District 04 Mobility Performance Report

2018 First Quarter

DEPARTMENT OF TRANSPORTATION

June 19, 2018 District 4-Office of Highway Operations

District 04 Mobility Performance Report

2018 First Quarter

EXECUTIVE SUMMARY

Overview

Caltrans District 4 is comprised of nine counties that border the San Francisco Bay:

Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and

Sonoma Counties. Although these are urban counties, they do contain a large amount of sparsely populated land.

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)
- 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 9.7 million VHD at the 35 mph speed threshold, and 18.9 million VHD at the 60 mph threshold. Compared to the same quarter the year before, there was an 2.3% increase in 35 mph total quarterly delay and 1.5% increase in 60 mph total quarterly delay. This increase may be due to the recovering economy and also a 4% increase in good working detector that were able to capture more congestion.

The average weekday delay experienced in this quarter was approximately 131 thousand VHD at 35 mph, and 260 thousand VHD at 60 mph. Thursday was the most congested day of the week.

Alameda County with 3.6 million vehicle hours of total delay at 35 mph during the first quarter was the most congested county in the District.

Santa Clara County with 2.4 million vehicle hours of total delay at 35 mph was second most congested county in the District.

Quarterly Mobility Statistics





Congestion by Route											
Route	County	Vehicle Hours of Delay at 35 mph 2017 Q1 2017 Q4 2018 Q1			Difference 2018 Q1-2017 Q1 Absolute Percentage		Difference 2018 Q1-2017 Q4 Absolute Percentage		Rank 2017 Q1 2017 Q4 2018 Q1		
180	Alameda	1014194.8	1240545.9	1053255.8	39061	4%	(187,290)	-15%	1	1	1
1880	Alameda	884048.4	1096135.6	953024.9	68976.5	8%	(143,111)	-13%	2	2	2
US101	Santa Clara	732845.3	809861.9	710969.3	-21876	-3%	(98,893)	-12%	3	3	3
1580	Alameda	601753.6	718864.6	592551.2	-9202.4	-2%	(126,313)	-18%	4		
1280	Santa Clara	437767.1	625236.2	461685.6	23918.5	5%	(163,551)	-26%	6		5
US101	Sonoma	351158.2	0	432907.2	81749	23%	432,907	-2070	9		6
SR85	Santa Clara	432397	565166.1	432307.2	-16599.8	-4%	(149,369)	-26%	7	6	7
US101	San Mateo	531250.8	515217.9	409359.2	-121891.6	-23%	(105,859)	-21%	5	7	
SR24	Contra Costa	306033.5	396844.6	332273.8	26240.3	9%	(64,571)	-16%	11	8	9
SR84	Alameda	209805.5	283378.8	305162.3	95356.8	45%	21,784	8%	16	13	10
US101	San Francisco	281729.1	304303.3	287680.5	5951.4	2%	(16,623)	-5%	15	10	11
1680	Contra Costa	291079.5	371316.2	267663.6	-23415.9	-8%	(103,653)	-28%	14	9	12
SR4	Contra Costa	299832.2	290156	256493.1	-43339.1	-14%	(33,663)	-12%	13	11	13
SR237	Santa Clara	189260.2	288733.7	251365.3	62105.1	33%	(37,368)	-13%	18	12	14
1680	Alameda	309598	270154.8	248764.7	-60833.3	-20%	(21,390)	-8%	10	15	15
180	Contra Costa	303118.9	281636	212116.5	-91002.4	-30%	(69,520)	-25%	12	14	16
SR12	Solano	38392	0	210707.2	172315.2	449%	210,707	-2370	34	14	17
180	San Francisco	374423.1	220919.2	207406.4	-167016.7	-45%	(13,513)	-6%	8	19	18
SR92	San Mateo	156858.7	238957.6	206993.9	50135.2	32%	(31,964)	-13%	21	17	19
1880	Santa Clara	133806.8	228893.2	187655.9	53849.1	40%	(41,237)	-18%	23	18	20
1280	San Mateo	208442.5	155381.7	182483.2	-25959.3	-12%	27,102	17%	17	22	21
SR92	Alameda	169641.5	192339.9	154790.8	-14850.7	-9%	(37,549)	-20%	19	20	22
1680	Santa Clara	155464.2	254327.5	134790.8	-10687.2	-7%	(109,551)	-43%	22	16	23
180	Solano	102996.1	0	143723.3	40727.2	40%	143,723	-4570	25	10	24
SR238	Alameda	119281.3	138411.1	134431.7	15150.4	13%	(3,979)	-3%	24	23	25
US101	Marin	167742.2	158197.1	132415.4	-35326.8	-21%	(25,782)	-16%	20	21	26
SR37	Solano	77556.9	0	119073.5	41516.6	54%	119,074	-1070	28	21	27
SR24	Alameda	71433.9	112005.7	111157.4	39723.5	56%	(848)	-1%	29	25	28
SR87	Santa Clara	102158.8	110217	93474.4	-8684.4	-9%	(16,743)	-15%	26	26	29
1280	San Francisco	86836.1	83982.9	86236.8	-599.3	-1%	2,254	3%	27	28	30
SR17	Santa Clara	67830.6	96615.3	81008.2	13177.6	19%	(15,607)	-16%	31	27	31
SR152	Santa Clara	31044.4	34653	68047.6	37003.2	119%	33,395	96%	35	30	32
SR242	Contra Costa	61848.2	81304.2	67184.4	5336.2	9%	(14,120)	-17%	32	29	33
SR37	Sonoma	68002.3	0	56293.2	-11709.1	-17%	56,293	-17 70	30	23	34
1580	Contra Costa	56723.5	117833.7	49412.9	-7310.6	-17%	(68,421)	-58%	33	24	35
SR12	Napa Napa	7024.5	27111.3	22793.6	15769.1	224%	(4,318)	-16%	38	31	36
1680	Solano	22784.6	0	22041.9	-742.7	-3%	22,042	-1070	37	31	37
SR37	Marin	30686.8	14845.4	21227.1	-742.7 -9459.7	-31%	6,382	43%	36	33	38
1580	Marin	1910.4	487.6	8445	6534.6	342%	7,957	1632%	41	37	39
1980	Alameda	6769	20886.3	8263.6	1494.6	22%	(12,623)	-60%	39	32	40
SR25	Santa Clara	6081.5	7808.8	4427.6	-1653.9	-27%	(3,381)	-43%	40		41
SR160	Contra Costa	0001.5	2334.7	3374.2	3374.2	-2170	1,040	45%	1	35	42
SR1	San Francisco	0	2114.3	1611.7	1611.7		(503)	-24%		36	43
1780	Solano	0.1	0	760.1	760	760000%	760	-27/0	45	30	44
180	Napa	116	118.8	67.7	-48.3	-42%	(51)	-43%	43	38	45
SR29	Napa	390.3	0.3	2.2	-388.1	-99%	2	633%	42	40	46
1880S	Alameda	0	0.5	0	-300.1	-5570		00070		70	+0
SR13	Alameda	0	0	0	0						
SR156	Santa Clara	12	104.4	0	-12	-100%	(104)	-100%	44	39	
TOTALS	Odrila Olara	9,502,130	10,357,403	9,721,358	219,228	2.3%	-636,045				<u> </u>