District 04 Mobility Performance Report

2017 Forth Quarter

DEPARTMENT OF TRANSPORTATION

July 6, 2018 District 4-Office of Highway Operations

District 04 Mobility Performance Report

2017 Forth 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

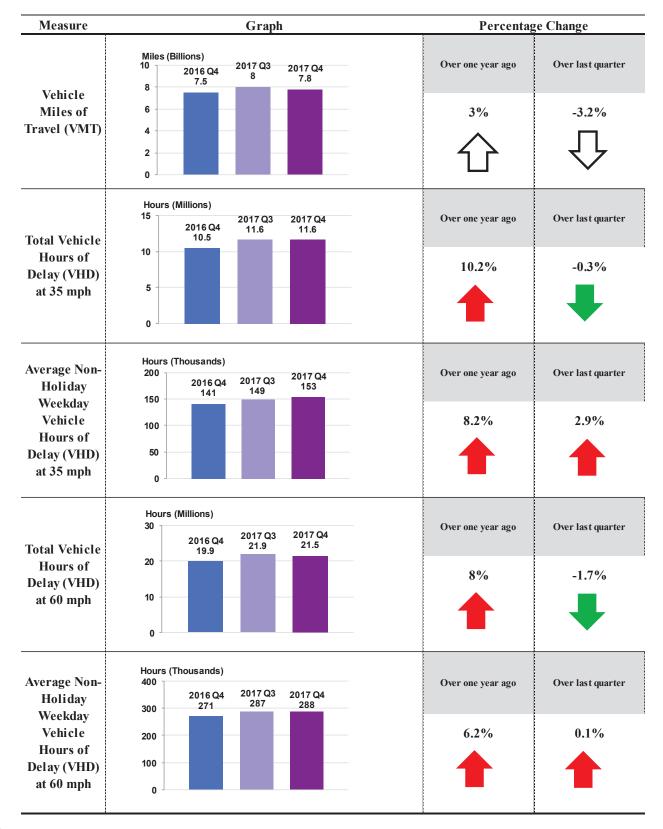
In the forth quarter, total delay equaled 11.6 million VHD at the 35 mph speed threshold, and 21.5 million VHD at the 60 mph threshold. Compared to the same quarter the year before, there was an 10.2% increase in 35 mph total quarterly delay and 8% increase in 60 mph total quarterly delay. This increase may be due to the recovering economy and also a 5% increase in good working detector that were able to capture more congestion.

The average weekday delay experienced in this quarter was approximately 153 thousand VHD at 35 mph, and 288 thousand VHD at 60 mph. Thursday was the most congested day of the week.

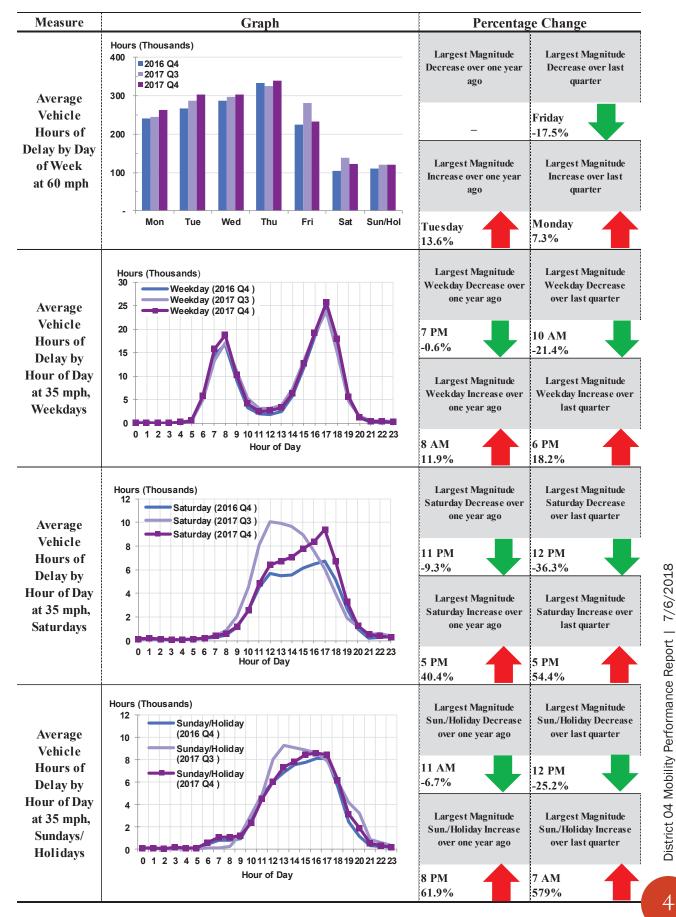
Alameda County with 4.1 million vehicle hours of total delay at 35 mph during the forth quarter was the most congested county in the District.

Santa Clara County with 3.0 million vehicle hours of total delay at 35 mph was second most congested county in the District.

Quarterly Mobility Statistics



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Congestion by Route											
Route	County	Vehicle Hours of Delay at 35 mph			Difference 2017 Q4-2016 Q4		Difference 2017 Q4-2017 Q3		Rank		
		2016 Q4	2017 Q3	2017 Q4	Absolute	Percentage	Absolute	Percentage	2016 Q4	2017 Q3	2017 Q4
180	Alameda	795053.2	1176950.8	1240545.9	445492.7	56%	63,595	5%	2	1	1
1880	Alameda	1149782.9	1083354.8	1096135.6	-53647.3	-5%	12,781	1%	1	2	2
US101	Santa Clara	761614.1	804852.7	809861.9	48247.8	6%	5,009	1%	3	3	3
US101	Sonoma	213242.7	788347.2	722893	509650.3	239%	(65,454)	-8%	19	4	4
1580	Alameda	656312.5	726146.3	718864.6	62552.1	10%	(7,282)	-1%	4	5	5
1280	Santa Clara	485659.1	483530.6	625236.2	139577.1	29%	141.706	29%	6	7	6
SR85	Santa Clara	447586.6	427763	565166.1	117579.5	26%	137,403	32%	7	8	7
US101	San Mateo	607964.5	541847.6	515217.9	-92746.6	-15%	(26,630)	-5%	5	6	8
SR24	Contra Costa	391351.5	316934	396844.6	5493.1	1%	79,911	25%	9	13	9
1680	Contra Costa	408327.9	322149.2	371316.2	-37011.7	-9%	49,167	15%	8	11	10
US101	San Francisco	323733.2	358118.6	304303.3	-19429.9	-6%	(53,815)	-15%	12	9	10
SR4	Contra Costa	286575.3	297691.1	290156	3580.7	1%	(7,535)	-3%	14	14	12
SR237	Santa Clara	245309.8	321076.3	288733.7	43423.9	18%	(32,343)	-10%	17	12	13
SR84	Alameda	243309.8	260115.2	283378.8	65559.2	30%	23,264	- 10 %	17	12	13
180	Contra Costa	326139.9	257626.9	281636	-44503.9	-14%	23,204	9%	10	17	14
1680	Alameda	370355	335140	270154.8	-100200.2	-14%	(64,985)	-19%	10	10	15
1680	Santa Clara	170696.8	233413.7	254327.5	83630.7	-27%	20,914	- 19%	23	20	10
SR92	San Mateo	308340.1	278335.8	238957.6	-69382.5	-23%	(39.378)	-14%	13	16	17
				238957.6			(11)			28	18
1880	Santa Clara	136320.5	138096.9		92572.7	68%	90,796	66%	25		
180	San Francisco	276676.2	286665.6	220919.2	-55757	-20%	(65,746)	-23%	16	15	20
180	Solano	171636.4	252995.8	195575	23938.6	14%	(57,421)	-23%	22	19	21
SR92	Alameda	178816.1	140680.3	192339.9	13523.8	8%	51,660	37%	21	26	22
US101	Marin	280717.8	178750.7	158197.1	-122520.7	-44%	(20,554)	-11%	15	24	23
1280	San Mateo	213233.8	194263.2	155381.7	-57852.1	-27%	(38,882)	-20%	20	23	24
SR238	Alameda	133990.8	160963.5	138411.1	4420.3	3%	(22,552)	-14%	26	25	25
SR37	Solano	148659.5	212598.1	125126.1	-23533.4	-16%	(87,472)	-41%	24	21	26
1580	Contra Costa	91283.8	138708.1	117833.7	26549.9	29%	(20,874)	-15%	29	27	27
SR24	Alameda	72006.6	85248.4	112005.7	39999.1	56%	26,757	31%	31	32	28
SR87	Santa Clara	85545.7	100637.5	110217	24671.3	29%	9,580	10%	30	30	29
SR12	Solano	68945.9	80057.4	101386.4	32440.5	47%	21,329	27%	32	33	30
SR17	Santa Clara	103987.8	201105.9	96615.3	-7372.5	-7%	(104,491)	-52%	28	22	31
1280	San Francisco	68265.9	69358.4	83982.9	15717	23%	14,625	21%	33	34	32
SR242	Contra Costa	67440.3	87874.5	81304.2	13863.9	21%	(6,570)	-7%	34	31	33
SR37	Sonoma	115752.4	118383.2	73478	-42274.4	-37%	(44,905)	-38%	27	29	34
SR152	Santa Clara	24155.2	23431.2	34653	10497.8	43%	11,222	48%	37	37	35
SR12	Napa	5482.6	20353.5	27111.3	21628.7	394%	6,758	33%	39	38	36
1980	Alameda	7818.5	1517	20886.3	13067.8	167%	19,369	1277%	38	42	37
SR37	Marin	53960.3	61091.1	14845.4	-39114.9	-72%	(46,246)	-76%	35	35	38
1680	Solano	39666.6	39507.2	8327.4	-31339.2	-79%	(31,180)	-79%	36	36	39
SR25	Santa Clara	4837	9900.5	7808.8	2971.8	61%	(2,092)	-21%	40	39	40
SR160	Contra Costa	0	2464.3	2334.7	2334.7		(130)	-5%		41	41
SR1	San Francisco	0	3040.3	2114.3	2114.3		(926)	-30%		40	42
1780	Solano	0	84.5	601.3	601.3		517	612%		46	43
1580	Marin	1308.6	398.1	487.6	-821	-63%	90	22%	41	43	44
180	Napa	485.7	202.5	118.8	-366.9	-76%	(84)	-41%	42	45	45
SR156	Santa Clara	51.2	306.4	104.4	53.2	104%	(202)	-66%	44	44	46
SR29	Napa	73.5	6.2	0.3	-73.2	-100%	(6)	-95%	43	47	47
1380	San Mateo	0	0.2	0.5	-73.2	10070	- (0)	5570		71	71
1880S	Alameda	0	0	0	0		-				
SR13	Alameda	0	0	0	0		-				
TOTALS	Mailleua	10,516,983	11,622,084	-	1,067,806	10.2%	-37,294	-0.3%			