District 05 Mobility Performance Report

2024 First Quarter

DEPARTMENT OF TRANSPORTATION

June 4, 2024 David Gallego

2024 First 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 1st 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 first quarter, total delay equaled 295,000 vehicle hours of delay (VHD) at the 35 mph speed threshold, and 711,600 VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 4,458 VHD at 35 mph, and 10,338 VHD at 60 mph.

Top Ten Bottlenecks for Quarter 1

								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	61	2.25246	40,474.8	12,090
MON	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	ML	PM	330.075	R79.54	60	2.86333	31,147.5	7,710
SCR	SR1-N	PARK AVE AT HWY 1 SB VDS MLNB NB	ML	AM	363.679	12.338	50	3.638	24,379.5	5,275
MON	SR1-S	SOUTH OF FREMONT BLVD AT HWY 1 N	ML	AM	330.929	R80.46	60	3.64167	23,169.9	4,975
SB	US101-S	OLIVE MILL RD 101 NB VDS MLSB SB	ML	PM	93.295	10.407	54	1.95	17,460.4	5,775
SCR	SR1-S	STATE PARK DR AT HWY 1 NB VDS ML	ML	PM	361.617	10.319	50	2.514	13,814.2	5,150
MON	SR68-E	LAGUNA SECA MAIN ENTRANCE HWY 68	ML	PM	11.238	11.034	61	2.5	9,796.2	10,710
SB	US101-S	HERMOSILLO RD 101 NB VDS MLSB SB	ML	PM	93.968	11.08	50	1.552	8,459.5	2,840
SCR	SR1-N	BAY AVE - PORTER ST AT HWY 1 NB	ML	PM	364.373	13.032	61	0.5	8,409.9	12,210
SCR	SR1-S	RIO DEL MAR BLVD AT HWY 1 NB VDS	ML	PM	360.312	9.0141	29	2.35862	7,973.1	2,550

SPECIAL CIRCUMSTANCE

The performance factor titled Average Vehicle Hours of Delay by Hour of Day at 35 mph on a Sunday/Holiday had a special circumstance in Quarter 1 of 2024 that warrants discussion. The largest absolute increase for Average Vehicle Hours of Delay by Hour of Day at 35 mph on a Sunday/Holiday when comparing Quarter 1 of 2024 to Quarter 4 of 2023 occurred in the 2:00 AM hour. Quarter 4 of 2023 had zero hours of vehicle delay in the 2:00 AM hour while Quarter 4 of 2023 had 0.026667 hours of vehicle delay in the 2:00 AM hour. Because Quarter 4 of 2023 had zero hours of vehicle delay, the calculation for magnitude increase experienced the error of dividing by zero. The only other hour which had an increase for Average Vehicle Hours of Delay by Hour of Day at 35 mph on a Sunday/Holiday when comparing Quarter 1 of 2024 to Quarter 4 of 2023 also had the same error of dividing by zero which was the 0:00 AM hour that had an

absolute increase of 0.00625 hours over Quarter 4 of 2023. Sundays/Holidays in Quarter 1 of 2024 had 18 separate hours where the average hours of vehicle delay decreased between Quarter 4 of 2023 and Quarter 1 of 2024 and 3 separate hours that experienced zero hours of average hours of vehicle delay in Quarter 4 of 2023.

Quarterly Mobility Statistics

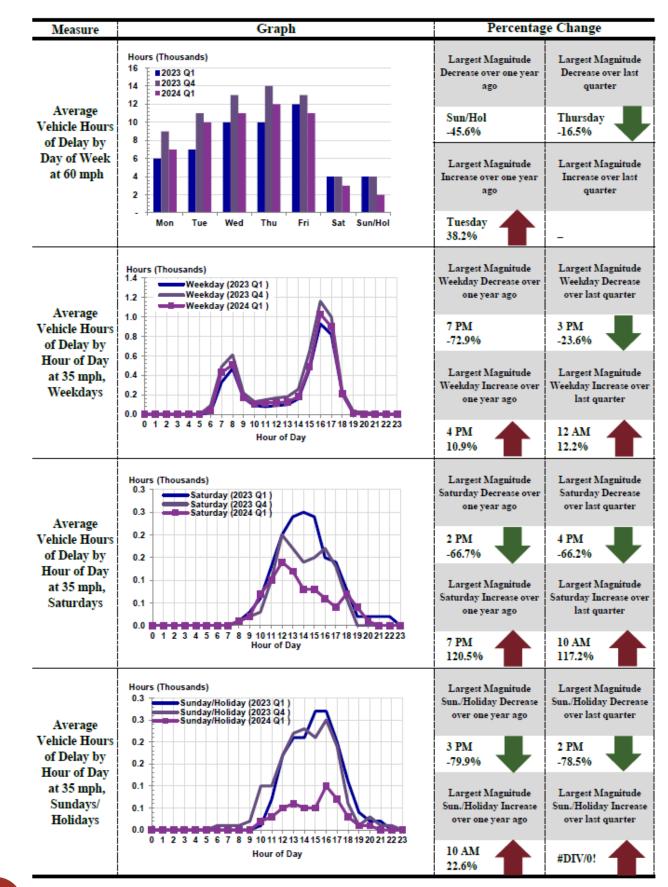
2024 Q-1 Quarterly Mobility Statistics District 5



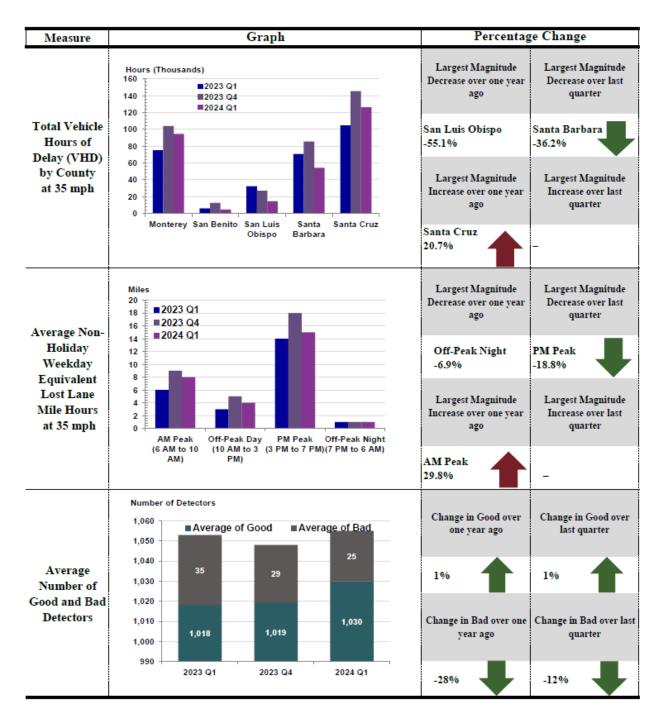
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Congestion by Route											
		Vehicle Hours of Delay at 35 mph				rence I-2023 Q1	Difference 2024 Q1-2023 Q4		Rank		
Route	County	2023 Q1	2023 Q4	2024 Q1	Absolute	Percentage	Absolute	Percentage	2023 Q1	2023 Q4	2024 Q1
SR1	Santa Cruz	101,243	131,980	111,604	10,361	10.2%	-20,376	-15.4%	1	1	1
SR1	Monterey	47,564	64,891	60,035	12,471	26.2%	-4,856	-7.5%	3	3	2
US101	Santa Barbara	70,731	85,577	54,597	-16,134	-22.8%	-30,981	-36.2%	2	2	3
SR68	Monterey	16,991	24,254	22,869	5,878	34.6%	-1,385	-5.7%	5	5	4
SR17	Santa Cruz	3,435	13,341	14,723	11,288	328.6%	1,382	10.4%	8	7	5
US101	San Luis Obis	32,676	27,264	14,425	-18,251	-55.9%	-12,839	-47.1%	4	4	6
US101	Monterey	10,790	14,920	11,721	931	8.6%	-3,200	-21.4%	6	6	7
SR156	San Benito	6,437	12,678	4,833	-1,604	-24.9%	-7,845	-61.9%	7	8	8
SR46	San Luis Obis	0	0	232	232		232				9
TOTALS		289,867	374,905	295,039	5,172	1.8%	-79,866	-21.3%			•