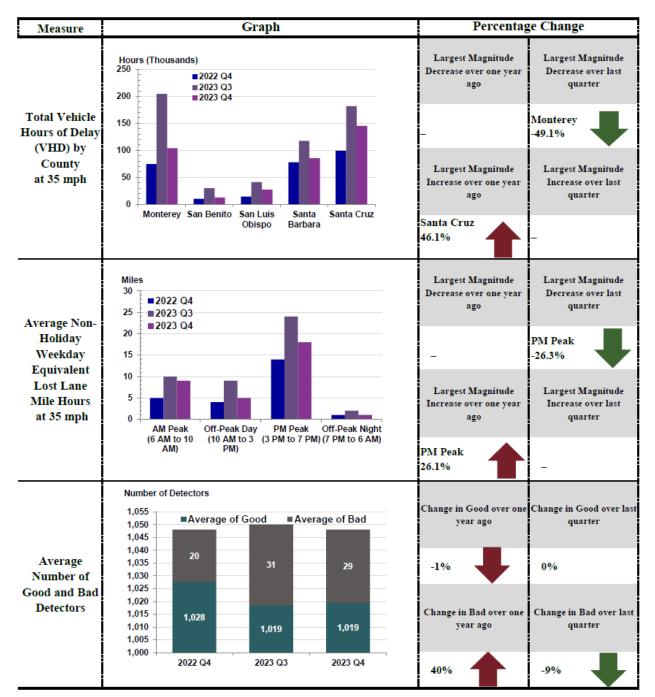
Mobility Performance Report | 1/16/2024

4



District 05

5



Mobility Performance Report | 1/16/2024

Congestion by Route											
		Vehicle Hours of Delay at 35 mph			Difference 2023 Q4-2022 Q4		Difference 2023 Q4-2023 Q3		Rank		
Route	County	2022 Q4	2023 Q3	2023 Q4	Absolute	Percentage	Absolute	Percentage	2022 Q4	2023 Q3	2023 Q4
SR1	Santa Cruz	95,259	158,480	131,980	36,721	38.5%	-26,500	-16.7%	1	1	1
US101	Santa Barbara	77,813	117,528	85,577	7,764	10.0%	-31,951	-27.2%	2	3	2
SR1	Monterey	44,087	135,525	64,891	20,804	47.2%	-70,635	-52.1%	3	2	3
US101	San Luis Obis	14,466	41,228	27,264	12,798	88.5%	-13,965	-33.9%	6	4	4
SR68	Monterey	15,874	36,479	24,254	8,380	52.8%	-12,225	-33.5%	4	5	5
US101	Monterey	14,563	32,425	14,920	358	2.5%	-17,505	-54.0%	5	6	6
SR17	Santa Cruz	4,192	23,295	13,341	9,149	218.2%	-9,954	-42.7%	8	8	7
SR156	San Benito	10,295	29,884	12,678	2,383	23.1%	-17,206	-57.6%	7	7	8
Т	OTALS	276,549	574,844	374,905	98,356	35.6%	-199,939	-34.8%			