

# District 05 Mobility Performance Report

2021 Second Quarter

**DEPARTMENT OF TRANSPORTATION**

August 12, 2021  
: Nicholas Zangl

2021 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 Monterey are the top two most congested counties in the 2<sup>nd</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 second quarter, total delay equaled 372,200 vehicle hours of delay (VHD) at the 35 mph speed threshold, and 921,500 VHD at the 60 mph threshold. The average weekday delay experienced in this quarter was approximately 4,134 VHD at 35 mph, and 9,981 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	SOQUEL DR NEXT EXIT SIGN HWY 1 N	ML	PM	365.71	14.41	36.99	-121.98	64	1.63	16,237.10	10,240.00
SCR	SR1-S	STATE PARK DR AT HWY 1 NB VDS ML	ML	PM	361.62	10.319	36.98	-121.91	56	3.36	14,683.40	6,740.00
MON	SR1-N	CANYON DEL REY BLVD AT HWY 1 NB	ML	PM	330.08	79.54	36.61	-121.86	59	1.97	9,485.20	5,555.00
SCR	SR1-S	BAY AVE - PORTER ST AT HWY 1 SB	ML	PM	364.58	13.279	36.98	-121.96	63	0.65	8,367.10	7,385.00
MON	SR1-N	CARPENTER RD HWY 1 NB VDS MLNB N	ML	PM	324.95	74.419	36.56	-121.91	64	1.48	7,814.40	9,895.00
SCR	SR1-S	700' N of 001 NB Overcrossing	ML	PM	368.51	17.21	36.99	-122.02	11	8.40	7,520.50	975.00
SBT	SR156-E	WEST OF MITCHELL RD ON HWY 156 W	ML	PM	13.29	6.918	36.84	-121.46	61	4.30	6,664.00	5,865.00
SBT	SR156-W	BUSINESS RTE 156 ON HWY 156 WB V	ML	PM	13.93	7.564	36.85	-121.45	50	2.60	4,949.00	4,195.00
SCR	SR1-S	PARK AVE AT HWY 1 NB VDS MLSB SB	ML	PM	363.18	11.88	36.98	-121.93	63	1.68	4,840.30	3,800.00
SB	US101-S	CABRILLO BLVD SB 101 PM 94.57 VD	ML	PM	94.55	11.662	34.42	-119.66	64	0.30	4,048.90	14,025.00

## Quarterly Mobility Statistics

Measure	Graph	Percentage Change									
Vehicle Miles of Travel (VMT)	<p>Miles (Millions)</p> <table border="1"> <tr><th>Quarter</th><th>VMT (Millions)</th></tr> <tr><td>2020 Q2</td><td>694.9</td></tr> <tr><td>2021 Q1</td><td>816.7</td></tr> <tr><td>2021 Q2</td><td>947.7</td></tr> </table>	Quarter	VMT (Millions)	2020 Q2	694.9	2021 Q1	816.7	2021 Q2	947.7	Over one year ago	Over last quarter
		Quarter	VMT (Millions)								
2020 Q2	694.9										
2021 Q1	816.7										
2021 Q2	947.7										
		36.4%	16%								
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Quarter</th><th>VHD (Thousands)</th></tr> <tr><td>2020 Q2</td><td>119.4</td></tr> <tr><td>2021 Q1</td><td>151.7</td></tr> <tr><td>2021 Q2</td><td>372.2</td></tr> </table>	Quarter	VHD (Thousands)	2020 Q2	119.4	2021 Q1	151.7	2021 Q2	372.2	Over one year ago	Over last quarter
		Quarter	VHD (Thousands)								
2020 Q2	119.4										
2021 Q1	151.7										
2021 Q2	372.2										
		211.7%	145.4%								
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours</p> <table border="1"> <tr><th>Quarter</th><th>VHD (Hours)</th></tr> <tr><td>2020 Q2</td><td>1477</td></tr> <tr><td>2021 Q1</td><td>1641</td></tr> <tr><td>2021 Q2</td><td>4134</td></tr> </table>	Quarter	VHD (Hours)	2020 Q2	1477	2021 Q1	1641	2021 Q2	4134	Over one year ago	Over last quarter
		Quarter	VHD (Hours)								
2020 Q2	1477										
2021 Q1	1641										
2021 Q2	4134										
		179.9%	152%								
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Quarter</th><th>VHD (Thousands)</th></tr> <tr><td>2020 Q2</td><td>247.3</td></tr> <tr><td>2021 Q1</td><td>436.7</td></tr> <tr><td>2021 Q2</td><td>921.5</td></tr> </table>	Quarter	VHD (Thousands)	2020 Q2	247.3	2021 Q1	436.7	2021 Q2	921.5	Over one year ago	Over last quarter
		Quarter	VHD (Thousands)								
2020 Q2	247.3										
2021 Q1	436.7										
2021 Q2	921.5										
		272.6%	111%								
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours</p> <table border="1"> <tr><th>Quarter</th><th>VHD (Hours)</th></tr> <tr><td>2020 Q2</td><td>3030</td></tr> <tr><td>2021 Q1</td><td>4782</td></tr> <tr><td>2021 Q2</td><td>9981</td></tr> </table>	Quarter	VHD (Hours)	2020 Q2	3030	2021 Q1	4782	2021 Q2	9981	Over one year ago	Over last quarter
		Quarter	VHD (Hours)								
2020 Q2	3030										
2021 Q1	4782										
2021 Q2	9981										
		229.4%	108.7%								

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
		-	-
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Sun/Hol 713.6% ↑	Friday 121.3% ↑
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 AM -35.7% ↓	12 AM -71.8% ↓
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		4 PM 257.1% ↑	4 PM 126.5% ↑
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
		9 AM -46.4% ↓	9 AM -49.5% ↓
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		3 PM 252.8% ↑	3 PM 143.2% ↑
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
		11 PM -89.5% ↓	11 PM -91.2% ↓
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		4 PM 2021.1% ↑	2 PM 127.7% ↑

Measure	Graph	Percentage Change			
<b>Total Vehicle Hours of Delay (VHD) by County at 35 mph</b>		<b>Largest Magnitude Decrease over one year ago</b>	<b>Largest Magnitude Decrease over last quarter</b>		
		-	-		
		<b>Largest Magnitude Increase over one year ago</b>	<b>Largest Magnitude Increase over last quarter</b>		
<b>Santa Cruz 125.9%</b>		<b>Santa Cruz 138.6%</b>			
<b>Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph</b>		<b>Largest Magnitude Decrease over one year ago</b>	<b>Largest Magnitude Decrease over last quarter</b>		
		-	-		
		<b>Largest Magnitude Increase over one year ago</b>	<b>Largest Magnitude Increase over last quarter</b>		
<b>PM Peak 290.6%</b>		<b>PM Peak 142.4%</b>			
<b>Average Number of Good and Bad Detectors</b>		<b>Change in Good over one year ago</b>	<b>Change in Good over last quarter</b>		
		6%		4%	
		<b>Change in Bad over one year ago</b>	<b>Change in Bad over last quarter</b>		
<b>3%</b>		<b>-1%</b>			

**Congestion by Route**

Route	County	Vehicle Hours of Delay at 35 mph			Difference 2021 Q2-2020 Q2		Difference 2021 Q2-2021 Q1		Rank		
		2020 Q2	2021 Q1	2021 Q2	Absolute	Percentage	Absolute	Percentage	2020 Q2	2021 Q1	2021 Q2
		SR1	Santa Cruz	32,095	54,571	141,136	109,041	339.7%	86,565	158.6%	2
SR1	Monterey	11,034	24,825	64,020	52,986	480.2%	39,195	157.9%	4	3	2
SR156	San Benito	8,750	5,520	49,459	40,709	465.3%	43,938	795.9%	5	7	3
US101	Santa Barbara	16,168	33,493	46,014	29,845	184.6%	12,520	37.4%	3	2	4
US101	Monterey	5,770	5,799	24,450	18,680	323.7%	18,651	321.6%	6	6	5
SR17	Santa Cruz	38,799	12,535	19,009	-19,790	-51.0%	6,473	51.6%	1	4	6
US101	San Luis Obispo	4,167	10,185	17,502	13,335	320.1%	7,317	71.8%	7	5	7
SR68	Monterey	2,622	4,761	10,633	8,011	305.6%	5,871	123.3%	8	8	8
<b>TOTALS</b>		<b>119,405</b>	<b>151,690</b>	<b>372,221</b>	<b>252,817</b>	<b>211.7%</b>	<b>220,531</b>	<b>145.4%</b>			