CALIFORNIA DEPARTMENT OF TRANSPORTATION

MOBILITY PERFORMANCE STATISTICS 2012

DISTRICT 10

Prepared by the

District 10

January 2014

TABLE OF CONTENTS

TABLES

FIGURES

1. DESCRIPTIVE STATISTICS

District Headquarters: Stockton
Counties: Amador, Calaveras, Mariposa, Merced, San Joaquin, Stanislaus, Tuolumne
Counties without Detection: Alpine

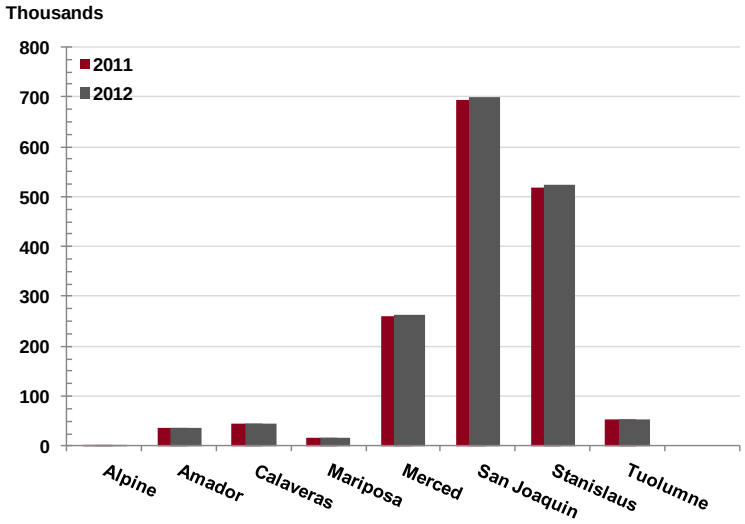
Population: 1,640,162, 0.7% increase
Population as a Percentage of Statewide: 4.3%

Table 1. POPULATION ESTIMATES & ABSOLUTE & PERCENT CHANGE, 2011-2012

County	2011 Population	2012 Population	Difference (2012 - 2011) Absolute	Percent
Alpine	1,088	1,087	-1	-0.1%
Amador	37,123	36,741	-382	-1.0%
Calaveras	45,216	44,932	-284	-0.6%
Mariposa	17,952	18,026	74	0.4%
Merced	260,029	262,478	2,449	0.9%
San Joaquin	692,997	698,414	5,417	0.8%
Stanislaus	519,339	524,124	4,785	0.9%
Tuolumne	54,524	54,360	-164	-0.3%
Total	**1,628,268**	**1,640,162**	**11,894**	**0.7%**

Alpine County does not participate in mobility performance reporting.
Source: State of California, Department of Finance, E-1 Population Estimates for Cities, Counties, and the State—January 1, 2012 and 2013. Sacramento, California, May 2013.

Figure 1. POPULATION, BY COUNTY, 2011-2012



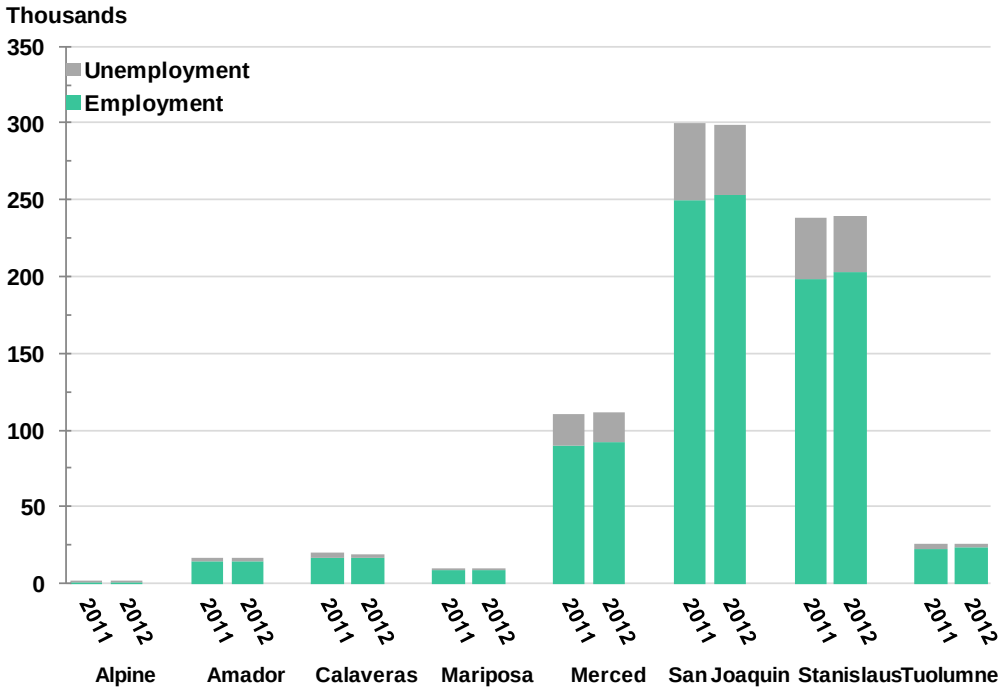
Employment, 2012 Monthly Average: 612,068
Unemployment Rate, 2012 Monthly Average: 15.1%, 1.5% decrease over 2011

Table 2. EMPLOYMENT, UNEMPLOYMENT, AND PERCENT CHANGE, BY COUNTY, 2011-2012

County	Unemployment Rate, 2011	Unemployment Rate, 2012	Percent Change in Rate of Unemployment (2012 - 2011)
Alpine	14.9%	13.2%	-1.7%
Amador	12.8%	11.8%	-1.0%
Calaveras	14.6%	13.0%	-1.6%
Mariposa	11.9%	11.0%	-0.9%
Merced	18.3%	17.0%	-1.3%
San Joaquin	16.8%	15.2%	-1.7%
Stanislaus	16.7%	15.2%	-1.6%
Tuolumne	13.0%	11.6%	-1.3%
District Total	**16.7%**	**15.1%**	**-1.5%**

Alpine County does not participate in mobility performance reporting.
Data not seasonally adjusted.
Source: State of California, Employment Development Department (EDD), Labor Market Information Division; data downloaded Sept. 9, 2013.

Figure 2. EMPLOYMENT AND UNEMPLOYMENT, BY COUNTY, 2011-2012

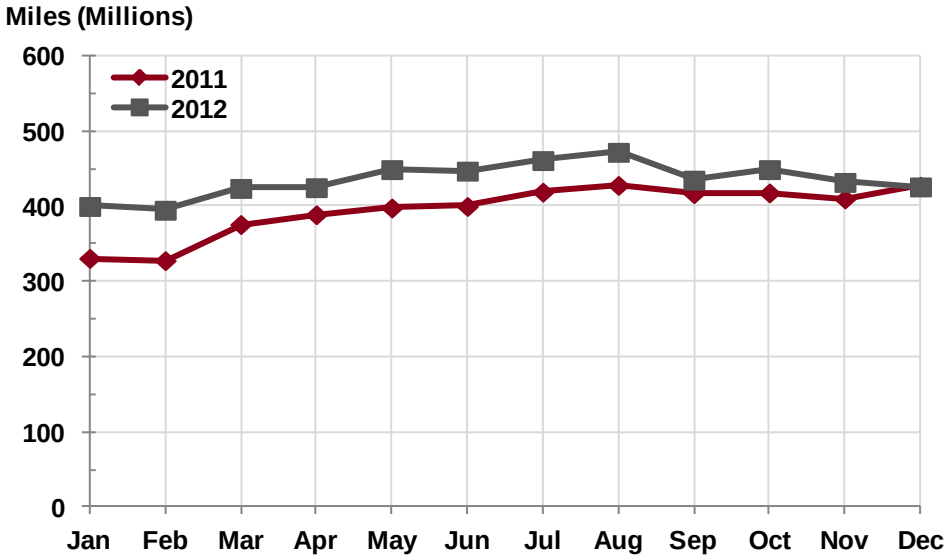


2. TRAVEL DEMAND

Vehicle Miles of Travel, 2012:	5.2 billion miles
Absolute and Percentage Change over 2011:	472.6 million VMT increase; 10% increase over 2011
Peak Travel Month, Percentage Change over 2011:	August, 471.7 million miles, 10.3% increase over 2011

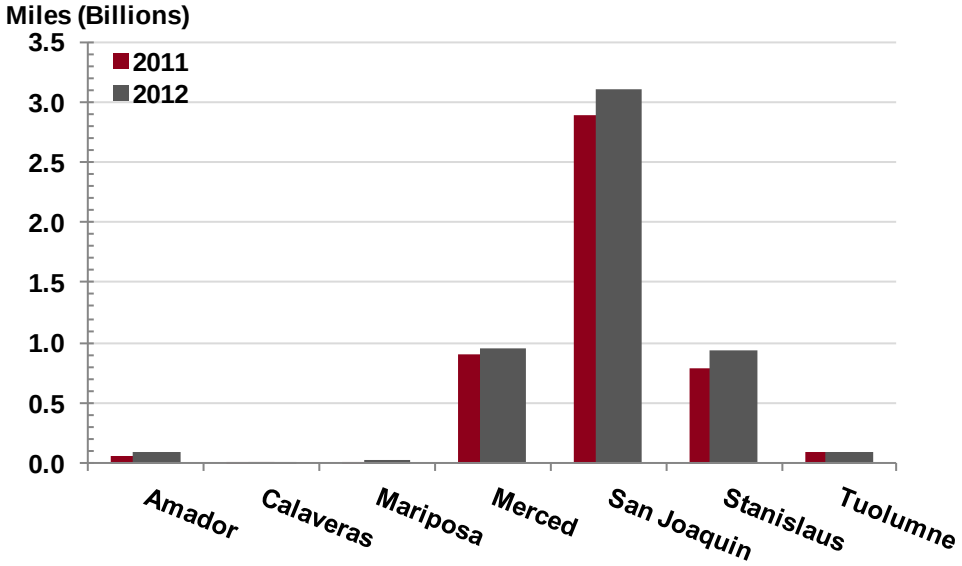
Monthly Trend

Figure 3 (a). TOTAL VEHICLE MILES OF TRAVEL,BY MONTH, 2011-2012



County Trend

Figure 3 (b). TOTAL VEHICLE MILES OF TRAVEL, BY COUNTY, 2011-2012



3. TRAFFIC CONGESTION

3.1. Total and Average Vehicle Hours of Delay at 35 and 60 Miles per Hour

3.1.1 Delay at 35 Miles per Hour

Vehicle Hours of Delay, 35 miles per hour: 1.5 million hours, 13.3% increase over 2011
Average Non-Holiday Weekday Delay, 35: 4,867 hours, 8.9% increase over 2011
Percentage of Statewide VHD at 35mph: 1.6%, 0.1% increase over 2011

Figure 4. TOTAL VEHICLE HOURS OF DELAY AT 35 MILES PER HOUR, BY MONTH, 2011-2012

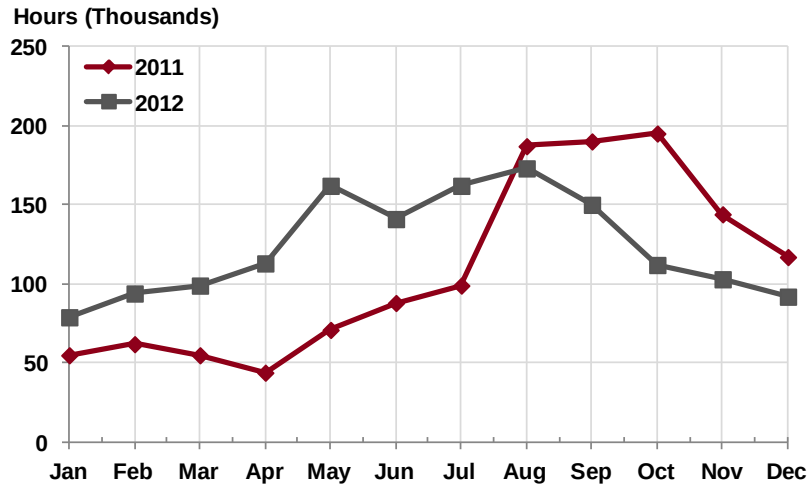
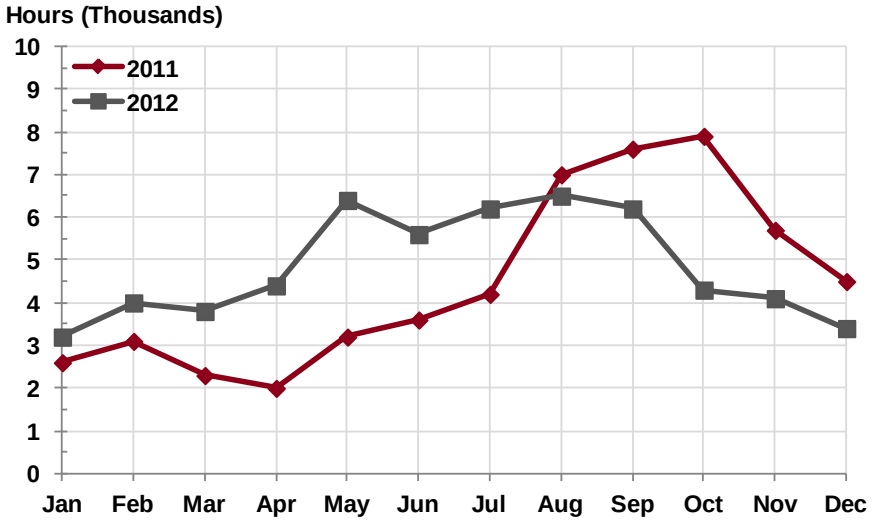


Figure 5. AVERAGE NON-HOLIDAY WEEKDAY VEHICLE HOURS OF DELAY AT 35 MILES PER HOUR, BY MONTH, 2011-2012



3.1.2 Delay at 60 Miles per Hour

Vehicle Hours of Delay, 60 miles per hour:	5.5 million hours, 12.2% increase over 2011
Average Non-Holiday Weekday Delay, 60:	18,203 hours, 8% increase over 2011
Percentage of Statewide VHD at 60mph:	2.5%, 0.1% increase over 2011

Figure 6. TOTAL VEHICLE HOURS OF DELAY AT 60 MILES PER HOUR, BY MONTH, 2011-2012

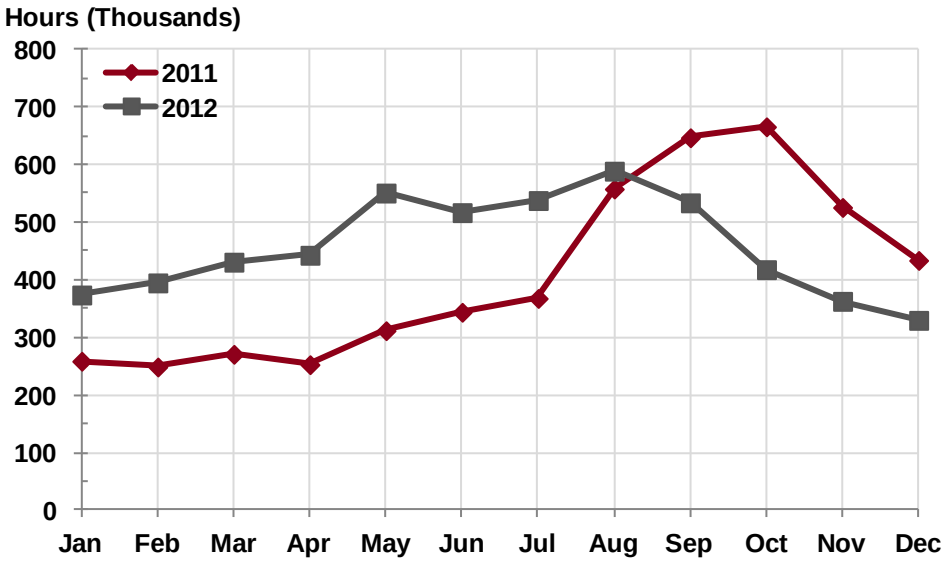
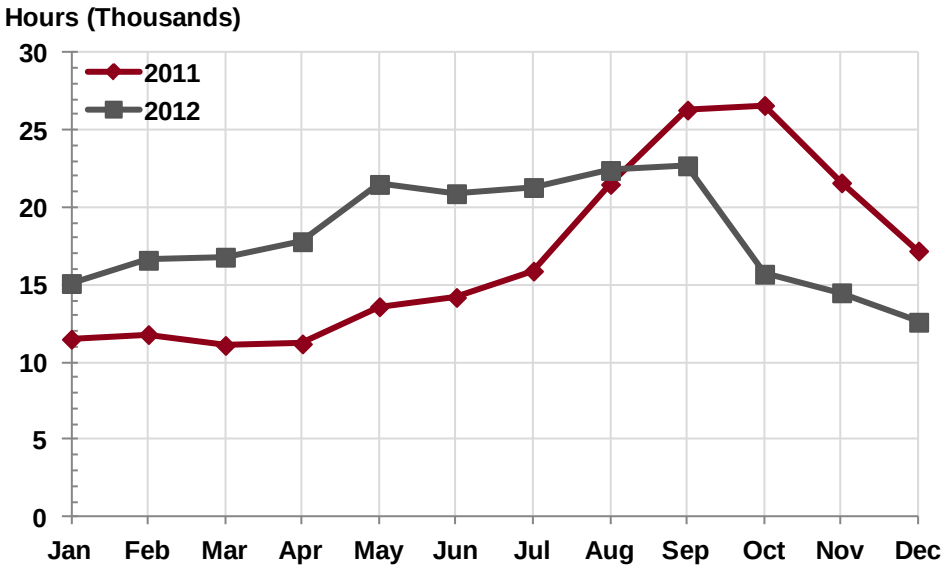


Figure 7. AVERAGE NON-HOLIDAY WEEKDAY VEHICLE HOURS OF DELAY AT 60 MILES PER HOUR, BY MONTH, 2011-2012

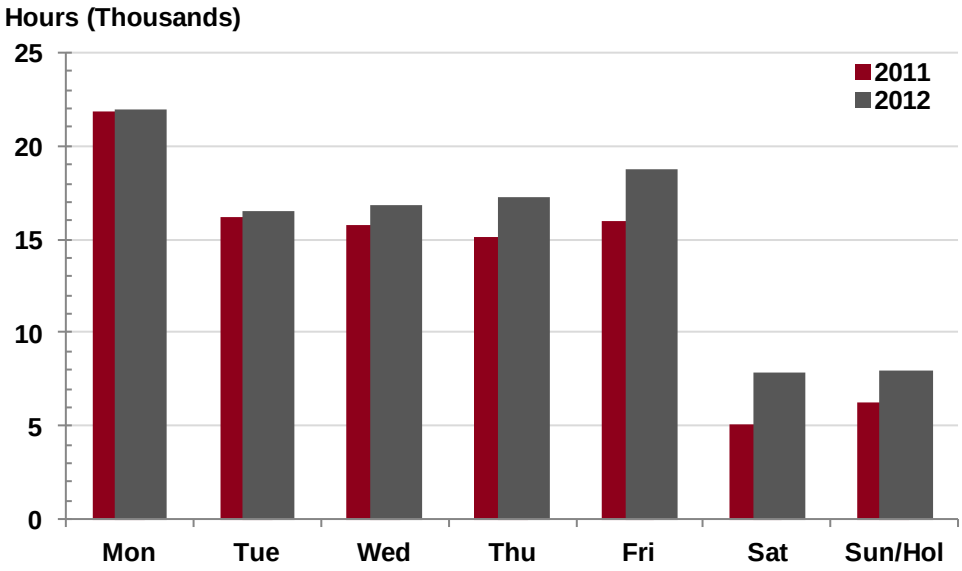


3.2. Average Vehicle Hours of Delay by Day of Week

Most Congested Day of the Week, 60 mph:	Monday, 22,041 hours, 1% increase over 2011
Highest Absolute Change in Delay, 60mph:	Saturday, 2,749 VHD increase, 54% increase over 2011
Highest Percentage Change in Delay	Saturday, 2,749 VHD increase, 54% increase over 2011

Delay at 60 miles per hour

Figure 8: AVERAGE VEHICLE HOURS OF DELAY AT 60 MILES PER HOUR, BY DAY OF WEEK, 2011-2012



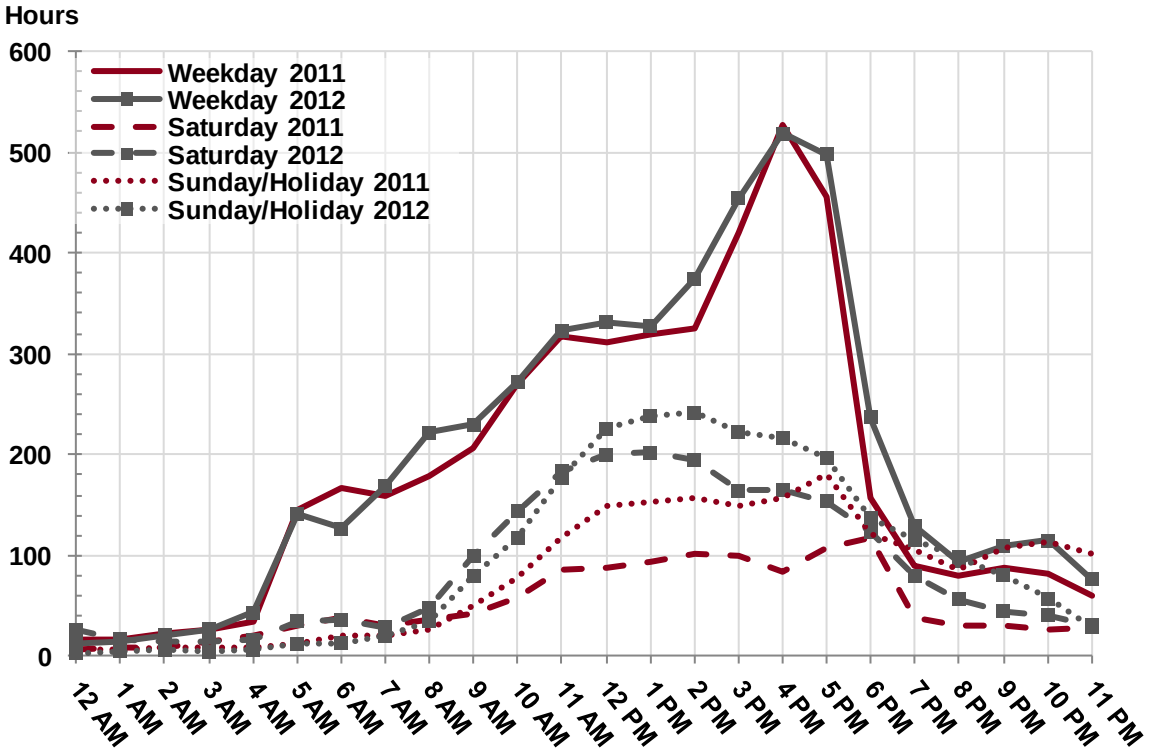
3.3. Average Vehicle Hours of Delay by Hour of Day

3.3.1 Delay at 35 Miles per Hour

Weekday PM Peak Hour, 35 mph:	4 PM, 518 hours, 2% decrease over 2011
Weekday AM Peak Hour, 35 mph:	9 AM, 230 hours, 11% increase over 2011
Saturday Peak Hour, 35mph	1 PM, 202 hours, 114% increase over 2011
Sunday/Holiday Peak Hour, 35mph	2 PM, 242 hours, 54% increase over 2011

Delay at 35 miles per hour

Figure 9. AVERAGE VEHICLE HOURS OF DELAY AT 35 MILES PER HOUR, BY HOUR OF DAY, 2011-2012

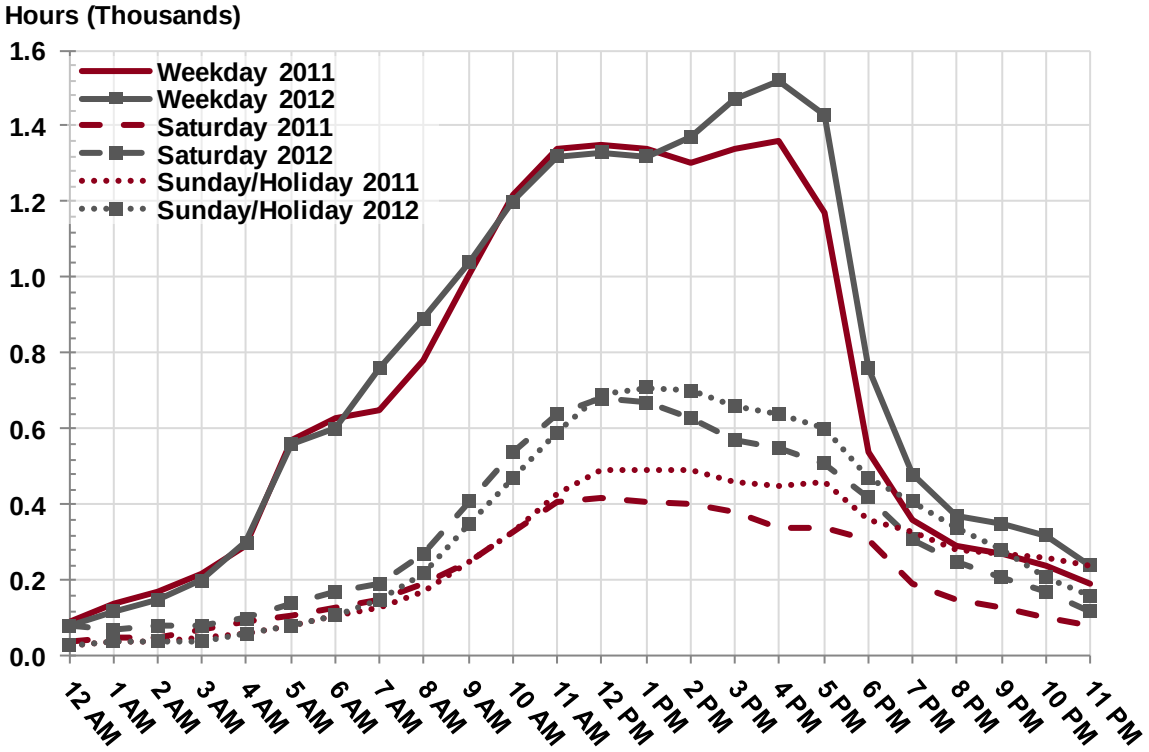


3.3.2 Delay at 60 Miles per Hour

Weekday PM Peak Hour, 60 mph:	4 PM, 1,520 hours, 12% increase over 2011
Weekday AM Peak Hour, 60 mph:	9 AM, 1,042 hours, 3% increase over 2011
Saturday Peak Hour, 60mph	12 PM, 681 hours, 63% increase over 2011
Sunday/Holiday Peak Hour, 60mph	1 PM, 708 hours, 43% increase over 2011

Delay at 60 miles per hour

Figure 10. AVERAGE VEHICLE HOURS OF DELAY AT 60 MILES PER HOUR, BY HOUR OF DAY, 2011-2012

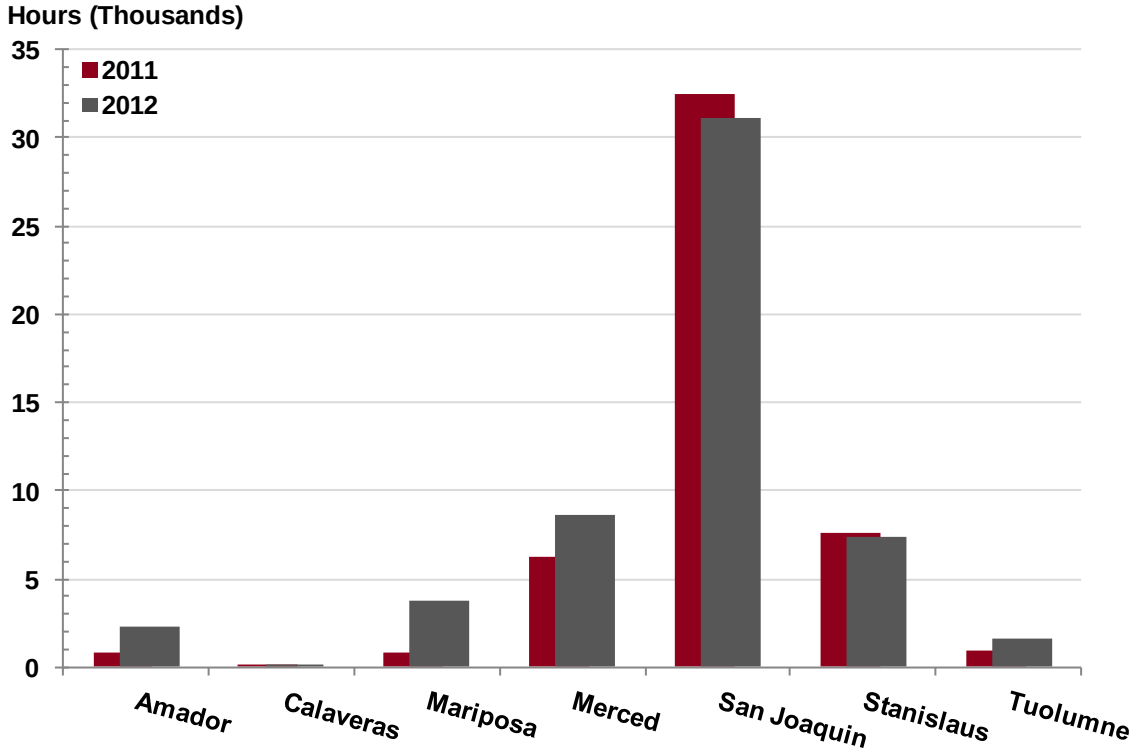


3.4. Total Vehicle Hours of Delay by County

County with Largest Delay, 60 mph:	San Joaquin, 3.1 million hours, 3.9% decrease over 2011 VHD, 57% of District total VHD
County with 2nd Largest Delay, 60mph:	Merced, 865,727 hours, 37.8% increase over 2011 VHD, 16% of District total VHD
County with Largest Increase in Delay, 60 mph:	Mariposa, 291,444 hours, 344.7% increase over 2011
County with Largest Decrease in Delay, 60 mph:	San Joaquin, -127,274 hours, 3.9% decrease over 2011

Delay at 60 miles per hour

Figure 11. TOTAL ANNUAL VEHICLE HOURS OF DELAY AT 60 MILES PER HOUR, BY COUNTY, 2011-2012

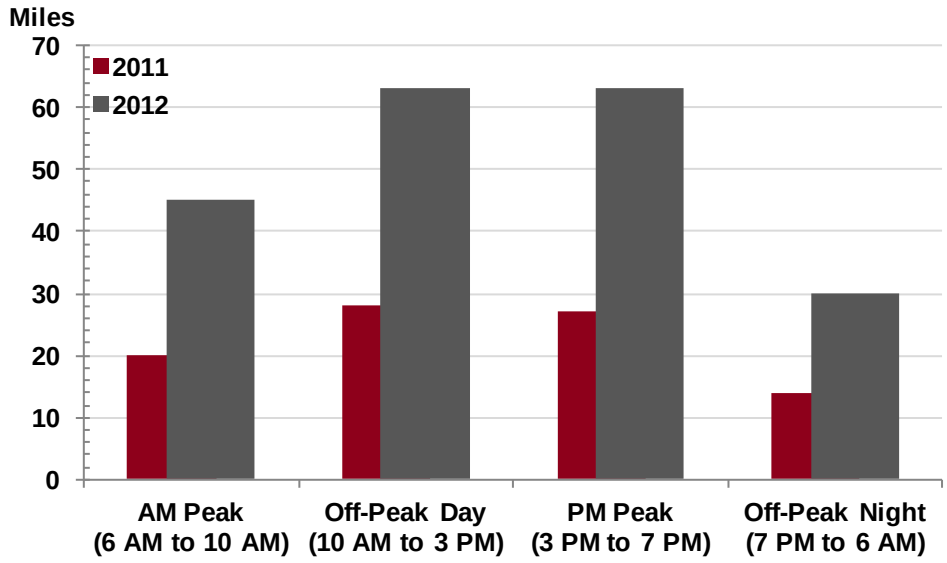


3.5. Lost Productivity

AM Peak:	45 miles, 130.3% increase over 2011
Off-Peak Day:	63 miles, 122.4% increase over 2011
PM Peak:	63 miles, 131.3% increase over 2011
Off-Peak Night:	30 miles, 114.0% increase over 2011

Lost Lane Miles at 35 miles per hour

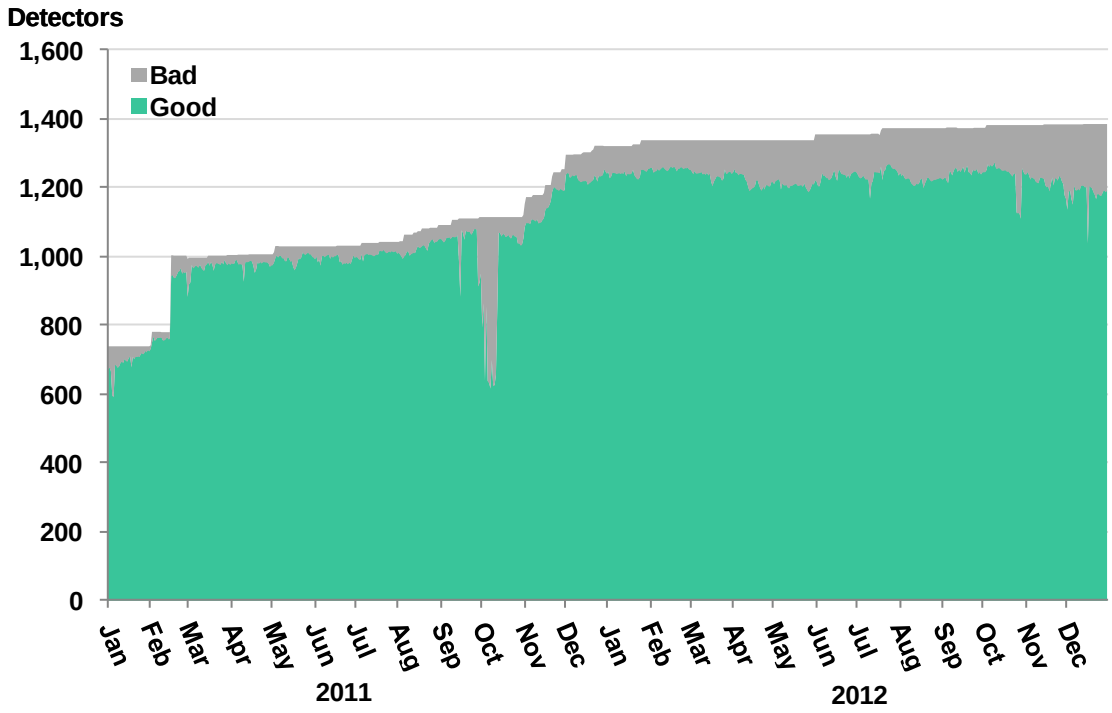
Figure 12. AVERAGE NON-HOLIDAY WEEKDAY EQUIVALENT LOST LANE MILES



4. DETECTOR HEALTH AND DATA QUALITY

Directional Mainline Miles:	2,653 miles
Directional Mainline Miles with Detection:	764 miles
Number of Detectors at End of 2012:	1,385, 5% increase over 2011
Average Percentage of Good and Bad Detection:	90% good, 24.7% increase over 2011; 10% bad, 122.6% increase over 2011
Number of Days Reporting less Than 50% Working Detection:	0

Figure 13. DETECTOR HEALTH BY DAY, 2011-2012



5. FREEWAY CONGESTION AND BOTTLENECK LOCATIONS

5.1. Congestion by Freeway

Congestion Contributed by Top Congested Freeways: 4,227,057 hours, 77% of total VHD in 2012

Table 3. TOP CONGESTED FREEWAYS, 2011-2012

Table 3							
Top Congested Freeways							
Route	**County**	**Vehicle Hours of Delay at 60 mph**		**Difference (2012 - 2011)**		**Rank**	
		2011	**2012**	**Absolute**	**Percent**	**2011**	**2012**
SR–99	San Joaquin	1,332,827	990,453	-342,374	-26%	1	1
SR–99	Stanislaus	617,949	556,890	-61,059	-10%	2	2
I–5	San Joaquin	506,570	525,340	18,770	4%	3	3
SR–4	San Joaquin	310,486	407,196	96,710	31%	6	4
I–205	San Joaquin	381,296	393,190	11,894	3%	5	5
SR–140	Merced	142,241	311,840	169,599	119%	10	6
SR–120	San Joaquin	395,991	305,709	-90,282	-23%	4	7
SR–12	San Joaquin	193,893	255,558	61,665	32%	8	8
SR–99	Merced	262,609	249,668	-12,941	-5%	7	9
SR–152	Merced	143,636	231,214	87,578	61%	9	10
TOTALS		**4,287,498**	**4,227,057**	**-60,441**	**-1.4%**		

5.2. Bottleneck Locations

Total Delay, All AM Bottlenecks: 49,906 hours
Top Bottleneck Delay, AM: 49,906 hours
Percentage Top Bottleneck Delay of Total Bottleneck Delay, AM: 100%

Table 4 (a). TOP BOTTLENECKS, AM PEAK PERIOD

Rank	County	City	Freeway	CA Postmile	Approximate Location	Average Extent (miles)	Total Delay (hours)	Average Daily Delay (hours)	Average Duration (hours)	Percent of Days Active
1	San Joaquin	Tracy	I205–W	0.761	West of Mountain House Parkway Overcrossing	2.29	36,156	233	1.2	62%
2	San Joaquin	Tracy	I205–W	R3.332	West of 11th Street Overcrossing	2.35	13,750	120	0.7	46%

Total Delay, All PM Bottlenecks: 8,374 hours
Top Bottleneck Delay, PM: 8,374 hours
Percentage Top Bottleneck Delay of Total Bottleneck Delay, PM: 100%

Table 4 (b). TOP BOTTLENECKS, PM PEAK PERIOD

Rank	County	City	Freeway	CA Postmile	Approximate Location	Average Extent (miles)	Total Delay (hours)	Average Daily Delay (hours)	Average Duration (hours)	Percent of Days Active
1	San Joaquin	Tracy	I205–E	R8.51	MacArthur Drive	1.04	8,374	125	1.4	27%

Figure 14 (a). BOTTLENECKS AND CONGESTED SEGMENTS, AM PEAK PERIOD

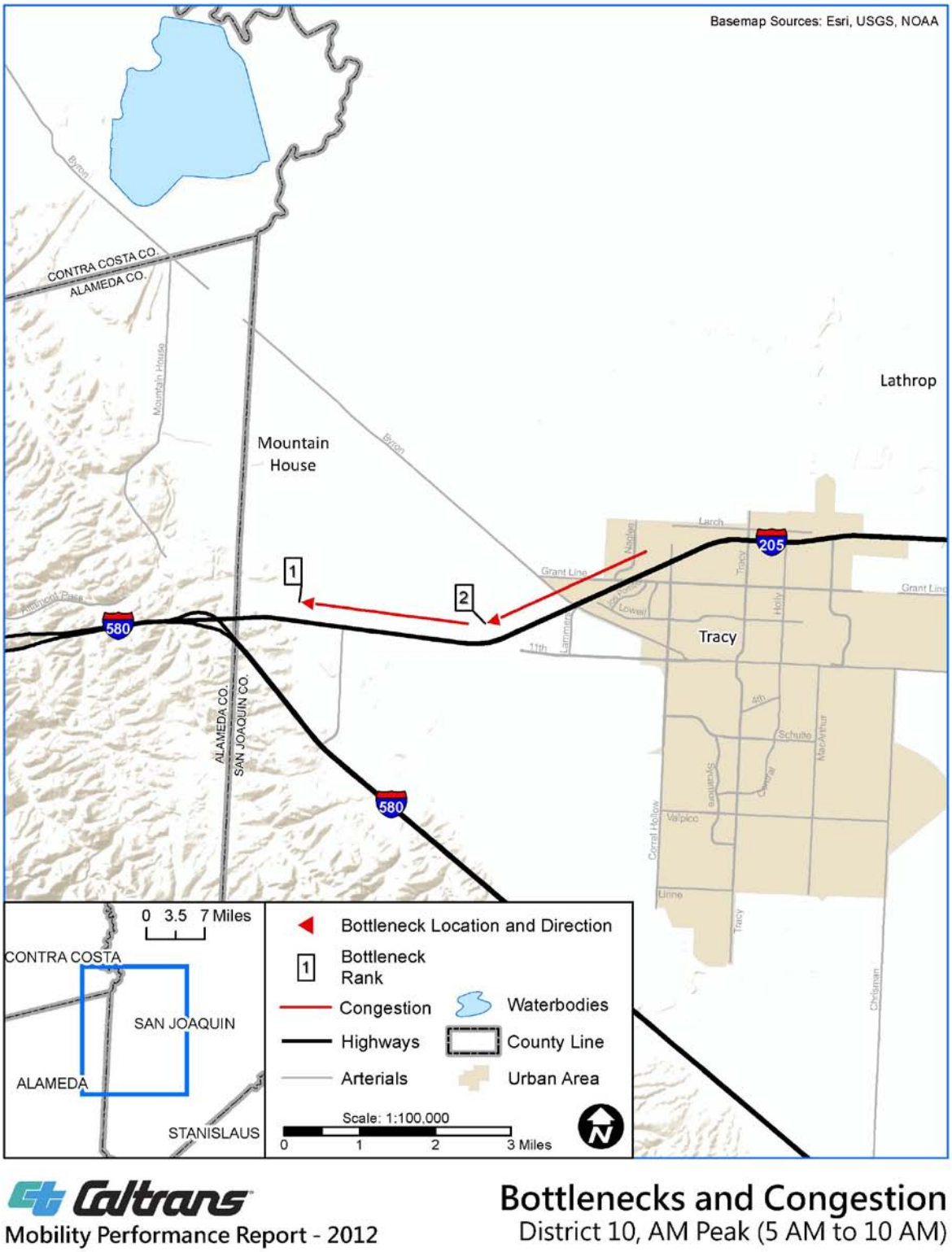
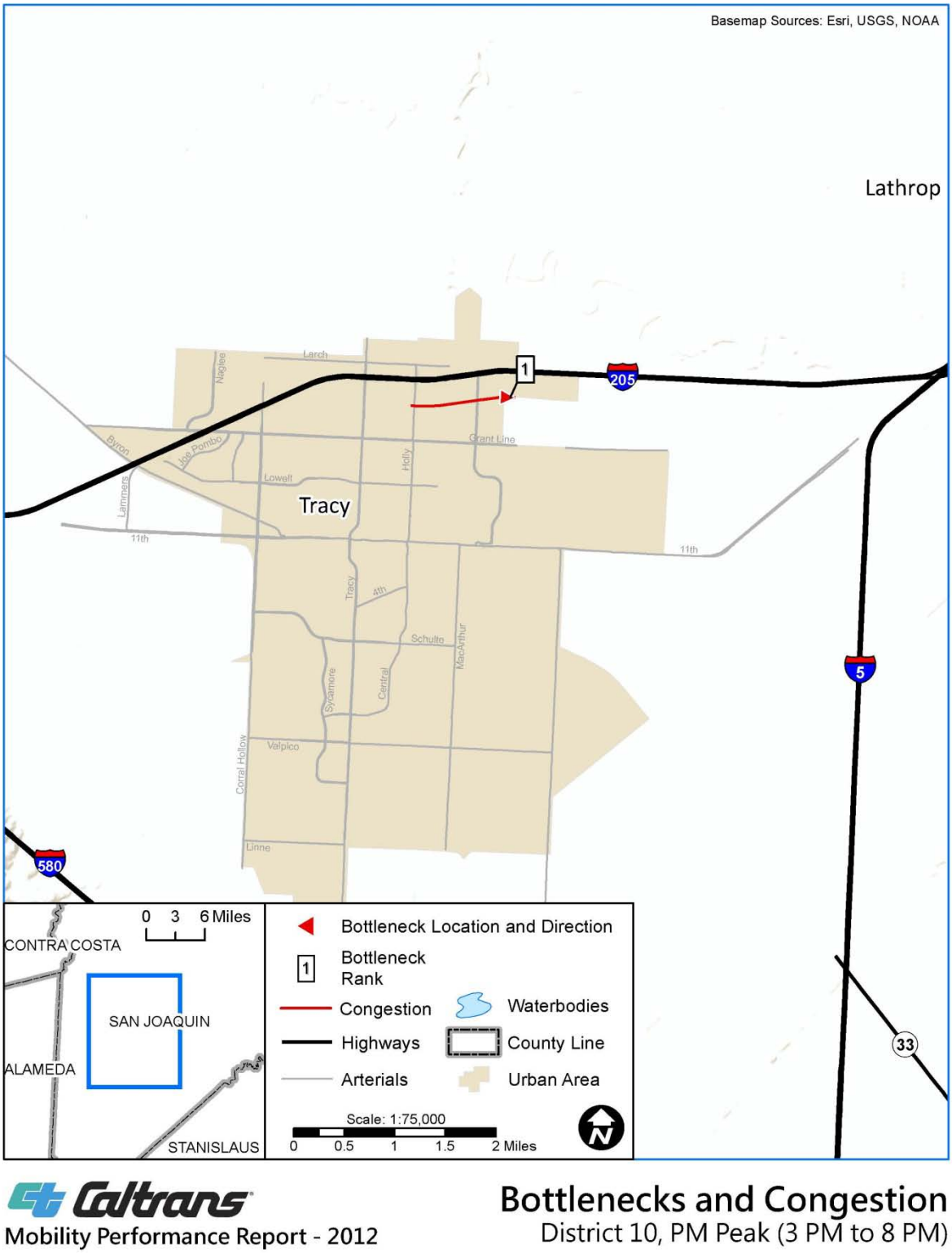


Figure 14 (b). BOTTLENECKS AND CONGESTED SEGMENTS, PM PEAK PERIOD



Caltrans
Mobility Performance Report - 2012

Bottlenecks and Congestion
District 10, PM Peak (3 PM to 8 PM)