

District 05 Mobility Performance Report

2022 Second Quarter

DEPARTMENT OF TRANSPORTATION

July 26, 2022
: Nicholas Zangl

2022 Second 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 2nd 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 second quarter, total delay equaled 419,500 vehicle hours of delay (VHD) at the 35 mph speed threshold, and 1,006,800 VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 5,039 VHD at 35 mph, and 11,770 VHD at 60 mph.

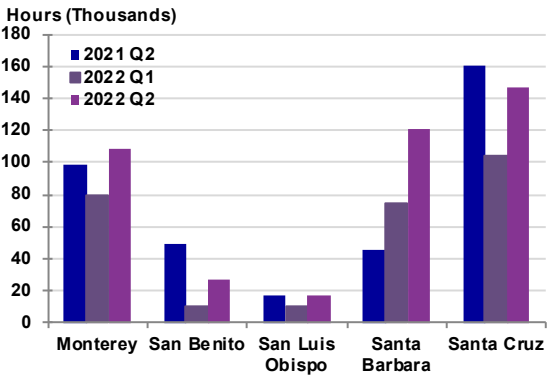
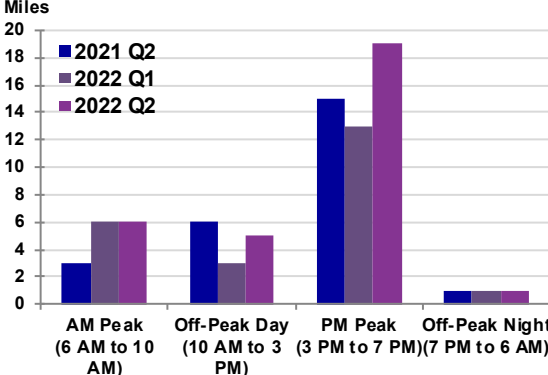
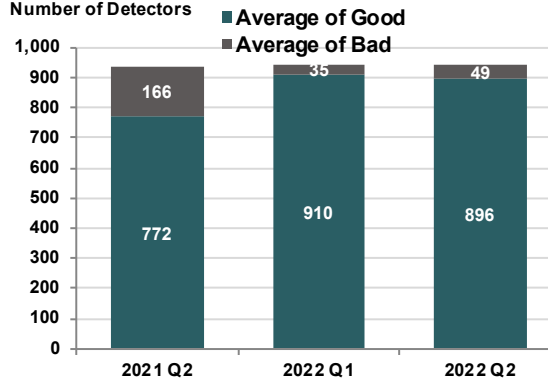
Top Ten Bottlenecks for Quarter 2

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	64	2.20313	33575.2	12885
SB	US101-S	SAN YSIDRO RD 101 NB VDS MLSB SB	ML	PM	92.928	10.04	34.422455	-119.632021	63	2.93492	21523.5	9595
MON	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	ML	PM	330.075	R79.54	36.611936	-121.85503	64	2.64219	19189.7	8570
SCR	SR1-S	700' N of 001 NB Overcrossing	ML	PM	368.508	17.21	36.986035	-122.024092	24	8.4	11822.6	1950
SCR	SR1-S	STATE PARK DR AT HWY 1 NB VDS ML	ML	PM	361.617	10.319	36.976222	-121.907143	61	2.54754	9872.8	7310
SCR	SR1-N	PARK AVE AT HWY 1 SB VDS MLNB NB	ML	AM	363.679	12.338	36.98406	-121.941535	37	4.05676	9026.6	3585
SB	US101-N	BAILARD AVE 101 NB VDS MLNB NB	ML	AM	84.742	R1.819	34.389586	-119.501353	51	1.72353	8178.6	5075
SB	US101-S	SANTA CLAUS LANE 101 SB VDS MLSB	ML	PM	87.528	R4.632	34.405913	-119.543612	53	2.41887	7308.6	6955
MON	SR1-S	SOUTH OF FREMONT BLVD AT HWY 1 N	ML	AM	330.929	R80.46	36.622494	-121.845397	52	3.02115	6605.5	3720
SCR	SR1-N	BAY AVE - PORTER ST AT HWY 1 NB	ML	PM	364.373	13.032	36.983544	-121.954147	64	0.5	6226.1	12980

Quarterly Mobility Statistics

Measure	Graph	Percentage Change									
Vehicle Miles of Travel (VMT)	<p>Miles (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>947.7</td></tr> <tr><td>2022</td><td>890.6</td></tr> <tr><td>2022</td><td>971.1</td></tr> </table>	Year	Q2	2021	947.7	2022	890.6	2022	971.1	Over one year ago	Over last quarter
		Year	Q2								
2021	947.7										
2022	890.6										
2022	971.1										
		2.5%	9%								
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>372.2</td></tr> <tr><td>2022</td><td>278</td></tr> <tr><td>2022</td><td>419.5</td></tr> </table>	Year	Q2	2021	372.2	2022	278	2022	419.5	Over one year ago	Over last quarter
		Year	Q2								
2021	372.2										
2022	278										
2022	419.5										
		12.7%	50.9%								
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>4134</td></tr> <tr><td>2022</td><td>3711</td></tr> <tr><td>2022</td><td>5039</td></tr> </table>	Year	Q2	2021	4134	2022	3711	2022	5039	Over one year ago	Over last quarter
		Year	Q2								
2021	4134										
2022	3711										
2022	5039										
		21.9%	35.8%								
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>0.9</td></tr> <tr><td>2022</td><td>0.7</td></tr> <tr><td>2022</td><td>1</td></tr> </table>	Year	Q2	2021	0.9	2022	0.7	2022	1	Over one year ago	Over last quarter
		Year	Q2								
2021	0.9										
2022	0.7										
2022	1										
		9.3%	42.3%								
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>10</td></tr> <tr><td>2022</td><td>9</td></tr> <tr><td>2022</td><td>12</td></tr> </table>	Year	Q2	2021	10	2022	9	2022	12	Over one year ago	Over last quarter
		Year	Q2								
2021	10										
2022	9										
2022	12										
		17.9%	30.1%								

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 -13.2% ↓	-
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
		12 PM -21.5% ↓	8 AM -10.5% ↓
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
		3 PM -27.9% ↓	6 PM -12.5% ↓
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
		4 PM -14.1% ↓	9 AM -87.5% ↓
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Friday 18.6% ↑	Friday 64.4% ↑
		4 PM 26.6% ↑	4 PM 35.8% ↑
		12 PM 19.4% ↑	12 PM 120.3% ↑
		3 PM 5.4% ↑	1 PM 247.4% ↑

Measure	Graph	Percentage Change	
<p>Total Vehicle Hours of Delay (VHD) by County at 35 mph</p>		<p>Largest Magnitude Decrease over one year ago</p>	<p>Largest Magnitude Decrease over last quarter</p>
		<p>San Benito -44.9% ↓</p>	<p>-</p>
		<p>Largest Magnitude Increase over one year ago</p>	<p>Largest Magnitude Increase over last quarter</p>
		<p>Santa Barbara 163.8% ↑</p>	<p>Santa Barbara 64.1% ↑</p>
<p>Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph</p>		<p>Largest Magnitude Decrease over one year ago</p>	<p>Largest Magnitude Decrease over last quarter</p>
		<p>Off-Peak Day -8.8% ↓</p>	<p>-</p>
		<p>Largest Magnitude Increase over one year ago</p>	<p>Largest Magnitude Increase over last quarter</p>
		<p>PM Peak 25.4% ↑</p>	<p>PM Peak 48.9% ↑</p>
<p>Average Number of Good and Bad Detectors</p>		<p>Change in Good over one year ago</p> <p>16% ↑</p>	<p>Change in Good over last quarter</p> <p>-1% ↓</p>
		<p>Change in Bad over one year ago</p> <p>-71% ↓</p>	<p>Change in Bad over last quarter</p> <p>38% ↑</p>

Congestion by Route

Route	County	Vehicle Hours of Delay at 35 mph			Difference 2022 Q2-2021 Q2		Difference 2022 Q2-2022 Q1		Rank		
		2021 Q2	2022 Q1	2022 Q2	Absolute	Percentage	Absolute	Percentage	2021 Q2	2022 Q1	2022 Q2
		SR1	Santa Cruz	141,136	96,493	137,758	-3,379	-2.4%	41,264	42.8%	1
US101	Santa Barbara	46,014	73,953	121,375	75,361	163.8%	47,422	64.1%	4	2	2
SR1	Monterey	64,020	51,350	73,315	9,295	14.5%	21,966	42.8%	2	3	3
SR156	San Benito	49,459	9,663	27,264	-22,195	-44.9%	17,601	182.1%	3	6	4
US101	Monterey	24,450	10,759	16,686	-7,764	-31.8%	5,927	55.1%	5	4	5
US101	San Luis Obispo	17,502	10,006	16,562	-939	-5.4%	6,556	65.5%	7	5	6
SR17	Santa Cruz	19,009	8,171	8,410	-10,599	-55.8%	239	2.9%	6	7	7
TOTALS		361,589	260,396	401,370	39,781	11.0%	140,974	54.1%			