

District 05 Mobility Performance Report

2023 Third Quarter

DEPARTMENT OF TRANSPORTATION

October 24, 2023

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2023 Third 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. Monterey and Santa Cruz were the top two most congested counties in the 3rd 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 third, total delay equaled 574,800 vehicle hours of delay (VHD) at the 35 mph speed threshold, and 1,235,600 VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 7,415 VHD at 35 mph, and 15,515 VHD at 60 mph

Top Ten Bottlenecks for Quarter 3

County	Fwy	Location	Type	Shift	Abs PM	CA PM	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
MON	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	ML	PM	330.075	R79.54	64	3.37031	52,239.0	10,855
MON	SR1-S	SOUTH OF FREMONT BLVD AT HWY 1 N	ML	AM	330.929	R80.46	58	4.29138	30,304.1	5,300
SCR	SR1-S	BAY AVE - PORTER ST AT HWY 1 SB	ML	PM	364.577	13.279	63	1.57937	28,311.7	13,715
SCR	SR1-N	PARK AVE AT HWY 1 SB VDS MLNB NB	ML	AM	363.679	12.338	58	2.56207	25,555.1	6,945
SB	US101-S	SOUTH PADARO LANE VDS MLSB	ML	PM	88.365	5.469	43	3.81163	25,457.7	5,510
SB	US101-S	OLIVE MILL RD 101 NB VDS MLSB SB	ML	PM	93.295	10.407	58	2.23103	19,680.1	5,870
SCR	SR1-S	STATE PARK DR AT HWY 1 NB VDS ML	ML	PM	361.617	10.319	58	2.54483	17,087.2	6,605
SLO	US101-S	SPYGLASS DR 101 SB VDS MLSB SB	ML	PM	193.322	R19.797	64	2.01094	15,147.8	6,850
MON	SR68-E	LAGUNA SECA MAIN ENTRANCE HWY 68	ML	PM	11.238	11.034	64	2.5	12,314.9	12,380
SCR	SR1-S	RIO DEL MAR BLVD AT HWY 1 NB VDS	ML	PM	360.312	9.0141	47	1.88723	10,960.9	4,275

Quarterly Mobility Statistics

Measure	Graph	Percentage Change							
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2022</td><td>1.07</td></tr> <tr><td>2023</td><td>1.07</td></tr> </table>	Year	Q3	2022	1.07	2023	1.07	Over one year ago	Over last quarter
		Year	Q3						
2022	1.07								
2023	1.07								
		-0.3%	4.2%						
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2022</td><td>440.1</td></tr> <tr><td>2023</td><td>574.8</td></tr> </table>	Year	Q3	2022	440.1	2023	574.8	Over one year ago	Over last quarter
		Year	Q3						
2022	440.1								
2023	574.8								
		30.6%	7.8%						
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2022</td><td>5,292</td></tr> <tr><td>2023</td><td>7,415</td></tr> </table>	Year	Q3	2022	5,292	2023	7,415	Over one year ago	Over last quarter
		Year	Q3						
2022	5,292								
2023	7,415								
		40.1%	3%						
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2022</td><td>1.0</td></tr> <tr><td>2023</td><td>1.2</td></tr> </table>	Year	Q3	2022	1.0	2023	1.2	Over one year ago	Over last quarter
		Year	Q3						
2022	1.0								
2023	1.2								
		18.6%	10.8%						
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q3</th></tr> <tr><td>2022</td><td>12</td></tr> <tr><td>2023</td><td>16</td></tr> </table>	Year	Q3	2022	12	2023	16	Over one year ago	Over last quarter
		Year	Q3						
2022	12								
2023	16								
		28%	6.2%						

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		Sun/Hol -10.8% ↓	-
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		Largest Magnitude Weekday Decrease over one year ago	Largest Magnitude Weekday Decrease over last quarter
		7 PM -23.4% ↓	2 PM -8% ↓
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago	Largest Magnitude Saturday Decrease over last quarter
		5 PM -18.7% ↓	6 AM -53.6% ↓
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago	Largest Magnitude Sun./Holiday Decrease over last quarter
		5 PM -24.1% ↓	10 AM -40.7% ↓
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		8 AM 92.5% ↑	8 AM 18.6% ↑
		Largest Magnitude Sunday/Holiday Increase over one year ago	Largest Magnitude Sunday/Holiday Increase over last quarter
		12 PM 31.2% ↑	2 PM 52.8% ↑
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		11 AM 44.8% ↑	3 PM 40.3% ↑

Measure	Graph	Percentage Change	
<p>Total Vehicle Hours of Delay (VHD) by County at 35 mph</p>	<p>Hours (Thousands)</p> <p>■ 2022 Q3 ■ 2023 Q2 ■ 2023 Q3</p>	<p>Largest Magnitude Decrease over one year ago</p>	<p>Largest Magnitude Decrease over last quarter</p>
		<p>—</p>	<p>Santa Cruz -14.3% ↓</p>
		<p>Largest Magnitude Increase over one year ago</p>	<p>Largest Magnitude Increase over last quarter</p>
		<p>Monterey 44.4% ↑</p>	<p>Monterey 40.6% ↑</p>
<p>Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph</p>	<p>Miles</p> <p>■ 2022 Q3 ■ 2023 Q2 ■ 2023 Q3</p> <p>AM Peak (6 AM to 10 AM) Off-Peak Day (10 AM to 3 PM) PM Peak (3 PM to 7 PM) Off-Peak Night (7 PM to 6 AM)</p>	<p>Largest Magnitude Decrease over one year ago</p>	<p>Largest Magnitude Decrease over last quarter</p>
		<p>—</p>	<p>Off-Peak Day -3.2%</p>
		<p>Largest Magnitude Increase over one year ago</p>	<p>Largest Magnitude Increase over last quarter</p>
		<p>AM Peak 88.6% ↑</p>	<p>PM Peak 9.1% ↑</p>
<p>Average Number of Good and Bad Detectors</p>	<p>Number of Detectors</p> <p>■ Average of Good ■ Average of Bad</p> <p>2022 Q3: Good=1,008, Bad=39 2023 Q2: Good=1,030, Bad=20 2023 Q3: Good=1,019, Bad=31</p>	<p>Change in Good over one year ago</p>	<p>Change in Good over last quarter</p>
		<p>1% ↑</p>	<p>-1% ↓</p>
		<p>Change in Bad over one year ago</p>	<p>Change in Bad over last quarter</p>
		<p>-19% ↓</p>	<p>54% ↑</p>

Congestion by Route											
Route	County	Vehicle Hours of Delay at 35 mph			Difference 2023 Q3-2022 Q3		Difference 2023 Q3-2023 Q2		Rank		
		2022 Q3	2023 Q2	2023 Q3	Absolute	Percentage	Absolute	Percentage	2022 Q3	2023 Q2	2023 Q3
SR1	Santa Cruz	164,604	194,440	158,480	-6,124	-3.7%	-35,960	-18.5%	1	1	1
SR1	Monterey	96,479	93,096	135,525	39,046	40.5%	42,429	45.6%	2	3	2
US101	Santa Barbara	85,581	108,011	117,528	31,947	37.3%	9,517	8.8%	3	2	3
US101	San Luis Obis	22,151	39,386	41,228	19,078	86.1%	1,843	4.7%	5	4	4
SR68	Monterey	21,227	30,862	36,479	15,252	71.9%	5,617	18.2%	6	5	5
US101	Monterey	23,852	21,464	32,425	8,573	35.9%	10,962	51.1%	4	7	6
SR156	San Benito	16,756	28,441	29,884	13,128	78.3%	1,443	5.1%	7	6	7
SR17	Santa Cruz	9,401	17,738	23,295	13,894	147.8%	5,557	31.3%	8	8	8
TOTALS		440,051	533,437	574,844	134,793	30.6%	41,407	7.8%			