

2005 Bay Area HOV Lanes



Volumes, occupancies and violation rates for freeway High Occupancy Vehicle Lanes in the San Francisco Bay Area



California Department of Transportation
District 4 Oakland
Office of Highway Operations



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INTRODUCTION

The ANNUAL HOV LANE REPORT is prepared by the California Department of Transportation (Caltrans) District 4 Office of Highway Operations. This report contains information concerning High Occupancy Vehicle (HOV) lanes on the San Francisco Bay Area freeway system. Traffic performance data for mainline HOV lanes and HOV toll gates are provided for calendar year 2005. This data includes, traffic volumes, vehicle occupancies, HOV lane time savings, and HOV lane violation rates. Data for this report is collected twice annually — once in the spring and once in the fall — when normal commute traffic patterns and conditions generally occur. Volumes and occupancy data for HOV bypass lanes at metered freeway on-ramps are not included in this annual report; however, general information on these ramps is included.

Major changes in 2005:

- A northbound HOV lane on State Route 87, in Santa Clara County, opened to traffic on April 18, 2005. The limits of the HOV lane are from Taylor Street to the US 101/SR 87 junction, a distance of 2.5 miles.
 - A northbound HOV lane on Interstate 880, in Santa Clara County, opened to traffic on April 22, 2005. The limits of the HOV lane are from I-880/SR 237 junction to Dixon Landing Road, a distance of 2.0 miles.
 - HOV lane direct connectors at the I-880/SR 237 interchange, in Milpitas, in Santa Clara County, opened to traffic on April 29, 2005, from eastbound SR 237 to northbound I-880, and in May 2005, from southbound I-880 to westbound SR 237.
 - A new section of HOV lane on southbound Interstate 680, in Contra Costa County, opened to traffic on June 14, 2005. The limits of the HOV lane are now from south of Marina Vista to north of North Main Street, a distance of 7.8 miles.
 - A northbound HOV lane on Interstate 680, in Contra Costa County, opened to traffic on April 28, 2005. The limits of the HOV lane are from Route 242 Interchange to south of Marina, a distance of 4.4 miles.
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HOV Report Website: This report is available for download at www.dot.ca.gov/dist4/ by clicking on the Caltrans Reports Link.

ACKNOWLEDGMENTS:

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Department of Transportation
 District 4
 Office of Highway Operations

High-Occupancy Vehicle Lanes in the Bay Area

HOV FACILITIES SUMMARIES

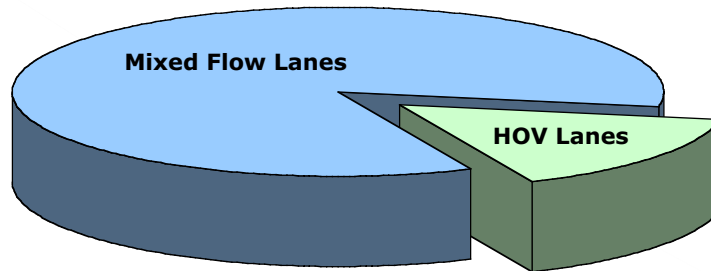
- **Comparison of HOV Lanes vs. Mixed Flow Lanes**
 - **Existing Mainline HOV Lanes**
 - **Metered On-Ramps with HOV Bypasses**
 - **Non-Metered HOV Lane On-Ramp**
 - **Mainline HOV Lanes Under Construction**
 - **Programmed HOV Lane Projects**
 - **Proposed HOV Lane Projects (Not Programmed)**
-

COMPARISON OF HOV LANES VS. MIXED FLOW LANES (Peak-Hour)

VEHICLES

(306,700 - vehicles per hour)

84%—



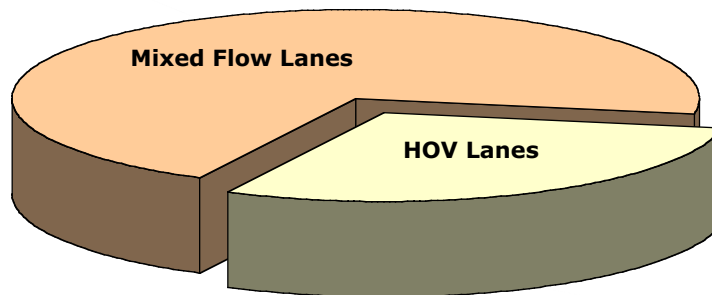
— 16%

(56,300- vehicles per hour)

PEOPLE

(339,100 - persons per hour)

70%—



— 30%

(142,800 - persons per hour)

NOTE: *Data shown is the relative proportion of vehicles or people in the mixed flow and carpool lanes averaged over all count locations.*

EXISTING MAINLINE HOV LANES

Route	Dir	Limits	Lane-miles	Min. occ.	Period of operation*	
ALA-80	W/B	Bay Bridge Toll Plaza	2.9	3+	5-10 AM	3-7 PM
ALA-80	W/B	Contra Costa Co Line to Powell St	4.2	3+	5-10 AM	3-7 PM
	E/B	I 880 Viaduct to Contra Costa Co Line	5.3	3+	5-10 AM	3-7 PM
ALA-84	W/B	Newark Blvd. to Dumbarton Bridge Toll Plaza	1.8	2+	5-10 AM	3-6 PM
ALA-92	W/B	Hesperian Blvd to San Mateo Bridge Toll Plaza	3.0	2+	5-10 AM	3-6 PM
ALA-680	S/B	Route 84 to Route 237 Calaveras Blvd.	14.0	2+	5- 9 AM	3-7 PM
ALA-880	S/B	Marina Blvd to Mission Blvd	20.5	2+	5- 9 AM	3-7 PM
	N/B	Mission Blvd to South of Rte 238 I/C	16.7	2+	5- 9 AM	3-7 PM
ALA-880	N/B	West Grand Ave to Rte 80	1.1	3+	5-10 AM	3-7 PM
ALA-880	N/B	16th Street to SFOBB Toll Plaza	1.2	3+	5-10 AM	3-7 PM
CC-04	W/B	West of Railroad Ave. to Port Chicago Hwy	6.5	2+	6- 9 AM	
	E/B	Port Chicago Hwy to West of Railroad Ave.	7.0	2+	3-7 PM	
CC-80	W/B	Rte 4 to Alameda County Line	9.7	3+	5-10 AM	3-7 PM
	E/B	Alameda County Line to Rte 4	9.9	3+	5-10 AM	3-7 PM
CC-680	S/B	Marina Vista to N/O North Main St.	7.8	2+	6- 9 AM	3-7 PM
	N/B	Route 242 to Marina Vista I/C	4.4	2+	6- 9 AM	3-7 PM
CC-680	S/B	Livorna Rd to Alcosta Blvd	11.9	2+	6- 9 AM	3-6 PM
	N/B	Alcosta Blvd to Livorna Rd	12.9	2+	6- 9 AM	3-6 PM
MRN-101	S/B	Greenbrae ped o/c to Strawberry ped o/c	3.7	2+	6:30-8:30 AM	
	N/B	S/O Richardson Bay Br to Corte Madera	3.5	2+	4:30-7:00 PM	
	S/B	Rte 37 to San Pedro Rd	6.1	2+	6:30-8:30 AM	
	N/B	San Pedro Rd to Rte 37	6.1	2+	4:30-7:00 PM	
SCL-85	S/B	Rte 101 (Mountain View) to Rte 101 (So. San Jose)	23.3	2+	5- 9 AM	3-7 PM
	N/B	Rte 101 (So. San Jose) to Rte 101 (Mt. View)	23.8	2+	5- 9 AM	3-7 PM
SCL-87	SB	Route 101 I/C to Taylor Avenue	2.8	2+	5-10 AM	3-7 PM
	NB	Taylor Avenue to Route 101 I/C	2.8	2+	5-10 AM	3-7 PM
SCL-101	S/B	San Mateo Co. Line to Cochrane Rd	34.8	2+	5- 9 AM	3-7 PM
	N/B	Cochrane Rd to San Mateo Co. Line	34.0	2+	5- 9 AM	3-7 PM
SCL-237	W/B	McCarthy Blvd to Mathilda Ave	4.7	2+	5- 9 AM	3-7 PM
	E/B	Mathilda Ave to Rte 880/237 Jct.	6.7	2+	5- 9 AM	3-7 PM
SCL-280	S/B	Magdalena Ave to Meridian Ave	11.2	2+	5- 9 AM	3-7 PM
	N/B	Leland Ave to Magdalena Ave	10.7	2+	5- 9 AM	3-7 PM
SCL-880	S/B	Dixon Landing Road to I/880/SR237 Junction	2.0	2+	5- 9 AM	3-7 PM
	N/B	I 880/SR 237 Junction to Dixon Landing Road	2.0	2+	5- 9 AM	3-7 PM
SM-101	S/B	Whipple Ave to Santa Clara Co. Line	6.6	2+	5- 9 AM	3-7 PM
	N/B	Santa Clara Co. Line to Whipple Ave	6.6	2+	5- 9 AM	3-7 PM
SOL-80	E/B	Carquinez Bridge Toll Plaza	0.1	3+	5-10 AM	3-7 PM
SON-101	S/B	Route 12 to Wilfred Avenue	4.0	2+	7 - 9 AM	3-6:30 PM
	N/B	Wilfred Avenue to Route 12	4.0	2+	7 - 9 AM	3-6:30 PM

TOTAL EXISTING LANE-MILES

340.3

* **NOTE:** All HOV lanes currently operate Monday thru Friday.

METERED ON-RAMPS with HOV BYPASS LANES

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
ALA-580	EB	Hopyard loop	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Hopyard diagonal	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Hacienda Loop	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Hacienda diagonal	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Santa Rita loop	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Santa Rita diagonal	2:30-7:30 pm	Yes	Jun 30, 2003	
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ALA-880	NB	Dixon Landing diagonal	24 hrs	Yes	Mar 30, 2004	
ALA-880	NB	Fremont Blvd loop	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Auto Mall Pkwy(Durham) loop	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Auto Mall Pkwy(Durham)diag	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Stevenson Blvd. diagonal	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	E/B Mowry Ave loop	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Thornton Ave loop	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Thornton Ave diagonal	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Alvarado-Fremont Blvd diag	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Alvarado-Niles Rd diagonal	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Industrial Parkway diagonal	24 hrs	Yes	Dec 3, 1996	
ALA-880	NB	Tennyson Rd diag	24 hrs	Yes	Dec 3, 1996	
ALA-880	NB	West A-Street diag	24 hrs	Yes	Dec 3, 1996	
ALA-880	NB	Lewelling Blvd diagonal	24 hrs	Yes	Apr 28, 1999	
ALA-880	NB	98th Ave loop	24 hrs	Yes	Apr 28, 1999	
ALA-880	NB	E/B 23rd Ave. diag	24 hrs	Yes	Apr 28, 1999	
ALA-880	SB	Dixon Landing Loop	24hrs	Yes	Mar 30, 2004	
ALA-880	SB	Fremont Blvd. diag	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Fremont Blvd. loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Auto Mall Pkwy(Durham)Diag	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Auto Mall Pkwy(Durham)loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	W/B Mowry Ave loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Thornton Ave. diagonal	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Thornton Ave. loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Alvarado-Fremont Blvd diag	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Alvarado-Niles Rd diagonal	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Alvarado-Niles Rd loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Whipple Rd diag	24 hrs	Yes	Oct 29, 1996	
ALA-880	SB	Tennyson Rd diag	24 hrs	Yes	Oct 29, 1996	
ALA-880	SB	Winton Ave diag	24 hrs	Yes	Oct 29, 1996	
ALA-880	SB	West A-Street diag	24 hrs	Yes	Oct 29, 1996	
ALA-880	SB	E/B Davis St(Route 112) diag	24 hrs	Yes	Apr 27, 1999	
ALA-880	SB	W/B Davis St(Route 112)loop	24 hrs	Yes	Apr 27, 1999	
ALA-880	SB	98th Ave diagonal	24 hrs	Yes	Apr 27, 1999	
ALA-880	SB	Hegenberger diagonal	24 hrs	Yes	Apr 27, 1999	
ALA-880	SB	Oak St. diagonal	24 hrs	Yes	Apr 27, 1999	

- NOTES:**
- (a) Minimum occupancy requirement for all HOV bypass lanes is two persons per vehicle.
 - (b) Motorcycles and inherently low-emission vehicles (ILEVs) with DMV issued decal are permitted.
 - (c) Bypass lane restrictions are in effect 7 days a week unless noted otherwise.

METERED ON-RAMPS with HOV BYPASS LANES

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
SCL-85	NB	SB Rte 101 connector	5-9am & 3-7pm	Yes	Sep 20, 2004	Monday - Friday
SCL-85	NB	SB Rte 87 connector	5-9am & 3-7pm	Yes	Jul 8, 2003	Monday - Friday
SCL-85	NB	Bernal Rd Loop	24 hrs	Yes	Sep 20, 2004	7 days/week
SCL-85	NB	Bernal Rd diag	24 hrs	Yes	Aug 26, 1994	7 days/week
SCL-85	NB	Great Oaks Blvd diag	24 hrs	Yes	Aug 19, 1994	7 days/week
SCL-85	NB	Cottle Rd diag	24 hrs	Yes	Aug 19, 1994	7 days/week
SCL-85	NB	Blossom Hill Rd loop	24 hrs	Yes	Aug 19, 1994	7 days/week
SCL-85	NB	Santa Teresa Blvd loop	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-85	NB	Almaden Expwy (nb) loop	24 hrs	Yes	Mar 19, 1999	7 days/week
SCL-85	NB	Bascom Ave diag	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-85	NB	Winchester Blvd diag	24 hrs	Yes	Nov 14, 1994	7 days/week
SCL-85	NB	Saratoga Ave diag	24 hrs	Yes	Oct 20, 1994	7 days/week
SCL-85	SB	Almaden Expwy diag	24 hrs	Yes	Oct. 19, 1994	7 days/week
SCL-85	SB	Bascom Ave diag	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-85	SB	Camden Ave diag	24 hrs	Yes	Apr 4, 1995	7 days/week
SCL-85	SB	Stevens Creek diag	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-101	NB	Bernal Rd diagonal	24 hrs	Yes	Aug 18, 2005	7 days/week
SCL-101	NB	Blossom Hill diag	24 hrs	Yes	Jun 23, 1992	7 days/week
SCL-101	NB	Capitol Expwy diag	24 hrs	Yes	Jul 11, 1997	7 days/week
SCL-101	NB	SB Rte 680 connector	5:30-9am	No	Sep 2, 1982	Monday - Friday
SCL-101	NB	Guadalupe Pkwy connector	5:30-9am	Yes	Feb 12, 1980	Monday - Friday
SCL-101	NB	Trimble Rd diag	24 hrs	Yes	Nov 1, 1991	7 days/week
SCL-101	NB	Montague Expwy diag	24 hrs	Yes	Feb 12, 1980	7 days/week
SCL-101	NB	Lawrence Expwy (nb) loop	24 hrs	Yes	Mar 8, 1999	7 days/week
SCL-101	NB	Lawrence Expwy (sb)diag	24 hrs	Yes	Mar 8, 1999	7 days/week
SCL-101	NB	San Tomas Expwy loop	5:30-9 am	No	Feb 12, 1980	Monday - Friday
SCL-237	EB	Lawrence Expwy diag	24 hrs	Yes	Aug. 14, 1998	7 days/week
SCL-237	EB	Great America Pkwy diag	24 hrs	Yes	Sep 24, 1996	7 days/week
SCL-237	EB	N. First Street diag	24 hrs	Yes	Sep 24, 1996	7 days/week
SCL-237	EB	Zanker Rd diag	24 hrs	Yes	Sep 24, 1996	7 days/week
SCL-280	NB	Wolfe Rd loop	6-9 am	Yes	Jun 8, 1976	Monday - Friday
SCL-280	SB	Wolfe Rd loop	24 hrs	Yes	Apr 27, 1993	7 days/week
SCL-280	SB	Wolfe Rd diag	24 hrs	Yes	Apr 27, 1993	7 days/week
SCL-280	SB	De Anza Blvd diag	24 hrs	Yes	Apr 27, 1993	7 days/week
SCL-880	NB	Calaveras Blv (wb) (diag)	24 hrs	Yes	Sep 9, 2003	7 days/week
SCL-880	SB	Dixon Landing diagonal	24hrs	Yes	Mar 30, 2004	7 days/week

NON-METERED HOV LANE ON-RAMP

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
SF-80	EB	Sterling St on-ramp to SFOBB	3:30-7:00 PM	No	Aug 30, 1982	

NOTES

- (a) *Minimum occupancy requirement is 3 or more persons per vehicle.*
- (b) *2 - seater vehicles with 2 persons, motorcycles and inherently low-emission vehicles (ILEVs) with DMV issued decal are permitted.*

MAINLINE HOV LANES UNDER CONSTRUCTION

Estimated Opening	County Route	Location	Lane Miles	Min. Occ.
Summer 2006	MRN-101 SB	Corte Madera Cr. to 580/101 Separation	1.3	2+
Summer 2006	MRN-101 NB	Corte Madera Cr. to 580/101 Separation	1.3	2+
Summer 2006	MRN-101	Greenbrae POC to Corte Madera Cr	0.2	2+
Dec-06	SCL-85/101	Rte 85 and 101 Connectors (Mountain View)	1.4	2+
2006	CC-4	w/o Railroad Ave to w/o Loveridge	4.4	2+
Jul-07	SCL-87	Julian St to Rte 280 I/C (NB, SB)	2.4	2+
Jul-07	SCL-87	Rte 280 I/C to Santa Teresa Blvd. (NB,SB)	9.8	2+
2009	ALA-880	Dixon Landing Road to Mission Blvd (Rte 262)	8.6	2+

TOTAL LANE-MILES UNDER CONSTRUCTION 29.4

PROGRAMMED HOVL PROJECTS (From 2002 STIP)

County Route	EA	Location	Construct year	Cost Est. (Prog. year)	Lane Miles
ALA-84	443901	Westbound HOV On-ramp at Newark Ave	2009	\$7,000,000	0.8
ALA-84	444001	Newark Ave to I-880/SR 84 I/C	2008	\$6,800,000	1.6
ALA-580	290810	Hacienda to E. of Greenville Rd. (EB)	2007	\$75,000,000	10.6
ALA-580	290820	W of Hacienda to Greenville Rd. (WB)	2009	\$45,000,000	10.6
SCL/ALA-680	286000	Rte 237 to Rte 84 - NB	2010	\$80,000,000	13.0
CC-4	228500	Loveridge to Somersville	2008	\$77,400,000	4.2
CC-80	263700	Carquinez Bridge to Rte 4 - WB	2006	\$20,000,000	2.7
CC-80		Rte 4 to Carquinez Bridge - EB	2008	\$34,000,000	2.7
MRN/SON-101	264000	Route 37 to Old Redwood Highway	2016	\$174,600,000	32.9
MRN-101	226141	Coleman School POC to N. San Pedro Rd.	2008	\$16,900,000	3.2
MRN-101	2261V1	580/101 Separation to Coleman School POC	2008	\$42,900,000	3
SON-101	0A1800	Old Redwood Highway to Rohnert Park Expwy	2010	\$98,000,000	12.8
SON-101	129650	Rohnert Park Expwy to Wilfred Ave	2010	\$39,200,000	2.6
SON-101	263900	Steel Lane to Bicentennial Way	2008	\$14,500,000	1.2
SON-101	0A100K	Bicentennial Way to Windsor	2010	\$71,900,000	14.2
SON-101	245400	Rte 12 to Steele Lane	2009	\$48,800,000	2.8

TOTAL

\$852,000,000	118.9
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PROPOSED HOVL PROJECTS (Not Programmed)

County Route	EA	Location	Post-Mile	Cost (Prog. year)	Lane Miles
SOL	0A320K	Red Top Rd. to Air Base Pkwy.	11.4/19.8	\$250,000,000	16.8
CC-4	2285XK	Somersville to SR 160	26.0/31.0	\$300,000	7.2

TOTAL

\$250,300,000	24
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DATA SUMMARIES

- **HOV Lane Peak Hour Volumes**
 - **HOV & Non-HOV Lane Peak Hour Comparisons**
 - **HOV Lane Peak Period Violation Rates**
 - **HOV Lane Peak Hour Time Savings and Average Speeds**
-

HOV LANE PEAK HOUR VOLUMES

			A.M.	P.M.
			Peak Hr (veh)	Peak Hr (veh)
ALA-80	WB	Bay Bridge Toll Plaza	3489	882
ALA-80	WB	Contra Costa County Line to Powell St	1628	N/A
	EB	I 880 Viaduct to Contra Costa Co. Line	N/A	1365
ALA-80	WB	HOV FLYOVER	1639	323
ALA-84	WB	Newark Blvd to Dumbarton Bridge Toll Plaza	1216	377
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza	1000	494
ALA-680	SB	Route 84 to Route 237 Calaveras Blvd.	696	576
ALA-880	SB	Marina Blvd to Whipple Road	683	1170
		Whipple Road to Mission Blvd.	739	905
	NB	Mission Blvd to Whipple Road	479	1012
		Whipple Road to South of Rte 238 I/C	1062	1299
ALA-880	NB	16th St to SFOBB Toll Plaza	561	N/A
CC-04	WB	West of Railroad Ave. to Port Chicago Hwy	857	**
	EB	Port Chicago Hwy to West of Railroad Ave.	**	845
CC-80	WB	Route 4 to Alameda County Line	1391	N/A
	EB	Alameda County Line to Route 4	N/A	1023
CC-680	SB	Marina Vista I/C to N/O North Main St	730	383
	NB	Route 242 to Marina Vista I/C	205	605
CC-680	SB	Livorna Rd. to Alcosta Blvd.	1104	882
	NB	Alcosta Blvd. to Livorna Rd.	872	1354
MRN-101	SB	Rte 37 to N. San Pedro Rd	1223	**
		Greenbrae I/C to Richardson Bay Bridge	593	**
	NB	Richardson Bay Bridge to Greenbrae I/C	**	607
		N. San Pedro Rd to Rte 37	**	699
SCL-85	SB	Rte 101 (Mountain View) to Rte 280	N/A	632
		Rte 280 to Almaden Expwy	N/A	763
		Almaden Expwy to Rte 101 (So. San Jose)	N/A	581
	NB	Rte 101 (So. San Jose) to Almaden Expwy	471	N/A
		Almaden Expwy to Rte 280	1051	N/A
		Rte 280 to Rte 101 (Mountain View)	795	N/A
SCL-87	SB	Route 101 I/C to Taylor Avenue*		
	NB	Taylor Avenue to Route 101 I/C	206	N/A

HOV LANE PEAK HOUR VOLUMES

			A.M.	P.M.
			Peak Hr (veh)	Peak Hr (veh)
SCL-101	SB	San Mateo Co. Line to Ellis St	711	793
		Ellis St to Guadalupe Pkwy	N/A	1030
		Guadalupe Pkwy to 101/280/680 I/C	N/A	891
		101/280/680 I/C to Bernal Rd	N/A	773
		Bernal Rd to Cochrane Rd	N/A	691
	NB	Cochrane Road to Bernal Road	721	N/A
		Bernal Rd to 101/280/680 I/C	991	N/A
		101/280/680 I/C to Guadalupe Pkwy	1173	N/A
		Guadalupe Pkwy to Ellis St	619	N/A
		Ellis St to San Mateo Co. Line	923	800
SCL-237	WB	McCarthy Blvd to Mathilda Ave	623	429
	EB	Mathilda Ave to Rte 880/237 Jct.	N/A	647
SCL-280	SB	Magdalena Ave to Leland Ave	N/A	899
	NB	Leland Ave to Magdalena Ave	717	N/A
SCL-880	SB	Dixon Landing Road to I 880/SR237 Junction*		
	NB	I 880/SR237 Junction to Dixon Landing Road*		
SM-101	SB	Whipple Ave to Santa Clara Co. Line	437	525
	NB	Santa Clara Co. Line to Whipple Ave	531	745
SOL-80	EB	Carquinez Bridge Toll Plaza	N/A	952
SON-101	S/B	Route 12 to Wilfred Avenue	524	546
	N/B	Wilfred Avenue to Route 12	444	698

N/A : Due to Resource shortfall 2005 data is not available.

* Data collection location not available within these limits.

** HOVL not in operation during this Peak Period.

PEAK HOUR HOV & non-HOV LANE COMPARISONS

				% of all vehicles		% of all Persons			
				in HOVL	in Non-HOVL	in HOVL	in Non-HOVL	Number of Non-HOV Lanes	in Non-HOVL (Avg per Lane)
ALA-80	WB	Bay Bridge Toll Plaza	AM	* 39%	** 61%	* 66%	** 34%	18	2%
			PM	* 11%	** 89%	* 28%	** 72%	18	4%
ALA-80	WB	Contra Costa County Line to Powell Street	AM	18%	82%	35%	65%	4	16%
			PM	N/A	N/A	N/A	N/A	4	N/A
	EB	I 880 Viaduct to Contra Costa Co. Line	AM	N/A	N/A	N/A	N/A	4	N/A
			PM	16%	84%	35%	65%	4	16%
ALA-84	WB	Newark Blvd to Dumbarton Bridge Toll Plaza	AM	33%	67%	52%	48%	3	16%
			PM	N/A	N/A	N/A	N/A	3	N/A
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza	AM	21%	79%	39%	61%	3	20%
			PM	N/A	N/A	N/A	N/A	3	N/A
ALA-680	SB	Route 84 to Route 237 Calaveras Blvd	AM	11%	89%	19%	81%	3	27%
			PM	11%	89%	19%	81%	3	27%
ALA-880	SB	Marina Blvd to Whipple Rd	AM	12%	88%	22%	78%	3	26%
			PM	19%	81%	31%	69%	3	23%
				Whipple Rd to Mission Blvd	AM	14%	86%	26%	74%
	NB	Mission Blvd to Whipple Rd	PM	17%	83%	31%	69%	3	23%
			AM	9%	91%	20%	80%	3	27%
			PM	17%	83%	30%	70%	3	23%
		Whipple Rd to South of Rte 238 I/C	AM	22%	78%	40%	60%	3	20%
PM	22%	78%	37%	63%	3	21%			
ALA-880	NB	16th Street to SFOBB	AM	32%	68%	62%	38%	2	19%
			PM	N/A	N/A	N/A	N/A	2	N/A
CC-04	WB	W of Railroad Ave to Port Chicago Hwy	AM	13%	87%	22%	78%	3	26%
	EB	Port Chicago to W of Railroad Avenue	PM	13%	87%	20%	80%	3	27%
CC-80	WB	Route 4 to Alameda County Line	AM	23%	77%	49%	51%	3	17%
			PM	N/A	N/A	N/A	N/A	3	N/A
	EB	Alameda County Line to Route 4	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	15%	85%	39%	61%	3	20%
CC-680	SB	Marina Vista I/C to N/O North Main St	AM	12%	88%	22%	78%	5	16%
			PM	8%	92%	13%	87%	5	17%
	NB	Route 242 to Marina Vista I/C	AM	7%	93%	12%	88%	4	22%
			PM	16%	84%	26%	74%	4	19%
CC-680	SB	Livorna Rd to Alcosta Blvd	AM	19%	81%	36%	64%	3	21%
			PM	16%	84%	28%	72%	3	24%
	SB	Alcosta Blvd to Livorna Rd	AM	14%	86%	29%	71%	3	24%
			PM	21%	79%	37%	63%	3	21%
MRN-101	SB	Rte 37 to N. San Pedro Rd	AM	25%	75%	41%	59%	3	20%
		Greenbrae I/C to Richardson Bay Brdg	AM	12%	88%	27%	73%	3	24%
	NB	Richardson Bay Brdg to Greenbrae I/C	PM	11%	89%	24%	76%	3	25%
		N. San Pedro Rd to Rte 37	PM	10%	90%	21%	79%	3	26%
SCL-85	SB	Rte 101 (Mtn View) to Rte 280	AM	N/A	N/A	N/A	N/A	2	N/A
			PM	15%	85%	24%	76%	2	38%
		Rte 280 to Almaden Expwy	AM	N/A	N/A	N/A	N/A	2	N/A
			PM	16%	84%	28%	72%	2	36%
		Almaden Expwy to Rte 101 (So. San Jose)	AM	N/A	N/A	N/A	N/A	2	N/A
			PM	16%	84%	27%	73%	2	36%
	NB	Rte 101 (So. San Jose) to Almaden Expwy	AM	13%	87%	20%	80%	2	40%
			PM	N/A	N/A	N/A	N/A	2	N/A
		Almaden Expwy to Rte 280	AM	23%	77%	36%	64%	2	32%
			PM	N/A	N/A	N/A	N/A	2	N/A
Rte 280 to Rte 101 (Mtn View)	AM	17%	83%	31%	69%	2	35%		
	PM	N/A	N/A	N/A	N/A	2	N/A		
SCL-87	SB	Route 101 I/C to Taylor Avenue***	AM						
			PM						
	NB	Taylor Avenue to Route 101 I/C	AM	6%	94%	12%	88%	4	0%
			PM	N/A	N/A	N/A	N/A	2	0%

PEAK HOUR HOV & non-HOV LANE COMPARISONS

				% of all vehicles		% of all Persons			
				in HOVL	in Non-HOVL	in HOVL	in Non-HOVL	Number of Non-HOV Lanes	in Non-HOVL (Avg per Lane)
SCL-101	SB	San Mateo Co. Line to Ellis St	AM	11%	89%	20%	80%	3	27%
			PM	13%	87%	23%	77%	3	26%
		Ellis St to Guadalupe Pkwy	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	17%	83%	31%	69%	3	23%
		Guadalupe Pkwy to 101/280/680 I/C	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	16%	84%	28%	72%	3	24%
		101/280/680 I/C to Bernal Rd	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	14%	86%	24%	76%	3	25%
		Bernal Rd to Cochrane Rd	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	15%	85%	26%	74%	3	25%
	NB	Cochrane Rd to Bernal Road	AM	14%	86%	24%	76%	3	25%
			PM	N/A	N/A	N/A	N/A	3	N/A
		Bernal Rd to 101/280/680 I/C	AM	16%	84%	28%	72%	3	24%
			PM	N/A	N/A	N/A	N/A	3	N/A
101/280/680 I/C to Guadalupe Pkwy		AM	17%	83%	28%	72%	3	24%	
		PM	N/A	N/A	N/A	N/A	3	N/A	
Guadalupe Pkwy to Ellis St		AM	10%	90%	18%	82%	3	27%	
		PM	N/A	N/A	N/A	N/A	3	N/A	
Ellis St to San Mateo Co. Line	AM	14%	86%	26%	74%	3	25%		
	PM	15%	85%	26%	74%	3	25%		
SCL-237	WB	McCarthy Blvd to Mathilda Ave	AM	13%	87%	24%	76%	2	38%
			PM	10%	90%	20%	80%	2	40%
	EB	Mathilda Ave to Rte 880/237 Jct	AM	N/A	N/A	N/A	N/A	2	N/A
			PM	15%	85%	28%	72%	2	36%
SCL-280	SB	Magdalena Ave to Leland Ave	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	18%	82%	30%	70%	3	23%
	NB	Leland Ave to Magdalena Ave	AM	11%	89%	20%	80%	3	27%
			PM	N/A	N/A	N/A	N/A	3	N/A
SCL-880	SB	Dixon Landing Rd to I 880/SR237 Jct***	AM					3	
			PM					3	
	NB	I 880/SR237 Jct to Dixon Landing Rd***	AM					3	
			PM					3	
SM-101	SB	Whipple Ave to Santa Clara Co. Line	AM	8%	92%	15%	85%	3	28%
			PM	9%	91%	15%	85%	3	28%
	NB	Santa Clara Co. Line to Whipple Ave	AM	11%	89%	20%	80%	3	27%
			PM	15%	85%	27%	73%	3	24%
SOL-80	EB	Carquinez Bridge	AM	N/A	N/A	N/A	N/A	11	N/A
			PM	18%	82%	41%	59%	11	5%
SON-101	SB	Route 12 to Wilfred Avenue	AM	13%	87%	24%	76%	2	38%
			PM	12%	88%	21%	79%	2	39%
	NB	Wilfred Avenue to Route 12	AM	11%	89%	25%	75%	2	37%
			PM	18%	82%	30%	70%	2	35%

* Total in all 4 HOVL's combined.

** Total in all 18 Non HOVL's combined.

***Data collection location not available within these limits.

N/A : Due to Resource shortfall 2005 data is not available.

HOV LANE PEAK PERIOD VIOLATION RATE SUMMARY

			A.M.	P.M.
ALA-80	WB	Bay Bridge Toll Plaza	9.9%	16.3%
ALA-80	WB	Contra Costa County Line to Powell St	9.0%	N/A
	EB	I 880 Viaduct to Contra Costa Co. Line	N/A	14.7%
ALA-80	WB	HOV FLYOVER RAMP	13.3%	20.6%
ALA-84	WB	Newark Blvd to Dumbarton Bridge Toll Plaza	1.4%	1.1%
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza	1.1%	0.5%
ALA-680	SB	Route 84 to Route 237 Calaveras Blvd	3.6%	1.0%
ALA-880	SB	Marina Blvd to Whipple Road	2.9%	2.0%
		Whipple Road to Mission Blvd.	3.0%	1.7%
	NB	Mission Blvd to Whipple Road	4.7%	3.7%
		Whipple Road to South of Rte 238 I/C	2.0%	2.8%
ALA-880	NB	16th St to SFOBB Toll Plaza	10.5%	N/A
CC-04	WB	West of Railroad Ave to Port Chicago Hwy.	3.3%	**
	EB	Port Chicago Hwy to West of Railroad Ave	**	3.8%
CC-80	WB	Rte 4 to Alameda County Line	12.5%	N/A
	EB	Alameda County Line to Rte 4	N/A	6.4%
CC-680	SB	Marina Vista to N/O North Main St.	0.9%	2.1%
	NB	Route 242 to Marina Vista I/C	5.5%	8.8%
CC-680	SB	Livorna Rd. to Alcosta Blvd.	4.4%	3.0%
	NB	Alcosta Blvd. to Livorna Rd.	3.5%	3.2%
MRN-101	SB	Rte 37 to N. San Pedro Rd	1.3%	No HOV
		Greenbrae I/C to Richardson Bay Bridge	3.0%	No HOV
	NB	Richardson Bay Bridge to Greenbrae I/C	No HOV	1.6%
		N. San Pedro Rd to Rte 37	No HOV	4.0%
SCL-85	SB	Rte 101 (Mountain View) to Rte 280	N/A	0.7%
		Rte 280 to Almaden Expwy	N/A	0.9%
		Almaden Expwy to Rte 101 (So. San Jose)	N/A	0.9%
	NB	Rte 101 (So. San Jose) to Almaden Expwy	2.4%	N/A
		Almaden Expwy to Rte 280	0.4%	N/A
		Rte 280 to Rte 101 (Mountain View)	3.0%	N/A
SCL-87	SB	Route 101 I/C to Taylor Avenue*		
	NB	Taylor Avenue to Route 101 I/C	3.2%	N/A
SCL-101	SB	San Mateo Co. Line to Ellis St	0.5%	3.6%
		Ellis St to Guadalupe Pkwy	N/A	0.3%
		Guadalupe Pkwy to 101/280/680 I/C	N/A	0.2%
		101/280/680 I/C to Bernal Rd	N/A	0.6%
		Bernal Rd to Cochrane Road	N/A	0.1%

HOV LANE PEAK PERIOD VIOLATION RATE SUMMARY

			A.M.	P.M.
	NB	Cochrane Rd to Bernal Rd	1.4%	N/A
		Bernal Rd to 101/280/680 I/C	0.8%	N/A
		101/280/680 I/C to Guadalupe Pkwy	6.8%	N/A
		Guadalupe Pkwy to Ellis St	0.4%	N/A
		Ellis St to San Mateo Co. Line	4.5%	0.8%
SCL-237	WB	Mcarthy On to Mathilda Ave	3.1%	2.1%
	EB	Mathilda Ave to Rte 880/237 Jct.	N/A	13.3%
SCL-280	SB	Magdalena Ave to Leland Ave	N/A	0.0%
	NB	Leland Ave to Magdalena Ave	0.8%	N/A
SCL-880	SB	Dixon Landing Road to I 880/SR237 Jct*		
	NB	I 880/SR237 Jct to Dixon Landing Road*		
SM-101	SB	Whipple Ave to Santa Clara Co. Line	1.4%	1.5%
	NB	Santa Clara Co. Line to Whipple Ave	0.5%	0.4%
SOL-80	EB	Carquinez Bridge Toll Plaza	N/A	6.0%
SON-101	SB	Route 12 to Wilfred Avenue	3.8%	3.9%
	NB	Wilfred Avenue to Route 12	4.9%	2.0%

N/A: Due to Resource shortfall 2005 data is not available.

* Data collection location not available within these limits.

** HOV not in operation during this Peak Period

HOV LANE PEAK HOUR TIME SAVINGS AND AVERAGE SPEEDS

			Travel Time (minutes)		HOVL	Avg. Speed (mph)		
			Non-HOVL	HOVL	Time Saving (minutes)	Non-HOVL	HOVL	
ALA-80	WB	Bay Bridge Toll Plaza	AM	15	4	11	5	33
			PM	5	2	3	13	65
ALA-80	WB	Contra Costa County Line to Powell St	AM	10	7	3	25	36
			PM	12	8	4	21	65
	EB	I 880 Viaduct to Contra Costa Co. Line	AM	5	5	0	65	65
			PM	22	10	12	15	46
ALA-80	WB	HOV FLYOVER RAMP	AM	1	1	0	55	55
			PM	1	1	0	55	55
ALA-84	WB	Newark Blvd to Dumbarton Bridge Toll Plaza	AM	4	2	2	32	65
			PM	2	2	0	65	65
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza	AM	3	3	0	65	65
			PM	3	3	0	65	65
ALA-680	SB	Route 84 to Route 237 Calaveras Blvd.	AM	21	13	8	41	65
			PM	18	13	5	48	65
ALA-880	SB	Marina Blvd. to Whipple Road	AM	16	8	8	34	65
			PM	14	8	6	40	65
		Whipple Road to Mission Blvd	AM	34	11	23	20	65
			PM	18	11	7	38	65
	NB	Mission Blvd. to Whipple Road	AM	14	11	3	49	65
			PM	18	11	7	37	65
		Whipple Road to South of Rte 238 I/C	AM	10	5	5	31	65
			PM	16	5	11	21	65
ALA-880	NB	Route 237 to Dixon Landing Road	AM	2	2	0	65	65
			PM	12	2	10	10	65
	SB	Dixon Landing Road to Route 237	AM	2	2	0	65	65
			PM	2	2	0	65	65
ALA-880	NB	16th St to SFOBB Toll Plaza	AM	9	2	7	8	55
			PM	3	2	1	44	65
CC-04	WB	West of Railroad to Port Chicago Hwy	AM	12	6	6	34	65
	EB	Port Chicago Hwy to West of Railroad Ave.	PM	19	7	12	22	65
CC-80	WB	Rte 4 to Alameda County Line	AM	17	13	4	34	51
			PM	11	11	0	65	65
	EB	Alameda County Line to Rte 4	AM	10	10	0	65	65
			PM	22	14	8	27	45
CC-680	SB	Marina Vista I/C to N/O North Main St	AM	23	7	16	21	65
			PM	11	7	4	41	65
	NB	Route 242 to Marina Vista	AM	5	4	1	59	65
			PM	22	4	18	12	65
CC-680	SB	Livorna Rd to Alcosta Blvd	AM	18	11	7	40	65
			PM	18	11	7	40	65
	NB	Alcosta Blvd to Livorna Rd	AM	20	12	8	40	65
			PM	23	12	11	33	65
MRN-101	SB	Rte 37 to N. San Pedro Rd	AM	35	23	12	10	16
		Greenbrae I/C to Richardson Bay Brdg	AM	4	4	0	55	55
	NB	Richardson Bay Brdg to Greenbrae I/C	PM	15	6	9	16	40
		N. San Pedro Rd to Rte 37	PM	6	6	0	65	65
SCL-85	SB	Rte 101 (Mtn View) to Rte 280	AM	6	5	1	57	65
			PM	14	5	9	24	65
		Rte 280 to Almaden Expwy	AM	11	11	0	65	65
			PM	26	11	15	28	65
		Almaden Expwy to Rte 101 (So. San Jose)	AM	6	5	1	61	65
			PM	7	5	2	53	65
	NB	Rte 101 (So. San Jose) to Almaden Expwy	AM	15	6	9	25	65
			PM	6	6	0	65	65
		Almaden Expwy to Rte 280	AM	29	13	16	26	65
			PM	12	12	0	65	65
		Rte 280 to Rte 101 (Mtn View)	AM	17	5	12	19	65
			PM	6	5	1	54	65

HOV LANE PEAK HOUR TIME SAVINGS AND AVERAGE SPEEDS

				Travel Time	Travel Time	HOVL	Avg. Speed	Avg. Speed	
				(minutes)	(minutes)	Time Saving	(mph)	(mph)	
				Non-HOVL	HOVL	(minutes)	Non-HOVL	HOVL	
SCL-87	SB	Route 101 I/C to Taylor Avenue*	AM						
			PM						
	NB	Taylor Avenue to Route 101 I/C	AM	11	2	9	13	65	
			PM	N/A	N/A	N/A	N/A	N/A	
SCL-101	SB	San Mateo Co. Line to Ellis St	AM	6	5	1	51	65	
			PM	10	5	5	31	65	
			Ellis St to Guadalupe Pkwy	AM	7	6	1	59	65
				PM	15	7	8	27	65
			Guadalupe Pkwy to 101/280/680 I/C	AM	5	5	0	65	65
				PM	21	9	12	17	39
			101/280/680 I/C to Bernal Rd	AM	11	7	4	40	65
				PM	12	7	5	36	65
			Bernal Rd to Cochrane Road	AM	8	8	0	65	65
				PM	8	8	0	65	65
	NB		Cochrane Road to Bernal Road	AM	9	9	0	65	65
				PM	9	9	0	65	65
			Bernal Rd to 101/280/680 I/C	AM	17	8	9	29	65
				PM	8	8	0	65	65
			101/280/680 I/C to Guadalupe Pkwy	AM	14	10	4	21	30
				PM	5	5	0	65	65
			Guadalupe Pkwy to Ellis Street	AM	10	6	4	44	65
				PM	9	6	3	48	65
		Ellis to San Mateo Co. Line	AM	7	5	2	43	65	
			PM	11	5	6	27	65	
SCL-237	WB	McCarthy Blvd to Mathilda Ave	AM	12	7	5	31	65	
			PM	10	7	3	37	65	
	EB	Mathilda Ave to Rte 880/237 Jct.	AM	8	6	2	49	65	
			PM	15	12	3	26	65	
SCL-280	SB	Magdalena Ave to Leland Ave	AM	11	10	1	57	65	
			PM	13	10	3	49	65	
	NB	Leland Ave to Magdalena Ave	AM	17	10	7	38	65	
			PM	12	10	2	54	65	
SM-101	SB	Whipple Ave to Santa Clara Co. Line	AM	18	7	11	22	65	
			PM	12	7	5	33	65	
	NB	Santa Clara Co. Line to Whipple Ave	AM	8	6	2	52	65	
			PM	10	6	4	41	65	
SOL-80	EB	Carquinez Bridge Toll Plaza	AM	1	1	0	65	65	
			PM	1	1	0	65	65	
SON-101	SB	Rte 12 to Wilfred Avenue	AM	4	4	0	65	65	
			PM	4	4	0	65	65	
	NB	Wilfred Ave to Rte 12	AM	11	4	7	22	65	
			PM	7	4	3	34	65	
Overall Average Speed							40.6	60.2	

N/A: Due to Resource shortfall 2005 data is not available

* Data collection location not available within these limits.

GENERAL FACILITY INFORMATION

- **Mainline HOV Lanes**
 - **Toll Bridge HOV Bypass Lanes**
-

MAINLINE HOV LANES

ALA-80: San Francisco-Oakland Bay Bridge Toll Plaza

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
	LIMITS:	<p>Lane 1: Route 880 left side HOV ramp to metering signals Length = 0.4 mile</p> <p>Lane 2: Route 580 connector to metering signals Length = 1.1 miles</p> <p>Lane 21: Route 880 right side HOV ramp to metering signals Length = 0.6 mile</p> <p>Lane 22: HOV slip ramp to metering signals Length = 0.8 miles</p>
	DATES:	<p>Apr 17, 1970 Opened; Buses only</p> <p>Dec 8, 1971 Carpools permitted; min. occ. three persons per vehicle</p> <p>Feb 2, 1979 Buses only in lane 17; 6:30-8:30, Mon-Fri-only lane on W. Grand Ave, approached from Maritime on-ramp to toll plaza; temporary measure in response to BART tube closure</p> <p>Apr 17, 1979 Bus-only in lane 17 & W. Grand Ave approach made permanent; W. Grand Ave slip ramp designated for buses only; hours of operation changed to 6:00-9:00 AM, Mon-Fri; lane 8 reverted to mixed flow; carpools permitted to use lane 10 during AM peak</p> <p>Oct 12, 1981 Opened; lanes 18 & 19; buses only, 24 hours/day, 7 days/week; carpools permitted, 6:00-9:00 AM, Mon-Fri; lane 17 reverted to mixed flow</p> <p>Jul 18, 1983 Lanes 8 & 9 reverted to mixed flow; lane 1 converted to HOV; lanes 18/19 merge moved from downstream of toll plaza to downstream of metering signals</p> <p>Apr 22, 1986 Mini toll plaza (lane 18, 19, 20) opened; right side HOV lanes designated as lanes 21 & 22</p> <p>Sep 7, 1988 Hours of Operation were extended from 6-9 AM to 5-10 AM on September 7, 1988.</p> <p>Sep 7, 1988 The HOVL violation fine increased in early 1989.</p> <p>Nov 3, 1989 Lane 2 converted to HOV; left HOVL extended upstream to 32nd St on-ramp; AM HOV hours changed to 5:00- 10:00 AM, Mon-Fri</p> <p>Mar 1, 1992 Motorcycles permitted</p> <p>Oct 1, 1995 Two-seat vehicles with two occupants permitted</p> <p>Apr 8, 1997 HOV slip ramp approaching right side of toll plaza opened; buses only, 24 hours/day, 7 days/week; carpools/motorcycles OK, 5:00-10:00 AM, 3:00-6:00 PM, Mon-Fri</p> <p>Jul 23, 1997 Route 880 right side HOV ramp opened; buses only, 24 hours/day, 7 days/week; carpools/motorcycles OK, 5:00-10:00 AM; 3:00-6:00 PM, Mon-Fri</p> <p>Feb. 2, 1998 PM Hours of operation changed to 3:00-7:00 PM</p> <p>May 16, 1998 Route 880 left side HOV ramp opened; buses/carpools/ motorcycles only, 5:00-10:00 AM, 3:00-7:00 PM, Mon-Fri</p> <p>Jul 1, 2000 Inherently low-emission vehicles with DMV issued decals permitted.</p>

ALA-80: HOV FLYOVER

OCCUPANCY Three or more persons per vehicle, motorcycles, 2 seater vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Powell St (MP 3.8) to HOV Slip Ramp(MP. 4.8)
Length = 1.0 miles

Feb 2, 1998 Opened; HOV flyover. Hours of operation 5:00 AM-7:00 PM, Monday thru Friday

Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri

ALA-80: Contra Costa County Line to Powell St

OCCUPANCY Three or more persons per vehicle, motorcycles, 2 seater vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Contra Costa County Line (MP 8.0) to Powell St (MP 3.8)
Length = 4.2 miles

DATES: Feb. 2, 1998 Opened; Contra Costa County Line to Powell St; HOV flyover opened; hours of operation 5:00 AM-7:00 PM, Monday thru Friday

Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri

EASTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: I-880 Viaduct(MP 2.7) to Contra Costa County Line (MP 8.0)
Length = 5.3 miles

DATES: Jul 31, 1998 Opened; Gilman St to Contra Costa County Line

Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri

Nov 20, 1998 Extended; Powell St to Gilman St.

Nov 12, 2003 Extended; I 880 Viaduct to Powell St.

ALA-84: Newark Blvd to Dumbarton Bridge Toll Plaza

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday

LIMITS: Newark Blvd U/C (MP 4.9) to west of Toll Plaza (MP 3.1)
Length = 1.8 miles

DATES: Oct 6, 1982 Opened with new bridge; 1000-ft long bypass lane at booths

Nov 22, 1989 Extended due to Loma Prieta quake; Newark Blvd to University Ave

Nov 17, 1990 Shortened; Newark Blvd to west of Toll Plaza

Jan 1, 1992 Minimum occupancy reduced from three to two persons per vehicle

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Mission Blvd. (MP 2.4) to one mile south of Rte 238 (MP 19.3)
Length = 16.7 miles

DATES: Sep 19, 1991 Opened; north of Tennyson to A-Street
Nov 8, 1991 Extended; Industrial Pkwy to Tennyson
Jun 26, 1992 Extended; A-Street to Rte 238
Dec 3, 1993 Extended; Whipple Rd to Industrial Pkwy
Dec 1994 Hours of operation changed from 5-10 AM and 3-6 PM to
5-9 AM, 3-7 PM respectively
Sep 23, 1996 Shortened; Whipple Rd to one mile south of Rte 238
Jun 15, 1998 Extended; Alvarado/Fremont Blvd. to Whipple Rd.
Oct 30, 1998 Extended; Mowry Ave. to Alvarado/Fremont Blvd.
Nov 30, 1998 Extended; Mission Blvd. (Rte 262) to Mowry Ave.

ALA-880: 16th Street to SFOBB Toll Plaza

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.

NORTHBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: 16th Street to SFOBB Toll Plaza
Length = 1.2 miles

DATES: May 16, 1998 Opened; 16th Street to left HOV ramp at SFOBB Toll Plaza

ALA-880: West Grand Ave. to EB Rte 80 HOV Lane Merge

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.

NORTHBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: West Grand Ave.(MP R34.7) to EB Rte 80 HOV Lane Merge (MP R35.8)
Length = 1.1 miles

DATES: Nov 12, 2003 Opened; West Grand Ave to EB Rte 80 HOV Lane Merge

CC-4: West of Railroad Ave. to Port Chicago Highway

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS:	6:00 - 9:00 AM, Monday thru Friday
	LIMITS:	West of Railroad Ave. (MP 22.6) to Port Chicago Highway (MPR16.2) Length = 6.5 miles
	DATES:	May 1, 2000 Opened; Bay Point to Port Chicago Highway; 6-9 AM, Mon-Fri May 5, 2000 Extended: Bailey Road to Port Chicago Highway Jul 23, 2001 Extended: West of Railroad Ave. to Port Chicago Highway
EASTBOUND	HOURS:	3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Port Chicago Highway (MPR 16.2) to West of Railroad Ave. (MPR22.5) Length = 7.0 miles
	DATES:	Aug 6, 2001 Opened; Port Chicago Highway to West of Railroad Ave.; 3-7 PM. Mon-Fri.

CC-80 Route 4 to Alameda County Line

OCCUPANCY	Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Route 4 (MP 9.67) to Alameda County Line (MP 0.0) Length = 9.7 miles
	DATES:	Mar 5, 1997 Opened; Pinole Valley Rd to Cutting Blvd; 5-10 AM, Mon-Fri Apr 18, 1997 2-seat vehicles with 2 persons permitted to use HOVL May 3, 1997 Extended: Cutting Blvd to Central Ave Sep 20, 1997 Extended; Route 4 to Pinole Valley Rd Feb 2, 1998 Extended; Central Ave to Alameda County Line; Hours of operation changed to 5:00 AM-7:00 PM, Mon-Fri Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri
EASTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Alameda County Line (MP 0.0) to West of Route 4 off-ramp (MP 9.9) Length = 9.9 miles
	DATES:	Feb 12, 1997 Opened; San Pablo Dam Rd to Pinole Valley Rd; 3-7 PM, Mon-Fri Feb 13, 1997 Extended; Cutting Blvd to San Pablo Dam Rd Apr 18, 1997 2-seat vehicles with 2 persons permitted to use HOVL May 3, 1997 Extended; Central Ave to Cutting Blvd Aug 30, 1997 Extended; Pinole Valley Rd to Route 4 Feb 2, 1998 Hours of operation changed to 5:00 AM-7:00 PM, Mon-Fri Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri Extended; Central Ave to Alameda County Line

CC-680: Marina Vista to N/O North Main St.

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.
SOUTHBOUND	HOURS: 6:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS: South Marina Vista(MP 24.1) to 0.7 miles N/O North Main St. off-ramp (MP R16.4) Length = 7.8 miles
	DATES: Sep 11, 2004 Opened; S/O Route 4 to N/O North Main St. Jun 14, 2005 Extended S/O Marina Vista to Center Ave. UC
NORTHBOUND	HOURS: 6:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS: Route 242 I/C (R018.707) to South of Marina Vista(24.1) Length = 4.4 miles
	DATES: Apr 28, 2005 Opened; Route 242 to South of Marina Vista.

CC-680: Livorna Rd to Alcosta Blvd.

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.
SOUTHBOUND	HOURS: 6:00 - 9:00 AM, 3:00 - 6:00 PM, Monday thru Friday
	LIMITS: 0.5 miles north of Livorna Rd off-ramp (MP R11.9) to north of Alcosta Blvd on-ramp (MP R21.6) Length = 11.9 miles
	DATES: Oct 3, 1994 Opened; Stone Valley Rd on-ramp to Alcosta Blvd on-ramp Feb 6, 1995 Extended; Livorna Rd on-ramp to Alcosta Blvd May 5, 1999 Shortened; Livorna Rd on-ramp to north of Alcosta Blvd off-ramp
NORTHBOUND	HOURS: 6:00 - 9:00 AM, 3:00 - 6:00 PM, Monday thru Friday
	LIMITS: 0.4 miles south of Alcosta on-ramp (MP R21.6) to Livorna on-ramp (MP R11.9) Length = 12.9 miles
	DATES: Oct 3, 1994 Opened; Alcosta Blvd on-ramp to Stone Valley Rd on-ramp Feb 6, 1995 Extended; Alcosta Blvd to Livorna Rd on-ramp

MRN-101: Richardson Bay Bridge to Greenbrae I/C

OCCUPANCY	Two or more persons per vehicle, motorcycles permitted, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
SOUTHBOUND	HOURS:	6:30 - 8:30 AM, Monday thru Friday
	LIMITS:	North of Greenbrae ped OC (MP 8.4) to south of Strawberry ped OC (MP 4.7) Length = 3.7 miles
	DATES:	Dec 23, 1974 Opened; buses only Jun 16, 1976 Carpools permitted; min. occ. three persons per vehicle Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle Sep 23, 1990 Motorcycles permitted Jul 13, 1998 HOV hours extended to 5:00-9:00 AM Dec 14, 1998 Extended hours cancelled
NORTHBOUND	HOURS:	4:30 - 7:00 PM, Monday thru Friday
	LIMITS:	South of Richardson Bay Bridge (MP 4.0) to north of Corte Madera O/C (MP 7.5) Length = 3.5 miles
	DATES:	Dec 20, 1974 Opened; buses only Jun 15, 1976 Carpools permitted; min. occ. three persons per vehicle Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle Sep 23, 1990 Motorcycles permitted Jul 13, 1998 HOV hours extended to 3:00-7:00 PM Dec 14, 1998 Extended hours cancelled

MRN-101: North San Pedro Rd to Rte 37

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
SOUTHBOUND	HOURS:	6:30 - 8:30 AM, Monday thru Friday
	LIMITS:	Route 37/S. Novato Blvd (MP 18.9) to north of San Pedro U/C (MP 12.8) Length = 6.1 miles
	DATES:	Jul 24, 1987 Opened; Marinwood to North San Pedro Rd Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle Sep 23, 1990 Motorcycles permitted Feb 8, 1991 Extended; Marinwood to Rte 37 Jul 13, 1998 HOV hours extended to 5:00-9:00 AM Dec 14, 1998 Extended hours cancelled
NORTHBOUND	HOURS:	4:30 - 7:00 PM, Monday thru Friday
	LIMITS:	North of San Pedro U/C (MP 12.8) to Route 37/S. Novato Blvd (MP 18.9) Length = 6.1 miles

DATES: Aug 12, 1986 Opened; North San Pedro to Marinwood
 Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle
 Sep 23, 1990 Motorcycles permitted
 Feb 21, 1991 Extended; Marinwood to Rte 37
 Jul 13, 1998 HOV hours extended to 3:00-7:00 PM
 Dec 14, 1998 Extended hours cancelled

SCL-85: Rte 101 (Mountain View) to Rte 101 (So. San Jose)

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Rte 101 (MP 23.8) to Bernal Rd (MP 0.5)
 Length = 23.3 miles

DATES: Apr 25, 1990 Opened; Rte 237 to Rte 280
 Aug 12, 1994 New section; Almaden Expwy to Bernal Rd
 Oct 19, 1994 Extended; Rte 280 to Almaden Expwy
 Nov 13, 1998 Extended; Rte 101 (Mountain View) to Rte 237
 Oct 22, 2004 Opened direct HOV Connector from SB 85 to SB 101

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Rte 85/101 connector ramp in So. San Jose (MP 0.0) to
 Rte 101 in Mountain View (MP 23.8)
 Length = 23.8 miles

DATES: Feb 22, 1990 Opened; Rte 280 to Rte 237
 Aug 12, 1994 New section; Rte 101 (So. San Jose) to Almaden Expwy
 Oct 19, 1994 Extended; Almaden Expwy to Rte 280
 Nov 6, 1998 Extended; Rte 237 to Rte 101 (Mountain View)
 Sep 20, 2004 Opened direct HOV Connector from NB 101 to NB 85

SCL-87: Route 101 I/C to Taylor Avenue

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Route 101 I/C to Taylor Avenue
 Length = 2.8 miles

DATES: Dec 23, 2004 Opened

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Taylor Avenue to Route 101 I/C
 Length = 2.8 miles

DATES: Apr 18, 2005 Opened

SCL-101: San Mateo County Line to Cochrane Rd

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
SOUTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	San Mateo County Line (M 52.6) to 0.5 mile north of Cochrane Rd off-ramp (MP 18.7) Length = 34.8 miles
	DATES:	Nov 10, 1986 Opened; Lawrence Expwy to De La Cruz Blvd Aug 8, 1988 Extended; Ellis St to Lawrence Expwy Oct 10, 1988 Extended; N. Rengstorff Ave to Ellis St Dec 12, 1988 Extended; San Mateo Co. Line to N. Rengstorff Ave Jun 15, 1990 New section; Rte 101/280/680 I/C to north of Bernal Rd Jan 29, 1993 Extended; Rte 880 to Rte 101/280/680 I/C Apr 5, 1993 Extended; De La Cruz Blvd to Rte 880 Mar 19, 2003 Opened; Bernal Road to Cochrane Road
NORTHBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Cochrane Rd on-ramp (MP 17.9) to San Mateo County Line (MP 51.2) Length = 34 miles
	DATES:	Nov 7, 1986 Opened; Guadalupe Pkwy to Great America Pkwy Oct 10, 1988 Extended; Great America Pkwy to N. Rengstorff Ave Dec 12, 1988 Extended; N. Rengstorff Ave to San Mateo Co. Line Jun 7, 1990 New section; Bernal Rd to Rte 101/280/680 I/C Feb 1, 1993 Extended; Rte 101/280/680 I/C to Old Oakland Rd Apr 5, 1993 Extended; Old Oakland Rd to Guadalupe Pkwy May 19, 2003 Opened; Cochrane Rd to Bernal Road

SCL-237: Rte 880 to Mathilda Ave

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
WESTBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	McCarthy Rd on-ramp (MP 8.7) to east of Mathilda Ave (MP 4.0) Length = 4.7 miles
	DATES:	Oct 31, 1984 Opened; Rte 880 to Lawrence Expwy; right side HOVL Nov/Dec 1991 Extended; Lawrence Expwy to east of Mathilda Ave; right side HOVL May 1, 1995 Rte 237 upgraded to fwy; HOVL relocated to left lane; hours expanded to include the PM peak (3-7 PM)
EASTBOUND	HOURS:	5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Mathilda Ave (MP 3.4) to Jct Rte 880/237 Length = 6.7 miles
	DATES:	Oct 31, 1984 Opened; Lawrence Expwy to Rte 880; right side HOVL Nov/Dec 1991 Extended; Mathilda Ave to Rte 880 May 1, 1995 Rte 237 upgraded to fwy; HOVL relocated to left lane; hours expanded to include the AM peak (5-9 AM)

Oct 2, 1996 Shortened; Mathilda Ave to 1.1 miles west of Rte 880
Apr 29, 2005 Opened; Route 880/237 HOVL Direct Connector

SCL-280: Magdalena Ave to Leland Ave

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Magdalena Ave on-ramp (MP 14.0) to north of Meridian Ave (MP R4.2)
Length = 11.2 miles

DATES: Dec 1, 1990 Opened; Magdalena Ave to north of Meridian Ave

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: South of Leland Ave (MP L4.7) to Magdalena Ave off-ramp (MP 14.0)
Length = 10.7 miles

DATES: Nov 21, 1990 Opened; south of Leland Ave to Magdalena Ave

SCL-880: I-880/ 237 Junction to Dixon Landing Road

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Dixon Landing Road to I-880/237
Length = 2.0 miles

DATES: 5/00/2005 Opened

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: I-880/237 Jct to Dixon Landing Road
Length = 2.0 miles

DATES: Apr 22, 2005 Opened

SM-101: Whipple Ave to Santa Clara County Line

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Whipple Ave (MP 6.6) to Santa Clara Co. Line (MP 0.0)
Length = 6.6 miles

DATES: Jul 18, 1991 Opened

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday
LIMITS: Santa Clara Co. Line (MP 0.0) to Whipple Ave (MP 6.6)
Length = 6.6 miles
DATES: Jul 16, 1991 Opened

SOL-80: Carquinez Bridge Toll Plaza

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons, inherently low-emission vehicles (ILEVs) with DMV issued decals.

EASTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: 0.1 miles West of Toll Plaza (MP 0.5) to east of Toll Plaza (MP 0.6)
Length = 0.1 mile

DATES: Jul 1, 1991 Reduced 10c toll tickets for HOVs (with purchase of 50-ticket book)
Oct 1, 1995 Toll-free passage in designated booth only;
Two-seat vehicles with two occupants permitted
Jul 30, 1997 Opened; West of Toll Plaza to east of Toll Plaza

NOTE: HOV lane is located in toll booth #6

SON-101: Rte 12 to Wilfred Avenue

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.

SOUTHBOUND HOURS: 7:00 - 9:00 AM, 3:00 - 6:30 PM, Monday thru Friday

LIMITS: Route 12 to North of Wilfred Avenue
Length = 4 miles

DATES: Nov 4, 2002 Opened.
Dec 11, 2003 Hours of Operation changed to 7-9 AM, 3-6:30 PM, MON - FRI

NORTHBOUND HOURS: 7:00 - 9:00 AM, 3:00 - 6:30 PM, Monday thru Friday

LIMITS: Wilfred Avenue to South of Route 12
Length = 4 miles

DATES: Nov 4, 2002 Opened.
Dec 11, 2003 Hours of Operation changed to 7-9 AM, 3-6:30 PM, MON - FRI

TOLL BRIDGE HOV BYPASS LANES

Benicia-Martinez, Antioch Bridges

OCCUPANCY	Three or more persons per vehicle, motorcycles, two-seat vehicles with two occupants, inherently low-emission vehicles (ILEVs) with DMV issued decals.	
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
TOLL-FREE BOOTH	Benicia	#4, #5
	Antioch	#2, #3
DATES	Jul 1, 1991	Reduced 10¢ toll tickets for HOVs (with purchase of 50-ticket book)
	Oct 1, 1995	Toll-free passage in designated booth only; Two-seat vehicles with two occupants permitted

Richmond-San Rafael Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles, two-seat vehicles with two occupants, inherently low-emission vehicles (ILEVs) with DMV issued decals.	
HOURS	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday	
TOLL-FREE BOOTH	#4	
DATES	Oct. 23, 1989	Toll-free passage in designated booth only;
	Oct 1, 1995	Two-seat vehicles with two occupants permitted

San Mateo-Hayward, Dumbarton Bridges

OCCUPANCY	Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs) with DMV issued decal.	
HOURS	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday	
TOLL-FREE BOOTH	San Mateo	#1
	Dumbarton	Left side bypass lane
DATES	See information in Mainline HOV Lane section	

TOLL BRIDGE HOV BYPASS LANES

San Francisco-Oakland Bay Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles, two-seat vehicles with two occupants, inherently low-emissions vehicles (ILEVs) with DMV issued decal.
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
TOLL-FREE BOOTHS	#1, #2, Lanes 21 & 22
DATES	See information in Ala-80 Mainline HOV Lane section

Carquinez Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles, two-seat vehicles with two occupants, inherently low-emissions vehicles (ILEVs) with DMV issued decal.
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
TOLL-FREE BOOTHS	# 6
DATES	See information in Sol-80 Mainline HOV lane section

MAINLINE HOV LANES

VOLUME/PERSON DATA and VIOLATION HISTORY

ALAMEDA-80

San Francisco-Oakland Bay Bridge Toll Plaza

Westbound - A.M.

Typical data for 2005 ⁽⁶⁾

VEHICLES	PEAK PERIOD ⁽⁵⁾ 6:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
Motorcycles	610	—	159	—
Buses ⁽⁴⁾	242	—	70	—
Carpools ⁽¹⁾	6569	—	2395	—
2 - seaters ⁽²⁾	1686	—	537	—
Vanpools	139	—	47	—
Violators	1015	—	281	—
TOTAL	10261	24000 ⁽⁷⁾	3489	5494 ⁽⁷⁾

PERSONS	PEAK PERIOD ⁽⁵⁾ 6:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
Motorcycles	610	—	159	—
Buses ⁽⁴⁾	8470	—	2450	—
Carpools ⁽¹⁾	20364	—	7425	—
2 - seaters ⁽²⁾	3372	—	1074	—
Vanpools	1390	—	470	—
Violators	1432	—	431	—
TOTAL	35638	27600 ⁽⁷⁾	12009	6318 ⁽⁷⁾

RATES

HOV Lane Occupancy Rate	3.5 persons/veh	3.4 persons/veh
Mixed Flow Occupancy Rate ⁽⁷⁾	1.1 persons/veh	1.1 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	9.9 %	8.1 %

- NOTES:** (1) 3 or more persons per vehicle.
 (2) 2 - seater vehicles with 2 persons.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) Assumed AM bus occupancy = 35 persons/vehicle.
 (5) HOV lanes in operation from 5:00 to 10:00 AM.
 (6) Observations conducted 11/15/05 at the SFOBB Toll Plaza.
 (7) Data from Toll Plaza Vehicle Registration Report.

ALAMEDA-80

San Francisco-Oakland Bay Bridge Toll Plaza

Westbound - P.M.

Typical data for 2005 ⁽⁶⁾

VEHICLES	PEAK PERIOD ⁽⁵⁾ 3:00 - 7:00 PM		PEAK HOUR 5:00 - 6:00 P.M.	
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
Motorcycles	215	—	73	—
Buses ⁽⁴⁾	262	—	76	—
Carpools ⁽¹⁾	1575	—	441	—
2 - seaters ⁽²⁾	470	—	138	—
Vanpools	78	—	31	—
Violators	506	—	123	—
TOTAL	3106	26479 ⁽⁷⁾	882	7214 ⁽⁷⁾

PERSONS	PEAK PERIOD ⁽⁵⁾ 3:00 - 7:00 PM		PEAK HOUR 5:00 - 6:00 P.M.	
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
Motorcycles	215	—	73	—
Buses ⁽⁴⁾	4192	—	1216	—
Carpools ⁽¹⁾	4883	—	1367	—
2 - seaters ⁽²⁾	940	—	276	—
Vanpools	624	—	248	—
Violators	802	—	200	—
TOTAL	11656	31775 ⁽⁷⁾	3380	8657 ⁽⁷⁾

RATES	PEAK PERIOD ⁽⁵⁾ 3:00 - 7:00 PM		PEAK HOUR 5:00 - 6:00 P.M.	
	HOV Lanes	Mixed Flow Lanes	HOV Lanes	Mixed Flow Lanes
HOV Lane Occupancy Rate	3.8 persons/veh		3.8 persons/veh	
Mixed Flow Occupancy Rate ⁽⁷⁾	1.1 persons/veh		1.1 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	16.3 %		13.9 %	

- NOTES:** (1) 3 or more persons per vehicle.
 (2) 2 - seater vehicles with 2 persons.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) Assumed PM bus occupancy = 16 persons/vehicle.
 (5) HOV lanes in operation from 3:00 to 7:00 P.M.
 (6) Observations conducted 10/25/05 at the SFOBB Toll Plaza.
 (7) Data from Toll Plaza Hourly Vehicle Registration Report.

ALAMEDA-80

San Francisco-Oakland Bay Bridge

Violation History

Westbound

	DATE	TOTAL HOVL VOLUME	VIOLATION RATE	By Lane		By Time				
				Lanes 1 & 2	Lanes 21&22	5 - 6 AM	6 - 7 AM	7 - 8 AM	8 - 9 AM	9 - 10 AM
A.M.	Tue Nov 15, 2005	10261	9.9%	8.7%	11.2%	---	13.3%	8.1%	5.8%	16.1%
PEAK	Wed Nov 3, 2004	10917	10.0%	8.2%	11.7%	21.4%	12.5%	7.9%	6.3%	9.0%
	Wed May 28, 2003	10803	8.2%	7.4%	9.0%	15.5%	8.4%	7.0%	6.1%	9.6%
	Thu May 9, 2002	11481	9.5%	4.9%	13.8%	22.4%	12.0%	7.5%	3.8%	10.5%
	Wed May 23, 2001	13100	10.0%	7.2%	12.8%	22.3%	12.2%	5.8%	6.9%	10.4%
	Thu Nov 9, 2000	12991	14.7%	8.9%	19.9%	37.8%	16.9%	10.4%	6.4%	14.3%
	Thu Oct 14, 1999	11644	19.5%	9.8%	29.7%	60.1%	32.6%	7.7%	6.9%	11.5%
	Tue Apr 21, 1998	9696	10.6%	7.6%	12.5%	14.2%	22.7%	6.4%	4.1%	9.2%
	Wed Jun 11, 1997	7655	10.9%	1.0%	12.4%	20.9%	10.6%	8.1%	6.0%	21.5%
	Tue Apr 23, 1996	7258	10.6%	10.9%	9.6%	17.1%	12.5%	8.2%	7.5%	16.9%
							3 - 4 PM	4 - 5 PM	5 - 6 PM	6 - 7 PM
P.M.	Tue Oct 25, 2005	3106	16.3%	18.5%	13.5%		20.2%	13.5%	13.9%	18.5%
PEAK	Thu Oct 28, 2004	3290	9.1%	10.6%	7.0%		10.9%	7.9%	8.1%	9.6%
	Tue May 27, 2003	3891	14.7%	17.2%	11.8%		24.4%	11.7%	9.3%	15.7%
	Wed Sep 18, 2002	3327	11.7%	12.7%	15.0%		16.5%	11.6%	10.9%	15.8%
	Wed Oct 3, 2001	3602	9.8%	10.6%	8.8%		12.6%	7.6%	9.3%	10.1%
	Thu Oct 19, 2000	3673	25.6%	17.0%	33.3%		32.0%	24.4%	21.1%	25.3%
	Thu Oct 14, 1999	3193	10.6%	12.0%	9.0%		15.6%	10.4%	7.6%	0.097
	Tue Oct 20, 1998	2335	19.1%	15.6%	21.6%		26.6%	24.9%	10.1%	0.17
	Wed Jun 11, 1997	1905	17.0%	19.2%	12.5%		23.0%	14.3%	13.7%	—
	Tue Apr 23, 1996	1737	14.7%	17.2%	7.7%		16.1%	12.5%	15.7%	—

NOTES: (a) Two-seater vehicles with 2 persons allowed in HOVL effective October 1, 1995.
 (b) Hours of operation were extended from 3-6 PM to 3-7 PM on February 2, 1998.
 (c) Hours of operation from 5:00 to 10:00 AM and 3:00 to 7:00 PM.

ALAMEDA-80

HOV FLYOVER RAMP

Powell Street to SFOBB

Westbound - A.M.

Typical data for 2005 ⁽⁵⁾

PEAK PERIOD ⁽⁴⁾

6:00 - 10:00 AM

PEAK HOUR

7:00 - 8:00 AM

VEHICLES

	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	219	—	56	—
Buses	59	—	17	—
Carpool ⁽¹⁾	2848	—	1052	—
2 - seaters ⁽²⁾	1017	—	301	—
Vanpools	62	—	10	—
Violators	643	—	203	—
TOTAL	4848	N/A	1639	N/A

PERSONS

	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	219	—	56	—
Buses	2065	—	595	—
Carpool ⁽¹⁾	8829	—	3261	—
2 - seaters ⁽²⁾	2034	—	602	—
Vanpools	620	—	100	—
Violators	1040	—	330	—
TOTAL	14807	N/A	4944	N/A

RATES

HOV Lane occupancy rate	3.1 persons/veh	3.0 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	13.3 %	12.4 %

NOTES: (1) 3 or more persons per vehicle.

(2) 2 - seater vehicles with 2 persons.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 10:00 AM.

(5) Observations conducted 6/2/05 at the downstream touchdown of the flyover

ALAMEDA-80

HOV FLYOVER RAMP

Powell Street to SFOBB

Westbound - P.M.

Typical data for 2005 ⁽⁵⁾

PEAK PERIOD ⁽⁴⁾

3:00 - 7:00 PM

PEAK HOUR

3:00 - 4:00 PM

VEHICLES

	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	30	—	3	—
Buses	84	—	20	—
Carpool ⁽¹⁾	650	—	138	—
2 - seaters ⁽²⁾	176	—	41	—
Vanpools	20	—	11	—
Violators	249	—	110	—
TOTAL	1209	N/A	323	N/A

PERSONS

	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	30	—	3	—
Buses	1344	—	320	—
Carpool ⁽¹⁾	2015	—	428	—
2 - seaters ⁽²⁾	352	—	82	—
Vanpools	160	—	88	—
Violators	402	—	180	—
TOTAL	4303	N/A	1101	N/A

RATES

HOV Lane occupancy rate	3.6 persons/veh	3.4 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	20.6 %	34.1 %

NOTES: (1) 3 or more persons per vehicle.

(2) 2 - seater vehicles with 2 persons.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 PM.

(5) Observations conducted 5/18/05 at the downstream touchdown of the flyover.

ALAMEDA-80

HOV FLYOVER RAMP

Powell Street to SFOBB

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Jun 2, 2005	6:00 - 10:00 AM	4848	13.3%
	Tue Dec 14, 2004	6:00 - 10:00 AM	2937	16.3%
	Wed Nov 5, 2003	6:00 - 10:00 AM	4286	13.9%
	Wed May 29, 2002	6:00 - 10:00 AM	4644	2.9%
	Wed Mar 28, 2001	5:00 - 10:00 AM	5108	18.6%
	Wed May 17, 2000	5:00 - 10:00 AM	5274	16.5%
	Wed Apr 21, 1999	7:00 - 10:00 AM	3900	5.6%
	Tue Oct 20, 1998	5:00 - 10:00 AM	4575	20.4%
P.M. PEAK	Wed May 18, 2005	3:00 - 7:00 PM	1209	20.6%
	Wed Nov 3, 2004	3:00 - 6:00 PM	953	17.5%
	Tue Nov 4, 2003	3:00 - 6:00 PM	839	26.8%
	Tue Sep 17, 2002	3:00 - 7:00 PM	1123	20.4%
	Wed Oct 3, 2001	3:00 - 7:00 PM	1045	26.1%
	Tue Dec 12, 2000	3:00 - 5:00 PM	490	16.1%
	Wed Feb 3, 1999	3:00 - 7:00 PM	946	30.7%
	Wed Oct 7, 1998	3:00 - 7:00 PM	1055	22.7%

NOTES:

(a) Morning period of operation from 5:00 to 10:00 AM

(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-80

Contra Costa County Line to Powell Street

Westbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 7:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	180	49	64	26
Buses	39	30	18	14
Carpools ⁽¹⁾	3292	530	1363	431
Vanpools	44	15	27	11
Single Occ. ⁽²⁾	—	19913	—	6953
Violators	352	—	156	—
TOTAL	3907	20537	1628	7435

PERSONS	PEAK PERIOD ⁽⁴⁾ 7:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	180	49	64	26
Buses	1365	1050	630	490
Carpools ⁽¹⁾	9472	1336	3929	1207
Vanpools	440	150	270	110
Single Occ. ⁽²⁾	—	21789	—	7645
Violators	450	—	219	—
TOTAL	11907	24374	5112	9478

RATES	PEAK PERIOD ⁽⁴⁾ 7:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.0 persons/veh		3.1 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.3 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.6 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	9.0 %		9.6 %	

- NOTES:**
- (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.
 - (2) Mixed flow lanes only.
 - (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 - (4) HOV lane in operation from 5:00 to 10:00 A.M.
 - (5) Observations conducted 11/16/05 at Ashby Avenue Interchange.

ALAMEDA-80

I-880 Viaduct to Contra Costa County Line

Eastbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 6:00 - 7:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	227	26	39	5
Buses	72	24	21	1
Carpools ⁽¹⁾	3889	688	1108	176
Vanpools	116	9	14	1
1 and 2 Occ. ⁽²⁾	—	26376	—	6918
Violators	744	—	183	—
TOTAL	5048	27123	1365	7101

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 6:00 - 7:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	227	26	39	5
Buses	2520	840	735	35
Carpools ⁽¹⁾	11074	1830	3202	388
Vanpools	1160	90	140	10
1 and 2 Occ. ⁽²⁾	—	29414	—	7721
Violators	1068	—	260	—
TOTAL	16049	32200	4376	8159

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 6:00 - 7:00 PM	
	HOV Lane occupancy rate	3.2 persons/veh		3.2 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.5 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	14.7 %		13.4 %	

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 5/17/05 at Ashby Avenue Interchange.

ALAMEDA-80

Contra Costa County Line to Powell Street

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Nov 16, 2005	7:00 - 10:00 AM	3907	9.0%
	Wed Nov 17, 2004	7:00 - 10:00 AM	3734	7.9%
	Tue Jun 10, 2003	6:00 - 10:00 AM	5181	4.4%
	Wed May 8, 2002	6:00 - 10:00 AM	5414	8.7%
	Wed May 16, 2001	6:00 - 10:00 AM	5289	13.8%
	Thu Oct 5, 2000	7:00 - 10:00 AM	3184	18.5%
	Thu Apr 15, 1999	7:00 - 10:00 AM	3156	11.0%
	Thu Oct 8, 1998	7:00 - 10:00 AM	3019	8.8%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu May 9, 2002	3:00 - 7:00 PM	3102	18.9%
	Thu May 10, 2001	3:00 - 7:00 PM	1936	24.4%
	Thu Jun 1, 2000	3:00 - 7:00 PM	2593	25.9%
	Thu Apr 15, 1999	3:00 - 7:00 PM	2710	21.4%
	Thu Oct 8, 1998	3:00 - 7:00 PM	1943	20.5%

- NOTES:** (a) Morning period of operation from 5:00 to 10:00 AM
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak directions.

ALAMEDA-80

I 880 Viaduct to Contra Costa County Line

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed Jun 5, 2002	6:00 - 10:00 PM	677	17.6%
	Wed May 30, 2001	6:00 - 10:00 PM	606	21.5%
	Tue Dec 19, 2000	7:00 - 10:00 PM	221	7.7%
	Tue Apr 20, 1999	7:00 - 10:00 PM	531	20.9%
	Thu Dec 17, 1998	7:00 - 10:00 PM	311	16.7%
	P.M. PEAK	Tue May 17, 2005	3:00 - 7:00 PM	5048
Wed Nov 17, 2004		3:00 - 5:00 PM	1995	21.5%
Thu May 29, 2003		3:00 - 7:00 PM	4225	9.3%
Thu May 16, 2002		3:00 - 7:00 PM	4535	2.7%
Thu Sep 27, 2001		3:00 - 7:00 PM	4655	6.5%
Thu Sep 14, 2000		3:00 - 7:00 PM	4415	3.4%
Wed Oct 20, 1999		3:00 - 7:00 PM	4287	1.3%
Tue Dec 15, 1998		3:00 - 5:00 PM	1415	7.1%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM
(b) Evening period of operation from 3:00 to 7:00 PM
(c) Data was not collected in 2005 for off-peak direction

ALAMEDA-84

Newark Boulevard to Dumbarton Bridge Toll Plaza

Westbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	92	0	34	0
Buses	18	0	6	0
Carpools ⁽¹⁾	2603	13	1150	5
Vanpools	16	0	8	0
Single Occ. ⁽²⁾	—	5814	—	2506
Violators	40	—	18	—
TOTAL	2769	5827	1216	2511

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	92	0	34	0
Buses	630	0	210	0
Carpools ⁽¹⁾	5307	27	2358	11
Vanpools	160	0	80	0
Single Occ. ⁽²⁾	—	5814	—	2506
Violators	40	—	18	—
TOTAL	6229	5841	2700	2517

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.4 %		1.5 %	

NOTES: (1) Two or more persons per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 10/20/05 at Dumbarton Bridge Toll Plaza.

ALAMEDA-84

Newark Boulevard to Dumbarton Bridge Toll Plaza

Westbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	21	2	10	2
Buses	15	4	3	3
Carpools ⁽¹⁾	972	136	361	57
Vanpools	13	1	2	0
Single Occ. ⁽²⁾	—	3322	—	1295
Violators	11	—	1	—
TOTAL	1032	3465	377	1357

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	21	2	10	2
Buses	525	140	105	105
Carpools ⁽¹⁾	2072	291	767	123
Vanpools	130	10	20	0
Single Occ. ⁽²⁾	—	3322	—	1295
Violators	11	—	1	—
TOTAL	2759	3765	903	1525

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.7 persons/veh		2.4 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.1 %		0.3 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 6:00 P.M.
 (5) Observations conducted 05/10/05 at Dumbarton Bridge Toll Plaza.

ALAMEDA-84

Newark Boulevard to Dumbarton Bridge Toll Plaza

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Oct 20, 2005	6:00 - 9:00 AM	2769	1.4%
	Thu Oct 14, 2004	6:00 - 9:00 AM	2495	0.6%
	Thu Jun 5, 2003	6:00 - 9:00 AM	2496	0.9%
	Tue May 14, 2002	6:00 - 9:00 AM	3044	3.5%
	Tue Apr 10, 2001	6:00 - 10:00 AM	4480	3.1%
	Thu Oct 19, 2000	6:00 - 9:00 AM	4106	3.5%
	Tue Mar 16, 1999	6:00 - 9:00 AM	3906	5.7%
	Thu Apr 2, 1998	6:00 - 9:00 AM	3601	0.4%
	Tue Apr 29, 1997	6:00 - 9:00 AM	2900	16.9%
	Tue May 14, 1996	6:00 - 10:00 AM	3095	15.0%
	Thu Mar 30, 1995	6:00 - 9:00 AM	2248	13.0%
P.M. PEAK	Tue May 10, 2005	3:00 - 6:00 PM	1032	1.1%
	Year 2004	-	-	-
	Thu May 8, 2003	3:00 - 6:00 PM	995	1.1%
	Wed Jun 12, 2002	3:00 - 6:00 PM	959	1.8%
	Tue Mar 20, 2001	3:00 - 6:00 PM	919	2.2%
	Thu Oct 19, 2000	3:00 - 6:00 PM	849	3.1%
	Wed Sep 22, 1999	3:00 - 6:00 PM	949	2.0%
	Wed Apr 15, 1998	3:00 - 6:00 PM	981	1.6%
	Thu Oct 2, 1997	3:00 - 6:00 PM	819	6.6%
	Tue May 14, 1996	3:00 - 6:00 PM	605	2.8%
	Thu Mar 30, 1995	3:00 - 6:00 PM	709	3.8%
	Tue Sep 27, 1994	3:00 - 6:00 PM	701	7.8%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 6:00 PM.
(c) Data was not collected in 2004 for off-peak direction

ALAMEDA-92

Hesperian Boulevard to San Mateo Bridge Toll Plaza

Westbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	81	4	29	2
Buses	14	1	2	0
Carpools ⁽¹⁾	2309	244	946	75
Vanpools	17	2	8	1
Single Occ. ⁽²⁾	—	10193	—	3655
Violators	27	—	15	—
TOTAL	2448	10444	1000	3733

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	81	4	29	2
Buses	490	35	70	0
Carpools ⁽¹⁾	5457	528	2298	162
Vanpools	170	20	80	10
Single Occ. ⁽²⁾	—	10193	—	3655
Violators	27	—	15	—
TOTAL	6225	10780	2492	3829

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.5 persons/veh	2.5 persons/veh	2.5 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh	1.0 persons/veh	1.0 persons/veh	1.0 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh	1.3 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	1.1 %	1.1 %	1.5 %	1.5 %

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 10:00 A.M.
 (5) Observations conducted 05/24/05 at San Mateo Bridge Toll Plaza.

ALAMEDA-92

Hesperian Boulevard to San Mateo Bridge Toll Plaza

Westbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	29	11	15	6
Buses	7	2	2	1
Carpools ⁽¹⁾	1261	496	474	153
Vanpools	14	5	3	1
Single Occ. ⁽²⁾	—	6255	—	2360
Violators	7	—	0	—
TOTAL	1318	6769	494	2521

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	29	11	15	6
Buses	245	70	70	35
Carpools ⁽¹⁾	2927	1101	1070	316
Vanpools	140	50	30	10
Single Occ. ⁽²⁾	—	6255	—	2360
Violators	7	—	0	—
TOTAL	3348	7487	1185	2727

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.5 persons/veh		2.4 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.5 %		0.0 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 6:00 P.M.
 (5) Observations conducted 09/13/05 at San Mateo Bridge Toll Plaza.

ALAMEDA-92

Violation History

Hesperian Blvd. to West of San Mateo - Hayward Bridge Toll Plaza

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue May 24, 2005	6:00 - 9:00 AM	2448	1.1%
	Wed Oct 13, 2004	6:00 - 9:00 AM	2218	2.3%
	Thu May 29, 2003	6:00 - 9:00 AM	2449	1.3%
	Tue Apr 30, 2002	6:00 - 9:00 AM	1834	3.9%
	Thu Sep 20, 2001	6:00 - 9:00 AM	2075	8.1%
	Tue Oct 24, 2000	6:00 - 9:00 AM	2480	8.2%
	Wed Mar 17, 1999	6:00 - 9:00 AM	2534	9.4%
	Tue Mar 17, 1998	6:00 - 9:00 AM	2255	8.2%
	Tue Oct 7, 1997	6:00 - 9:00 AM	2111	14.9%
	Tue Apr 30, 1996	6:00 - 10:00 AM	1899	11.2%
	Tue Apr 4, 1995	6:00 - 9:00 AM	1344	21.1%
	P.M. PEAK	Tue Sep 13, 2005	3:00 - 6:00 PM	1318
Year 2004		-	-	-
Tue Jun 11, 2002		3:00 - 6:00 PM	1275	4.4%
Wed Oct 3, 2001		3:00 - 6:00 PM	1177	5.4%
Thu Apr 13, 2000		3:00 - 6:00 PM	1243	1.4%
Thu Mar 4, 1999		3:00 - 6:00 PM	1128	3.2%
Thu Mar 26, 1998		3:00 - 6:00 PM	1210	3.8%
Wed Oct 8, 1997		3:00 - 6:00 PM	1138	6.8%
Tue Apr 30, 1996		3:00 - 6:00 PM	973	7.9%
Tue Apr 4, 1995		3:00 - 6:00 PM	944	10.3%
Wed Oct 5, 1994		3:00 - 6:00 PM	1003	14.1%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.
(b) Evening period of operation from 3:00 to 6:00 PM.
(c) Data was not collected in 2004 for off-peak direction

ALAMEDA-680

Route 84 to Route 237 Calaveras Blvd.

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	107	9	34	8
Buses	1	2	1	0
Carpools ⁽¹⁾	1941	273	630	173
Vanpools	8	0	4	0
Single Occ. ⁽²⁾	—	16376	—	5721
Violators	76	—	27	—
TOTAL	2133	16660	696	5902

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	107	9	34	8
Buses	35	70	35	0
Carpools ⁽¹⁾	4010	576	1316	366
Vanpools	80	0	40	0
Single Occ. ⁽²⁾	—	16376	—	5721
Violators	76	—	27	—
TOTAL	4308	17031	1452	6095

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.0 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.1 persons/veh		1.1 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.6 %		3.9 %	

- NOTES:** (1) Two or more persons per vehicle.
(2) Mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
(4) HOV lane in operation from 5:00 to 9:00 A.M.
(5) Observations conducted 10/04/05 at Vargas Rd. I/C.

ALAMEDA-680

Route 84 to Route 237 Calaveras Blvd.

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	24	6	8	5
Buses	1	7	1	1
Carpools ⁽¹⁾	1673	1076	556	137
Vanpools	36	14	4	0
Single Occ. ⁽²⁾	—	10980	—	4179
Violators	18	—	7	—
TOTAL	1752	12083	576	4322

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	24	6	8	5
Buses	35	245	35	35
Carpools ⁽¹⁾	3388	2257	1116	293
Vanpools	360	140	40	0
Single Occ. ⁽²⁾	—	10980	—	4179
Violators	18	—	7	—
TOTAL	3825	13628	1206	4512

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.0 %		1.2 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 11/03/05 at Vargas Rd. I/C.

ALAMEDA - 680

Route 84 to Route 237 Calaveras Blvd.

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Oct 4, 2005	6:00 - 9:00 AM	2133	3.6%
	Thu Dec 2, 2004	6:00 - 9:00 AM	1970	9.8%
	Thu Oct 9, 2003	6:00 - 9:00 AM	2138	0.2%
	Thu Dec 5, 2002	6:00 - 9:00 AM	1098	4.4%
P.M. PEAK	Thu Nov 3, 2005	3:00 - 6:00 PM	1752	1.0%
	Year 2004	-	-	-
	Tue Jun 3, 2003	3:00 - 6:00 PM	1149	4.4%

- NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2004 for off-peak direction

ALAMEDA-880

Marina Boulevard to Whipple Road

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	68	13	19	6
Buses	4	23	2	11
Carpools ⁽¹⁾	2092	596	624	198
Vanpools	47	4	13	2
Single Occ. ⁽²⁾	—	13017	—	4589
Violators	67	—	25	—
TOTAL	2278	13653	683	4806

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	68	13	19	6
Buses	140	805	70	385
Carpools ⁽¹⁾	4347	1236	1287	407
Vanpools	470	40	130	20
Single Occ. ⁽²⁾	—	13017	—	4589
Violators	67	—	25	—
TOTAL	5092	15111	1531	5407

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh	1.3 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	2.9 %	2.9 %	3.7 %	3.7 %

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 03/30/05 at Tennyson Road I/C.

ALAMEDA-880

Mission Boulevard to Whipple Road

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	91	9	45	2
Buses	17	15	6	5
Carpools ⁽¹⁾	2472	953	915	286
Vanpools	15	7	3	2
Single Occ. ⁽²⁾	—	12910	—	4517
Violators	100	—	43	—
TOTAL	2695	13894	1012	4812

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	91	9	45	2
Buses	595	525	210	175
Carpools ⁽¹⁾	5409	2028	2001	602
Vanpools	150	70	30	20
Single Occ. ⁽²⁾	—	12910	—	4517
Violators	100	—	43	—
TOTAL	6345	15542	2329	5316

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.4 persons/veh		2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.7 %		4.2 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/18/05 at Mowry I/C.

ALAMEDA-880

Whipple Road to South of Route 238

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	3	30	2
Buses	31	10	12	4
Carpools ⁽¹⁾	2551	85	993	46
Vanpools	29	4	11	2
Single Occ. ⁽²⁾	—	10842	—	3763
Violators	54	—	16	—
TOTAL	2735	10944	1062	3817

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	70	3	30	2
Buses	1085	350	420	140
Carpools ⁽¹⁾	5396	177	2159	94
Vanpools	290	40	110	20
Single Occ. ⁽²⁾	—	10842	—	3763
Violators	54	—	16	—
TOTAL	6895	11412	2735	4019

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.5 persons/veh		2.6 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.0 %		1.5 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 10/06/05 at Tennyson Road I/C.

ALAMEDA-880

Whipple Road to South of Route 238

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	109	9	24	6
Buses	45	13	11	4
Carpools ⁽¹⁾	3507	506	1241	255
Vanpools	15	20	8	11
Single Occ. ⁽²⁾	—	13405	—	4416
Violators	104	—	15	—
TOTAL	3780	13953	1299	4692

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	109	9	24	6
Buses	1575	455	385	140
Carpools ⁽¹⁾	7347	1075	2584	539
Vanpools	150	200	80	110
Single Occ. ⁽²⁾	—	13405	—	4416
Violators	104	—	15	—
TOTAL	9285	15144	3088	5211

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane occupancy rate	2.5 persons/veh		2.4 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.4 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.8 %		1.2 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 04/05/05 at Tennyson Road I/C.

ALAMEDA-880

Marina Boulevard to Whipple Road

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Mar 30, 2005	6:00 - 9:00 AM	2278	2.9%
	Wed Nov 3, 2004	6:00 - 9:00 AM	2723	3.6%
	Tue Oct 7, 2003	6:00 - 9:00 AM	3049	3.7%
	Tue Jun 11, 2002	6:00 - 9:00 AM	3638	7.5%
	Wed Mar 21, 2001	6:00 - 9:00 AM	3971	5.2%
	Tue May 9, 2000	6:00 - 9:00 AM	3661	4.6%
	Thu Mar 4, 1999	6:00 - 9:00 AM	3012	5.7%
	Tue Oct 27, 1998	6:00 - 9:00 AM	2958	10.1%
	Thu May 8, 1997	6:00 - 9:00 AM	2257	16.0%
	Tue May 21, 1996	6:00 - 9:00 AM	1926	13.7%
	Wed Mar 29, 1995	6:00 - 9:00 AM	1088	2.8%
P.M. PEAK	Tue Nov 8, 2005	3:00 - 6:00 PM	3053	2.0%
	Wed Dec 1, 2004	3:00 - 6:00 PM	3036	2.6%
	Wed Jun 4, 2003	3:00 - 6:00 PM	3708	6.0%
	Wed Jun 5, 2002	3:00 - 6:00 PM	3401	5.2%
	Thu Apr 26, 2001	3:00 - 6:00 PM	3134	3.9%
	Tue May 9, 2000	3:00 - 6:00 PM	2484	5.6%
	Tue Mar 2, 1999	3:00 - 6:00 PM	2307	4.3%
	Tue Oct 27, 1998	3:00 - 6:00 PM	2218	6.0%
	Wed May 7, 1997	3:00 - 7:00 PM	2665	8.0%
	Tue May 7, 1996	3:00 - 7:00 PM	2609	4.2%
	Wed Apr 5, 1995	3:00 - 7:00 PM	3238	3.1%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-880

Whipple Road to South of Route 238

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Oct 6, 2005	6:00 - 9:00 AM	2735	2.0%
	Tue Nov 2, 2004	6:00 - 9:00 AM	2954	5.3%
	Thu May 22, 2003	6:00 - 9:00 AM	2920	1.4%
	Thu Sep 12, 2002	6:00 - 9:00 AM	2560	8.8%
	Thu Oct 11, 2001	6:00 - 9:00 AM	2212	5.2%
	Tue Nov 7, 2000	6:00 - 9:00 AM	1648	7.6%
	Tue Nov 2, 1999	6:00 - 9:00 AM	1845	8.1%
	Wed Oct 28, 1998	6:00 - 9:00 AM	1582	17.2%
	Wed Oct 8, 1997	6:00 - 9:00 AM	1147	12.7%
	Tue Nov 5, 1996	6:00 - 9:00 AM	2291	8.1%
	Wed Mar 29, 1995	6:00 - 9:00 AM	1158	17.8%
P.M. PEAK	Tue Apr 5, 2005	3:00 - 6:00 PM	3780	2.8%
	Tue Nov 30, 2004	3:00 - 6:00 PM	3422	1.6%
	Thu Oct 9, 2003	3:00 - 6:00 PM	3657	3.0%
	Wed May 8, 2002	3:00 - 6:00 PM	3878	8.4%
	Wed May 2, 2001	3:00 - 6:00 PM	4069	4.8%
	Thu Oct 5, 2000	3:00 - 6:00 PM	4433	6.4%
	Tue Nov 2, 1999	3:00 - 6:00 PM	2238	26.5%
	Wed Oct 28, 1998	3:00 - 6:00 PM	2515	8.3%
	Tue May 6, 1997	3:00 - 7:00 PM	3788	11.1%
	Thu Oct 10, 1996	3:00 - 7:00 PM	4098	6.0%
	Wed Mar 29, 1995	3:00 - 7:00 PM	3869	11.0%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-880

Whipple Road to Mission Boulevard

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	26	5	9	0
Buses	5	31	2	6
Carpools ⁽¹⁾	1834	181	711	50
Vanpools	24	3	6	1
Single Occ. ⁽²⁾	—	12867	—	4366
Violators	59	—	11	—
TOTAL	1948	13087	739	4423

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	26	5	9	0
Buses	175	1085	70	210
Carpools ⁽¹⁾	3804	395	1468	104
Vanpools	240	30	60	10
Single Occ. ⁽²⁾	—	12867	—	4366
Violators	59	—	11	—
TOTAL	4304	14382	1618	4690

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh	1.2 persons/veh	1.2 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	3.0 %	3.0 %	1.5 %	1.5 %

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 10/26/05 at Mowry I/C.

ALAMEDA-880

Whipple Road to Mission Boulevard

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	33	6	11	2
Buses	9	16	6	3
Carpools ⁽¹⁾	2428	342	868	134
Vanpools	26	20	8	7
Single Occ. ⁽²⁾	—	11786	—	4213
Violators	43	—	12	—
TOTAL	2539	12170	905	4359

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	33	6	11	2
Buses	315	560	210	105
Carpools ⁽¹⁾	5035	719	1808	281
Vanpools	260	200	80	70
Single Occ. ⁽²⁾	—	11786	—	4213
Violators	43	—	12	—
TOTAL	5686	13271	2121	4671

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.7 %		1.3 %	

- NOTES:** (1) Two or more persons per vehicle.
(2) Mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
(4) HOV lane in operation from 3:00 to 7:00 P.M.
(5) Observations conducted 11/09/05 at Mowry I/C.

ALAMEDA-880

Mission Boulevard to Whipple Road

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	32	21	10	9
Buses	14	15	9	9
Carpools ⁽¹⁾	1199	682	434	283
Vanpools	20	0	7	0
Single Occ. ⁽²⁾	—	12098	—	4443
Violators	62	—	19	—
TOTAL	1327	12816	479	4744

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	32	21	10	9
Buses	490	525	315	315
Carpools ⁽¹⁾	2500	1478	910	627
Vanpools	200	0	70	0
Single Occ. ⁽²⁾	—	12098	—	4443
Violators	62	—	19	—
TOTAL	3284	14122	1324	5394

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.5 persons/veh		2.8 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	4.7 %		4.0 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 04/14/05 at Mowry I/C.

ALAMEDA-880

Mission Boulevard to Whipple Road

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	91	9	45	2
Buses	17	15	6	5
Carpools ⁽¹⁾	2472	953	915	286
Vanpools	15	7	3	2
Single Occ. ⁽²⁾	—	12910	—	4517
Violators	100	—	43	—
TOTAL	2695	13894	1012	4812

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	91	9	45	2
Buses	595	525	210	175
Carpools ⁽¹⁾	5409	2028	2001	602
Vanpools	150	70	30	20
Single Occ. ⁽²⁾	—	12910	—	4517
Violators	100	—	43	—
TOTAL	6345	15542	2329	5316

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.4 persons/veh		2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.7 %		4.2 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/18/05 at Mowry I/C.

ALAMEDA-880

Whipple Road to Mission Boulevard

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Oct 26, 2005	6:00 - 9:00 AM	1948	3.0%
	Tue Nov 9, 2004	6:00 - 9:00 AM	2355	2.7%
	Tue Jun 3, 2003	6:00 - 9:00 AM	2418	3.5%
	Tue Sep 24, 2002	6:00 - 9:00 AM	2525	3.2%
	Tue Mar 27, 2001	6:00 - 9:00 AM	3423	4.8%
	Tue Mar 28, 2000	6:00 - 9:00 AM	2438	6.2%
	Wed May 19, 1999	6:00 - 9:00 AM	2118	3.7%
P.M. PEAK	Wed Nov 9, 2005	3:00 - 6:00 PM	2539	1.7%
	Tue Dec 14, 2004	3:00 - 6:00 PM	2639	6.8%
	Wed May 7, 2003	3:00 - 6:00 PM	2227	4.2%
	Tue May 7, 2002	3:00 - 6:00 PM	2114	5.8%
	Wed Oct 17, 2001	3:00 - 6:00 PM	2157	3.8%
	Thu Nov 9, 2000	3:00 - 6:00 PM	2060	5.9%
	Tue Mar 9, 1999	3:00 - 6:00 PM	1966	20.7%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-880

Mission Boulevard to Whipple Road

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Apr 14, 2005	6:00 - 9:00 AM	1327	4.7%
	Thu Nov 4, 2004	6:00 - 9:00 AM	1160	3.8%
	Wed Oct 15, 2003	6:00 - 9:00 AM	1413	2.5%
	Tue Apr 16, 2002	6:00 - 9:00 AM	925	2.9%
	Thu Nov 1, 2001	6:00 - 9:00 AM	856	9.7%
	Wed Mar 29, 2000	6:00 - 9:00 AM	956	5.6%
	Wed Mar 10, 1999	6:00 - 9:00 AM	833	13.2%
P.M. PEAK	Tue Oct 18, 2005	3:00 - 6:00 PM	2695	3.7%
	Tue Nov 23, 2004	3:00 - 6:00 PM	2150	0.2%
	Wed Oct 15, 2003	3:00 - 6:00 PM	2366	3.1%
	Wed May 15, 2002	3:00 - 6:00 PM	2663	6.0%
	Thu Jun 7, 2001	3:00 - 6:00 PM	2755	3.9%
	Wed Nov 1, 2000	3:00 - 6:00 PM	3263	3.6%
	Thu Mar 18, 1999	3:00 - 6:00 PM	2657	4.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

ALAMEDA-880

16th Street to SFOBB Toll Plaza

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	74	10	24	4
Buses	51	5	17	0
Carpools ⁽¹⁾	1190	0	469	0
Vanpools	13	0	2	0
1 and 2 Occ. ⁽²⁾	—	4880	—	1170
Violators	155	—	49	—
TOTAL	1483	4895	561	1174

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	74	10	34	2
Buses	1785	175	595	0
Carpools ⁽¹⁾	3297	0	1336	0
Vanpools	130	0	20	0
1 and 2 Occ. ⁽²⁾	—	5337	—	1255
Violators	259	—	84	—
TOTAL	5545	5522	2069	1257

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	3.7 persons/veh		3.7 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.7 persons/veh		1.9 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	10.5 %		8.7 %	

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 3/16/05 north of 7th Street Interchange.

ALAMEDA-880

16th Street to SFOBB Toll Plaza

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Mar 16, 2005	6:00 - 10:00 AM	1483	10.5%
	Thu Oct 28, 2004	7:00 - 10:00 AM	1647	15.5%
	Wed May 21, 2003	5:00 - 10:00 AM	1451	5.6%
	Wed Apr 17, 2002	6:00 - 10:00 AM	1613	4.8%
	Thu Mar 22, 2001	6:00 - 10:00 AM	2402	15.5%
	Wed Sep 27, 2000	7:00 - 10:00 AM	2983	16.4%
	Tue May 18, 1999	6:00 - 10:00 AM	3471	3.1%
	Thu Sep 10, 1998	6:00 - 10:00 AM	1937	11.7%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Tue May 20, 2003	3:00 - 7:00 PM	457	3.5%
	Wed Apr 17, 2002	3:00 - 7:00 PM	486	6.8%
	Thu Oct 11, 2001	3:00 - 7:00 PM	397	14.6%
	Wed Oct 18, 2000	3:00 - 7:00 PM	513	43.3%
	Thu Sep 30, 1999	3:00 - 7:00 PM	587	16.5%
	Thu Sep 10, 1998	3:00 - 7:00 PM	343	14.9%

- NOTES:** (a) Morning period of operation from 5:00 to 10:00 AM
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 off-peak direction

CONTRA COSTA-4

West of Railroad Ave. to Port Chicago Highway

Westbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	161	30	67	18
Buses	3	6	1	4
Carpools ⁽¹⁾	2358	1290	756	592
Vanpools	25	2	14	0
Single Occ. ⁽²⁾	—	14087	—	5296
Violators	87	—	19	—
TOTAL	2634	15415	857	5910

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	161	30	67	18
Buses	105	210	35	140
Carpools ⁽¹⁾	5069	2788	1637	1276
Vanpools	250	20	140	0
Single Occ. ⁽²⁾	—	14087	—	5296
Violators	87	—	19	—
TOTAL	5672	17135	1898	6730

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.3 %		2.2 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 6:00 to 9:00 A.M.
 (5) Observations conducted 06/07/05 at Bailey Road I/C.

CONTRA COSTA-4

Port Chicago Highway to West of Railroad Ave.

Eastbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	138	38	46	13
Buses	3	30	0	12
Carpools ⁽¹⁾	2266	1651	771	594
Vanpools	21	54	6	22
Single Occ. ⁽²⁾	—	14846	—	5146
Violators	96	—	22	—
TOTAL	2524	16619	845	5787

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	138	38	46	13
Buses	105	1050	0	420
Carpools ⁽¹⁾	4912	3585	1655	1312
Vanpools	210	540	60	220
Single Occ. ⁽²⁾	—	14846	—	5146
Violators	96	—	22	—
TOTAL	5461	20059	1783	7111

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.8 %		2.6 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/20/05 at San Marcos I/C.

CONTRA COSTA-4

West of Railroad Ave. to Port Chicago Highway

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Jun 7, 2005	6:00 - 9:00 AM	2634	3.3%
	Thu Oct 21, 2004	6:00 - 9:00 AM	2436	2.0%
	Thu Oct 16, 2003	6:00 - 9:00 AM	2657	3.6%
	Thu May 23, 2002	6:00 - 9:00 AM	2225	4.5%
	Wed Sep 19, 2001	6:00 - 9:00 AM	1174	7.0%
	Wed May 10, 2000	6:00 - 9:00 AM	861	5.6%

NOTES: (a) Morning period of operation from 6:00 to 9:00 AM.

CONTRA COSTA-4

Port Chicago Highway to West of Railroad Ave.

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
P.M. PEAK	Thu Oct 20, 2005	3:00 - 6:00 PM	2524	3.8%
	Tue Dec 7, 2004	3:00 - 6:00 PM	2289	1.7%
	Wed May 14, 2003	3:00 - 6:00 PM	2292	1.9%
	Tue Mar 19, 2002	3:00 - 6:00 PM	2248	4.4%
	Tue Oct 30, 2001	3:00 - 6:00 PM	2011	4.0%

NOTES: (a) Evening period of operation from 3:00 to 7:00 PM.

CONTRA COSTA-80

Route 4 to Alameda County Line

Westbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 7:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	82	8	33	3
Buses	89	40	38	5
Carpools ⁽¹⁾	2116	199	1178	47
Vanpools	18	15	7	1
1 and 2 Occ. ⁽²⁾	—	12868	—	4494
Violators	330	—	135	—
TOTAL	2635	13130	1391	4550

PERSONS	PEAK PERIOD ⁽⁴⁾ 7:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	82	8	33	3
Buses	3115	1400	1330	175
Carpools ⁽¹⁾	6172	552	3441	131
Vanpools	180	150	70	10
1 and 2 Occ. ⁽²⁾	—	14473	—	4950
Violators	392	—	156	—
TOTAL	9941	16583	5030	5269

RATES	PEAK PERIOD ⁽⁴⁾ 7:00 - 10:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	3.8 persons/veh		3.6 persons/veh
Mixed Flow occupancy rate	1.3 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.7 persons/veh		1.7 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	12.5 %		9.7 %	

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) $Violation\ rate = \frac{no.\ of\ violators\ in\ HOV\ lane}{Total\ no.\ of\ vehicles\ in\ HOV\ lane} \times 100\%$

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 11/10/05 east of Hilltop Drive Interchange.

CONTRA COSTA-80

Alameda County Line to Route 4

Eastbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	179	49	48	16
Buses	125	13	38	5
Carpools ⁽¹⁾	3231	587	825	113
Vanpools	112	8	47	6
1 and 2 Occ. ⁽²⁾	—	21449	—	5561
Violators	250	—	65	—
TOTAL	3897	22106	1023	5701

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	179	49	48	16
Buses	4375	455	1330	175
Carpools ⁽¹⁾	9302	1569	2365	298
Vanpools	1120	80	470	60
1 and 2 Occ. ⁽²⁾	—	23989	—	6145
Violators	327	—	83	—
TOTAL	15303	26142	4296	6694

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.9 persons/veh		4.2 persons/veh	
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.6 persons/veh		1.6 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	6.4 %		6.4 %	

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 4/19/05 east of Hilltop Drive Interchange.

CONTRA COSTA-80

Route 4 to Alameda County Line

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Nov 10, 2005	7:00 - 10:00 AM	2635	12.5%
	Tue Nov 9, 2004	7:00 - 10:00 AM	2507	9.2%
	Fri May 9, 2003	6:00 - 10:00 AM	4509	27.2%
	Tue Apr 16, 2002	7:00 - 10:00 AM	2656	6.4%
	Tue Mar 27, 2001	6:00 - 10:00 AM	3640	8.7%
	Tue Oct 3, 2000	7:00 - 10:00 AM	2643	9.5%
	Tue Nov 9, 1999	7:00 - 10:00 AM	2186	11.1%
	Tue Oct 6, 1998	7:00 - 10:00 AM	1743	10.0%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Tue May 7, 2002	3:00 - 7:00 PM	1401	25.7%
	Thu Oct 4, 2001	3:00 - 7:00 PM	1432	24.2%
	Thu Apr 13, 2000	3:00 - 7:00 PM	1167	37.3%
	Wed Apr 21, 1999	3:00 - 7:00 PM	1068	18.5%
	Tue Oct 6, 1998	3:00 - 7:00 PM	802	31.9%

- NOTES:** (a) Morning period of operation from 5:00 to 10:00 AM.
 (b) Evening period of operation from 3:00 to 7:00 PM.
 (c) Data was not collected in 2005 for off-peak direction

CONTRA COSTA-80

Route 4 to Alameda County Line

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Nov 10, 2005	7:00 - 10:00 AM	2635	12.5%
	Tue Nov 9, 2004	7:00 - 10:00 AM	2507	9.2%
	Fri May 9, 2003	6:00 - 10:00 AM	4509	27.2%
	Tue Apr 16, 2002	7:00 - 10:00 AM	2656	6.4%
	Tue Mar 27, 2001	6:00 - 10:00 AM	3640	8.7%
	Tue Oct 3, 2000	7:00 - 10:00 AM	2643	9.5%
	Tue Nov 9, 1999	7:00 - 10:00 AM	2186	11.1%
	Tue Oct 6, 1998	7:00 - 10:00 AM	1743	10.0%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Tue May 7, 2002	3:00 - 7:00 PM	1401	25.7%
	Thu Oct 4, 2001	3:00 - 7:00 PM	1432	24.2%
	Thu Apr 13, 2000	3:00 - 7:00 PM	1167	37.3%
	Wed Apr 21, 1999	3:00 - 7:00 PM	1068	18.5%
	Tue Oct 6, 1998	3:00 - 7:00 PM	802	31.9%

- NOTES:** (a) Morning period of operation from 5:00 to 10:00 AM.
 (b) Evening period of operation from 3:00 to 7:00 PM.
 (c) Data was not collected in 2005 for off-peak direction

CONTRA COSTA-680

Marina Vista I/C to N/O North Main St.

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	93	47	25	20
Buses	2	5	0	3
Carpools ⁽¹⁾	2240	949	682	362
Vanpools	30	6	18	4
Single Occ. ⁽²⁾	—	14091	—	4947
Violators	22	—	5	—
TOTAL	2387	15098	730	5336

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	93	47	25	20
Buses	70	175	0	105
Carpools ⁽¹⁾	4695	2031	1447	776
Vanpools	300	60	180	40
Single Occ. ⁽²⁾	—	14091	—	4947
Violators	22	—	5	—
TOTAL	5180	16404	1657	5888

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.9 %		0.7 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 6:00 to 9:00 A.M.
 (5) Observations conducted 05/03/05 at Truck Scale.

CONTRA COSTA-680

Marina Vista I/C to N/O North Main St.

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	44	54	21	20
Buses	2	12	0	0
Carpools ⁽¹⁾	1016	1308	342	519
Vanpools	10	4	5	1
Single Occ. ⁽²⁾	—	11554	—	4080
Violators	23	—	15	—
TOTAL	1095	12932	383	4620

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	44	54	21	20
Buses	70	420	0	0
Carpools ⁽¹⁾	2197	2741	718	1093
Vanpools	100	40	50	10
Single Occ. ⁽²⁾	—	11554	—	4080
Violators	23	—	15	—
TOTAL	2434	14809	804	5203

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.1 %		3.9 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 09/27/05 at Truck Scale.

CONTRA COSTA-680

Route 242 to Marina Vista I/C.

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	52	39	12	8
Buses	4	11	1	7
Carpools ⁽¹⁾	470	578	173	287
Vanpools	3	0	1	0
Single Occ. ⁽²⁾	—	7139	—	2561
Violators	31	—	18	—
TOTAL	560	7767	205	2863

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	52	39	12	8
Buses	140	385	35	245
Carpools ⁽¹⁾	1047	1243	397	620
Vanpools	30	0	10	0
Single Occ. ⁽²⁾	—	7139	—	2561
Violators	31	—	18	—
TOTAL	1300	8806	472	3434

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.3 persons/veh		2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	5.5 %		8.8 %	

NOTES: (1) Two or more persons per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 6:00 to 9:00 A.M.

(5) Observations conducted 09/22/05 at Pacheco Boulevard.

CONTRA COSTA-680

Route 242 to Marina Vista I/C.

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	59	14	18	9
Buses	3	8	1	6
Carpools ⁽¹⁾	1656	604	534	233
Vanpools	23	4	11	1
Single Occ. ⁽²⁾	—	8590	—	3041
Violators	169	—	41	—
TOTAL	1910	9220	605	3290

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	59	14	18	9
Buses	105	280	35	210
Carpools ⁽¹⁾	3440	1292	1115	498
Vanpools	230	40	110	10
Single Occ. ⁽²⁾	—	8590	—	3041
Violators	169	—	41	—
TOTAL	4003	10216	1319	3768

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane occupancy rate	2.1 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	8.8 %		6.8 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/06/05 at Pacheco Boulevard.

CONTRA COSTA - 680

Marina Vista I/C. to N/O North Main St

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue May 3, 2005	6:00 - 9:00 AM	2387	0.9%
	Wed Oct 6, 2004	6:00 - 9:00 AM	2068	2.0%
P.M. PEAK	Tue Sep 27, 2005	3:00 - 6:00 PM	1095	2.1%
	Tue Oct 5, 2004	3:00 - 6:00 PM	1083	4.2%

NOTES: (a) Morning period of operation from 6:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

CONTRA COSTA - 680

Route 242 to Marina Vista I/C.

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Sep 22, 2005	6:00 - 9:00 AM	560	5.5%
P.M. PEAK	Thu Oct 6, 2005	3:00 - 6:00 PM	1910	8.8%

NOTES: (a) Morning period of operation from 6:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

CONTRA COSTA-680

Livorna Road to Alcosta Boulevard

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	80	1	29	0
Buses	20	4	10	2
Carpools ⁽¹⁾	2527	180	1012	74
Vanpools	43	0	15	0
Single Occ. ⁽²⁾	—	13674	—	4566
Violators	123	—	38	—
TOTAL	2793	13859	1104	4642

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	80	1	29	0
Buses	700	140	350	70
Carpools ⁽¹⁾	5324	373	2127	155
Vanpools	430	0	150	0
Single Occ. ⁽²⁾	—	13674	—	4566
Violators	123	—	38	—
TOTAL	6657	14188	2694	4791

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.4 persons/veh		2.4 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	4.4 %		3.4 %	

- NOTES:** (1) Two or more persons per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 6:00 to 9:00 A.M.
 (5) Observations conducted 11/16/05 at Stone Valley Road.

CONTRA COSTA-680

Livorna Road to Alcosta Boulevard

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	49	8	14	0
Buses	17	14	2	2
Carpools ⁽¹⁾	2488	684	855	44
Vanpools	8	8	3	0
Single Occ. ⁽²⁾	—	13080	—	4644
Violators	78	—	8	—
TOTAL	2640	13794	882	4690

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	49	8	14	0
Buses	595	490	70	70
Carpools ⁽¹⁾	5108	1526	1717	98
Vanpools	80	80	30	0
Single Occ. ⁽²⁾	—	13080	—	4644
Violators	78	—	8	—
TOTAL	5910	15184	1839	4812

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.0 %		0.9 %	

NOTES: (1) Two or more persons per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 6:00 P.M.

(5) Observations conducted 11/15/05 at Stone Valley Road.

CONTRA COSTA-680

Alcosta Boulevard to Livorna Road

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	18	2	12	0
Buses	21	12	15	6
Carpools ⁽¹⁾	1776	419	799	131
Vanpools	10	3	4	1
Single Occ. ⁽²⁾	—	13385	—	5250
Violators	66	—	42	—
TOTAL	1891	13821	872	5388

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	18	2	12	0
Buses	735	420	525	210
Carpools ⁽¹⁾	3882	929	1769	285
Vanpools	100	30	40	10
Single Occ. ⁽²⁾	—	13385	—	5250
Violators	66	—	42	—
TOTAL	4801	14766	2388	5755

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane occupancy rate	2.5 persons/veh		2.7 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.5 %		4.8 %	

NOTES: (1) Two or more persons per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 6:00 to 9:00 A.M.

(5) Observations conducted 04/27/05 at Stone Valley Road.

CONTRA COSTA-680

Alcosta Boulevard to Livorna Road

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	96	6	36	1
Buses	21	8	8	3
Carpools ⁽¹⁾	3447	681	1275	202
Vanpools	43	14	27	4
Single Occ. ⁽²⁾	—	14411	—	4996
Violators	120	—	8	—
TOTAL	3727	15120	1354	5206

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	96	6	36	1
Buses	735	280	280	105
Carpools ⁽¹⁾	7164	1458	2663	422
Vanpools	430	140	270	40
Single Occ. ⁽²⁾	—	14411	—	4996
Violators	120	—	8	—
TOTAL	8545	16295	3257	5564

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane occupancy rate	2.3 persons/veh		2.4 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.2 %		0.6 %	

NOTES: (1) Two or more persons per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 6:00 P.M.

(5) Observations conducted 04/26/05 at Stone Valley Road.

CONTRA COSTA-680

Violation History

Livorna Road to Alcosta Boulevard

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Nov 16, 2005	6:00 - 9:00 AM	2793	4.4%
	Tue Oct 5, 2004	6:00 - 9:00 AM	2118	4.5%
	Thu Apr 3, 2003	6:00 - 9:00 AM	2114	0.6%
	Thu Jun 13, 2002	6:00 - 9:00 AM	2480	1.7%
	Thu Mar 15, 2001	6:00 - 9:00 AM	2609	5.3%
	Thu Apr 6, 2000	6:00 - 9:00 AM	2258	2.8%
	Wed Sep 29, 1999	6:00 - 9:00 AM	1974	3.1%
	Tues Mar 10, 1998	6:00 - 9:00 AM	1545	9.0%
	Wed Oct 29, 1997	6:00 - 9:00 AM	1791	3.9%
	Thu Oct 10, 1996	6:00 - 9:00 AM	1359	2.6%
	Tue Nov 7, 1995	6:00 - 9:00 AM	1179	1.2%
P.M. PEAK	Tue Nov 15, 2005	3:00 - 6:00 PM	2640	3.0%
	Thu Oct 28, 2004	3:00 - 6:00 PM	2527	2.6%
	Tue Apr 8, 2003	3:00 - 6:00 PM	2109	2.4%
	Wed Mar 13, 2002	3:00 - 6:00 PM	2009	7.8%
	Wed May 9, 2001	3:00 - 6:00 PM	1831	8.5%
	Tue Dec 12, 2000	3:00 - 6:00 PM	1337	4.3%
	Wed Sep 29, 1999	3:00 - 6:00 PM	1604	7.2%
	Tue Sep 22, 1998	3:00 - 6:00 PM	2004	8.4%
	Thu Apr 17, 1997	3:00 - 6:00 PM	1344	2.0%
	Wed Oct 9, 1996	3:00 - 6:00 PM	1182	4.1%
	Tue Nov 7, 1995	3:00 - 6:00 PM	645	7.0%

NOTES: (a) Morning period of operation from 6:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 6:00 PM.

CONTRA COSTA-680

Violation History

Alcosta Boulevard to Livorna Road

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Apr 27, 2005	6:00 - 9:00 AM	1891	3.5%
	Thu Oct 7, 2004	6:00 - 9:00 AM	1899	3.0%
	Tue Oct 21, 2003	6:00 - 9:00 AM	1920	5.0%
	Thu Apr 25, 2002	6:00 - 9:00 AM	1746	6.9%
	Tue Sep 25, 2001	6:00 - 9:00 AM	1681	3.0%
	Thu Nov 2, 2000	6:00 - 9:00 AM	1263	7.0%
	Tue Sep 28, 1999	6:00 - 9:00 AM	621	7.1%
	Thu Nov 5, 1998	6:00 - 9:00 AM	1213	4.6%
	Tue Oct 28, 1997	6:00 - 9:00 AM	1139	4.1%
	Wed Oct 9, 1996	6:00 - 9:00 AM	958	6.6%
	Thu Nov 2, 1995	6:00 - 9:00 AM	1064	4.4%
P.M. PEAK	Tue Apr 26, 2005	3:00 - 6:00 PM	3727	3.2%
	Thu Dec 2, 2004	3:00 - 6:00 PM	3842	2.4%
	Tue Oct 21, 2003	3:00 - 6:00 PM	3677	3.4%
	Wed Nov 20, 2002	3:00 - 6:00 PM	3989	4.5%
	Tue May 8, 2001	3:00 - 6:00 PM	3742	5.0%
	Wed Oct 4, 2000	3:00 - 6:00 PM	4165	3.6%
	Tue Oct 26, 1999	3:00 - 6:00 PM	3224	4.9%
	Tue Oct 6, 1998	3:00 - 6:00 PM	2819	3.1%
	Wed Oct 15, 1997	3:00 - 6:00 PM	2755	4.9%
	Thu Oct 3, 1996	3:00 - 6:00 PM	2523	6.1%
	Thu Nov 2, 1995	3:00 - 6:00 PM	1902	1.2%

NOTES: (a) Morning period of operation from 6:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 6:00 PM.

MARIN-101

Greenbra I/C to Richardson Bay Bridge

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:30 - 8:30 AM		PEAK HOUR 7:30 - 8:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	37	7	18	4
Buses	56	66	30	34
Carpools ⁽¹⁾	966	615	525	351
Vanpools	7	11	4	6
Single Occ. ⁽²⁾	—	7974	—	4077
Violators	33	—	16	—
TOTAL	1099	8673	593	4472

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:30 - 8:30 AM		PEAK HOUR 7:30 - 8:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	37	7	18	4
Buses	1960	2310	1050	1190
Carpools ⁽¹⁾	2115	1307	1144	748
Vanpools	70	110	40	60
Single Occ. ⁽²⁾	—	7974	—	4077
Violators	33	—	16	—
TOTAL	4215	11708	2268	6079

RATES	PEAK PERIOD ⁽⁴⁾ 6:30 - 8:30 AM		PEAK HOUR 7:30 - 8:30 AM	
	HOV Lane occupancy rate	3.8 persons/veh		3.8 persons/veh
Mixed Flow occupancy rate	1.3 persons/veh		1.4 persons/veh	
Overall occupancy (incl. buses)	1.6 persons/veh		1.6 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.0 %		2.7 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 6:30 to 8:30 A.M.
 (5) Observations conducted 03/03/05 at Route 131, East Blithdale Ave. I/C

MARIN-101

Richardson Bay Bridge to Greenbrae I/C

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 5:30 - 6:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	87	21	29	13
Buses	59	47	20	18
Carpools ⁽¹⁾	1763	850	545	393
Vanpools	12	3	1	1
Single Occ. ⁽²⁾	—	9665	—	4318
Violators	32	—	12	—
TOTAL	1953	10586	607	4743

PERSONS	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 5:30 - 6:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	87	21	29	13
Buses	2065	1645	700	630
Carpools ⁽¹⁾	3624	1784	1109	811
Vanpools	120	30	10	10
Single Occ. ⁽²⁾	—	9665	—	4318
Violators	32	—	12	—
TOTAL	5928	13145	1860	5782

RATES	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 5:30 - 6:30 PM	
	HOV Lane occupancy rate	3.0 persons/veh		3.1 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.4 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.6 %		2.0 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 4:30 to 7:00 P.M.

(5) Observations conducted 09/29/05 at Route 131, E. Blithdale Ave. I/C

MARIN-101

Greenbrae I/C to Richardson Bay Bridge

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Mar 3, 2005	6:30 - 8:30 AM	1099	3.0%
	Thu Nov 4, 2004	6:30 - 8:30 AM	1015	4.4%
	Tue Apr 8, 2003	6:30 - 8:30 AM	1118	3.4%
	Wed Mar 20, 2002	6:30 - 8:30 AM	1591	1.9%
	Wed Mar 28, 2001	6:30 - 8:30 AM	1495	2.3%
	Thu Mar 23, 2000	6:30 - 8:30 AM	1538	2.8%
	Wed Mar 17, 1999	6:30 - 8:30 AM	1394	2.3%
	Tue Mar 3, 1998	6:30 - 8:30 AM	1106	1.6%
	Tue Mar 11, 1997	6:30 - 8:30 AM	1367	2.4%
	Thu Oct 17, 1996	6:30 - 8:30 AM	1446	1.2%
	Tue Oct 31, 1995	6:30 - 8:30 AM	1389	3.7%
	Thu Oct 13, 1994	6:30 - 8:30 AM	1135	6.4%
	Wed Apr 21, 1993	6:30 - 8:30 AM	1325	7.2%

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988
(b) Morning period of operation from 6:30 to 8:30 AM.

MARIN-101

Violation History

Richardson Bay Bridge to Greenbrae I/C

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
P.M. PEAK	Thu Sep 29, 2005	4:30 - 7:00 PM	1953	1.6%
	Wed Oct 13, 2004	4:30 - 7:00 PM	1529	1.9%
	Wed Apr 16, 2003	4:30 - 7:00 PM	1370	2.4%
	Tue Sep 17, 2002	4:30 - 7:00 PM	1365	1.5%
	Tue Apr 3, 2001	4:30 - 7:00 PM	1544	3.9%
	Tue Oct 3, 2000	4:30 - 7:00 PM	1771	1.6%
	Tue Mar 16, 1999	4:30 - 7:00 PM	1719	1.9%
	Wed Apr 22, 1998	4:30 - 7:00 PM	1838	4.8%
	Wed Oct 1, 1997	4:30 - 7:00 PM	2217	5.4%
	Thu Oct 24, 1996	4:30 - 7:00 PM	1820	3.4%
	Tue Oct 24, 1995	4:30 - 7:00 PM	1779	3.9%
	Tue Apr 5, 1994	4:30 - 7:00 PM	2031	0.2%
	Tue Apr 20, 1993	4:30 - 7:00 PM	1516	13.5%

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988
(b) Evening period of operation from 4:30 to 7:00 PM.

MARIN-101

Route 37 to N. San Pedro Rd.

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:30 - 8:30 AM		PEAK HOUR 6:30 - 7:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	43	10	24	8
Buses	27	29	18	19
Carpools ⁽¹⁾	2170	319	1171	197
Vanpools	7	5	5	1
Single Occ. ⁽²⁾	—	7435	—	3540
Violators	29	—	5	—
TOTAL	2276	7798	1223	3765

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:30 - 8:30 AM		PEAK HOUR 6:30 - 7:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	43	10	24	8
Buses	945	1015	630	665
Carpools ⁽¹⁾	4516	679	2471	416
Vanpools	70	50	50	10
Single Occ. ⁽²⁾	—	7435	—	3540
Violators	29	—	5	—
TOTAL	5603	9189	3180	4639

RATES	PEAK PERIOD ⁽⁴⁾ 6:30 - 8:30 AM		PEAK HOUR 6:30 - 7:30 AM	
	HOV Lane occupancy rate	2.5 persons/veh		2.6 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.5 persons/veh		1.6 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.3 %		0.4 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 6:30 to 8:30 A.M.
 (5) Observations conducted 11/02/05 at Alameda Del Prado Dr. I/C

MARIN-101

N. San Pedro Rd. to Route 37

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 5:30 - 6:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	54	24	19	12
Buses	29	16	13	11
Carpools ⁽¹⁾	1384	1069	644	462
Vanpools	16	10	10	8
Single Occ. ⁽²⁾	—	14383	—	6086
Violators	62	—	13	—
TOTAL	1545	15502	699	6579

PERSONS	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 5:30 - 6:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	54	24	19	12
Buses	1015	560	455	385
Carpools ⁽¹⁾	2945	2213	1361	953
Vanpools	160	100	100	80
Single Occ. ⁽²⁾	—	14383	—	6086
Violators	62	—	13	—
TOTAL	4236	17280	1948	7516

RATES	PEAK PERIOD ⁽⁴⁾ 4:30 - 7:00 PM		PEAK HOUR 5:30 - 6:30 PM	
	HOV Lane occupancy rate	2.7 persons/veh		2.8 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	4.0 %		1.9 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 4:30 to 7:00 P.M.
 (5) Observations conducted 04/21/05 at the Manuel Freitas Truck Scale.

MARIN-101

Route 37 to N. San Pedro Road

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Nov 2, 2005	6:30 - 8:30 AM	2276	1.3%
	Wed Nov 3, 2004	6:30 - 8:30 AM	2343	1.9%
	Thu Apr 3, 2003	6:30 - 8:30 AM	2335	2.2%
	Tue Mar 19, 2002	6:30 - 8:30 AM	2564	1.2%
	Wed Oct 31, 2001	6:30 - 8:30 AM	2520	1.4%
	Wed Mar 22, 2000	6:30 - 8:30 AM	2610	1.1%
	Thu Mar 18, 1999	6:30 - 8:30 AM	2256	1.8%
	Wed Mar 4, 1998	6:30 - 8:30 AM	2047	3.3%
	Wed Nov 5, 1997	6:30 - 8:30 AM	2690	5.1%
	Tue Nov 19, 1996	6:30 - 8:30 AM	2507	2.6%
	Wed Oct 25, 1995	6:30 - 8:30 AM	2609	4.3%
	Wed Mar 30, 1994	6:30 - 8:30 AM	1702	1.8%
	Tue Apr 27, 1993	6:30 - 8:30 AM	2042	4.8%

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988
(b) Morning period of operation from 6:30 to 8:30 AM.

MARIN-101

Violation History

N. San Pedro Road to Route 37

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
P.M. PEAK	Thu Apr 21, 2005	4:30 - 7:00 PM	1545	4.0%
	Thu Oct 7, 2004	4:30 - 7:00 PM	1577	2.5%
	Wed Apr 9, 2003	4:30 - 7:00 PM	1851	3.2%
	Thu Sep 19, 2002	4:30 - 7:00 PM	1552	2.6%
	Tue Sep 18, 2001	4:30 - 7:00 PM	1580	1.1%
	Tue Mar 21, 2000	4:30 - 7:00 PM	1921	2.7%
	Thu Sep 16, 1999	4:30 - 7:00 PM	1841	4.0%
	Tue Apr 7, 1998	4:30 - 7:00 PM	2147	2.4%
	Thu Oct 2, 1997	4:30 - 7:00 PM	1867	3.2%
	Thu Oct 17, 1996	4:30 - 7:00 PM	1983	3.9%
	Wed Apr 19, 1995	4:30 - 7:00 PM	1817	0.3%
	Thu Apr 7, 1994	4:30 - 7:00 PM	1233	0.9%
	Wed Apr 21, 1993	4:30 - 7:00 PM	1599	7.9%

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988
(b) Evening period of operation from 4:30 to 7:00 PM.

SANTA CLARA-85

Route 101 (Mountain View) to Route 280

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	154	3	28	1
Buses	1	16	1	11
Carpools ⁽¹⁾	2088	308	595	195
Vanpools	7	8	1	8
Single Occ. ⁽²⁾	—	10209	—	3449
Violators	15	—	7	—
TOTAL	2265	10544	632	3664

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	154	3	28	1
Buses	35	560	35	385
Carpools ⁽¹⁾	4409	669	1276	423
Vanpools	70	80	10	80
Single Occ. ⁽²⁾	—	10209	—	3449
Violators	15	—	7	—
TOTAL	4683	11521	1356	4338

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.7 %		1.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/12/05 at Fremont Avenue I/C

SANTA CLARA-85

Route 280 to Route 101 (Mountain View)

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	93	4	47	0
Buses	6	4	5	1
Carpools ⁽¹⁾	1537	128	692	57
Vanpools	16	0	3	0
Single Occ. ⁽²⁾	—	10582	—	3741
Violators	51	—	48	—
TOTAL	1703	10718	795	3799

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	93	4	47	0
Buses	210	140	175	35
Carpools ⁽¹⁾	3192	280	1438	127
Vanpools	160	0	30	0
Single Occ. ⁽²⁾	—	10582	—	3741
Violators	51	—	48	—
TOTAL	3706	11006	1738	3903

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.0 %		6.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
(2) Mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
(4) HOV lane in operation from 5:00 to 9:00 A.M.
(5) Observations conducted 10/18/05 at Fremont Avenue I/C

SANTA CLARA-85

Route 101 (Mountain View) to Route 280

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed Oct 23, 2002	7:00 - 9:00 AM	540	10.0%
	Thu Jun 7, 2001	6:00 - 9:00 AM	560	4.1%
	Wed Sep 27, 2000	6:00 - 9:00 AM	604	13.2%
	Tue Jun 8, 1999	6:00 - 9:00 AM	597	9.4%
	Wed Mar 04, 1998	6:00 - 9:00 AM	551	0.5%
	Tue Feb 25, 1997	6:45 - 9:00 AM	397	5.3%
	Wed Apr 3, 1996	6:00 - 9:00 AM	359	5.0%
	Wed Sept 20, 1995	7:00 - 9:00 AM	345	6.4%
	Thu Dec 1, 1994	7:00 - 9:00 AM	618	2.1%
	Wed Jun 9, 1993	6:00 - 9:00 AM	286	26.6%
P.M. PEAK	Wed Oct 12, 2005	3:00 - 6:00 PM	2265	0.7%
	Tue Nov 30, 2004	3:00 - 5:15 PM	1510	0.7%
	Wed Jun 4, 2003	3:00 - 6:00 PM	2323	1.6%
	Wed May 29, 2002	3:00 - 6:00 PM	2647	4.4%
	Tue Sep 25, 2001	3:00 - 6:00 PM	2656	6.4%
	Thu Jun 1, 2000	3:00 - 6:00 PM	2792	0.9%
	Thu May 13, 1999	3:00 - 6:00 PM	3121	1.4%
	Thu Apr 9, 1998	4:00 - 6:00 PM	2058	0.2%
	Tue Sept 30, 1997	3:00 - 6:00 PM	2277	1.2%
	Thu May 16, 1996	3:00 - 6:00 PM	2165	3.0%
	Thu Sept 21, 1995	3:00 - 6:00 PM	3671	2.4%
	Tue Nov 29, 1994	3:00 - 5:00 PM	970	2.1%
	Tue May 18, 1993	3:00 - 6:00 PM	1279	7.8%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 off-peak direction

SANTA CLARA-85

Route 280 to Route 101 (Mountain View)

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Oct 18, 2005	6:00 - 9:00 AM	1703	3.0%
	Wed Nov 3, 2004	6:00 - 9:00 AM	2132	0.7%
	Wed Oct 29, 2003	6:00 - 9:00 AM	1151	0.8%
	Tue Oct 8, 2002	7:00 - 9:00 AM	1435	1.5%
	Tue Apr 10, 2001	6:00 - 9:00 AM	2471	1.8%
	Tue Oct 17, 2000	7:00 - 9:00 AM	2188	10.1%
	Wed Oct 6, 1999	6:00 - 9:00 AM	2402	4.9%
	Tue Dec 1, 1998	6:00 - 9:00 AM	2473	4.7%
	Thu Dec 4, 1997	7:00 - 9:00 AM	1584	0.1%
	Wed Nov 20, 1996	6:45 - 9:00 AM	1840	0.2%
	Tue Sept 12, 1995	7:00 - 9:00 AM	1896	1.4%
	Tue Nov 29, 1994	7:00 - 9:00 AM	1073	1.8%
	Tue Nov 16, 1993	6:30 - 9:00 AM	1031	11.1%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Oct 31, 2002	3:00 - 5:30 PM	761	2.2%
	Wed Oct 10, 2001	3:00 - 6:00 PM	1124	0.4%
	Thu May 4, 2000	3:00 - 6:00 PM	940	2.1%
	Thu Oct 28, 1999	3:00 - 6:00 PM	845	1.2%
	Wed Mar 4, 1998	3:00 - 6:00 PM	852	3.5%
	Tue Feb 25, 1997	3:00 - 6:00 PM	1051	2.7%
	Tue Jun 4, 1996	3:00 - 6:00 PM	1008	8.2%
	Tue Sept 12, 1995	3:00 - 6:00 PM	652	9.8%
	Thu Dec 1, 1994	3:00 - 5:00 PM	569	4.4%
	Thu Apr 29, 1993	3:00 - 6:00 PM	382	31.4%

- NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-85

Route 280 to Almaden Expressway

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	112	14	36	8
Buses	2	16	1	1
Carpools ⁽¹⁾	2172	672	725	185
Vanpools	5	3	1	0
Single Occ. ⁽²⁾	—	10176	—	3699
Violators	20	—	0	—
TOTAL	2311	10881	763	3893

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	112	14	36	8
Buses	70	560	35	35
Carpools ⁽¹⁾	4542	1446	1508	398
Vanpools	50	30	10	0
Single Occ. ⁽²⁾	—	10176	—	3699
Violators	20	—	0	—
TOTAL	4794	12226	1589	4140

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh	
Mixed Flow occupancy rate		1.1 persons/veh		1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.9 %		0.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/13/05 at Winchester Boulevard I/C

SANTA CLARA-85

Almaden Expressway to Route 280

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	102	2	53	1
Buses	0	3	0	2
Carpools ⁽¹⁾	2299	152	990	73
Vanpools	7	7	4	5
Single Occ. ⁽²⁾	—	10453	—	3537
Violators	10	—	4	—
TOTAL	2418	10617	1051	3618

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	102	2	53	1
Buses	0	105	0	70
Carpools ⁽¹⁾	4737	338	2060	158
Vanpools	70	70	40	50
Single Occ. ⁽²⁾	—	10453	—	3537
Violators	10	—	4	—
TOTAL	4919	10968	2157	3816

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.0 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.4 %		0.4 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 10/06/05 at Union Avenue I/C

SANTA CLARA-85

Route 280 to Almaden Expressway

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed May 1, 2002	6:00 - 9:00 AM	256	9.0%
	Tue Apr 17, 2001	6:00 - 9:00 AM	341	5.9%
	Tue May 2, 2000	6:00 - 9:00 AM	363	1.7%
	Thu Mar 11, 1999	6:30 - 9:00 AM	371	0.3%
	Tue Mar 3, 1998	6:00 - 9:00 AM	416	2.4%
	Thu Nov 6, 1997	6:00 - 9:00 AM	456	8.6%
	Wed May 01, 1996	6:30 - 9:00 AM	328	9.1%
	Thu Sept 14, 1995	7:00 - 9:00 AM	514	5.6%
	Wed Dec 7, 1994	7:00 - 9:00 AM	179	20.1%
P.M. PEAK	Thu Oct 13, 2005	3:00 - 6:00 PM	2311	0.9%
	Wed Oct 6, 2004	3:00 - 6:00 PM	2288	0.5%
	Wed Oct 22, 2003	3:00 - 6:00 PM	2151	2.3%
	Wed Mar 13, 2002	3:00 - 6:00 PM	2866	3.4%
	Thu Apr 5, 2001	3:00 - 6:00 PM	2798	0.5%
	Tue Apr 18, 2000	3:00 - 6:00 PM	3056	0.5%
	Thu Mar 11, 1999	3:00 - 6:00 PM	2963	0.1%
	Thu Jun 4, 1998	3:00 - 6:00 PM	3004	0.1%
	Thu Feb 27, 1997	3:00 - 6:00 PM	2460	1.3%
	Tue Apr 30, 1996	3:00 - 6:00 PM	3167	7.0%
	Wed Sept 13, 1995	3:00 - 6:00 PM	2774	1.9%
	Thu Dec 15, 1994	3:00 - 5:00 PM	1856	1.3%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-85

Almaden Expressway to Route 280

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Oct 6, 2005	6:00 - 9:00 AM	2418	0.4%
	Thu Oct 28, 2004	7:00 - 9:00 AM	1813	0.4%
	Wed Oct 22, 2003	7:00 - 9:00 AM	2012	0.0%
	Wed Mar 27, 2002	6:00 - 9:00 AM	2572	4.6%
	Tues Oct 16, 2001	6:00 - 9:00 AM	3298	6.4%
	Wed Jun 7, 2000	6:00 - 9:00 AM	3555	9.9%
	Tue Oct 26, 1999	7:00 - 9:00 AM	2350	3.0%
	Wed May 13, 1998	6:00 - 9:00 AM	2801	12.2%
	Wed Nov 5, 1997	6:00 - 9:00 AM	3036	0.4%
	Wed Nov 20, 1996	6:45 - 9:00 AM	1840	0.2%
	Tue Apr 18, 1995	6:30 - 9:00 AM	2145	2.0%
	Tue Dec 6, 1994	7:00 - 9:00 AM	1927	1.9%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Apr 4, 2002	3:00 - 6:00 PM	1068	7.5%
	Tue Jun 12, 2001	3:00 - 6:00 PM	985	8.9%
	Tue Oct 17, 2000	3:00 - 6:00 PM	642	3.6%
	Tue Feb 23, 1999	3:00 - 6:00 PM	866	8.7%
	Wed Apr 8, 1998	3:00 - 6:00 PM	1097	4.4%
	Wed Oct 8, 1997	3:00 - 6:00 PM	895	0.3%
	Wed Sep 25, 1996	3:00 - 6:00 PM	1417	0.6%
	Tue Oct 3, 1995	3:00 - 6:00 PM	748	6.1%
	Thu Dec 8, 1994	3:00 - 5:00 PM	339	7.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
 (b) Evening period of operation from 3:00 to 7:00 PM.
 (c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-85

Almaden Expressway to Route 101 (So. San Jose)

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	73	18	31	3
Buses	1	8	1	1
Carpools ⁽¹⁾	1502	544	539	113
Vanpools	11	11	6	2
Single Occ. ⁽²⁾	—	8433	—	3028
Violators	14	—	4	—
TOTAL	1601	9014	581	3147

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	73	18	31	3
Buses	35	280	35	35
Carpools ⁽¹⁾	3110	1156	1123	244
Vanpools	110	110	60	20
Single Occ. ⁽²⁾	—	8433	—	3028
Violators	14	—	4	—
TOTAL	3342	9997	1253	3330

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.1 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.9 %		0.7 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 09/29/05 at Blossom Hill Road Train Station

SANTA CLARA-85

Route 101 (So. San Jose) to Almaden Expressway

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	24	7	8	2
Buses	0	12	0	11
Carpools ⁽¹⁾	910	364	449	212
Vanpools	3	2	0	2
Single Occ. ⁽²⁾	—	7823	—	2810
Violators	23	—	14	—
TOTAL	960	8208	471	3037

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	24	7	8	2
Buses	0	420	0	385
Carpools ⁽¹⁾	1860	787	919	461
Vanpools	30	20	0	20
Single Occ. ⁽²⁾	—	7823	—	2810
Violators	23	—	14	—
TOTAL	1937	9057	941	3678

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.0 persons/veh		2.0 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.4 %		3.0 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 10/13/05 at Blossom Hill Road Train Station

SANTA CLARA-85

Almaden Expressway to Route 101 (So. San Jose)

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed Apr 24, 2002	6:00 - 9:00 AM	675	0.3%
	Wed May 2, 2001	6:00 - 9:00 AM	595	1.7%
	Wed May 3, 2000	6:00 - 9:00 AM	635	7.1%
	Wed Feb 3, 1999	6:00 - 9:00 AM	739	0.0%
	Tue May 19, 1998	6:00 - 9:00 AM	602	0.0%
	Thu Dec 4, 1997	6:00 - 9:00 AM	282	12.8%
	Tue May 21, 1996	6:00 - 9:00 AM	324	13.0%
	Tue Sept 26, 1995	7:00 - 9:00 AM	240	8.8%
	Tue Dec 13, 1994	7:00 - 9:00 AM	240	17.5%
P.M. PEAK	Thu Sep 29, 2005	3:00 - 6:00 PM	1601	0.9%
	Thu Oct 14, 2004	3:00 - 6:00 PM	2050	0.2%
	Thu Jun 5, 2003	3:00 - 6:00 PM	1652	0.6%
	Thu May 2, 2002	3:00 - 6:00 PM	1981	3.8%
	Wed Oct 3, 2001	3:00 - 6:00 PM	2418	0.2%
	Wed Oct 18, 2000	3:00 - 6:00 PM	2354	0.6%
	Tue May 18, 1999	3:00 - 6:00 PM	2112	2.5%
	Thu Dec 3, 1998	3:00 - 6:00 PM	4447	0.0%
	Thu Oct 16, 1997	3:00 - 6:00 PM	1754	3.6%
	Thu Sep 19, 1996	3:00 - 6:00 PM	960	5.4%
	Thu Oct 5, 1995	3:00 - 6:00 PM	960	5.4%
	Tue Dec 13, 1994	3:00 - 5:00 PM	531	7.7%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-85

Route 101 (So. San Jose) to Almaden Expressway

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Oct 13, 2005	6:00 - 9:00 AM	960	2.4%
	Tue Nov 30, 2004	6:00 - 9:00 AM	1044	0.0%
	Thu Oct 23, 2003	7:00 - 9:00 AM	1035	0.0%
	Tue Mar 12, 2002	6:00 - 9:00 AM	939	2.6%
	Thu Apr 12, 2001	6:00 - 9:00 AM	1678	7.3%
	Thu Oct 5, 2000	7:00 - 9:00 AM	1222	5.2%
	Tue Oct 5, 1999	6:00 - 9:00 AM	1669	1.1%
	Wed Mar 25, 1998	6:00 - 9:00 AM	1482	0.4%
	Thu Mar 6, 1997	6:30 - 9:00 AM	1019	7.7%
	Thu Jun 13, 1996	6:00 - 9:00 AM	1151	8.4%
	Thu Sept 21, 1995	7:00 - 9:00 AM	981	2.5%
	Thu Dec 8, 1994	7:00 - 9:00 AM	618	3.7%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed Apr 24, 2002	3:00 - 6:00 PM	976	5.0%
	Tue Oct 9, 2001	3:00 - 6:00 PM	814	8.6%
	Wed May 3, 2000	3:00 - 6:00 PM	784	5.6%
	Thu Nov 17, 1999	3:00 - 5:30 PM	826	6.5%
	Thu May 7, 1998	3:00 - 6:00 PM	1062	10.1%
	Tue Oct 30, 1997	3:00 - 6:00 PM	1245	0.2%
	Wed Mar 20, 1996	3:00 - 6:00 PM	907	9.0%
	Tue Sept 19, 1995	3:00 - 6:00 PM	717	8.9%
	Tue Dec 20, 1994	3:00 - 5:00 PM	557	16.5%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
 (b) Evening period of operation from 3:00 to 7:00 PM.
 (c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-87

S/O Taylor Ave to Route 101 I/C

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	22	1	11	1
Buses	3	7	1	2
Carpools ⁽¹⁾	451	264	188	100
Vanpools	2	5	1	0
Single Occ. ⁽²⁾	—	7658	—	2972
Violators	16	—	5	—
TOTAL	494	7935	206	3075

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	22	1	11	1
Buses	105	245	35	70
Carpools ⁽¹⁾	916	556	383	208
Vanpools	20	50	10	0
Single Occ. ⁽²⁾	—	7658	—	2972
Violators	16	—	5	—
TOTAL	1079	8510	444	3251

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.1 persons/veh		1.1 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.2 %		2.4 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 11/08/05 at Taylor Avenue I/C

SANTA CLARA-87

S/O of Taylor Avenue to Route 101 I/C

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Nov 8, 2005	6:00 - 9:00 AM	494	3.2%
P.M. PEAK	Year 2005	-	-	-

- NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-101

SM/SCL County Line to Ellis Street

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	64	11	37	4
Buses	3	4	2	2
Carpools ⁽¹⁾	1564	317	659	111
Vanpools	14	14	6	1
Single Occ. ⁽²⁾	—	14524	—	5576
Violators	9	—	7	—
TOTAL	1654	14870	711	5694

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	64	11	37	4
Buses	105	140	70	70
Carpools ⁽¹⁾	3189	680	1342	235
Vanpools	140	140	60	10
Single Occ. ⁽²⁾	—	14524	—	5576
Violators	9	—	7	—
TOTAL	3507	15495	1516	5895

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.1 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.5 %		1.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 09/15/05 at the San Antonio Road

SANTA CLARA-101

SM/SCL County Line to Ellis Street

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	45	29	11	19
Buses	10	11	1	4
Carpools ⁽¹⁾	2745	1054	712	532
Vanpools	93	19	24	13
Single Occ. ⁽²⁾	—	13682	—	4707
Violators	108	—	45	—
TOTAL	3001	14795	793	5275

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	45	29	11	19
Buses	350	385	35	140
Carpools ⁽¹⁾	5654	2263	1471	1121
Vanpools	930	190	240	130
Single Occ. ⁽²⁾	—	13682	—	4707
Violators	108	—	45	—
TOTAL	7087	16549	1802	6117

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 3:00 - 4:00 PM	
	HOV Lane occupancy rate	2.4 persons/veh		2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.6 %		5.7 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 03/30/05 at the San Antonio Road

SANTA CLARA-101

Ellis Street to SM/SCL County Line

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	67	42	36	7
Buses	9	16	6	5
Carpools ⁽¹⁾	2285	405	814	177
Vanpools	22	15	9	8
Single Occ. ⁽²⁾	—	14070	—	5325
Violators	111	—	58	—
TOTAL	2494	14548	923	5522

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	67	42	36	7
Buses	315	560	210	175
Carpools ⁽¹⁾	4655	872	1672	379
Vanpools	220	150	90	80
Single Occ. ⁽²⁾	—	14070	—	5325
Violators	111	—	58	—
TOTAL	5368	15694	2066	5966

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	4.5 %		6.3 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 09/22/05 at the San Antonio Road I/C

SANTA CLARA-101

Ellis Street to SM/SCL County Line

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	63	12	28	1
Buses	5	14	5	1
Carpools ⁽¹⁾	1571	940	762	264
Vanpools	4	4	2	0
Single Occ. ⁽²⁾	—	12522	—	4303
Violators	13	—	3	—
TOTAL	1656	13492	800	4569

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	63	12	28	1
Buses	175	490	175	35
Carpools ⁽¹⁾	3198	2001	1536	562
Vanpools	40	40	20	0
Single Occ. ⁽²⁾	—	12522	—	4303
Violators	13	—	3	—
TOTAL	3489	15065	1762	4901

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.1 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.8 %		0.4 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/05/05 at the San Antonio Road

SANTA CLARA-101

SM/SCL County Line to Ellis Street

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Sep 15, 2005	6:00 - 9:00 AM	1654	0.5%
	Wed Nov 17, 2004	6:00 - 9:00 AM	1762	0.3%
	Thu Oct 30, 2003	6:00 - 9:00 AM	1970	6.6%
	Wed May 15, 2002	6:00 - 9:00 AM	1949	6.6%
	Wed Mar 21, 2001	6:00 - 9:00 AM	2710	0.8%
	Wed Sep 13, 2000	6:00 - 9:00 AM	2823	10.5%
	Wed Apr 28, 1999	6:00 - 9:00 AM	2817	3.3%
	Thu Mar 12, 1998	6:00 - 9:00 AM	2885	0.6%
	Tue Dec 2, 1997	6:00 - 9:00 AM	2773	2.1%
	Thu Apr 25, 1996	6:30 - 9:00 AM	3742	1.5%
	Thu Jun 8, 1995	6:00 - 9:00 AM	2973	1.6%
	Thu May 5, 1994	6:00 - 9:00 AM	2684	4.8%
	Thu Jun 24, 1993	6:00 - 9:00 AM	1629	8.0%
P.M. PEAK	Wed Mar 30, 2005	3:00 - 6:00 PM	3001	3.6%
	Wed Oct 27, 2004	3:00 - 6:00 PM	2420	0.3%
	Tue Oct 28, 2003	3:00 - 5:45 PM	2608	1.4%
	Tue May 14, 2002	3:00 - 6:00 PM	2119	0.7%
	Wed Oct 24, 2001	3:00 - 6:00 PM	2935	4.4%
	Thu Mar 25, 1999	3:00 - 6:00 PM	3037	1.2%
	Thu Mar 25, 1999	3:00 - 6:00 PM	3037	1.2%
	Tue Mar 17, 1998	3:00 - 6:00 PM	2406	0.7%
	Wed Oct 29, 1997	3:00 - 6:00 PM	2666	0.0%
	Wed Oct 2 1996	3:00 - 6:00 PM	2836	0.6%
	Wed Oct 4 1995	3:00 - 6:00 PM	2591	3.9%
	Thu Apr 21, 1994	3:00 - 7:00 PM	4979	14.7%
	Wed May 12, 1993	3:00 - 6:00 PM	1995	13.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SANTA CLARA-101

Ellis Street to SM/SCL County Line

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Sep 22, 2005	6:00 - 9:00 AM	2494	4.5%
	Tue Nov 2, 2004	6:00 - 9:00 AM	1641	0.3%
	Thu May 22, 2003	6:00 - 9:00 AM	2132	5.8%
	Wed Sept 25, 2002	6:45 - 9:00 AM	1479	2.4%
	Thu Oct 4, 2001	6:00 - 9:00 AM	1942	6.0%
	Thu May 18, 2000	6:00 - 9:00 AM	2047	5.1%
	Thu Nov 18, 1999	6:30 - 9:00 AM	1745	2.5%
	Thu Mar 26, 1998	6:00 - 9:00 AM	1986	0.1%
	Tue Dec 2, 1997	7:00 - 9:00 AM	1720	3.8%
	Wed Jun 12, 1996	6:00 - 9:00 AM	3249	0.7%
	Thu May 4, 1995	6:00 - 9:00 AM	2070	5.9%
	Thu Apr 21, 1994	6:00 - 9:00 AM	3114	3.5%
	Wed May 12, 1993	6:00 - 9:00 AM	1509	7.7%
P.M. PEAK	Wed Oct 5, 2005	3:00 - 6:00 PM	1656	0.8%
	Thu Dec 2, 2004	3:00 - 5:00 PM	1369	2.8%
	Tue Jun 3, 2003	3:00 - 6:00 PM	2635	7.2%
	Thu Jun 6, 2002	3:00 - 6:00 PM	3064	2.1%
	Wed Oct 17, 2001	3:00 - 6:00 PM	2523	3.2%
	Tue Nov 7, 2000	3:00 - 6:00 PM	3032	4.6%
	Tue Apr 27, 1999	3:00 - 6:00 PM	3034	1.5%
	Wed Mar 11, 1998	3:00 - 6:00 PM	2464	1.3%
	Thu Apr 24, 1997	3:00 - 6:00 PM	3693	0.2%
	Tue Nov 12, 1996	3:00 - 6:00 PM	3151	0.1%
	Wed Mar 15, 1995	3:00 - 6:00 PM	4260	3.4%
	Wed Sep 28, 1994	3:00 - 6:00 PM	4122	2.4%
	Thu Jun 3, 1993	3:00 - 6:00 PM	2831	7.5%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SANTA CLARA-101

Ellis Street to Guadalupe Parkway

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	31	4	16	1
Buses	11	8	3	1
Carpools ⁽¹⁾	2905	667	1008	164
Vanpools	9	12	3	1
Single Occ. ⁽²⁾	—	13183	—	4689
Violators	8	—	0	—
TOTAL	2964	13874	1030	4856

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	31	4	16	1
Buses	385	280	105	35
Carpools ⁽¹⁾	6051	1454	2139	363
Vanpools	90	120	30	10
Single Occ. ⁽²⁾	—	13183	—	4689
Violators	8	—	0	—
TOTAL	6565	15041	2290	5098

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh	1.0 persons/veh	1.0 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh	1.3 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	0.3 %	0.3 %	0.0 %	0.0 %

- NOTES:** (1) Two or more occupants per vehicle.
(2) Mixed flow lanes only.
(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
(4) HOV lane in operation from 3:00 to 7:00 P.M.
(5) Observations conducted 04/27/05 at the San Tomas Expressway I/C

SANTA CLARA-101

Guadalupe Parkway to Ellis Street

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	23	15	19	10
Buses	2	18	2	5
Carpools ⁽¹⁾	1187	625	593	334
Vanpools	4	6	2	0
Single Occ. ⁽²⁾	—	10125	—	5150
Violators	5	—	4	—
TOTAL	1221	9579	619	5499

PERSONS	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	23	15	19	10
Buses	70	630	70	175
Carpools ⁽¹⁾	2460	1298	1226	701
Vanpools	40	60	10	0
Single Occ. ⁽²⁾	—	10125	—	5150
Violators	5	—	4	—
TOTAL	2598	12128	1329	6036

RATES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.4 %		0.6 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 10/26/05 at the Fair Oaks Avenue I/C

SANTA CLARA-101

Ellis Street to Guadalupe Parkway

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Tue Dec 3, 2002	6:00 - 9:00 AM	668	2.2%
	Tue Jun 5, 2001	6:00 - 9:00 AM	765	2.1%
	Thu Apr 20, 2000	6:00 - 9:00 AM	916	3.8%
	Thur Oct 21, 1999	7:00 - 9:00 AM	739	1.8%
	Thu Apr 9, 1998	6:00 - 9:00 AM	1163	4.3%
	Wed Dec 3, 1997	6:00 - 9:00 AM	1272	8.6%
	Thu Nov 7, 1996	6:45 - 9:00 AM	2212	1.1%
	Wed Oct 4, 1995	7:00 - 9:00 AM	1057	4.5%
	Wed Nov 2, 1994	6:30 - 9:00 AM	1124	20.7%
	Tue Jun 15, 1993	6:00 - 9:00 AM	664	2.9%
P.M. PEAK	Wed Apr 27, 2005	3:00 - 6:00 PM	2964	0.3%
	Tue Nov 16, 2004	3:00 - 5:30 PM	2190	0.4%
	Thu May 29, 2003	3:00 - 6:00 PM	3454	3.6%
	Thu Apr 11, 2002	3:00 - 6:00 PM	2912	1.2%
	Thu Mar 29, 2001	3:00 - 6:00 PM	3903	3.1%
	Wed Nov 15, 2000	3:00 - 5:30 PM	3077	2.7%
	Wed Oct 20, 1999	3:00 - 6:00 PM	3954	2.3%
	Thu May 14, 1998	4:00 - 6:30 PM	3124	0.2%
	Tue Apr 22, 1997	3:00 - 6:00 PM	3268	1.0%
	Wed May 22, 1996	3:00 - 6:00 PM	3832	1.3%
	Thu Apr 20, 1995	3:00 - 7:00 PM	5831	1.5%
	Wed Nov 2, 1994	3:00 - 5:15 PM	2698	9.5%
	Wed Oct 6, 1993	3:00 - 6:00 PM	3056	7.0%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-101

Guadalupe Parkway to Ellis Street

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Oct 26, 2005	7:00 - 9:00 AM	1221	0.4%
	Tue Nov 16, 2004	6:00 - 9:00 AM	1799	0.7%
	Wed May 7, 2003	6:00 - 9:00 AM	2142	0.6%
	Thu Apr 4, 2002	6:00 - 9:00 AM	1646	7.5%
	Wed Sep 26, 2001	6:00 - 9:00 AM	1607	0.8%
	Tue Apr 4, 2000	6:00 - 9:00 AM	1527	2.8%
	Wed Oct 20, 1999	7:00 - 9:00 AM	1299	0.5%
	Thu Oct 1, 1998	7:00 - 9:00 AM	1268	1.6%
	Thu Nov 20, 1997	6:00 - 9:00 AM	1700	0.0%
	Thu Sep 26, 1996	7:00 - 9:00 AM	1765	0.7%
	Thu Oct 5, 1995	7:00 - 9:00 AM	1594	3.8%
	Tue Nov 1, 1994	6:30 - 9:00 AM	1861	4.8%
	Wed Oct 6, 1993	7:00 - 9:00 AM	977	14.4%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Wed May 22, 2002	3:00 - 6:00 PM	1487	3.8%
	Wed May 10, 2000	3:00 - 6:00 PM	1684	0.3%
	Tue Jun 8, 1999	3:00 - 6:00 PM	1765	2.2%
	Thu May 21, 1998	3:00 - 6:00 PM	2066	4.5%
	Thu Apr 10, 1997	3:00 - 6:00 PM	1563	1.5%
	Tue May 21, 1996	3:00 - 6:00 PM	2126	4.2%
	Tue Oct 17, 1995	3:00 - 6:00 PM	1910	6.0%
	Tue Dec 6, 1994	3:00 - 5:00 PM	708	9.3%
	Tue Jun 8, 1993	3:00 - 6:00 PM	1765	2.2%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
 (b) Evening period of operation from 3:00 to 7:00 PM.
 (c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-101

Guadalupe Parkway to Route 280/680 I/C

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	101	10	46	7
Buses	6	13	3	2
Carpools ⁽¹⁾	2327	854	838	218
Vanpools	12	18	4	4
Single Occ. ⁽²⁾	—	11898	—	4290
Violators	6	—	0	—
TOTAL	2452	12793	891	4521

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	101	10	46	7
Buses	210	455	105	70
Carpools ⁽¹⁾	4854	1816	1750	464
Vanpools	120	180	40	40
Single Occ. ⁽²⁾	—	11898	—	4290
Violators	6	—	0	—
TOTAL	5291	14359	1941	4871

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.2 %		0.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 09/21/05 at the McKee Road I/C

SANTA CLARA-101

Route 280/680 I/C to Guadalupe Parkway

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	87	16	17	6
Buses	11	7	4	6
Carpools ⁽¹⁾	3641	584	1077	252
Vanpools	13	3	5	0
Single Occ. ⁽²⁾	—	15475	—	5539
Violators	274	—	70	—
TOTAL	4026	16085	1173	5803

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	87	16	17	6
Buses	385	245	140	210
Carpools ⁽¹⁾	7567	1251	2232	540
Vanpools	130	30	50	0
Single Occ. ⁽²⁾	—	15475	—	5539
Violators	274	—	70	—
TOTAL	8443	17017	2509	6295

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 6:00 - 7:00 AM	
	HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	6.8 %		6.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 03/30/05 at the McKee Road I/C

SANTA CLARA-101

Guadalupe Parkway to Route 280/680 I/C

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu May 30, 2002	6:00 - 9:00 AM	339	3.5%
	Thu Oct 18, 2001	6:00 - 9:00 AM	495	3.0%
	Thu Jun 8, 2000	6:00 - 9:00 AM	485	11.8%
	Wed Mar 24, 1999	6:00 - 9:00 AM	378	9.5%
	Thu Apr 2, 1998	6:00 - 9:00 AM	436	6.7%
	Wed Mar 5, 1997	6:30 - 9:00 AM	438	2.1%
	Thu Oct 24, 1996	7:00 - 9:00 AM	550	0.4%
	Wed Oct 18, 1995	7:00 - 9:00 AM	172	3.5%
	Tue Nov 8, 1994	6:30 - 9:00 AM	422	18.5%
	P.M. PEAK	Wed Sep 21, 2005	3:00 - 6:00 PM	2452
Tue Nov 9, 2004		3:00 - 5:30 PM	1947	0.7%
Thu Apr 3, 2003		3:00 - 6:00 PM	1860	0.5%
Thu Jun 13, 2002		3:00 - 6:00 PM	2342	1.3%
Tue Mar 27, 2001		3:00 - 6:00 PM	2840	2.6%
Thu May 11, 2000		3:00 - 6:00 PM	3049	1.7%
Tue Dec 14, 1999		3:00 - 5:30 PM	2418	0.4%
Thu Sep 17, 1998		3:00 - 6:00 PM	3499	2.5%
Tue Sept 23, 1997		3:00 - 6:00 PM	2965	0.5%
Wed Oct 23, 1996		3:00 - 6:00 PM	3230	0.3%
Wed Apr 19, 1995		3:00 - 7:00 PM	3957	2.9%
Thu Nov 3, 1994		3:00 - 5:15 PM	1856	1.5%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-101

Route 280/680 I/C to Guadalupe Parkway

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Mar 30, 2005	6:00 - 9:00 AM	4026	6.8%
	Thu Dec 2, 2004	6:00 - 9:00 AM	3561	0.2%
	Thu Jun 12, 2003	6:00 - 9:00 AM	3794	2.6%
	Thu Apr 11, 2002	6:30 - 9:00 AM	3438	2.7%
	Thu May 11, 2000	6:00 - 9:00 AM	4839	2.4%
	Wed Apr 14, 1999	6:00 - 9:00 AM	4717	2.9%
	Thu Dec 10, 1998	6:00 - 9:00 AM	4589	1.8%
	Wed Sep 24, 1997	7:00 - 9:00 AM	2994	2.4%
	Wed May 22, 1996	6:00 - 9:00 AM	5386	0.8%
	Thu Nov 2, 1995	6:00 - 9:00 AM	5061	0.5%
	Thu Nov 3, 1994	6:30 - 9:00 AM	3777	2.1%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu May 23, 2002	3:00 - 6:00 PM	1264	1.6%
	Thu Apr 27, 2000	3:00 - 6:00 PM	1318	3.7%
	Tue Dec 7, 1999	3:00 - 5:00 PM	1314	4.3%
	Wed Nov 4, 1998	3:00 - 5:30 PM	1393	0.7%
	Wed Apr 30, 1997	3:00 - 6:00 PM	2171	0.2%
	Thu Nov 14, 1996	3:00 - 6:00 PM	1743	0.0%
	Wed Oct 11, 1995	3:00 - 6:00 PM	1370	6.0%
	Tue Nov 8, 1994	3:00 - 5:00 PM	1272	3.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-101

Route 280/680 to Bernal Road

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	72	31	36	3
Buses	5	12	3	4
Carpools ⁽¹⁾	2131	1779	734	667
Vanpools	3	9	0	2
Single Occ. ⁽²⁾	—	11642	—	3904
Violators	14	—	0	—
TOTAL	2225	13473	773	4580

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	72	31	36	3
Buses	175	420	105	140
Carpools ⁽¹⁾	4522	3810	1578	1424
Vanpools	30	90	0	20
Single Occ. ⁽²⁾	—	11642	—	3904
Violators	14	—	0	—
TOTAL	4813	15993	1719	5491

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh	
Mixed Flow occupancy rate		1.2 persons/veh		1.2 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.6 %		0.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 03/10/05 at the Hellyer Avenue I/C

SANTA CLARA-101

Bernal Road to Route 280/680

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	73	4	35	1
Buses	6	9	2	0
Carpools ⁽¹⁾	2264	477	947	159
Vanpools	5	6	1	1
Single Occ. ⁽²⁾	—	15095	—	5162
Violators	18	—	6	—
TOTAL	2366	15591	991	5323

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	73	4	35	1
Buses	210	315	70	0
Carpools ⁽¹⁾	4750	1039	2021	351
Vanpools	50	60	10	10
Single Occ. ⁽²⁾	—	15095	—	5162
Violators	18	—	6	—
TOTAL	5101	16513	2142	5524

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh	1.0 persons/veh	1.0 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh	1.2 persons/veh	1.2 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	0.8 %	0.8 %	0.6 %	0.6 %

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 04/19/05 at the Hellyer Avenue I/C

SANTA CLARA-101

Route 280/680 I/C to Bernal Road

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Jun 6, 2002	6:00 - 9:00 AM	730	5.6%
	Thu Apr 19, 2001	6:00 - 9:00 AM	746	5.4%
	Wed Oct 4, 2000	7:00 - 9:00 AM	413	5.6%
	Wed Nov 3, 1999	6:00 - 9:00 AM	660	0.9%
	Thur May 6, 1998	6:00 - 9:00 AM	576	0.7%
	Thu May 22, 1997	6:30 - 9:00 AM	473	6.1%
	Thu Oct 17, 1996	7:00 - 9:00 AM	538	0.7%
	Tue Oct 24, 1995	7:00 - 9:00 AM	538	6.5%
	Tue Nov 15, 1994	6:45 - 9:00 AM	490	11.4%
Thu Jun 17, 1993	6:00 - 9:00 AM	737	3.4%	
P.M. PEAK	Thu Mar 10, 2005	3:00 - 6:00 PM	2225	0.6%
	Tue Nov 23, 2004	3:00 - 5:30 PM	1747	0.3%
	Thu May 1, 2003	3:00 - 6:00 PM	2204	1.6%
	Tue Mar 19, 2002	3:00 - 6:00 PM	1496	2.0%
	Wed May 16, 2001	3:00 - 6:00 PM	1732	0.8%
	Tue Sep 19, 2000	3:00 - 6:00 PM	1898	0.7%
	Tue Mar 16, 1999	3:00 - 6:30 PM	702	4.6%
	Wed Apr 22, 1998	3:00 - 6:00 PM	1498	0.1%
	Tue Oct 7, 1997	3:00 - 6:00 PM	1843	0.1%
	Wed Dec 11, 1996	3:00 - 5:30 PM	1426	3.6%
	Wed May 3, 1995	3:00 - 7:00 PM	2181	11.0%
	Wed Nov 30, 1994	3:00 - 5:00 PM	1116	9.2%
	Thu May 20, 1993	3:00 - 6:00 PM	2154	5.7%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-101

Bernal Road to Route 280/680 I/C

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Apr 19, 2005	6:00 - 9:00 AM	2366	0.8%
	Tue Dec 14, 2004	6:00 - 9:00 AM	1668	1.3%
	Tue Jun 3, 2003	6:00 - 9:00 AM	2620	1.0%
	Thu May 16, 2002	6:00 - 9:00 AM	1859	2.7%
	Tue Apr 3, 2001	6:00 - 9:00 AM	2258	3.5%
	Thu Nov 30, 2000	7:00 - 9:00 AM	1503	2.3%
	Tue Dec 7, 1999	6:30 - 9:00 AM	2550	4.9%
	Tue Dec 8, 1998	6:00 - 9:00 AM	2663	4.8%
	Wed May 21, 1997	6:30 - 9:00 AM	1932	0.9%
	Thu Jun 6, 1996	6:00 - 9:00 AM	2225	0.2%
	Tue Apr 18, 1995	6:00 - 9:00 AM	1614	0.9%
	Wed Nov 9, 1994	6:45 - 9:00 AM	1668	1.6%
	Tue May 25, 1993	6:00 - 9:00 AM	1857	2.7%
	P.M. PEAK	Year 2005	-	-
Year 2004		-	-	-
Year 2003		-	-	-
Wed Mar 27, 2002		3:00 - 6:00 PM	1156	3.1%
Tue May 15, 2001		3:00 - 6:00 PM	1155	5.4%
Wed Apr 5, 2000		3:00 - 6:00 PM	1169	5.9%
Wed May 26, 1999		3:00 - 6:00 PM	1255	5.1%
Thu Apr 23, 1998		3:00 - 6:00 PM	995	4.6%
Wed Mar 12, 1997		3:00 - 6:00 PM	803	0.4%
Wed Dec 4, 1996		3:00 - 5:30 PM	777	3.3%
Thu Oct 19, 1995		3:00 - 6:00 PM	794	2.3%
Wed Dec 7, 1994		3:00 - 5:00 PM	1156	3.4%
Wed Jun 9, 1993		3:00 - 6:00 PM	1160	8.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
 (b) Evening period of operation from 3:00 to 7:00 PM.
 (c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-101

Bernal Road to Cochrane Road

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	69	33	24	14
Buses	3	8	1	0
Carpools ⁽¹⁾	2021	684	664	199
Vanpools	6	3	2	2
Single Occ. ⁽²⁾	—	10420	—	3782
Violators	3	—	0	—
TOTAL	2102	11148	691	3997

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	69	33	24	14
Buses	105	280	35	0
Carpools ⁽¹⁾	4305	1445	1419	413
Vanpools	60	30	20	20
Single Occ. ⁽²⁾	—	10420	—	3782
Violators	3	—	0	—
TOTAL	4542	12208	1498	4229

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.1 %		0.0 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 7:00 P.M.

(5) Observations conducted 09/13/05 at Coyote Creek Golf Drive I/C

SANTA CLARA-101

Cochrane Road to Bernal Road

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	18	3	10	1
Buses	2	3	1	3
Carpools ⁽¹⁾	1780	377	700	194
Vanpools	1	0	0	0
Single Occ. ⁽²⁾	—	12364	—	4273
Violators	26	—	10	—
TOTAL	1827	12747	721	4471

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	18	3	10	1
Buses	70	105	35	105
Carpools ⁽¹⁾	3659	815	1461	422
Vanpools	10	0	0	0
Single Occ. ⁽²⁾	—	12364	—	4273
Violators	26	—	10	—
TOTAL	3783	13287	1516	4801

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.4 %		1.4 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 5:00 to 9:00 A.M.

(5) Observations conducted 12/14/05 at Coyote Creek Golf Drive I/C

SANTA CLARA-101

Bernal Road to Cochrane Road

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
P.M. PEAK	Tue Sep 13, 2005	3:00 - 6:00 PM	2102	0.1%
	Wed Nov 3, 2004	3:00 - 5:30 PM	1493	1.5%
	Wed May 21, 2003	3:00 - 6:00 PM	1775	1.1%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak period

SANTA CLARA-101

Cochrane Road to Bernal Road

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Dec 14, 2005	6:00 - 9:00 AM	1827	1.4%
	Tue Nov 9, 2004	6:00 - 9:00 AM	2120	0.2%
	Tue Oct 28, 2003	6:00 - 9:00 AM	1720	0.0%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-

- NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-237

Route 880/237 I/C to Mathilda Avenue

Westbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	68	1	37	0
Buses	9	28	5	1
Carpools ⁽¹⁾	1536	134	556	45
Vanpools	1	1	0	0
Single Occ. ⁽²⁾	—	12005	—	4278
Violators	52	—	25	—
TOTAL	1666	12169	623	4324

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	68	1	37	0
Buses	315	980	175	35
Carpools ⁽¹⁾	3095	283	1126	93
Vanpools	10	10	0	0
Single Occ. ⁽²⁾	—	12005	—	4278
Violators	52	—	25	—
TOTAL	3540	13279	1363	4406

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane occupancy rate	2.1 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.1 %		4.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 11/02/05 at the Zanker Road I/C

SANTA CLARA-237

Route 880/237 I/C to Mathilda Avenue

Westbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	27	4	15	1
Buses	3	11	3	0
Carpools ⁽¹⁾	855	459	405	94
Vanpools	4	1	1	0
Single Occ. ⁽²⁾	—	9232	—	3703
Violators	19	—	5	—
TOTAL	908	9707	429	3798

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	27	4	15	1
Buses	105	385	105	0
Carpools ⁽¹⁾	1775	970	843	195
Vanpools	40	10	10	0
Single Occ. ⁽²⁾	—	9232	—	3703
Violators	19	—	5	—
TOTAL	1966	10601	978	3899

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	2.1 %		1.2 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/25/05 at the Zanker Road I/C

SANTA CLARA-237

Mathilda Avenue to Route 237/880 I/C

Eastbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	11	36	2
Buses	17	8	8	1
Carpools ⁽¹⁾	1402	250	536	69
Vanpools	7	2	2	0
Single Occ. ⁽²⁾	—	10159	—	3640
Violators	232	—	65	—
TOTAL	1746	10430	647	3712

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	11	36	2
Buses	595	280	280	35
Carpools ⁽¹⁾	2936	546	1115	155
Vanpools	70	20	20	0
Single Occ. ⁽²⁾	—	10159	—	3640
Violators	232	—	65	—
TOTAL	3921	11016	1516	3832

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	13.3 %		10.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/06/05 at the Zanker Road I/C

SANTA CLARA-237

McCarthy Blvd to Mathilda Avenue

Violation History

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Nov 2, 2005	6:00 - 9:00 AM	1666	3.1%
	Thu Nov 18, 2004	6:00 - 9:00 AM	1407	0.9%
	Thu May 29, 2003	6:00 - 9:00 AM	1644	0.0%
	Thu May 2, 2002	6:00 - 9:00 AM	1577	3.7%
	Thu May 3, 2001	6:00 - 9:00 AM	1916	5.3%
	Wed Nov 15, 2000	6:00 - 9:00 AM	2055	2.7%
	Tue Nov 9, 1999	6:30 - 9:00 AM	1917	1.9%
	Tue Sep 29, 1998	7:00 - 9:00 AM	1770	3.3%
	Tue May 13, 1997	6:30 - 9:00 AM	2015	2.8%
	Thu May 30, 1996	6:00 - 9:00 AM	3274	0.5%
	Wed Oct 25, 1995	7:00 - 9:00 AM	1308	2.6%
P.M. PEAK	Tue Oct 25, 2005	3:00 - 6:00 PM	908	2.1%
	Thu Dec 9, 2004	3:00 - 5:15 PM	493	10.8%
	Thu Oct 9, 2003	3:00 - 6:00 PM	698	5.6%
	Wed May 15, 2002	3:00 - 6:00 PM	773	2.2%
	Wed May 30, 2001	3:00 - 6:00 PM	1102	3.1%
	Wed Sep 13, 2000	3:00 - 6:00 PM	1155	2.5%
	Wed Mar 3, 1999	3:00 - 7:00 PM	1260	0.6%
	Tue Sep 29, 1998	3:00 - 6:00 PM	1658	2.8%
	Tue Oct 14, 1997	3:00 - 6:00 PM	1866	0.8%
	Wed Jun 12, 1996	3:00 - 6:00 PM	1593	0.9%
	Tue Oct 24, 1995	3:00 - 6:00 PM	1072	7.3%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SANTA CLARA-237

Mathilda Avenue to Route 880/237 I/C

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Oct 31, 2002	7:00 - 9:00 AM	561	12.1%
	Thu Mar 29, 2001	6:00 - 9:00 AM	759	15.0%
	Thu May 25, 2000	6:00 - 9:00 AM	536	5.8%
	Thu Oct 14, 1999	6:00 - 9:00 AM	769	11.4%
	Thu Oct 8, 1998	7:00 - 9:00 AM	750	3.2%
	Wed Oct 29, 1997	6:30 - 9:00 AM	723	0.1%
	Thu Nov 14, 1996	6:30 - 9:00 AM	845	7.5%
Thu Oct 26, 1995	7:00 - 9:00 AM	495	2.2%	
P.M. PEAK	Thu Oct 6, 2005	3:00 - 6:00 PM	1746	13.3%
	Wed Dec 1, 2004	3:00 - 5:00 PM	1324	0.8%
	Tue Oct 14, 2003	3:00 - 6:00 PM	1296	0.9%
	Wed May 1, 2002	3:00 - 6:00 PM	1396	1.9%
	Thu May 3, 2001	3:00 - 6:00 PM	1255	2.1%
	Tue Mar 21, 2000	4:00 - 7:00 PM	2181	0.4%
	Thu Nov 18, 1999	3:00 - 6:00 PM	2535	3.0%
	Thu Oct 15, 1998	3:00 - 6:00 PM	2418	5.0%
	Tue Oct 28, 1997	3:00 - 6:00 PM	2835	2.7%
	Thu Oct 17, 1996	3:00 - 6:00 PM	3682	0.3%
	Wed Oct 25, 1995	3:00 - 6:00 PM	1827	5.8%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-280

Magdalena Avenue to Leland Avenue

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	28	1	0	0
Buses	3	9	0	0
Carpools ⁽¹⁾	2436	494	899	26
Vanpools	1	1	0	0
Single Occ. ⁽²⁾	—	11537	—	4076
Violators	1	—	0	—
TOTAL	2469	12042	899	4102

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	28	1	0	0
Buses	105	315	0	0
Carpools ⁽¹⁾	5050	1032	1798	55
Vanpools	10	10	0	0
Single Occ. ⁽²⁾	—	11537	—	4076
Violators	1	—	0	—
TOTAL	5194	12895	1798	4131

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.1 persons/veh		2.0 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.0 %		0.0 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 12/13/05 at the Wolfe Road I/C

SANTA CLARA-280

Leland Avenue to Magdalena Avenue

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	47	17	20	3
Buses	5	19	2	4
Carpools ⁽¹⁾	1528	414	685	155
Vanpools	9	1	4	1
Single Occ. ⁽²⁾	—	14560	—	5647
Violators	13	—	6	—
TOTAL	1602	15011	717	5810

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	47	17	20	3
Buses	175	665	70	140
Carpools ⁽¹⁾	3122	953	1394	358
Vanpools	90	10	40	10
Single Occ. ⁽²⁾	—	14560	—	5647
Violators	13	—	6	—
TOTAL	3447	16205	1530	6158

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.8 %		0.8 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 03/08/05 at the Wolfe Road I/C

SANTA CLARA-280

Magdalena Avenue to Leland Avenue

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Apr 18, 2002	6:30 - 9:00 AM	372	4.6%
	Thu Apr 5, 2001	6:00 - 9:00 AM	524	2.7%
	Thu Apr 13, 2000	6:00 - 9:00 AM	474	9.3%
	Tue Apr 20, 1999	6:00 - 9:00 AM	608	0.3%
	Thu Jun 4, 1998	6:00 - 9:00 AM	781	0.1%
	Wed Oct 22, 1997	7:00 - 9:00 AM	592	0.0%
	Wed Oct 9, 1996	7:00 - 9:00 AM	1087	1.4%
	Wed Nov 1, 1995	6:30 - 9:00 AM	566	4.9%
	Wed Nov 30, 1994	7:00 - 9:00 AM	989	1.6%
Thu Dec 9, 1993	7:00 - 9:00 AM	469	4.5%	
P.M. PEAK	Tue Dec 13, 2005	3:00 - 6:00 PM	2469	0.0%
	Tue Nov 2, 2004	3:00 - 5:30 PM	1817	2.3%
	Thu Jun 12, 2003	3:00 - 5:30 PM	1756	1.0%
	Thu Sep 19, 2002	3:00 - 6:00 PM	1933	0.6%
	Thu Oct 11, 2001	3:00 - 6:00 PM	2221	1.0%
	Wed Oct 11, 2000	3:00 - 6:00 PM	2325	5.0%
	Wed Apr 21, 1999	3:00 - 6:00 PM	2058	4.9%
	Tue Dec 8, 1998	3:00 - 6:00 PM	2236	1.0%
	Tue Oct 21, 1997	3:00 - 6:00 PM	2050	2.8%
	Tue Jun 11, 1996	3:00 - 6:00 PM	1716	4.3%
	Tue May 16, 1995	3:00 - 6:00 PM	1996	9.3%
	Wed Nov 16, 1994	3:00 - 5:00 PM	858	2.3%
	Wed May 26, 1993	3:00 - 6:00 PM	2348	1.7%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SANTA CLARA-280

Leland Avenue to Magdalena Avenue

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Mar 8, 2005	6:00 - 9:00 AM	1602	0.8%
	Thu Oct 7, 2004	6:00 - 9:00 AM	2213	2.4%
	Thu Jun 5, 2003	6:00 - 9:00 AM	1558	7.4%
	Tue May 21, 2002	6:00 - 9:00 AM	1355	5.4%
	Tue Nov 6, 2001	6:00 - 9:00 AM	1253	1.6%
	Wed Mar 29, 2000	6:00 - 9:00 AM	2086	1.7%
	Thu Nov 4, 1999	6:30 - 9:00 AM	1884	0.3%
	Wed Dec 9, 1998	6:00 - 9:00 AM	2235	3.7%
	Wed Apr 23, 1997	6:00 - 9:00 AM	1851	0.10%
	Tue Jun 11, 1996	6:00 - 9:00 AM	1762	1.40%
	Thu May 18, 1995	6:00 - 9:00 AM	2510	1.50%
	Wed Nov 16, 1994	6:45 - 9:00 AM	1124	2.9%
	Wed Nov 17, 1993	6:30 - 9:00 AM	2639	1.3%
P.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Tue May 28, 2002	3:00 - 6:00 PM	1081	1.5%
	Wed Apr 4, 2001	3:00 - 6:00 PM	1160	0.9%
	Thu Apr 13, 2000	3:00 - 6:00 PM	1106	5.4%
	Tue Apr 20, 1999	3:00 - 6:00 PM	938	0.2%
	Tue Sep 15, 1998	3:00 - 6:00 PM	955	5.3%
	Wed, Apr 23, 1997	3:00 - 6:00 PM	1975	0.5%
	Thu Dec 12, 1996	3:00 - 5:30 PM	1205	4.2%
	Wed May 17, 1995	3:00 - 6:00 PM	1095	13.2%
	Thu Nov 17, 1994	3:00 - 5:00 PM	584	9.1%
	Thu Jun 10, 1993	3:00 - 6:00 PM	1238	4.2%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
 (b) Evening period of operation from 3:00 to 7:00 PM.
 (c) Data was not collected in 2005 for off-peak direction

SAN FRANCISCO-80 RAMP HOV

Sterling Street on-ramp to SFOBB

Eastbound-P.M.

Typical data for 2005 ⁽⁵⁾

PEAK PERIOD ⁽⁴⁾

3:30 - 7:00 PM

PEAK HOUR

5:00 - 6:00 PM

VEHICLES

	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	126	—	34	—
Buses	16	—	5	—
Carpool ⁽¹⁾	1533	—	559	—
2 - seaters ⁽²⁾	727	—	267	—
Vanpools	79	—	18	—
Trucks	84	—	19	—
Violators	826	—	167	—
TOTAL	3391	N/A	1069	N/A

PERSONS

	HOV Lane	SOV Lane	HOV Lane	SOV Lane
Motorcycles	126	—	34	—
Buses	560	—	175	—
Carpool ⁽¹⁾	4752	—	1733	—
2 - seaters ⁽²⁾	1454	—	534	—
Vanpools	790	—	180	—
Trucks	84	—	19	—
Violators	1267	—	282	—
TOTAL	9033	N/A	2957	N/A

RATES

HOV Lane occupancy rate	2.7 persons/veh	2.8 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	24.4 %	15.6 %

NOTES: (1) 3 or more persons per vehicle.

(2) 2 - seater vehicles with 2 persons.

(3) $Violation\ rate = \frac{no.\ of\ violators\ in\ HOV\ lane}{Total\ no.\ of\ vehicles\ in\ HOV\ lane} \times 100\%$

(4) HOV lane in operation from 3:30 to 7:00 PM.

(5) Observations conducted 3/8/05 at the Sterling Street on-ramp

SAN FRANCISCO-80 RAMP HOV

Sterling Street On-Ramp to SFOBB

Violation History Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
P.M. PEAK	Tue Mar 8, 2005	3:30 - 7:00 PM	3391	24.4%
	Tue Oct 12, 2004	3:30 - 7:00 PM	3161	20.2%
	Wed Apr 30, 2003	3:30 - 7:00 PM	2185	22.6%
	Tue Sep 17, 2002	3:30 - 7:00 PM	2713	15.1%
	Wed Oct 10, 2001	3:30 - 7:00 PM	3133	10.4%
	Thu Oct 19, 2000	3:30 - 7:00 PM	3327	6.5%
	Thu Oct 14, 1999	3:30 - 7:00 PM	3566	27.5%
	Thu Dec 3, 1998	3:30 - 7:00 PM	3276	29.0%
	Wed Jun 11, 1997	3:30 - 7:00 PM	2810	12.4%
	Tue Apr 23, 1996	3:30 - 7:00 PM	1891	22.2%
	Wed Mar 29, 1995	3:30 - 7:00 PM	2692	52.6%
	Tue May 17, 1994	4:00 - 6:00 PM	787	28.3%
	Wed Oct 13, 1993	4:00 - 6:00 PM	1023	34.6%
	Thu Jun 4, 1992	4:00 - 6:00 PM	1051	35.0%
	Tue Dec 3, 1991	4:00 - 6:00 PM	1427	28.0%
	Thu Nov 15, 1990	4:00 - 6:00 PM	701	58.3%
	Tue Apr 18, 1989	4:30 - 6:00 PM	821	17.4%
	Tue Apr 26, 1988	4:00 - 6:00 PM	1599	69.2%
	Tue Oct 20, 1987	4:00 - 6:00 PM	1103	53.3%
	Tue Apr 21, 1987	4:00 - 6:00 PM	960	40.1%
Tue Oct 21, 1986	4:00 - 6:00 PM	1576	50.7%	
Tue Oct 22, 1985	4:00 - 6:00 PM	1252	38.4%	

NOTES: Evening period of operation from 3:30 to 7:00 P.M.

SAN MATEO-101

Whipple Avenue to SM/SCL County Line

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	58	20	22	6
Buses	6	20	2	3
Carpools ⁽¹⁾	1090	645	405	194
Vanpools	6	5	3	1
Single Occ. ⁽²⁾	—	13751	—	4987
Violators	17	—	5	—
TOTAL	1177	14441	437	5191

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	58	20	22	6
Buses	210	700	70	105
Carpools ⁽¹⁾	2269	1419	845	428
Vanpools	60	50	30	10
Single Occ. ⁽²⁾	—	13751	—	4987
Violators	17	—	5	—
TOTAL	2614	15940	972	5536

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.4 %		1.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 03/10/05 at the Woodside Road I/C

SAN MATEO-101

Whipple Avenue to SM/SCL County Line

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	68	17	29	4
Buses	1	13	0	1
Carpools ⁽¹⁾	1463	1792	485	478
Vanpools	12	12	4	1
Single Occ. ⁽²⁾	—	14685	—	5156
Violators	24	—	7	—
TOTAL	1568	16519	525	5640

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	68	17	29	4
Buses	35	455	0	35
Carpools ⁽¹⁾	3017	3775	1001	1006
Vanpools	120	120	40	10
Single Occ. ⁽²⁾	—	14685	—	5156
Violators	24	—	7	—
TOTAL	3264	19052	1077	6211

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.1 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	1.5 %		1.3 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 09/28/05 at the Woodside Road I/C

SAN MATEO-101

SM/SCL County Line to Whipple Avenue

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	28	9	9	4
Buses	2	25	0	5
Carpools ⁽¹⁾	1360	305	510	93
Vanpools	12	10	6	0
Single Occ. ⁽²⁾	—	11207	—	4136
Violators	7	—	6	—
TOTAL	1409	11556	531	4238

PERSONS	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	28	9	9	4
Buses	70	875	0	175
Carpools ⁽¹⁾	2810	656	1054	210
Vanpools	120	100	60	0
Single Occ. ⁽²⁾	—	11207	—	4136
Violators	7	—	6	—
TOTAL	3035	12847	1129	4525

RATES	PEAK PERIOD ⁽⁴⁾ 6:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.5 %		1.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 5:00 to 9:00 A.M.
 (5) Observations conducted 04/06/05 at the Woodside Road I/C

SAN MATEO-101

SM/SCL County Line to Whipple Avenue

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	49	8	26	1
Buses	7	7	5	1
Carpools ⁽¹⁾	1956	709	710	204
Vanpools	4	4	2	1
Single Occ. ⁽²⁾	—	10760	—	4072
Violators	9	—	2	—
TOTAL	2025	11488	745	4279

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	49	8	26	1
Buses	245	245	175	35
Carpools ⁽¹⁾	4142	1509	1503	433
Vanpools	40	40	20	10
Single Occ. ⁽²⁾	—	10760	—	4072
Violators	9	—	2	—
TOTAL	4485	12562	1726	4551

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:00 PM		PEAK HOUR 5:00 - 6:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	0.4 %		0.3 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 7:00 P.M.
 (5) Observations conducted 10/04/05 at the Woodside Road I/C

SAN MATEO-101

Whipple Avenue to the SM/SCL County Line

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Mar 10, 2005	6:00 - 9:00 AM	1177	1.4%
	Wed Dec 15, 2004	7:00 - 9:00 AM	1355	0.1%
	Wed Apr 9, 2003	6:00 - 9:00 AM	1701	0.6%
	Tue Mar 26, 2002	6:00 - 9:00 AM	1549	3.5%
	Thu Mar 22, 2001	6:00 - 9:00 AM	1746	2.2%
	Tue Apr 25, 2000	6:00 - 9:00 AM	1849	7.0%
	Thu Dec 2, 1999	6:45 - 9:00 AM	1915	5.2%
	Tue Mar 10, 1998	6:00 - 9:00 AM	2711	0.8%
	Tue Sept 23, 1997	7:00 - 9:00 AM	1761	0.7%
	Wed Mar 27, 1996	6:00 - 9:00 AM	1681	4.6%
	Wed Jun 7, 1995	6:00 - 9:00 AM	1922	3.0%
	Tue Sep 27, 1994	6:45 - 9:00 AM	2078	4.2%
	Wed Jun 16, 1993	6:00 - 9:00 AM	1236	17.3%
P.M. PEAK	Wed Sep 28, 2005	3:00 - 6:00 PM	1568	1.5%
	Tue Oct 26, 2004	3:00 - 6:00 PM	1296	1.5%
	Wed May 14, 2003	3:00 - 6:00 PM	1488	2.5%
	Wed Oct 2, 2002	3:00 - 6:00 PM	1895	3.2%
	Thu Nov 8, 2001	3:00 - 5:30 PM	1685	7.0%
	Thu Oct 12, 2000	3:00 - 6:00 PM	2245	3.3%
	Wed Dec 8, 1999	3:00 - 5:15 PM	1683	0.5%
	Thu Dec 10, 1998	3:00 - 6:00 PM	2537	1.6%
	Wed Nov 5, 1997	3:00 - 6:00 PM	2514	0.6%
	Wed Mar 27, 1996	3:00 - 6:00 PM	2836	1.9%
	Tue Sept 26, 1995	3:00 - 6:00 PM	2505	2.0%
	Tue Oct 18, 1994	3:00 - 6:00 PM	2613	7.0%
	Tue May 11, 1993	3:00 - 6:00 PM	1535	19.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SAN MATEO-101

SM/SCL County Line to Whipple Avenue

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Apr 6, 2005	6:00 - 9:00 AM	1409	0.5%
	Wed Dec 1, 2004	6:00 - 9:00 AM	1337	0.7%
	Thu Oct 9, 2003	7:00 - 9:00 AM	1031	1.5%
	Tue Apr 9, 2002	6:45 - 9:00 AM	865	5.7%
	Wed Oct 31, 2001	6:00 - 9:00 AM	1662	2.1%
	Thu Oct 12, 2000	6:00 - 9:00 AM	2964	4.7%
	Thu Apr 29, 1999	6:00 - 9:00 AM	2088	0.5%
	Tue Oct 27, 1998	6:00 - 9:00 AM	1873	2.1%
	Thu Sept 25, 1997	7:00 - 9:00 AM	1348	0.1%
	Wed Jun 5, 1996	6:00 - 9:00 AM	1799	3.3%
	Thu Jun 15, 1995	6:00 - 9:00 AM	2272	2.9%
	Tue Apr 19, 1994	6:00 - 9:00 AM	2549	5.8%
	Tue Jun 8, 1993	6:00 - 9:00 AM	1695	4.2%
P.M. PEAK	Tue Oct 4, 2005	3:00 - 6:00 PM	2025	0.4%
	Thu Oct 28, 2004	3:00 - 6:00 PM	1929	0.1%
	Tue Apr 8, 2003	3:00 - 6:00 PM	2327	2.0%
	Wed Jun 5, 2002	3:00 - 6:00 PM	1969	3.4%
	Wed Nov 14, 2001	3:00 - 5:30 PM	1675	0.2%
	Tue Sep 12, 2000	3:00 - 6:00 PM	2329	14.3%
	Tue Oct 26, 1999	3:00 - 6:00 PM	2987	8.5%
	Wed Dec 9, 1998	3:00 - 6:00 PM	2670	6.6%
	Tue Apr 29, 1997	3:00 - 6:00 PM	2616	0.9%
	Thu Sep 26, 1996	3:00 - 6:00 PM	2619	5.8%
	Tue Jun 6, 1995	3:00 - 6:30 PM	2617	4.4%
	Wed Apr 20, 1994	3:00 - 6:00 PM	3530	3.1%
	Wed Jun 2, 1993	3:00 - 6:00 PM	1763	8.2%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 7:00 PM.

SOLANO-80

Carquinez Bridge Toll Plaza

Eastbound - P.M.

Typical data for 2005 ⁽⁶⁾

VEHICLES	PEAK PERIOD ⁽⁵⁾ 3:00 to 7:00 P.M.		PEAK HOUR 5:00 to 6:00 P.M.	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	242	—	51	—
Buses ⁽⁴⁾	48	—	15	—
Carpools ⁽¹⁾	2221	—	615	—
2 - seaters ⁽²⁾	663	—	181	—
Vanpools	136	—	44	—
Violators (HOV only)	213	—	46	—
TOTAL	3523	16145 ⁽⁷⁾	952	4321 ⁽⁷⁾

PERSONS	PEAK PERIOD ⁽⁵⁾ 3:00 to 7:00 P.M.		PEAK HOUR 5:00 to 6:00 P.M.	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	242	—	51	—
Buses ⁽⁴⁾	1680	—	525	—
Carpools ⁽¹⁾	6885	—	1907	—
2 - seaters ⁽²⁾	1326	—	362	—
Vanpools	1360	—	440	—
Violators (HOV only)	310	—	59	—
TOTAL	11803	17760 ⁽⁷⁾	3344	4753 ⁽⁷⁾

RATES	PEAK PERIOD ⁽⁵⁾ 3:00 to 7:00 P.M.		PEAK HOUR 5:00 to 6:00 P.M.	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane occupancy rate	3.4 persons/veh		3.5 persons/veh	
Mixed Flow Occupancy Rate ⁽⁷⁾	1.1 persons/veh		1.1 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	6.0 %		4.8 %	

- NOTES:** (1) 3 or more persons per vehicle.
 (2) 2 - seater vehicles with 2 persons.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) Assumed PM bus occupancy = 35 persons/vehicle.
 (5) HOV lane in operation from 3:00 to 7:00 P.M.
 (6) Observations conducted 9/14/05 at the Carquinez Bridge Toll Plaza.
 (7) Data from Toll Plaza vehicle Registration Report.

SOLANO-80

Carquinez Bridge Toll Plaza

Violation History

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Nov 14, 2002	5:00 - 10:00 AM	706	10.1%
	Thu May 31, 2001	5:00 - 10:00 AM	804	24.5%
	Thu Nov 16, 2000	5:00 - 10:00 AM	773	34.4%
	Wed Mar 10, 1999	6:00 - 10:00 AM	664	26.2%
	Wed Sep 16, 1998	6:00 - 10:00 AM	559	27.2%
P.M. PEAK	Wed Sep 14, 2005	3:00 - 7:00 PM	3523	6.0%
	Wed Oct 13, 2004	3:00 - 7:00 PM	3342	9.4%
	Thu May 15, 2003	3:00 - 7:00 PM	3360	8.8%
	Thu Sep 26, 2002	3:00 - 7:00 PM	3429	9.5%
	Thu Mar 29, 2001	3:00 - 7:00 PM	3493	1.2%
	Tue Oct 17, 2000	3:00 - 7:00 PM	3373	9.5%
	Wed Sep 29, 1999	3:00 - 7:00 PM	2945	12.9%
	Wed Sep 16, 1998	3:00 - 7:00 PM	2203	12.4%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM
(b) Evening period of operation from 3:00 to 7:00 PM.
(c) Data was not collected in 2005 for off-peak direction

SONOMA-101

Route 12 to Wilfred Avenue

Southbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	62	4	46	2
Buses	5	5	2	1
Carpools ⁽¹⁾	913	218	460	122
Vanpools	4	1	4	0
Single Occ. ⁽²⁾	—	6231	—	3274
Violators	39	—	12	—
TOTAL	1023	6459	524	3399

PERSONS	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	62	4	46	2
Buses	175	175	70	35
Carpools ⁽¹⁾	1960	471	981	264
Vanpools	40	10	40	0
Single Occ. ⁽²⁾	—	6231	—	3274
Violators	39	—	12	—
TOTAL	2276	6891	1149	3575

RATES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 7:00 - 8:00 AM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.8 %		2.3 %	

NOTES: (1) Two or more occupants per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 7:00 to 9:00 A.M.

(5) Observations conducted 03/10/05 at South of Hearn Avenue Interchange.

SONOMA-101

Route 12 to Wilfred Avenue

Southbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	60	21	14	6
Buses	2	15	0	3
Carpools ⁽¹⁾	1803	1356	515	390
Vanpools	26	0	11	0
Single Occ. ⁽²⁾	—	11594	—	3526
Violators	76	—	6	—
TOTAL	1967	12986	546	3925

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	60	21	14	6
Buses	70	525	0	105
Carpools ⁽¹⁾	3803	2864	1088	832
Vanpools	260	0	110	0
Single Occ. ⁽²⁾	—	11594	—	3526
Violators	76	—	6	—
TOTAL	4269	15004	1218	4469

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh		2.2 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh		1.1 persons/veh	
Overall occupancy (incl. buses)	1.3 persons/veh		1.3 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	3.9 %		1.1 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 3:00 to 6:30 P.M.
 (5) Observations conducted 03/09/05 at South of Hearn Avenue Interchange.

SONOMA-101

Wilfred Avenue to Route 12

Northbound - A.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	20	1	8	1
Buses	12	3	9	1
Carpools ⁽¹⁾	761	119	402	42
Vanpools	2	0	1	0
Single Occ. ⁽²⁾	—	6835	—	3410
Violators	41	—	24	—
TOTAL	836	6958	444	3454

PERSONS	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	20	1	8	1
Buses	420	105	315	35
Carpools ⁽¹⁾	1595	247	827	85
Vanpools	20	0	10	0
Single Occ. ⁽²⁾	—	6835	—	3410
Violators	41	—	24	—
TOTAL	2096	7188	1184	3531

RATES	PEAK PERIOD ⁽⁴⁾ 7:00 - 9:00 AM		PEAK HOUR 8:00 - 9:00 AM	
	HOV Lane occupancy rate	2.5 persons/veh		2.7 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh		1.0 persons/veh	
Overall occupancy (incl. buses)	1.2 persons/veh		1.2 persons/veh	
Violation rate ⁽³⁾ (HOV Lane)	4.9 %		5.4 %	

- NOTES:** (1) Two or more occupants per vehicle.
 (2) Mixed flow lanes only.
 (3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$
 (4) HOV lane in operation from 7:00 to 9:00 A.M.
 (5) Observations conducted 03/15/05 at North of Todd Road Interchange

SONOMA-101

Wilfred Avenue to Route 12

Northbound - P.M.

Typical data for 2005 ⁽⁵⁾

VEHICLES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	23	35	2
Buses	15	27	4	6
Carpools ⁽¹⁾	2103	833	650	248
Vanpools	12	7	4	1
Single Occ. ⁽²⁾	—	9760	—	2906
Violators	45	—	5	—
TOTAL	2263	10650	698	3163

PERSONS	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	23	35	2
Buses	525	945	140	210
Carpools ⁽¹⁾	4260	1772	1318	519
Vanpools	120	70	40	10
Single Occ. ⁽²⁾	—	9760	—	2906
Violators	45	—	5	—
TOTAL	5038	12570	1538	3647

RATES	PEAK PERIOD ⁽⁴⁾ 3:00 - 6:30 PM		PEAK HOUR 4:00 - 5:00 PM	
	HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh	1.2 persons/veh	1.2 persons/veh	1.2 persons/veh
Overall occupancy (incl. buses)	1.4 persons/veh	1.4 persons/veh	1.3 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	2.0 %	2.0 %	0.7 %	0.7 %

NOTES: (1) Two or more occupants per vehicle.

(2) Mixed flow lanes only.

(3) Violation rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{Total no. of vehicles in HOV lane}}$

(4) HOV lane in operation from 3:00 to 6:30 P.M.

(5) Observations conducted 10/06/05 at North of Todd Road Interchange.

SONOMA-101

Route 12 to Wilfred Avenue

Violation History

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Mar 10, 2005	7:00 - 9:00 AM	1023	3.8%
	Thu Oct 7, 2004	7:00 - 9:00 AM	772	2.2%
	Thu Apr 10, 2003	6:30 - 9:30 AM	997	4.8%
	Tue Dec 10, 2002	6:30 - 9:30 AM	951	5.8%
P.M. PEAK	Wed Mar 9, 2005	3:00 - 6:30 PM	1967	3.9%
	Thu Oct 28, 2004	3:00 - 6:30 PM	2809	1.2%
	Thu Apr 10, 2003	3:00 - 7:00 PM	2224	2.7%
	Tue Dec 10, 2002	3:00 - 7:00 PM	1645	2.9%

NOTES: (a) Morning period of operation from 7:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 6:30 PM.

SONOMA-101

Wilfred Avenue to Route 12

Violation History

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Mar 15, 2005	7:00 - 9:00 AM	836	4.9%
	Thu Oct 14, 2004	7:00 - 9:00 AM	666	4.4%
	Wed Apr 9, 2003	6:30 - 9:30 AM	839	6.0%
	Thu Dec 5, 2002	6:30 - 9:30 AM	696	6.6%
P.M. PEAK	Thu Oct 6, 2005	3:00 - 6:30 PM	2263	2.0%
	Thu Oct 21, 2004	3:00 - 6:30 PM	1945	2.2%
	Thu Oct 16, 2003	3:00 - 7:00 PM	2172	3.2%
	Thu Dec 5, 2002	3:00 - 7:00 PM	2145	1.9%

NOTES: (a) Morning period of operation from 7:00 to 9:00 AM.
(b) Evening period of operation from 3:00 to 6:30 PM.

HOV TOLL GATES

VOLUME/PERSON DATA

HOV TOLL GATE

Richmond-San Rafael Bridge Toll Plaza

CONTRA COSTA - 580

Westbound - A.M.

Typical data for 2005 ⁽³⁾

	PEAK PERIOD ⁽²⁾ 5:00 - 10:00 AM	PEAK HOUR 7:00 - 8:00 AM
VEHICLES		
Motorcycles	73	22
Buses	42	4
Vanpools	13	1
Carpools ⁽¹⁾	710	290
Total HOVs	838	317
1 Occupancy	766	152
2 Occupancy	202	59
TOTAL	1806	528
PERSONS		
Motorcycles	73	22
Buses	1470	140
Vanpools	130	10
Carpools ⁽¹⁾	1988	812
Total HOVs	3661	984
1 Occupancy	766	152
2 Occupancy	404	118
TOTAL	4831	1254
RATES		
HOV Occupancy Rate	4.4 persons/veh	3.1 persons/veh
Mixed Flow Occupancy Rate	1.2 persons/veh	1.3 persons/veh
Overall Occupancy (incl. buses)	2.7 persons/veh	2.4 persons/veh

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) HOV operation hours from 5:00 to 10:00 AM and 3:00 to 6:00 PM.

(3) Observations conducted 10/18/05 at Toll Plaza.

HOV TOLL GATE

Richmond-San Rafael Bridge Toll Plaza

CONTRA COSTA - 580

Westbound - P.M.
 Typical data for 2005 ⁽³⁾

	PEAK PERIOD ⁽²⁾ 3:00 - 6:00 PM	PEAK HOUR 5:00 - 6:00 PM
VEHICLES		
Motorcycles	43	16
Buses	3	1
Vanpools	15	8
Carpools ⁽¹⁾	261	95
Total HOVs	322	120
1 Occupancy	472	176
2 Occupancy	85	30
TOTAL	879	326
PERSONS		
Motorcycles	43	16
Buses	105	35
Vanpools	150	80
Carpools ⁽¹⁾	731	266
Total HOVs	1029	397
1 Occupancy	472	176
2 Occupancy	170	60
TOTAL	1671	633
RATES		
HOV Occupancy Rate	3.2 persons/veh	3.3 persons/veh
Mixed Flow Occupancy Rate	1.2 persons/veh	1.1 persons/veh
Overall Occupancy (incl. buses)	1.9 persons/veh	1.9 persons/veh

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) HOV operation hours from 5:00 to 10:00 AM and 3:00 to 6:00 PM.

(3) Observations conducted 3/9/05 at Toll Plaza.

HOV TOLL GATE

Antioch Bridge Toll Plaza

CONTRA COSTA -160

Northbound A.M.

Typical data for 2005⁽³⁾

PEAK PERIOD⁽²⁾

6:00 to 9:00 AM

PEAK HOUR

6:00 to 7:00 AM

VEHICLES

Motorcycles	6	2
Buses	2	0
Vanpools	0	0
Carpools ⁽¹⁾	19	0
Total HOV	27	2
1 Occupancy	1119	421
2 Occupancy	88	13
TOTAL	1234	436

PERSONS

Motorcycles	6	2
Buses	70	0
Vanpools	0	0
Carpools ⁽¹⁾	59	0
Total HOV	135	2
1 Occupancy	1119	421
2 Occupancy	176	26
TOTAL	1430	449

RATES

HOV Occupancy Rate	5.0 persons/veh	1.0 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.0 persons/veh

- NOTES:** (1) 3 or more occupants per vehicle & 2-seater vehicles w/2 occupants.
(2) HOV operation hours 5:00 to 10:00 AM.
(3) Observations conducted 10/19/05 at Toll Plaza

HOV TOLL GATE

Antioch Bridge Toll Plaza

CONTRA COSTA -160

Northbound P.M.

Typical data for 2005⁽³⁾

PEAK PERIOD⁽²⁾

3:00 to 6:00 PM

PEAK HOUR

4:00 to 5:00 PM

VEHICLES

Motorcycles	8	2
Buses	0	0
Vanpools	3	1
Carpools ⁽¹⁾	46	16
Total HOV	57	19
1 Occupancy	1495	546
2 Occupancy	332	113
TOTAL	1884	678

PERSONS

Motorcycles	8	2
Buses	0	0
Vanpools	30	10
Carpools ⁽¹⁾	143	50
Total HOV	181	62
1 Occupancy	1495	546
2 Occupancy	664	226
TOTAL	2340	834

RATES

HOV Occupancy Rate	3.2 persons/veh	3.2 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh

- NOTES:** (1) 3 or more occupants per vehicle & 2-seater vehicles w/2 occupants.
 (2) HOV operation hours 3:00 to 7:00 PM.
 (3) Observations conducted 3/3/05 at Toll Plaza

HOV TOLL GATE

Benicia-Martinez Bridge Toll Plaza

SOLANO - 680

Northbound A.M.

Typical data for 2005 ⁽³⁾

PEAK PERIOD ⁽²⁾

6:00 to 9:00 AM

PEAK HOUR

7:00 to 8:00 AM

VEHICLES

Motorcycles	48	23
Buses	14	5
Vanpools	7	3
Carpools ⁽¹⁾	102	44
Total HOV	171	75
1 Occupancy	6605	2342
2 Occupancy	555	289
TOTAL	7331	2706

PERSONS

Motorcycles	48	23
Buses	490	175
Vanpools	70	30
Carpools ⁽¹⁾	316	136
Total HOV	924	364
1 Occupancy	6605	2342
2 Occupancy	1110	578
TOTAL	8639	3284

RATES

HOV Occupancy Rate	5.4 persons/veh	4.9 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh

- NOTES:** (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.
(2) HOV operation hours from 5:00 to 10:00 AM.
(3) Observations conducted 10/05/05 at Benicia Bridge Toll Plaza.

HOV TOLL GATE

Benicia-Martinez Bridge Toll Plaza

SOLANO - 680

Northbound P.M.

Typical data for 2005 ⁽³⁾

PEAK PERIOD ⁽²⁾

3:00 to 6:00 PM

PEAK HOUR

4:00 to 5:00 PM

VEHICLES

Motorcycles	85	32
Buses	16	8
Vanpools	39	13
Carpools ⁽¹⁾	248	68
Total HOV	388	121
1 Occupancy	10573	3666
2 Occupancy	1275	490
TOTAL	12236	4277

PERSONS

Motorcycles	85	32
Buses	560	280
Vanpools	390	130
Carpools ⁽¹⁾	769	211
Total HOV	1804	653
1 Occupancy	10573	3666
2 Occupancy	2550	980
TOTAL	14927	5299

RATES

HOV Occupancy Rate	4.6 persons/veh	5.4 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh

- NOTES:** (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.
(2) HOV operation hours from 3:00 to 7:00 PM.
(3) Observations conducted 10/04/05 at Benicia Bridge Toll Plaza.