# District 04 Mobility Performance Report

2017 Second Quarter

**DEPARTMENT OF TRANSPORTATION** 

June 27, 2018
District 4-Office of Highway Operations

### **District 04 Mobility Performance Report**

## 2017 Second 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)
- o 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**

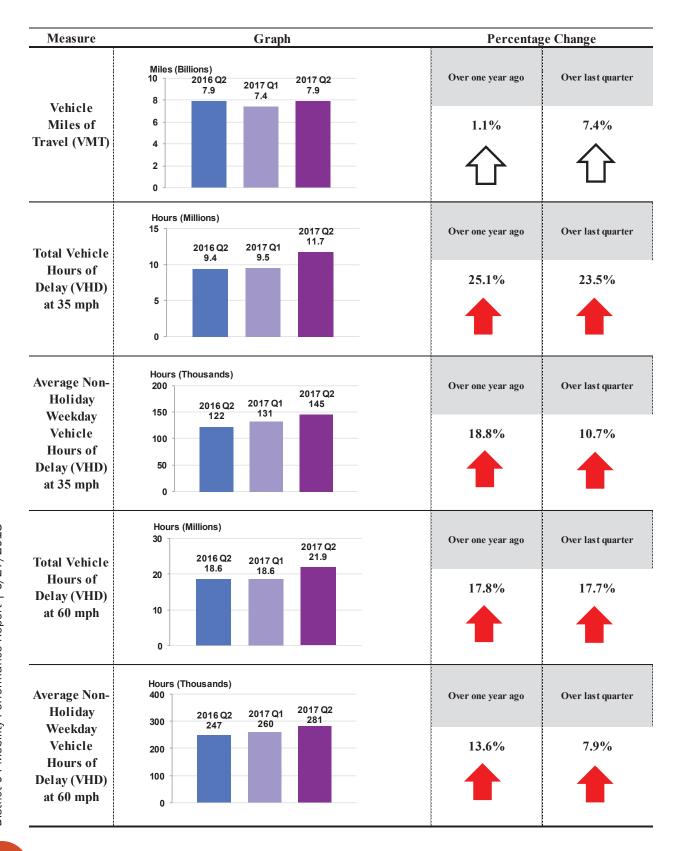
In the second quarter, total delay equaled 11.7 million VHD at the 35 mph speed threshold, and 21.9 million VHD at the 60 mph threshold. Compared to the same quarter the year before, there was an 25.1% increase in 35 mph total quarterly delay and 17.8% increase in 60 mph total quarterly delay. This increase may be due to the recovering economy and also a 19% increase in good working detector that were able to capture more congestion.

The average weekday delay experienced in this quarter was approximately 145 thousand VHD at 35 mph, and 281 thousand VHD at 60 mph. Thursday was the most congested day of the week.

Alameda County with 4.4 million vehicle hours of total delay at 35 mph during the second quarter was the most congested county in the District.

Santa Clara County with 2.6 million vehicle hours of total delay at 35 mph was second most congested county in the District.

# **Quarterly Mobility Statistics**





Congestion by Route											
		Vehicle Hours of Delay at 35 mph			Difference 2017 Q2-2016 Q2		Difference 2017 Q2-2017 Q1		Rank		
Route	County	2016 Q2	2017 Q1	2017 Q2	Absolute	Percentage	Absolute	Percentage	2016 Q2	2017 Q1	2017 Q2
180	Alameda	684974.7	1014194.8	1402013.7	717039	105%	387,819	38%	2	1	1
1880	Alameda	1096851.7	884048.4	1125504	28652.3	3%	241,456	27%	1	2	2
US101	Santa Clara	682464.6	732845.3	748378.1	65913.5	10%	15,533	2%	3	3	3
1580	Alameda	497734.4	601753.6	745254.5	247520.1	50%	143,501	24%	5	4	4
US101	Sonoma	74662.5	351158.2	530500.5	455838	611%	179,342	51%	30	9	5
US101	San Mateo	562681.9	531250.8	460595.4	-102086.5	-18%	(70,655)	-13%	4	5	6
SR85	Santa Clara	479077.2	432397	457144.1	-21933.1	-5%	24,747	6%	6	7	7
1280	Santa Clara	339186.7	437767.1	424482.4	85295.7	25%	(13,285)	-3%	10	6	8
SR24	Contra Costa	329277.8	306033.5	385869.2	56591.4	17%	79,836	26%	11	11	9
180	San Francisco	296046.2	374423.1	351492.7	55446.5	19%	(22,930)	-6%	14	8	10
1680	Alameda	343737.4	309598	337899.1	-5838.3	-2%	28,301	9%	9	10	11
1680	Contra Costa	348674.6	291079.5	333929.9	-14744.7	-4%	42,850	15%	8	14	12
SR4	Contra Costa	435211	299832.2	294374.7	-140836.3	-32%	(5,457)	-2%	7	13	13
SR84	Alameda	282307.5	209805.5	293707.2	11399.7	4%	83,902	40%	15	16	14
180	Contra Costa	309067.4	303118.9	287932.8	-21134.6	-7%	(15,186)	-5%	13	12	15
SR17	Santa Clara	131713.4	67830.6	284038.4	152325	116%	216,208	319%	24	31	16
US101	San Francisco	314618.8	281729.1	281893.8	-32725	-10%	165	0%	12	15	17
SR92	San Mateo	228927.9	156858.7	276944.8	48016.9	21%	120,086	77%	17	21	18
1280	San Mateo	150906.9	208442.5	267667.6	116760.7	77%	59.225	28%	21	17	19
SR238	Alameda	155555.1	119281.3	239152.9	83597.8	54%	119,872	100%	19	24	20
	1	266254.4	167742.2				55.172				21
US101	Marin			222913.9	-43340.5	-16%	,	33%	16	20	
SR237	Santa Clara	153551.6	189260.2	214705.2	61153.6	40%	25,445	13%	20	18	22
1680	Santa Clara	113765.9	155464.2	211414	97648.1	86%	55,950	36%	25	22	23
180	Solano	209780.9	102996.1	206599.5	-3181.4	-2%	103,603	101%	18	25	24
SR37	Solano	7235.2	77556.9	195959.4	188724.2	2608%	118,403	153%	36	28	25
SR37	Sonoma	106420.1	68002.3	169241.3	62821.2	59%	101,239	149%	26	30	26
1880	Santa Clara	142561.3	133806.8	157392.9	14831.6	10%	23,586	18%	22	23	27
SR92	Alameda	135741.6	169641.5	150863.4	15121.8	11%	(18,778)	-11%	23	19	28
SR87	Santa Clara	89336.9	102158.8	111226.4	21889.5	25%	9,068	9%	28	26	29
1580	Contra Costa	53498.2	56723.5	102907.6	49409.4	92%	46,184	81%	33	33	30
SR24	Alameda	80813.2	71433.9	100728.3	19915.1	25%	29,294	41%	29	29	31
SR12	Solano	91380.1	38392	74324	-17056.1	-19%	35,932	94%	27	34	32
1280	San Francisco	70814.5	86836.1	70530.2	-284.3	0%	(16,306)	-19%	31	27	33
SR242	Contra Costa	29745.2	61848.2	66967	37221.8	125%	5,119	8%	34	32	34
SR37	Marin	54562.2	30686.8	57980	3417.8	6%	27,293	89%	32	36	35
1680	Solano	18251.8	22784.6	39269	21017.2	115%	16,484	72%	35	37	36
SR152	Santa Clara	2363.5	31044.4	28680.7	26317.2	1113%	(2,364)	-8%	38	35	37
SR12	Napa	3659.5	7024.5	13083.7	9424.2	258%	6,059	86%	37	38	38
SR25	Santa Clara	1581.9	6081.5	5481.7	3899.8	247%	(600)	-10%	40	40	39
SR29	Napa	232.5	390.3	2580.9	2348.4	1010%	2,191	561%	42	42	40
SR1	San Francisco	0	0	2110.3	2110.3		2,110				41
1980	Alameda	1639.1	6769	1400.1	-239	-15%	(5,369)	-79%	39	39	42
1780	Solano	58.6	0.1	641.8	583.2	995%	642	641700%	43	45	43
SR160	Contra Costa	0	0	419.2	419.2	00070	419	0.170070	,,	.0	44
SR156	Santa Clara	9.5	12	100.2	90.7	955%	88	735%	44	44	45
180	Napa	7.8	116	57	49.2	631%	(59)	-51%	45	43	46
1580		1042.8	1910.4	46.2	-996.6	-96%	(1,864)	-98%	41	43	47
	Marin San Matao	1				-90%		-90%	41	41	4/
1380	San Mateo	0	0	0	0		-				
1880S	Alameda	0	0	0	0		-				
SR13	Alameda	0 277 096	0 502 120	0	2 259 414	25 10/	1 124 260	22.50/			
TOTALS	<u>l</u>	9,377,986	9,502,130	11,736,400	2,358,414	25.1%	2,234,269	23.5%			