

# District 05 Mobility Performance Report

2022 Fourth Quarter

**DEPARTMENT OF TRANSPORTATION**

January 6, 2023  
: Sam Toh

2022 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 Santa Barbara are the top two most congested counties in the 4<sup>th</sup> 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 quarter, total delay equaled 276,500 vehicle hours of delay (VHD) at the 35 mph speed threshold, and 669,400 VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 4,022 VHD at 35 mph, and 9,387 VHD at 60 mph.

### Top Ten Bottlenecks for Quarter 4

County	Fwy	Location	Type	Shift	Abs PM	CA PM	Latitude	Longitude	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (mins)
SCR	SR1-S	BAY AVE - PORTER ST AT HWY 1 SB	ML	PM	364.577	13.279	36.983018	-121.95851	60	2.26667	30526.8	12,010.00
SB	US101-S	SAN YSIDRO RD 101 NB VDS MLSB SB	ML	PM	92.928	10.04	34.422455	-119.632021	58	2.61207	14148.3	5,130.00
MON	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	ML	PM	330.075	R79.54	36.611936	-121.85503	56	2.42143	12205.1	6,325.00
SCR	SR1-S	STATE PARK DR AT HWY 1 NB VDS ML	ML	PM	361.617	10.319	36.976222	-121.907143	52	2.61923	8831	6,015.00
SCR	SR1-N	PARK AVE AT HWY 1 SB VDS MLNB NB	ML	AM	363.679	12.338	36.98406	-121.941535	39	3.95385	8321.5	3,500.00
SB	US101-S	HWY 150 AT 101 NB VDS MLSB SB	ML	PM	83.993	0.957	34.385615	-119.489724	18	1.44444	7149.8	2,170.00
SCR	SR1-N	BAY AVE - PORTER ST AT HWY 1 NB	ML	PM	364.373	13.032	36.983544	-121.954147	61	0.5	5480.4	12,105.00
MON	SR1-S	SOUTH OF FREMONT BLVD AT HWY 1 N	ML	AM	330.929	R80.46	36.622494	-121.845397	48	2.87292	5277.1	3,365.00
MON	SR68-E	LAGUNA SECA MAIN ENTRANCE HWY 68	ML	PM	11.238	11.034	36.570195	-121.759253	61	2.5	4286.9	9,920.00
MON	SR1-N	CARPENTER RD HWY 1 NB VDS MLNB N	ML	PM	324.954	74.419	36.56444	-121.911973	63	1.43333	3820.1	8,050.00

## Quarterly Mobility Statistics

Measure	Graph	Percentage Change							
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2021</td><td>0.91</td></tr> <tr><td>2022</td><td>0.97</td></tr> </table>	Year	Q4	2021	0.91	2022	0.97	Over one year ago	Over last quarter
		Year	Q4						
2021	0.91								
2022	0.97								
		6.7%	-9.1%						
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2021</td><td>401.2</td></tr> <tr><td>2022</td><td>276.5</td></tr> </table>	Year	Q4	2021	401.2	2022	276.5	Over one year ago	Over last quarter
		Year	Q4						
2021	401.2								
2022	276.5								
		-31.1%	-37.2%						
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2021</td><td>5038</td></tr> <tr><td>2022</td><td>4022</td></tr> </table>	Year	Q4	2021	5038	2022	4022	Over one year ago	Over last quarter
		Year	Q4						
2021	5038								
2022	4022								
		-20.2%	-24%						
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2021</td><td>1</td></tr> <tr><td>2022</td><td>0.7</td></tr> </table>	Year	Q4	2021	1	2022	0.7	Over one year ago	Over last quarter
		Year	Q4						
2021	1								
2022	0.7								
		-30.6%	-35.8%						
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q4</th></tr> <tr><td>2021</td><td>11.7</td></tr> <tr><td>2022</td><td>9.4</td></tr> </table>	Year	Q4	2021	11.7	2022	9.4	Over one year ago	Over last quarter
		Year	Q4						
2021	11.7								
2022	9.4								
		-19.7%	-22.5%						

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
		Saturday -63.5% ↓	Sun/Hol -66% ↓
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
		5 PM -18.6% ↓	4 PM -30.4% ↓
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
		2 PM -81.5% ↓	3 PM -82.4% ↓
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
		2 PM -72.8% ↓	2 PM -75.6% ↓
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		8 PM 55.1% ↑	7 AM 17.6% ↑
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		10 AM 26.7% ↑	1 AM 4775% ↑
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		8 PM 144.5% ↑	8 AM 678.7% ↑

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		Santa Barbara -36.6%	Santa Cruz -42.8%
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		PM Peak -19.5%	PM Peak -31.2%
Average Number of Good and Bad Detectors		Change in Good over one year ago	Change in Good over last quarter
		4%	2%
		Change in Bad over one year ago	Change in Bad over last quarter
		-58%	-47%

**Congestion by Route**

Route	County	Vehicle Hours of Delay at 35 mph			Difference 2022 Q4-2021 Q4		Difference 2022 Q4-2022 Q3		Rank		
		2021 Q4	2022 Q3	2022 Q4	Absolute	Percentage	Absolute	Percentage	2021 Q4	2022 Q3	2022 Q4
		SR1	Santa Cruz	130,560	164,604	95,259	-35,301	-27.0%	-69,345	-42.1%	1
US101	Santa Barbara	122,734	85,581	77,813	-44,921	-36.6%	-7,768	-9.1%	2	3	2
SR1	Monterey	53,956	96,479	44,087	-9,870	-18.3%	-52,392	-54.3%	3	2	3
US101	Monterey	17,776	23,852	14,563	-3,213	-18.1%	-9,289	-38.9%	6	4	4
US101	San Luis Obispo	26,120	22,151	14,466	-11,654	-44.6%	-7,684	-34.7%	4	5	5
SR156	San Benito	21,179	16,756	10,295	-10,884	-51.4%	-6,461	-38.6%	5	6	6
SR17	Santa Cruz	11,654	9,401	4,192	-7,462	-64.0%	-5,209	-55.4%	7	7	7
<b>TOTALS</b>		<b>383,979</b>	<b>418,824</b>	<b>260,675</b>	<b>-123,304</b>	<b>-32.1%</b>	<b>-158,149</b>	<b>-37.8%</b>			