

# 2015 MANAGED LANE ANNUAL REPORT



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STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

District 7  
Los Angeles and Ventura Counties

October 2015

This report contains statistics of measurement only. The data herein should not be construed to be a conclusion or judgment on the performance of Managed lanes.

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Manual occupancy data (including vehicle volume and classification) was collected from April 14, 2015 to July 8, 2015. Managed (HOV and Express) lane and general purpose (GP) lane volume/occupancy counts are made by two to four person teams from 6:30 am to 8:30 am in the morning peak direction and from 3:30 pm to 6:00 pm in the afternoon peak direction.

Count locations are usually overpasses and pedestrian overcrossings. These counts are performed on weekdays (Tuesday, Wednesday, and/or Thursday). One manual occupancy count is performed at each count location in the morning and afternoon peak direction. No counts are made when weather or unusual traffic condition could be considered a factor, e.g. rain, fog, traffic accidents, etc. Days that are affected by a holiday are also excluded from the count to avoid unusually higher occupancies from recreational travel.

Managed lane volume, occupancy and vehicle classification information is gathered by a continuous manual count in the peak direction. The information is recorded in 15-minute increments during each count period.

General purpose lane volume, occupancy and vehicle classification information is gathered by sampling one lane for a pre-determined time, and then doing the same for all other lanes of the freeway in the peak direction. For example, a four general purpose lane freeway (each direction) is sampled at six minutes per lane. The four samples of six-minute volume are then extrapolated to calculate a 30-minute all-lane volume and occupancy count.

(Three GP lanes counted at 8 minutes per lane for a total of 24 minutes, four GP lanes counted at 6 minutes per lane for a total of 24 minutes and five GP lanes counted at 5 minutes per lane for a total of 25 minutes).

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# EXECUTIVE SUMMARY

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The 2015 Managed Lane Annual Report (formerly: HOV Annual Report) is prepared by the Office of Traffic Engineering-North, Managed Lanes Branch in District 7. California Department of Transportation (Caltrans), District 7 (Los Angeles and Ventura Counties) has one of the most extensive managed lane (HOV and Express lane) system in the country. The Los Angeles County managed lane system is part of a larger regional system that serves the five counties of the Los Angeles metropolitan area (Los Angeles, Ventura, Orange, San Bernardino, and Riverside). The central purpose of a managed lane system is to move more people rather than merely more vehicles.

All managed lane facilities in Los Angeles and Ventura counties are operated on a 24 hour basis except on Route 14 in Los Angeles County and Route 101 in Ventura County. With the exception of the San Bernardino (Alameda Street to Route 605) and Harbor freeway Express lanes, all High Occupancy Vehicle (HOV) lanes within Los Angeles and Ventura counties require a minimum occupancy of two or more persons. Certain clean air vehicles (displaying a clean air vehicle decal issued by the California Department of Motor Vehicles) not carrying the requisite number of passengers are allowed the use of HOV and Express lanes. All vehicles using the Express lanes must carry a FasTrak transponder.

Caltrans District 7 has added several hundred HOV lane-miles since the introduction of the first HOV facility in 1973 on the San Bernardino freeway also known as the El Monte Busway. Currently, Los Angeles and Ventura Counties have 557 lane-miles of managed lane facilities. It is comprised of 475 lane-miles of HOV lanes and 82 lane-miles of Express lanes. Statewide, there are approximately 1477 lane-miles of HOV lanes and 183 lanes-miles [excluding Route 91 Express Toll lanes in Orange County (40 lane-miles)] of Express lanes.

An average managed lane facility in Los Angeles County accommodates approximately 1400 vehicles per hour per lane or 3000 people per hour per lane, during the morning and afternoon highest 1-hour managed lane volume. Some managed lane facilities carry over 1600 vehicles per hour per lane in the peak direction. These volumes well exceed the minimum expected volume of 800 vehicles per hour per lane or 1800 people per hour per lane, as specified in the *HOV Guidelines for Planning, Design, and Operations*. Approximately 378,000 vehicles or 805,000 people use the managed lanes on a daily basis. On average, the highest 1-hour volume is 11%, and the highest 2-hour volume is 21% of the daily managed lane traffic volume.

Due to the high volume of vehicles using the managed lane system in Los Angeles County during the morning and afternoon peak hours, some facilities may be experiencing traffic congestion and are identified in the *2014 California High-Occupancy Vehicle Lane Degradation Determination Report (September 1, 2015)* as degraded HOV facilities. The California Department of Transportation (Caltrans) headquarters prepares the annual "California High-Occupancy Vehicle Lane Degradation Determination Report" to report the performance of the high-occupancy vehicle (HOV) network in California as required by federal regulations. The *2014 California High-Occupancy Vehicle Lane Degradation Action Plan (September 1, 2015)* also prepared by Caltrans headquarters discusses the causes of degradation and identifies remediation strategies to bring degraded HOV facilities into compliance with federal regulations.

Proper signing, pavement delineation and CHP enforcement have been important factors in keeping the violation rates below the preferred rate of 10%, as specified in the *HOV Guidelines for Planning, Design, and Operations*. The average violation rate for HOV lane facilities in Los Angeles County is 2.9%. On average, vehicle occupancy during the morning and afternoon highest 1-hour HOV lane (excluding Route 10 and 110 Express lanes) volume is 2.1 persons (2.0 persons with buses excluded). For Route 10 and 110 Express lanes, the average vehicle occupancy is 2.2 persons (1.4 persons with buses excluded). An average person-trip volume of a managed lane facility is two (2) times greater than that of a general purpose lane during peak hours. (i.e., two (2) regular lanes are needed to carry an equal number of people in the managed lane). A typical managed lane facility carries 33% of the entire freeway's people in just 20% of the freeway's space [1 out of 5 lanes (4 general purpose lane + 1 managed lane)], while an adjacent single general purpose lane carries 17% of the entire freeway's people in the same 20% space.

The managed lane system in Los Angeles County has been able to sustain growth in the number of "two persons or more" carpools on freeways with HOV lanes, with the number of carpools remaining relatively constant or decreasing for those freeways without HOV lanes. At the present time, Los Angeles County managed lane system has 31 lane-miles of HOV lanes under construction, 51 lane-miles in the design phase and 80 lane-miles in the planning phase. When complete, Los Angeles and Ventura Counties will have approximately 700 lane-miles of managed lane facilities.

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## ACKNOWLEDGEMENTS

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The *2015 Managed Lane Annual Report* (formerly: HOV Annual Report) is prepared by the Office of Traffic Engineering-North, Managed Lanes Branch in District 7. The information in this report encompasses all Managed lanes in Los Angeles and Ventura Counties.

Approved by:



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Division of Operations

2/25/16

\_\_\_\_\_  
Date

Approval Recommended by:

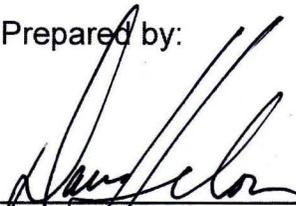


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We would like to thank and recognize the staff of the Managed Lanes Branch for the compilation of this report.

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## INTRODUCTION

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Caltrans, District 7 (Los Angeles and Ventura Counties) has one of the most extensive managed lane (HOV and Express lane) system in the country. In addition to HOV lanes, the system includes Express lanes, freeway-to-freeway managed lane direct connector ramps, direct managed lane entrance and exit ramps, HOV on-ramp bypass lanes, park and ride lots, and transit stations along certain managed lane corridors. The Los Angeles County managed lane system is part of a larger regional system that serves the five counties of the Los Angeles metropolitan area (Los Angeles, Ventura, Orange, San Bernardino, and Riverside).

The central concept of a managed lane system is to move more people rather than vehicles. When HOV lanes were introduced in Los Angeles County, the HOV system was designed to increase the person movement capacity of the freeway, be cost effective by reducing commute costs, and provide rideshare incentives such as time savings and trip reliability. The result of these goals improve air quality, conserve energy, increase mobility and efficiency of all trips, and reduce congestion.

Operating along the San Bernardino freeway corridor between downtown Los Angeles and El Monte, the I-10 HOV lane, also known as the El Monte Busway, was the first HOV facility in Los Angeles County. The easterly segment was opened in 1973 and the westerly segment joined the system a year later. Originally designed as a bus only facility, carpools with three persons or more were allowed to use the facility in 1976. In July 2000, Assembly Bill 769 was introduced, which reduced the minimum occupancy requirement on the El Monte Busway to two persons or more during non-peak periods. In February 2013, a one-year demonstration program began on the San Bernardino Freeway HOV lanes from Alameda Street to Route 605 by converting the existing HOV lanes to Express lanes and allowing vehicles not meeting the minimum occupancy requirement to pay a toll for the use of the facility. Three months prior (November 2012), the Harbor Freeway HOV lanes from Harbor Gateway Transit Center to Adams Boulevard were also converted to Express lanes. On September 21, 2014, Senate Bill 1298 (SB 1298) was approved by the Governor which extends LACMTA's authority to operate Express lanes on the I-10 (Alameda Street to Route 605) and I-110 (Adams Boulevard to Harbor Gateway Transit Center) indefinitely.

Following the introduction of the I-10 HOV lanes in Los Angeles County, construction of additional HOV lanes on various freeways continued. In June 1993, there were 58 lane-miles of HOV lanes in Los Angeles County. In the next four years of aggressive HOV lane construction, an additional 211 lane-miles of HOV lanes were added to the HOV system. During this period, the Century Freeway (Route 105) and the Harbor Freeway (Route 110) HOV lanes were completed. As of October 2015, Los Angeles County had 557 lane-miles of managed lane facilities, which includes 475 lane-miles of HOV lanes and 82 lane-miles of Express lanes (San Bernardino Freeway from Alameda Street to Route 605 and Harbor Freeway from Harbor Gateway Transit Center to Adams Boulevard).

## INTRODUCTION

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With the exception of the San Bernardino (Alameda Street to Route 605) and Harbor freeway Express lanes, all HOV lanes within Los Angeles and Ventura counties require a minimum occupancy of two or more persons. Certain clean air vehicles (displaying a clean air vehicle decal issued by the California Department of Motor Vehicles) not carrying the requisite number of passengers are allowed the use of HOV and Express lanes. All vehicles using the Express lanes must carry a FasTrak transponder.

All managed lane facilities in Los Angeles and Ventura counties are operated on a 24 hour basis except on Route 14 in Los Angeles County and Route 101 in Ventura County. With the passage of Assembly Bill 1871, a demonstration project to evaluate part-time use of the HOV lanes on Route 14 was introduced. During non-peak hours, solo drivers are allowed to use the HOV lanes on Route 14 but need to observe the designated ingress/egress locations for entering and/or exiting the HOV lanes. In Ventura and Santa Barbara counties, the first HOV lane was completed in March 2015 along a six mile stretch of the 101 freeway between Mobile Pier Road in Ventura County and Casitas Pass Road in Santa Barbara County. Similar to Route 14, solo motorists traveling on Route 101 are allowed to use the HOV lanes during non-peak hours.

The managed lane system in Los Angeles County has been able to sustain growth in the number of two persons or more carpools on freeways with HOV lanes, with the number of carpools remaining relatively constant or decreasing for those freeways without HOV lanes. Los Angeles County managed lane system serves approximately 378,000 vehicles or 805,000 people per day. When complete, Los Angeles and Ventura Counties will have approximately 700 lane-miles of managed lane facilities.

## CHANGES IN 2014 - 2015

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### The following is a list of new HOV facilities which opened in the year 2014-2015:

- Completion and opening of 9.7 lane-miles of HOV lane on the northbound direction of the San Diego Freeway (Route 405) from National Boulevard/Route 10 to Ventura Blvd/Route 101. (Opening date: May 23, 2014).
- Completion and opening of 6.9 lane-miles of HOV lane on the Ventura Freeway (Route 101) from Mobile Pier Rd to Santa Barbara County line. (Opening date: March 23, 2015).
- Completion and opening of 16.0 lane-miles of HOV lane (includes Route 5/170 HOV lane direct connector) on the Golden State Freeway (Route 5) from Hollywood Way to Route 118. (Opening date: June 11, 2015).

### The following is a list of HOV facilities under construction:

- Santa Ana Freeway (Route 5), 1.4 lane-miles of carpool lanes from Coyote Creek to Marquardt Avenue. Expected to open in 2016.
- Golden State Freeway (Route 5), 4.0 lane-miles of carpool lanes from Ventura Freeway (Route 134) to Magnolia Boulevard. Expected to open in 2017.
- Santa Ana Freeway (Route 5), 1.2 lane-miles of carpool lanes from Marquardt Avenue to Shoemaker Avenue. Expected to open in 2017.
- Santa Ana Freeway (Route 5), 2.6 lane-miles of carpool lanes from Shoemaker Avenue to Silverbow Avenue. Expected to open in 2017.
- Santa Ana Freeway (Route 5), 3.6 lane-miles of carpool lanes from Silverbow Avenue to Day Road. Expected to open in 2018.
- Santa Ana Freeway (Route 5), 2.0 lane-miles of carpool lanes from Day Road to San Gabriel River Freeway (Route 605). Expected to open in 2019.
- San Bernardino Freeway (Route 10), 9.4 lane-miles of carpool lanes from Puente Avenue to Citrus Street. Expected to open in 2019.
- Golden State Freeway (Route 5), 6.5 lane-miles of carpool lanes from to Magnolia Boulevard to Hollywood Way. Expected to open in 2019.

### Legislative Bill:

- **Senate Bill 853 (SB 853)** was approved by the Governor on June 20, 2014. This bill increases the green clean air vehicle decals issued by the California Department of Motor Vehicles (DMV) by an additional 15,000 decals effective July 1, 2014. A total of 55,000 green clear air vehicle decals will be issued by the DMV.
- **Assembly Bill 2013 (AB 2013)** was approved by the Governor on September 21, 2014. This bill increases the green clean air vehicle decals issued by the California Department of Motor Vehicles (DMV) by an additional 15,000 decals effective January 1, 2015. A total of 70,000 green clear air vehicle decals will be issued by the DMV.
- **Senate Bill 1298 (SB 1298)** was approved by the Governor on September 21, 2014. This bill extends LACMTA's authority to operate Express lanes on the I-10 (Alameda Street to Route 605) and I-110 (Adams Boulevard to Harbor Gateway Transit Center) indefinitely. The *ExpressLanes* began as a one year demonstration project on the I-10 and I-110 freeways in Los Angeles County. Tolling operations began on the I-110 Express lanes on November 10, 2012 and on I-10 Express lanes on February 23, 2013.
- **Assembly Bill 1721 (AB 1721)** was approved by the Governor on September 21, 2014. This bill allows certain clean air vehicles (displaying a clean air vehicle decal issued by the DMV) not carrying the requisite number of passengers the use of HOV lanes and toll-free or reduced-rate passage in Express lanes.  
(Note: All vehicles, including clean air vehicles, are required to have a FasTrak transponder while traveling on ExpressLanes. Visit [metroexpresslanes.net/en/faq/driving.shtml](http://metroexpresslanes.net/en/faq/driving.shtml) website for additional information).
- **Assembly Bill 95 (AB 95)** was approved by the Governor on June 24, 2015. This bill increases the green clean air vehicle decals issued by the California Department of Motor Vehicles (DMV) by an additional 15,000 decals effective immediately. A total of 85,000 green clear air vehicle decals will be issued by the DMV.

**California Department of Transportation (Caltrans) - District 7  
High Occupancy Vehicle (HOV) System  
STATUS OF HOV PROJECTS**

ROUTE	E.A.	FREEWAY CENTERLINE MILES				OPENING DATE
		EXISTING	CONSTRUCTION	DESIGN	PLANNING	MM/DD/YY (MM/YY)
LA-10 17.0/27.9 Alameda to Baldwin Ave		11.0				01/1973
LA-91 6.6/R16.7 Rte 110 to Rte 605	115864	10.1				6/10/85 EB; 03/11/93 WB
LA-405 13.0/R20.7 Rte 110 to 120th St.	106734	7.7				04/08/93
LA-405 0.0/2.2 Orange Co Line to Bellflower Bl (SB Only)	005854	---				10/2/93(6/97)
LA-105 R1.8/R18.1 Rte 405 to Rte 605		16.3				10/14/93
LA-210 R25.1/R43.8 Rte 134 to Sunflower Ave	129104	19.0				12/16/93
LA-405 R20.7/22.2 120th St. to Century Bl	105 CC0	1.5				01/1994
LA-91 R16.7/R20.7 Rte 605 to Ora. Co Line	115834	4.0				11/1994
LA-134 R0.3/R5.3R Rte 101/170 to Rte 5	120284	5.0				10/02/95
LA-170 R14.5/R20.3 Rte 101/134 to Rte 5	120274	5.8				02/11/96
LA-134 R5.3R/R9.7 Rte 5 to Rte 2	107734	4.4				03/12/96
LA-210 HOV Drop Ramp at Fair Oaks Ave	019594	0.2				05/30/96
LA-110 9.8/20.7 Rte 91 to Adams Bl		10.9				6/26/96(7/97)
LA-110 Rte 110/105 HOV Direct Connector		1.8				6/26/96(7/97)
LA-134 R9.7/R13.3 Rte 2 to Rte 210	118504	3.6				08/30/96
LA-405 38.6/48.6 Rte 101 to Rte 5	120334	10.0				10/22/96
LA-10 27.9/30.7 Baldwin Ave to Rte 605	008061	---				Median Barrier
LA-10 30.7/32.9 Rte 605 to Puente Ave	005881	---				Median Barrier
LA-118 R0.0/R10.8 Ven Co Line to Rte 5	115054	11.3				03/07/97
LA-605 R3.9/R10.8 South St to Telegraph Rd	119394	6.9				04/02/97
LA-57 R0.0/R4.5 Orange Co Line to Rte 60	115034	4.5				08/22/97
LA-210 R43.8/R46.6 Sunflower Ave to Foothill Bl	119981	2.8				09/08/97
LA-405 0.0/7.9 Orange Co Line to Rte 710	116874	7.7				02/12/98
LA-605 R10.8/20.7 Telegraph Rd to Rte 10	119944	9.9				04/03/98
LA-14 R27.0/R33.7 SF Rd. to Sand Cyn Rd	116204	6.7				05/05/98
LA-405 7.9/13.0 Rte 710 to Rte 110	115174	5.1				10/08/98
LA-60 R22.7/R25.4 Brea Cyn Rd to Rte 57 N	119234	2.7				02/02/99
LA-60 R25.4/R30.5 Rte 57 N to SBD Co Line	115044	5.1				02/02/99
LA-14 33.7/44.0 Sand Cyn Rd to Escondido	125604	10.3				09/23/99
LA-605 R0.0/R3.9 Ora. Co Line to South St.	1347U4	3.9				03/2001
LA-405 31.9/38.6 Waterford to Rte 101/Ventura Bl (SB Only)	1667U4	6.7				01/08/02
LA-14 44.0/R54.5 Escondido to Pearl Blossom	117104	10.5				07/29/02
LA-14 R25.3/R27.0 Rte 5 to S.F. Road	119844	1.7				08/03/02
LA-210 R46.6/R52.1 Foothill Bl to SBD Co Line	105014	5.6				11/24/02
LA-10 42.4/48.2 Rte 57 to SBD Co Line	122404	5.9				11/13/03
LA-10 27.9/30.7 Baldwin Ave to Rte 605	1069U4	2.8				02/04/05
LA-405 22.2/26.4 Century Bl to Rte 90	1198U4	4.2				05/23/06
LA-14 R54.5R/R60.7 Pearl Blossom to Avenue P-8	125204	6.2				08/18/06
LA-405 38.6/40.2 Ventura Bl to Burbank Bl (NB Only)	199624	---				10/11/06
LA-57 Rte 57/60 HOV Direct Connector	1257U4	0.9				02/23/07
LA-405 30.7/31.9 Santa Monica Bl to Waterford (SB Only)	195904	1.2				08/30/07
LA-5 39.4/R45.3 Rte 118 to Rte 14	122004	5.7				04/04/08
LA-405 29.5/30.7 Rte 10 to Santa Monica Bl (SB Only)	195904	1.2				11/07/09
LA-405 26.4/29.5 Rte 90 to Rte 10	1178U4	3.1				11/07/09 SB; 11/14/09 NB
LA-60 11.8/R22.7 Rte 605 to Brea Cyn Rd	1294V4	10.9				09/27/10 EB; 10/14/10 WB
LA-5 Rte 5/14 HOV Direct Connector	168004	0.8				12/23/12
LA-10 30.7/32.8 Rte 605 to 0.5 mi. west of Puente Ave	117074	2.1				12/13/13 EB; 12/19/13 WB
LA-405 29.5/38.6 Rte 10 to Rte 101 (NB Only)	120304	---				05/23/14
VEN-101 R39.9/R43.6 Mobile Pier Rd to Santa Barbara Co Line	260704	3.6				03/23/15
LA-5 32.3/36.0 Hollywood Way to Rte 170	1218V4	3.7				06/11/15
LA-5 36.0/39.4 Rte 170 to Rte 118	1219U4	3.4				06/11/15
LA-5 Rte 5/170 HOV Direct Connector	1219U4	0.4				06/11/15
LA-5 1.4/2.1 Coyote Creek to Marquardt Ave	215913		0.7			06/16
LA-5 26.6/29.0 Rte 134 to Magnolia Blvd	121843		2.4			02/17
LA-5 2.1/2.7 Marquardt Ave to Shoemaker Ave	2159C3		0.6			12/17
LA-5 4.0/5.8 Silverbow Ave to Day Rd	215943		1.8			05/18
LA-5 2.7/4.0 Shoemaker Ave to Silverbow Ave	215933		1.3			08/18
LA-5 29.0/32.3 Magnolia Blvd to Hollywood Way	1218W3		3.3			05/19
LA-10 32.8/37.5 0.5 mi. west of Puente Ave to Citrus St	1170U3		4.7			04/19
LA-5 5.8/6.8 Day Rd to Rte 605	215953		1.0			09/19
LA-5 0.0/1.4 Orange Co Line to Coyote Creek	215921			1.4		02/20
LA-71 R0.7/R4.7 Rte 10 to SBD Co Line (Express-Freeway Conversion)	210601			5.4		11/21
LA-10 37.5/42.4 Citrus St to Rte 57	1193U1			4.9		12/21
LA-5 R45.3/59.0 Rte 14 to Parker Rd	2332E1			13.7		03/22
LA-5 13.4/14.6 Eastern Ave to Rte 710	2159E0				1.2	05/25
LA-5 6.8/13.4 Rte 605 to Eastern Ave	2159F0				6.6	12/27
LA-14 R60.7/R65.7 Avenue P-8 to Avenue L					5.0	
LA-60 Rte 60/605 HOV Direct Connector	23560K				1.0	Non-programmed
LA-10 Rte 10/605 HOV Direct Connector	23570K				1.0	Non-programmed
LA-5 Rte 5/405 HOV Direct Connector	176100				1.0	Non-programmed
LA-5 22.4/26.7 Rte 2 to Rte 134	12120K				4.3	Non-programmed
LA-5 18.4/22.4 Rte 10 to Rte 2	12160K				4.0	Non-programmed
LA-10 R5.5/14.8 Rte 405 to Rte 110	12340K				9.3	Non-programmed
LA-710 26.5/R32.7 Rte 10 to Rte 210	020090				2.7	
<b>COLOR MAP SUBTOTAL - INTEGRATED PLAN</b>		<b>268.8</b>	<b>15.8</b>	<b>25.4</b>	<b>36.1</b>	<b>346.10</b>

## Managed Lane Volumes

Route	Location	Post Mile (CA)	Direction	Count Date	Count Period (1-Hour)	1-Hour Volume (vehicles)			Count Period (2-Hour)	2-Hour Volume (vehicles)			Occupancy Requirement	Violation Rate (1-Hour)	Managed Lane ADT# (vehicles)	Managed Lane Corridor ADT (vehicles)
						All **	2+ ***	3+ ***		All **	2+ ***	3+ ***				
5	Edgecliff Ave	40.88	S/B	6/18/2015	6:30-7:30 A.M.	853	788	151	6:30-8:30 A.M.	1650	1516	289	2+	7.62%	8112	16790
			N/B	6/25/2015	4:15-5:15 P.M.	1117	1106	199	4:00-6:00 P.M.	2194	2175	384		0.98%	8678	
10	Warwick Rd*	21.86	W/B	6/3/2015	6:30-7:30 A.M.	2487	895	511	6:30-8:30 A.M.	4832	1703	985	3+ occ. (Peak Hrs) - No Toll 2+ occ. (Off Peak Hrs) - No Toll 2+ occ. (Peak Hrs) - Pay Toll Single occ. (All Hrs) - Pay Toll	-	16380	-----
			E/B	4/28/2015	4:45-5:45 P.M.	1234	640	456	4:00-6:00 P.M.	2412	1200	873		-	10219	
	W/B	4/29/2015	6:30-7:30 A.M.	3174	835	308	6:30-8:30 A.M.	6298	1454	604	-	9418				
	E/B	4/29/2015	4:30-5:30 P.M.	2320	591	311	4:00-6:00 P.M.	4421	1090	552	-	9318				
14	Golden Valley Rd	R29.68	S/B	4/22/2015	6:30-7:30 A.M.	1261	1235	117	6:30-8:30 A.M.	2180	2145	188	2+ (1+ off peak)	2.06%	11803	23519
			N/B	4/22/2015	4:15-5:15 P.M.	1416	1402	204	4:00-6:00 P.M.	2791	2766	371		0.99%	11716	
57	Pathfinder Rd	3.16	S/B	6/17/2015	7:00-8:00 A.M.	1312	1311	219	6:30-8:30 A.M.	2520	2517	414	2+	0.08%	14438	27065
			N/B	5/5/2015	3:45-4:45 P.M.	1319	1231	236	4:00-6:00 P.M.	2653	2456	480		6.67%	12627	
60	Barford Ave	16.54	W/B	4/16/2015	6:30-7:30 A.M.	1262	1229	200	6:30-8:30 A.M.	2309	2245	378	2+	2.61%	14829	-----
			E/B	4/16/2015	4:00-5:00 P.M.	1182	1174	200	4:00-6:00 P.M.	2329	2315	423		0.68%	14034	
	W/B	4/15/2015	7:30-8:30 A.M.	1412	1231	108	6:30-8:30 A.M.	2752	2441	231	12.82%	14164				
	E/B	4/15/2015	4:45-5:45 P.M.	1339	1271	127	4:00-6:00 P.M.	2576	2464	280	5.08%	13442				
91	Wilmington Ave	R9.16	W/B	5/21/2015	6:30-7:30 A.M.	1536	1431	222	6:30-8:30 A.M.	2866	2675	461	2+	6.84%	9748	-----
			E/B	5/21/2015	3:30-4:30 P.M.	1414	1337	264	4:00-6:00 P.M.	2766	2648	559		5.45%	10381	
	W/B	4/14/2015	6:30-7:30 A.M.	1249	1239	299	6:30-8:30 A.M.	2486	2469	589	0.80%	17407				
	E/B	4/14/2015	4:15-5:15 P.M.	1416	1401	297	4:00-6:00 P.M.	2743	2707	530	1.06%	14244				
105	Long Beach Blvd	R11.51	W/B	4/30/2015	7:00-8:00 A.M.	1332	1269	246	6:30-8:30 A.M.	2585	2447	495	2+	4.73%	17525	32817
			E/B	4/30/2015	3:45-4:45 P.M.	1328	1270	324	4:00-6:00 P.M.	2651	2536	628		4.37%	15292	
	W/B	5/28/2015	6:30-7:30 A.M.	1168	1091	144	6:30-8:30 A.M.	2204	2060	368	6.59%	14290				
	E/B	5/28/2015	4:45-5:45 P.M.	1323	1302	340	4:00-6:00 P.M.	2561	2505	592	1.59%	15082				
110	Slauson Ave *	17.98	N/B	6/16/2015	6:30-7:30 A.M.	3248	1051	357	6:30-8:30A.M.	6127	2045	710	2+ occ. (All Hrs) - No Toll Single occ. (All Hrs) - Pay Toll	-	32903	65818
			S/B	6/16/2015	4:30-5:30 P.M.	3565	1263	285	4:00-6:00 P.M.	6797	2416	584		-	32915	
118	Porter Ranch Dr	R3.86	W/B	5/13/2015	6:45-7:45 A.M.	733	729	117	6:30-8:30 A.M.	1309	1303	202	2+	0.55%	4863	-----
			E/B	6/23/2015	4:45-5:45 P.M.	1162	1102	149	4:00-6:00 P.M.	2071	1985	280		5.16%	5359	
	W/B	6/11/2015	6:30-7:30 A.M.	1160	1158	110	6:30-8:30 A.M.	2081	2078	210	0.17%	6025				
	E/B	6/11/2015	4:15-5:15 P.M.	1475	1468	183	4:00-6:00 P.M.	2910	2896	320	0.47%	6528				
134	Pass Ave	1.82	W/B	5/6/2015	6:45-7:45 A.M.	789	773	75	6:30-8:30A.M.	1430	1406	158	2+	2.03%	8586	-----
			W/B	6/17/2015	5:00-6:00 P.M.	933	910	164	4:00-6:00 P.M.	1667	1636	270		2.47%	8523#	
	W/B	5/7/2015	7:30-8:30 A.M.	1010	957	154	6:30-8:30 A.M.	1678	1588	280	5.25%	10514				
	E/B	5/7/2015	5:00-6:00 P.M.	1119	1079	171	4:00-6:00 P.M.	2102	2017	302	3.57%	9801				
170	Sherman Way	R18.27	S/B	5/20/2015	6:30-7:30 A.M.	1059	1049	143	6:30-8:30 A.M.	2052	2010	297	2+	0.94%	8046	12503
			N/B	7/8/2015	4:45-5:45 P.M.	826	823	141	4:00-6:00 P.M.	1541	1531	256		0.36%	4457	
210	Wilson Ave	R26.57	W/B	5/19/2015	7:15-8:15 A.M.	1050	972	167	6:30-8:30 A.M.	1909	1775	305	2+	7.43%	10355	23268
			E/B	5/19/2015	3:45-4:45 P.M.	1375	1351	547	4:00-6:00 P.M.	2542	2482	467		1.75%	12913	
	W/B	5/27/2015	6:45-7:45 A.M.	1405	1396	256	6:30-8:30 A.M.	2684	2666	505	0.64%	16481				
	E/B	5/27/2015	4:00-5:00 P.M.	1586	1580	321	4:00-6:00 P.M.	3139	3128	628	0.38%	16387				
405	Temple Ave	4.33	N/B	6/4/2015	7:30-8:30 A.M.	1649	1640	418	6:30-8:30 A.M.	3190	3166	802	2+	0.55%	18485	-----
			S/B	6/4/2015	4:00-5:00 P.M.	1608	1589	385	4:00-6:00 P.M.	3135	3102	783		1.18%	16355	
	N/B	5/14/2015	6:30-7:30 A.M.	1208	1197	288	6:30-8:30 A.M.	2524	2504	615	0.91%	16478				
	S/B	5/14/2015	4:45-5:45 P.M.	1235	1225	298	4:00-6:00 P.M.	2373	2356	547	0.81%	15422				
	N/B	4/21/2015	6:30-7:30 A.M.	1649	1562	275	6:30-8:30 A.M.	3078	2916	622	5.28%	18792				
	S/B	4/21/2015	3:30-4:30 P.M.	1621	1567	332	4:00-6:00 P.M.	3090	3010	664	3.33%	16676				
	S/B	6/23/2015	6:30-7:30 A.M.	906	876	196	6:30-8:30 A.M.	1759	1694	427	3.31%	9891				
	N/B	4/23/2015	4:00-5:00 P.M.	1441	1370	245	4:00-6:00 P.M.	2792	2657	526	4.93%	12360				
605	Beverly Blvd	R14.41	S/B	6/25/2015	6:30-7:30 A.M.	1362	1351	233	6:30-8:30 A.M.	2682	2665	439	2+	0.81%	17152	33285
			N/B	6/2/2015	4:00-5:00 P.M.	1523	1517	317	4:00-6:00 P.M.	2990	2979	598		0.39%	16133	

Average vehicle occupancy during the morning/afternoon highest 1-hour HOV lane (excludes Route 10 and 110 Express lanes) volume is 2.1 persons (2.0 persons with buses excluded)

Average vehicle occupancy during the morning/afternoon highest 1-hour Express lane volume is 2.2 persons (1.4 persons with buses excluded)

1-hour and 2-hour totals are based on the highest volume during the following peak period counts: 6:30am - 8:30am and 3:30pm - 6:00pm.

\* Express Lane facility [2 lanes in each dir. (except EB Warwick Rd-single lane)]. Existing HOV lanes on Route 10 (Alameda St to Rte 605) and 110 (Harbor Gateway Transit Center to Adams Blvd) were converted to Express Lanes on 2/23/2013 and 11/10/2012, respectively.

\*\* Volume for Carpools, vanpools, buses, motorcycles, CNG/EV and single occupant vehicles

\*\*\* Volume for Carpools, vanpools, buses, motorcycles and CNG/EV

# Source: Performance Measurement System (PeMS). ADT data for April 14th - May 14th, 2015 (Tuesday - Thursday) in the vicinity of the count location, if available

## ADT data for eastbound Route 134 near Pass Ave

<b>Total Vehicles / Day</b>	<b>377826</b>
<b>Total People / Day</b>	<b>804823</b>

## Number of Carpools on Freeways (AM Peak 2-Hour)

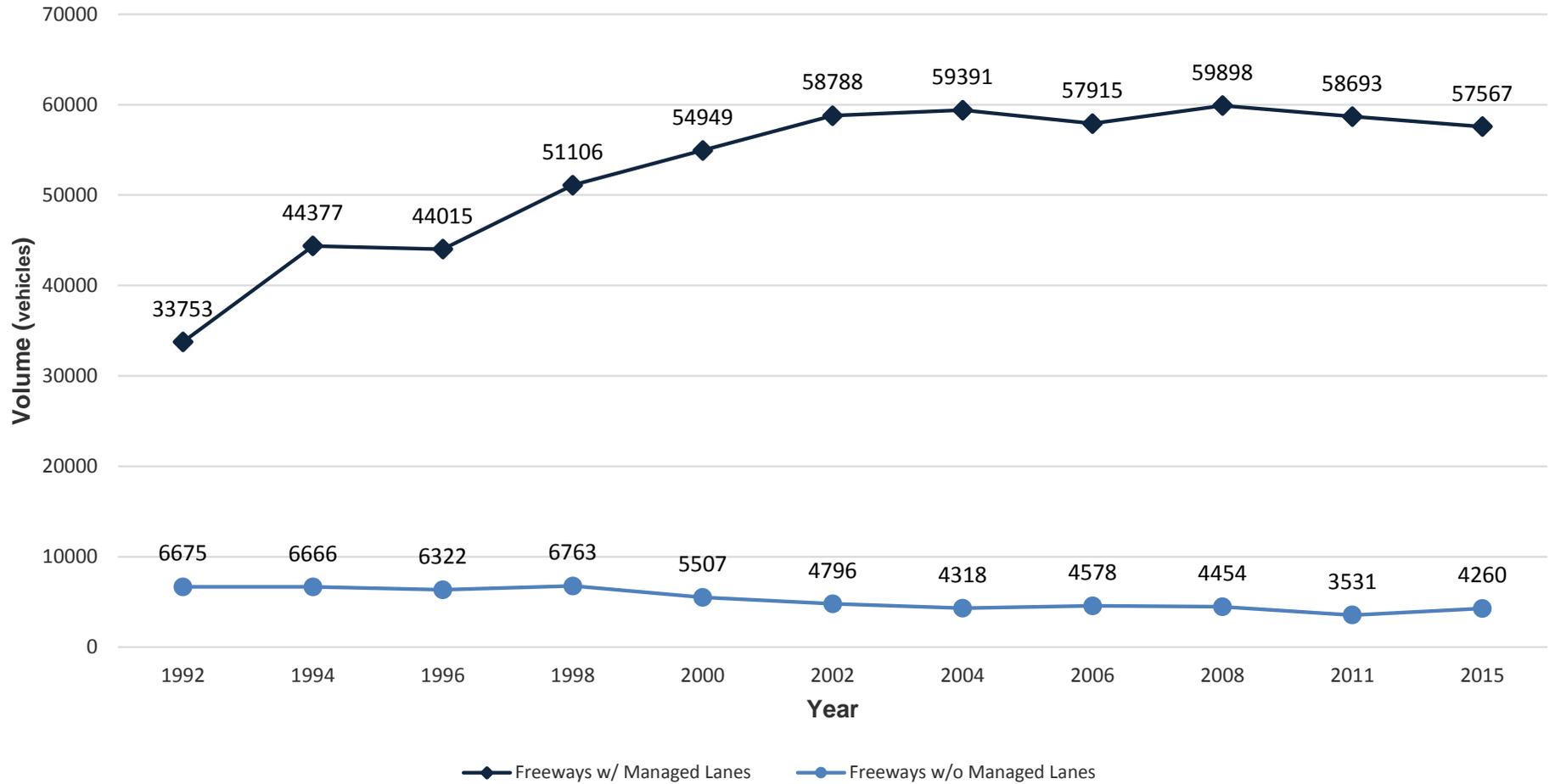
Route	Total Length (Lane-Miles)	Opening Date (Initial Segment)	Location	AM Peak 2-Hour Number of Carpools in Managed Lanes (vehicles)											AM Peak 2-Hour Total Number of Carpools on Freeway (vehicles)													
				Base Year 1992	1994	1996	1998	2000	2002	2004	2006	2008	2011	2015	Base Year 1992	1994	1996	1998	2000	2002	2004	2006	2008	2011	2015			
				Freeways w/ Managed Lanes																								
5	26.6	Apr-08	Edgecliff Ave	-	-	-	-	-	-	-	-	-	1635	1555	1462	-	-	-	-	-	-	-	-	-	-	2138	1874	1667
10 *	43.5 (Express Lane)	Jan-73	Warwick Rd	2312	1849	1139	1475	1683	1762	2155	1922	1669	1534	1594	2362	2294	1219	1550	1768	1817	2275	2290	1749	1609	3438			
	15.4 (HOV Lane)		Jackson Ave	1722	1722	1879	1430	1870	2074	2284	2366	2365	2170	1306	1812	1812	1969	1476	1895	2119	2379	2466	2395	2190	2454			
14	72.2	May-98	Golden Valley Rd	-	-	-	1491	2099	2184	1995	2111	2270	2335	2089	1290	1834	1174	1971	2718	2503	2370	2471	2964	2931	2554			
57	10.8	Aug-97	Pathfinder Rd	-	-	-	1615	2006	2168	2216	1939	2386	2458	2419	1420	1660	1315	2360	2271	2478	2641	2394	2981	2738	3144			
60	35.3	Feb-99	Phillips Ranch Rd	-	-	-	-	2548	2657	2373	2232	2858	2860	2362	945	945	945	1121	2843	3262	2988	2902	3793	3920	2807			
91	26.4	Jun-85	Wilmington Ave	-	1120	1952	2209	2679	2361	2431	2466	2466	2805	2603	2185	2875	2777	3079	3599	3191	2936	3031	3031	3370	3248			
			Bloomfield	-	-	1449	1622	1838	2654	2654	2353	2506	2106	2367	2105	1580	2504	2557	2663	3184	3184	2968	3061	2666	3132			
105	32	Oct-93	Lakewood Blvd	-	1674	2232	2134	2402	2370	2305	2202	2220	2320	1948	-	2642	2787	2629	2942	2843	2718	2645	2858	2748	2358			
			Long Beach Blvd	-	2444	2679	2908	2893	2931	2789	2497	2695	2634	2306	-	3010	3395	3242	3294	3246	2984	2767	3055	2799	2587			
110 *	38.8 (Express Lane)	Jun-96	Slauson Ave	-	-	3084	5199	6427	5699	6330	5835	5273	5476	1942	2585	3110	4144	5754	6992	6334	6880	6080	5935	6051	2842			
118	21.7	Mar-97	Reseda Blvd	-	-	-	1004	1197	1905	2222	2060	1682	1851	2030	1519	1391	1220	1909	1597	3235	3207	3115	3626	2883	3591			
			Porter Ranch Dr	-	-	-	946	793	1068	1342	1310	1131	1006	1261	1264	1628	1283	1836	2013	1813	2077	2100	2016	1636	2206			
134	24	Mar-96	Jackson St	-	-	810	1260	1146	1356	1376	1451	1295	1360	1550	2165	2320	2540	3075	1961	2571	1986	2801	2495	1855	2458			
		Oct-95	Pass Ave	-	-	1016	1017	1071	1572	1473	1422	1314	1458	1374	1760	2195	1721	1722	2041	2457	2258	2042	2279	2458	2027			
170	11.7	Feb-96	Sherman Way	-	-	1102	1334	1503	1415	1755	1793	1960	1770	1974	1650	2150	2137	2454	2303	3210	3560	3473	2900	2790	3174			
210	55	Dec-93	Second St	-	2338	2721	2775	2608	2648	2789	2771	2598	2687	2527	2215	3833	3801	3460	3158	3058	3289	3301	3308	3447	3272			
			Wilson Ave	-	2186	1807	1807	1926	1860	2040	1978	1720	1757	1715	3390	3392	3667	3667	2958	2952	2964	2770	2980	2465	2661			
405	96.1	Oct-96	Burbank Blvd	-	-	1529	1851	1576	2361	2136	2234	1949	2058	1585	1495	2115	2084	2581	1901	3291	2931	2704	2709	2558	2091			
		Apr-93	Normandie Ave	-	1021	1578	2034	2638	2616	2267	2455	2186	2635	2470	2311	2311	2238	2294	3073	2676	2882	2765	2856	3050	2858			
605	40.6	Apr-97	Beverly Blvd	-	-	-	949	2369	2323	2422	2395	2352	1940	2563	1280	1280	1095	2369	2959	2548	2882	2830	2907	2655	2998			
<b>Total</b>				4034	14354	24977	35060	43272	45984	47354	45792	44895	46775	41447	33753	44377	44015	51106	54949	58788	59391	57915	59898	58693	57567			
<b>Percent Change From Base Year</b>				-	31%	30%	51%	63%	74%	76%	72%	77%	74%	71%														
Freeways w/o Managed Lanes																												
2			Trentway												2070	1230	1230	1670	1785	1425	1475	1210	1200	730	985			
101			Encino												2140	3036	2592	2508	2262	2496	1518	1938	1974	1476	1882			
710			Gage												2465	2400	2500	2585	1460	875	1325	1430	1280	1325	1393			
<b>Total</b>															6675	6666	6322	6763	5507	4796	4318	4578	4454	3531	4260			
<b>Percent Change From Base Year</b>				-	0%	-5%	1%	-17%	-28%	-35%	-31%	-33%	-47%	-36%														

Note: (1) For statistical purposes, if the data of the year is not available and the facility was open at the time, the data for the following year is used.

(2) Existing HOV lanes on Route 10 (Alameda St to Rte 605) and 110 (Harbor Gateway Transit Center to Adams Blvd) were converted to Express Lanes on 2/23/2013 and 11/10/2012, respectively.

\* Volume for Carpools, Vanpools, Buses and CNG/EV/Hybrid. All other volumes are Carpools, Vanpools and CNG/EV/Hybrid.

### Total Number of Carpools on Freeways (AM Peak 2-Hour)



## Number of Carpools on Freeways (PM Peak 2-Hour)

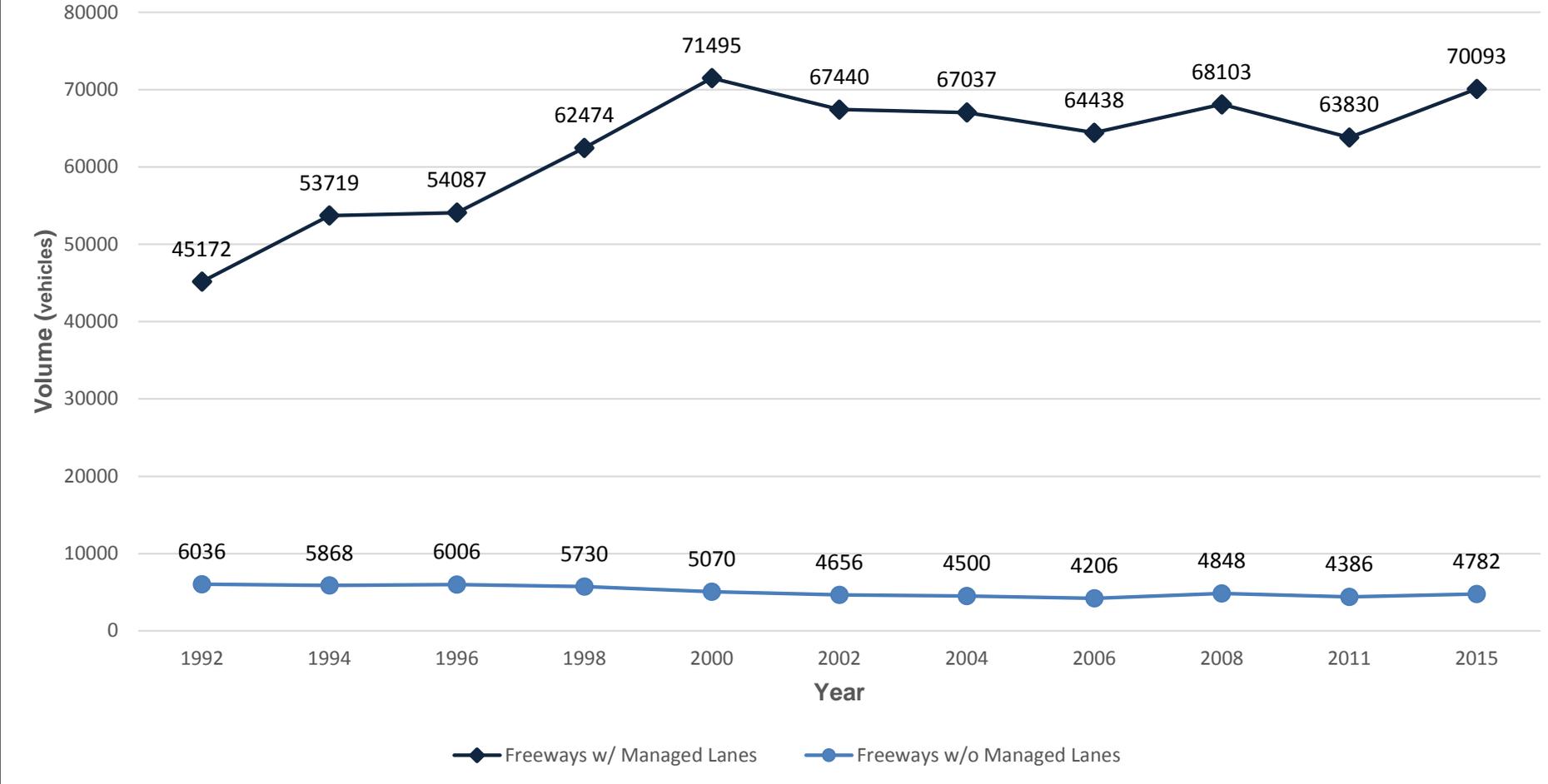
Route	Total Length (Lane-Miles)	Opening Date (Initial Segment)	Location	PM Peak 2-Hour Number of Carpools in Managed Lanes (vehicles)											PM Peak 2-Hour Total Number of Carpools on Freeway (vehicles)										
				Base Year 1992	1994	1996	1998	2000	2002	2004	2006	2008	2011	2015	Base Year 1992	1994	1996	1998	2000	2002	2004	2006	2008	2011	2015
				Freeways w/ Managed Lanes																					
5	26.6	Apr-08	Edgecliff Ave	-	-	-	-	-	-	-	-	1017	943	2098	-	-	-	-	-	-	-	-	1621	1614	3098
10 *	43.5 (Express Lane) 15.4 (HOV Lane)	Jan-73	Warwick Rd	1956	1789	1858	1878	2194	2102	2596	2343	2280	1245	1139	2550	2377	2113	2100	2739	2902	3236	3103	2920	1750	3214
			Jackson Ave	<u>1972</u>	<u>1972</u>	1709	1575	1926	2290	1686	1867	2284	2114	961	<u>2322</u>	<u>2322</u>	1834	1740	2476	2960	2266	2662	2960	2939	2630
14	72.2	May-98	Golden Valley Rd	-	-	-	1828	2047	2080	2336	2225	2127	2027	2691	1768	1460	1834	3088	3292	2568	2775	2654	2885	2623	3327
57	10.8	Aug-97	Pathfinder Rd	-	-	-	1590	2397	2196	2626	1863	2251	2394	2355	2305	2505	1475	2815	3427	3151	2866	2925	2926	2799	2725
60	35.3	Feb-99	Phillips Ranch Rd	-	-	-	-	2434	2352	2126	1654	2273	2610	2372	<u>1369</u>	<u>1369</u>	1369	1901	3509	3637	2871	2564	3448	3765	3257
91	26.4	Jun-85	Wilmington Ave	2683	1125	2657	2378	2669	2242	1993	<u>2104</u>	<u>2104</u>	3033	2554	4653	2975	2881	3828	3754	3392	3068	<u>2879</u>	<u>2879</u>	3373	3392
			Artesia	-	-	1926	1432	2617	<u>2904</u>	<u>2904</u>	2008	2720	2763	2603	2655	2110	3821	3252	3837	<u>3989</u>	<u>3989</u>	2723	3850	3493	3398
105	32	Oct-93	Lakewood Blvd	-	1757	2105	2055	2127	2320	2630	2343	2147	2315	2355	-	3145	2776	3053	3031	3059	3421	3101	2908	2919	3259
			Long Beach Blvd	-	2176	2637	2517	2543	2555	2521	2453	2497	2423	2384	-	3541	3425	3297	3402	3151	3114	3188	3210	3038	3109
110 *	38.8 (Express Lane)	Jun-96	Slauson Ave	-	-	2788	3904	4997	4677	5285	5064	4257	4546	2325	<u>3270</u>	<u>3270</u>	4708	5544	6332	5902	6515	6379	5128	5611	4831
118	21.7	Mar-97	Reseda Blvd	-	-	-	779	1478	1761	2314	2174	2071	1756	2820	<u>1609</u>	<u>1609</u>	1811	2054	3218	3166	3139	3679	3291	3001	4081
			Porter Ranch Dr	-	-	-	751	1315	1818	1950	1966	1317	1427	1914	1984	2126	1789	2301	3090	3233	2800	2876	2917	2247	2637
134	24	Mar-96	Jackson St	-	-	1200	1547	1931	1553	1785	1653	1648	1508	1969	3020	2420	2555	3717	3046	3093	3005	2718	2848	2698	3084
		Oct-95	Pass Ave	-	-	1068	1075	1411	1337	1416	1294	1226	1177	1590	1955	2445	2488	2320	2716	2287	2446	2639	3051	2602	2893
170	11.7	Feb-96	Sherman Way	-	-	868	1007	998	978	1697	1217	1218	915	1477	1915	2025	2023	2437	2038	1963	2572	2102	2013	2110	2913
210	55	Dec-93	Second St	-	2451	2422	2691	2824	2646	3194	2924	3026	2482	2986	3150	4686	4002	3906	4539	3840	4044	3854	4226	3422	3910
			Wilson Ave	-	2209	2524	2603	3245	2450	2715	2536	2278	2130	2390	3432	4759	4816	5273	5459	4406	4137	3616	4174	3102	4144
405	96.1	Oct-96	Burbank Blvd	-	-	1141	1558	2306	2271	2259	2261	2830	2714	2542	2705	3215	2856	3568	3746	3096	3364	4076	3975	3589	3648
		Apr-93	Normandie Ave	-	<u>1536</u>	<u>1536</u>	2049	2717	2783	2283	2194	2596	2618	2302	<u>2205</u>	<u>2205</u>	2816	3559	4087	3998	3018	3149	3671	3518	3033
605	40.6	Apr-97	Beverly Blvd	-	-	-	1286	3092	2957	3496	2676	2517	3157	2855	2305	3155	2695	2721	3757	3647	4391	3551	3202	3617	3510
<b>Total</b>				6611	15015	26439	34503	47268	46272	49812	44819	46684	46297	46682	45172	53719	54087	62474	71495	67440	67037	64438	68103	63830	70093
<b>Percent Change From Base Year</b>															-	19%	20%	38%	58%	49%	48%	43%	51%	41%	55%
Freeways w/o Managed Lanes																									
2			Trentway												<u>2052</u>	<u>2052</u>	1884	2016	1398	1950	1308	1260	1548	1350	1882
101			Encino												3984	3816	4122	3714	3672	2706	3192	2946	3300	3036	2900
710			Gage												-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>															6036	5868	6006	5730	5070	4656	4500	4206	4848	4386	4782
<b>Percent Change From Base Year</b>															-	-3%	0%	-5%	-16%	-23%	-25%	-30%	-20%	-27%	-21%

Note: (1) For statistical purposes, if the data of the year is not available and the facility was open at the time, the data for the following year is used.

(2) Existing HOV lanes on Route 10 (Alameda St to Rte 605) and 110 (Harbor Gateway Transit Center to Adams Blvd) were converted to Express Lanes on 2/23/2013 and 11/10/2012, respectively.

\* Volume for Carpools, Vanpools, Buses and CNG/EV/Hybrid. All other volumes are Carpools, Vanpools and CNG/EV/Hybrid. Violators excluded.

### Total Number of Carpools on Freeways (PM Peak 2-Hour)



# Clean Air Vehicle (CAV) Decals - High Occupancy Vehicle Lane Usage

A vehicle that meets specified emissions standards may be issued CAV decals that allow the vehicle to be operated by a single occupant in the High Occupancy Vehicle (carpool or diamond) lanes of California's freeways. See California Vehicle Code (CVC) §§5205.5 and 21655.9.

For more information or to find out if your vehicle qualifies, visit the California Air Resources Board's (ARB) website: [www.arb.ca.gov](http://www.arb.ca.gov)

## White Clean Air Vehicle Decals



- A vehicle that meets California's super ultra-low emission vehicle (SULEV) standard for exhaust emissions **and** the federal inherently low-emission vehicle (ILEV) evaporative emission standard. This includes certain zero-emission vehicles (ZEVs).
- A 2004 model-year or older vehicle that meets the California ultra-low emission vehicle (ULEV) standard for exhaust emissions and the federal ILEV standard.
- Certain Advanced Technology Partial Zero-Emission Vehicles (AT PZEV).

## Green Clean Air Vehicle Decals



- Green CAV decals will be issued to the first 85,000 applicants that purchase or lease cars meeting California's Enhanced Advanced Technology Partial Zero Emission Vehicle (Enhanced AT PZEV) or Transitional Zero-Emission Vehicle (TZEV) requirements. Vehicles qualifying for this new CAV decal will be added to ARB's website. For more information, including ARB's most recent count of the total number of green decals issued, visit [www.arb.ca.gov](http://www.arb.ca.gov).

## Yellow Clean Air Vehicle Decals (Program ended 7/1/2011)



### Important Information:

The Hybrid CAV decal program ended on July 1, 2011. Owners of hybrid CAV displaying yellow CAV decals are no longer able to operate their vehicle in a HOV lane unless the minimum passenger requirements are met. After July 1, 2011, use of an HOV lane, without the minimum required passengers, may subject the driver to a citation. These vehicles do not qualify for any other type of decals.

# **Clean Air Vehicle (CAV) Decals - High Occupancy Vehicle Lane Usage**

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## **All CAV decals**

All CAV decals must also be reauthorized for use by the Federal Highway Administration. If reauthorization is not granted, the Clean Air Vehicle sticker program may end sooner than state law currently allows.

State law extends the use of CAV decals for SULEV, ILEV, and certain ULEV vehicles (white) and enhanced AT PZEV or TZEV (green) through January 1, 2019.

- Carpool lane use may be restricted at any time by the California Department of Transportation and federal law for all CAVs carrying fewer occupants than the posted minimum requirement, if their presence contributes to increased traffic congestion, increased travel times, decreased sustained travel speeds, or other factors affecting any carpool lane or segment of that lane.
- CAVs that meet the posted minimum occupancy requirements for carpool lanes are not subject to the above restrictions.
- All CAV decals remain with the vehicle they were originally issued to and cannot be transferred to any other vehicle. If you purchase a vehicle that has CAV decals, you may transfer the decal to your name.

**For additional information, visit the California Department of Motor Vehicles (DMV) website [www.dmv.ca.gov](http://www.dmv.ca.gov)**

## MANAGED LANE LEGISLATION

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- **Senate Bill 63 (SB 63)** was approved by the Governor on July 23, 1999. Effective January 2000, reduced the minimum occupancy requirement from 3 to 2 persons per vehicle on the I-10 El Monte Busway, on a 24-hour basis. Signs were changed and the facility was monitored through electronic counts, tachometer runs, and manual counts for six months. The Department submitted an operational report to the Legislature. The conclusion – The HOV facility became congested for a couple of hours during the morning and afternoon peak periods; Buffer violations increased from vehicles exiting the congested HOV lane; Observed a significant reduction of 3-person carpools; Public inquiries increased to various agencies and officials regarding the facility.
- **Assembly Bill 71 (AB 71)** was approved by the Governor on September 7, 1999. Effective July 1, 2000, allowed certain clean air vehicles to use the State's HOV system, regardless of the number of people in the vehicle. The Department of Motor Vehicles' decal must be displayed on the vehicle to qualify for the exemption (electric, CNG, etc.; not hybrids). Signs were installed on all HOV facilities in California.
- **Assembly Bill 769 (AB 769)** was approved by the Governor on July 3, 2000. Effective July 2000, overrode Senate Bill 63, and restored the 3 or more occupancy requirement during peak hours on the I-10 El Monte Busway. The previous bill, SB 63 -- converted the occupancy requirement as 2 or more/24 hours a day -- attracted too many users to the HOV lane and caused considerable congestion to peak hour traffic. The 3+/2+ variable occupancy HOV is still in effect with FHWA approval. The occupancy requirement is 3 or more persons per vehicle Monday to Friday 5-9 a.m. and 4-7 p.m. in both directions. At all other times, the requirement is 2 or more persons per vehicle.
- **Assembly Bill 1871 (AB 1871)** was approved by the Governor on September 6, 2000. Effective January 2001, required an 18-month part-time demonstration project on SR-14 between Santa Clarita and Palmdale. This project mandated that the existing high-occupancy vehicle lanes be converted from full-time to part-time operation on a demonstration basis. FHWA has agreed with the recommendation of Caltrans to continue with the part-time operation of HOV lanes on SR-14 freeway until the completion of the 5/14 HOV direct connectors in the year 2013. The HOV lane hours of operation are 5-9 a.m. (Monday to Friday) in the southbound direction and 3-7 p.m. (Monday to Friday) in the northbound direction. The ingress/egress locations must still be observed and used for entering and exiting the HOV lane even during the off-peak hours.
- **Assembly Bill 2628 (AB 2628)** was approved by the Governor on September 23, 2004 and became law on January 1, 2005, with a sunset date of January 1, 2008. This bill allows hybrid vehicles meeting specified criteria to use the High Occupancy Vehicle (HOV) lanes regardless of the number of occupants. A provision in the bill prohibited its taking effect until the federal government passed legislation allowing the use of HOV lanes by eligible hybrid vehicles. The bill requires the California Air Resources Board (ARB) to publish and maintain a listing of all vehicles eligible for participation in the program. The bill prohibits the Department of Motor Vehicles (DMV) from issuing more than 75,000 decals for the specified hybrid vehicles. Federal legislation, the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), was signed by the President on August 10, 2005. This legislation allows low emission and energy-efficient vehicles to use the HOV lanes without meeting the minimum occupancy requirements. SAFETEA-LU requires that the State establish a program that addresses the selection of qualifying vehicles, and procedures for enforcing the restrictions on the use of the HOV facility.
- **Assembly Bill 2600 (AB 2600)** was approved by the Governor on September 29, 2006. Extends the HOV lane provisions of AB 2628. AB 2600 increases the number of carpool decals available for qualified hybrid vehicles by 10,000 to 85,000 decals. It also extends the sunset date of the program by three years to January 1, 2011.
- **Senate Bill 1422 (SB 1422)** was approved by the Governor on September 28, 2008. Authorized a value-pricing and transit development demonstration program involving High Occupancy Toll (HOT) lanes to be conducted, administered, developed, and operated on Route 10 from Alameda Street (Union Station) to Route 605 and on Route 110 from Adams Boulevard to 182<sup>nd</sup> Street (Artesia Transit Center) by the Los Angeles County Metropolitan Transportation Authority (LACMTA). The United States Department of Transportation has entered into a memorandum of understanding with the LACMTA and the Department of Transportation to award \$210.6 million in federal transit funding for the purpose of enabling LACTMA to carry out a demonstration program where High Occupancy Vehicle

## MANAGED LANE LEGISLATION

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(HOV) lanes on selected freeways in Los Angeles County would be converted into HOT lanes during the demonstration period. The target date for implementation of this demonstration program is December 31, 2010. The bill requires the LACMTA and the Department of Transportation to report to the Legislature by December 31, 2012, on the demonstration program. [Update: Tolling begins November 10, 2012 on the I-110 and February 23, 2013 on the I-10.

- **Assembly Bill 1500 (AB 1500)** was approved by the Governor on July 6, 2010. Extends the sunset date on a program granting high occupancy vehicle (HOV) lane driving privileges to certain electric and natural gas vehicles. This bill extends the sunset date to January 1, 2015 for all vehicles with white clean air vehicle decals issued by the California Department of Motor Vehicles.
- **Senate Bill 535 (SB 535)** was approved by the Governor on August 30, 2010. Extends the sunset date on a program allowing certain hybrid vehicles to use the high occupancy vehicle (HOV) lane. This bill allows those vehicles with existing yellow clean air vehicle decals issued by the California Department of Motor Vehicles (DMV) to continue single occupant HOV lane access until July 1, 2011. Starting January 1, 2012, this bill would allow certain vehicles meeting California's enhanced advanced technology partial zero-emission vehicle (enhanced AT PZEV) requirements such as a plug-in hybrid electric vehicle the use of an HOV lane. The DMV will issue up to 40,000 green clean air vehicle decals to applicants with qualifying vehicles.
- **Assembly Bill 266 (AB 266)** was approved by the Governor on September 28, 2013. Extends the sunset date on a program granting high occupancy vehicle (HOV) lane driving privileges to qualifying zero-emission vehicles (typically 100% electric, hydrogen fuel cell, and CNG vehicles). This bill extends the sunset date to January 1, 2019 for all vehicles with white clean air vehicle decals issued by the California Department of Motor Vehicles.
- **Senate Bill 286 (SB 286)** was approved by the Governor on September 28, 2013. Extends the sunset date on a program granting high occupancy vehicle (HOV) lane driving privileges to qualifying transitional zero-emission vehicles (typically plug-in hybrid). This bill extends the sunset date to January 1, 2019 for all vehicles with green clean air vehicle decals issued by the California Department of Motor Vehicles. Green clean air vehicle decals are available to the first 40,000 applicants.
- **Senate Bill 853 (SB 853)** was approved by the Governor on June 20, 2014. This bill increases the green clean air vehicle decals issued by the California Department of Motor Vehicles (DMV) by an additional 15,000 decals effective July 1, 2014. A total of 55,000 green clean air vehicle decals will be issued by the DMV.
- **Assembly Bill 2013 (AB 2013)** was approved by the Governor on September 21, 2014. This bill increases the green clean air vehicle decals issued by the California Department of Motor Vehicles (DMV) by an additional 15,000 decals effective January 1, 2015. A total of 70,000 green clean air vehicle decals will be issued by the DMV.
- **Senate Bill 1298 (SB 1298)** was approved by the Governor on September 21, 2014. This bill extends LACMTA's authority to operate Express lanes on the I-10 (Alameda Street to Route 605) and I-110 (Adams Boulevard to Harbor Gateway Transit Center) indefinitely. The *Express Lanes* began as a one year demonstration project on the I-10 and I-110 freeways in Los Angeles County. Tolling operations began on the I-110 Express lanes on November 10, 2012 and on I-10 Express lanes on February 23, 2013.
- **Assembly Bill 1721 (AB 1721)** was approved by the Governor on September 21, 2014. This bill allows certain clean air vehicles (displaying a clean air vehicle decal issued by the DMV) not carrying the requisite number of passengers the use of HOV lanes and toll-free or reduced-rate passage in Express lanes.  
(Note: All vehicles, including clean air vehicles, are required to have a FasTrak transponder while traveling on Express Lanes. Visit [metroexpresslanes.net/en/faq/driving.shtml](http://metroexpresslanes.net/en/faq/driving.shtml) website for additional information).
- **Assembly Bill 95 (AB 95)** was approved by the Governor on June 24, 2015. This bill increases the green clean air vehicle decals issued by the California Department of Motor Vehicles (DMV) by an additional 15,000 decals effective immediately. A total of 85,000 green clean air vehicle decals will be issued by the DMV.

## RAMP METERING AND HOV BYPASS LANES

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There are approximately 1000 on-ramps and 23 freeway-to-freeway connectors that are metered in Los Angeles and Ventura Counties, of which 356 have separate HOV bypass lanes. Vehicles traveling in the HOV on-ramp bypass lane with minimum occupancy requirement are not required to stop at the ramp meter signal unless indicated. 33 (located along Route 210) of the 356 HOV on-ramp bypass lanes are metered in Los Angeles and Ventura Counties. The activation of HOV meters is part of a congestion relief project to convert HOV bypass lanes or meter them at the same rate as mixed-flow lanes at all on-ramp locations along Route 210. This marks the beginning of HOV bypass lane metering at on-ramps, in District 7. Ramp metering is one of the traffic management tools to regulate the flow of traffic entering the freeways during the peak traffic hours. Ramp metering will:

- a. Smooth the overall flow of freeway traffic
- b. Accommodate more vehicles per hour on the freeway
- c. Decrease commuting travel times
- d. Increase safety on the freeway

Ramp metering is an integral part of the *Traffic Operations Program Strategic Plan* which outlines the program's commitment to focus first on implementing operational strategies to reduce congestion and increase safety on California's state highway system. Ramp metering increases the capacity of the mixed flow lane and enables traffic to flow at greater speeds. Freeway congestion is most often caused by a bottleneck, where the freeway demand exceeds the freeway capacity. This condition usually occurs during the weekday peak hours, but some freeways experience congestion during the mid-day and some on weekends. When the demand exceeds the capacity, congestion creates queues of stop-and-go traffic, and ramp metering limits the amount of traffic entering the freeway so that the demand at the bottleneck does not exceed the capacity. A free-flowing traffic lane can carry 33% more cars than a congested lane.

On weekdays, most ramp meters operate 4 to 10 hours during peak traffic periods. Some ramps are metered all day, including weekends. The rate at which vehicles are allowed onto the freeway is determined by the traffic demand at the on-ramp, as well as the freeway volume. The mainline responsive controllers react to the volumes on the freeway, such that if the volumes decrease significantly, then the meter will adjust and allow more vehicles onto the freeway. If the freeway volumes are very light, the meter may go to continuous green.

Projects within freeway segments identified in the *Ramp Meter Development Plan* should include provisions for ramp metering. However, there are ramp locations that are not metered, due to the heavy volume of traffic and/or insufficient storage area for the metered vehicles.

## MANAGED LANE VIOLATION

The Judicial Council of California sets the fines and maintains the Uniform Bail and Penalty Schedules (UBPS) for traffic violations. In that schedule, the minimum fine is \$489 (or \$490 with night court assessment) for improper use of preferential lanes per Section 21655.5(b) or driving over double lines of preferential lanes per Section 21655.8(a) of the California Vehicle Code.

The minimum fine is comprised of:

- (A) **Exclusive or Preferential Use Lanes per Section 42001.11 of the California Vehicle Code.** Every person convicted of an infraction for a violation of Section 21655.5 or 21655.8 shall be punished as follows:
- (1) For a first conviction, a fine of not less than one hundred dollars (\$100), nor more than one hundred fifty dollars (\$150).
  - (2) For a second conviction within a period of one year, a fine of not less than one hundred fifty dollars (\$150), nor more than two hundred dollars (\$200).
  - (3) For a third or any subsequent conviction within a period of two years, a fine of not less than two hundred fifty dollars (\$250), nor more than five hundred dollars (\$500).
- (B) **Additional Penalties and Surcharge.**  
\$100 State; \$70 County; \$50 DNA; \$50 Court; \$20 Surcharge; \$20 EMS; \$4 EMAT; \$40 Court OPS; \$35 Conviction Assessment.
- (C) **Night Court Assessment per Section 42006 of the California Vehicle Code.**
- (a) Except as provided in subdivision (c), there may be levied a special assessment in an amount equal to one dollar (\$1) for every fine and forfeiture, imposed and collected by any court which conducts a night session of the court, on all offenses involving a violation of a section of this code or any local ordinance adopted pursuant to this code, except offenses relating to parking.
  - (b) When a person makes a deposit of bail for an offense to which this section applies, in a case in which the person is required to appear in a court which conducts a night session, the person making the deposit shall also deposit a sufficient amount to include the assessment prescribed in this section for forfeited bail. If bail is forfeited, the amount of the assessment shall be transmitted by the clerk of the court to the county treasury for disposition as prescribed by subdivision (d).
  - (c) If a court conducts sessions at two or more locations, the court may do either of the following:
    - (1) Levy assessments only on those persons who are required to appear at the location where night sessions are held.
    - (2) Levy assessments on persons who have the option to appear at a location where night court sessions are held and that location is within 25 miles of the location of the court where the person is otherwise required to appear, if the court prepares and submits a report to the Legislative Analyst on or before February 1, 1986, which itemizes the additional costs of the night court session or sessions for the calendar years of 1983, 1984, and 1985, and the revenues received from the assessment levied under subdivision (a) in those calendar years.
  - (d) After a determination by the court of the amount of the assessment due, the clerk of the court shall collect the amount and transmit it to the county treasury to be deposited in the night court session fund, and the money in the fund shall be expended by the county for maintaining courts in the county which have night sessions for traffic offenses.
  - (e) In any case where a person convicted of any offense to which this section applies is imprisoned until the fine is satisfied, the judge shall waive the penalty assessment.

## HOV LANE DEGRADATION

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Federal law authorizes states to allow inherently low-emission vehicles (ILEVs), certain gasoline/electric plug-in hybrid vehicles, and toll-paying vehicles to access HOV/Express lanes without meeting occupancy requirements. States that allow these exempted vehicles to use HOV lanes are required to monitor and report on the performance of those lanes. The California Department of Transportation (Caltrans) headquarters prepares the annual "California High-Occupancy Vehicle Lane Degradation Determination Report" to report the performance of the high-occupancy vehicle (HOV) network in California as required by federal regulations. The "California High-Occupancy Vehicle Lane Degradation Action Plan" discusses the causes of degradation and identifies remediation strategies to bring degraded HOV facilities into compliance with federal regulations.

By federal definition, an HOV lane is considered degraded if the average traffic speed during the morning or evening weekday peak commute hour is less than 45 miles per hour (mph) for more than 10 percent of the time over a consecutive 180-day period. In other words, the HOV lane's average traffic speed cannot drop below 45 mph for more than two weekdays each month. If the lane is considered degraded, then the state must limit or discontinue the use of the lane by the exempted vehicles or take other actions that will bring the operational performance up to the federal standard within 180 days after identification of the lane being degraded.

California regulates access by ILEV (white decal) and plug-in hybrids (green decal) to HOV lanes through issuance of vehicle decals. As of December 31, 2014, decals were issued for over 19,000 ILEVs (18,626 in Los Angeles County and 634 in Ventura County) and 18,000 plug-in hybrid vehicles (17,398 in Los Angeles County and 1,207 in Ventura County) in District 7. Statewide, over 64,000 ILEV and 56,000 plug-in-hybrid decals were issued. Drivers of vehicles not meeting occupancy requirements can pay a toll to access certain HOV lanes also known as high-occupancy/toll lanes or express lanes.

District 7 includes two heavily populated urban counties, Los Angeles County and Ventura County. Los Angeles County, with almost 11 million people, is the most populated county in California. The district is responsible for 1,113 centerline miles of highway and operates HOV lanes on Routes 5, 10, 14, 57, 60, 91, 105, 110, 118, 134, 170, 210, 405, and 605. On average, highways in District 7 support 100 million vehicle miles traveled every day.

In 2014, HOV lanes statewide carried over 292 million vehicle miles traveled (VMT) during the 8:00 a.m. to 9:00 a.m. peak commute hour, and 362 million VMT during the 5:00 p.m. to 6:00 p.m. peak commute hour. These high levels of traffic demand and the current federal threshold/definition for degradation present challenges for California to achieve the federal performance standard. Analysis suggests that factors contributing to degradation include:

- Recurrent congestion in the general-purpose lanes of the highway, and HOV lane users' comfort with speed differentials.
- Motorists from the general-purpose lanes merging into the lane near the end of an HOV facility and backing up traffic into the HOV lane.
- Lane change conflicts from motorists who attempt to enter or exit the HOV lanes.
- Traffic disruptions on the highway due to severe weather or traffic incidents, both on or outside of HOV lanes. Caltrans continues to investigate a long-term methodology to systematically identify such occurrences and exclude the freeway segments from degradation analysis. The effort involves coordination with other agencies such as the California Highway Patrol to develop processes to record, categorize, and report incidents.

## HOV LANE DEGRADATION

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Caltrans proposes a combination of short-term and long-term strategies to reduce or eliminate degradation. These strategies include:

- **Increased Enforcement by the California Highway Patrol:** Violation rates in HOV lanes should not exceed 10 percent. Caltrans district staff will coordinate with the California Highway Patrol (CHP) to increase HOV enforcement in order to remove ineligible vehicles from the lane and lower the violation rates. Caltrans plans to continue to seek additional funding for enhanced HOV enforcement.
- **Improved Incident Response Times:** The Freeway Service Patrol (FSP) is a program provided under a partnership between Caltrans, the CHP, and regional transportation agencies. The FSP program is comprised of privately owned tow truck operators that patrol designated routes on California's congested urban freeways during peak commute periods. They provide free assistance to stranded motorists and remove disabled vehicles from the freeway to minimize traffic disruption and prevent nonrecurring congestion. Presently, the FSP's goal is to respond to incidents within ten minutes. Much of the degradation observed in California is nonrecurring, which means it could be caused by incidents or inclement weather. In order to minimize the potential for degradation, Caltrans and the CHP continues to work to improve FSP response time.
- **Improved Infrastructure:** Various short-term and long-term HOV infrastructure improvements are planned to mitigate degradation. These include HOV lane gap closure projects, HOV lane extensions, or widening to provide a second HOV lane. Some of these projects were underway in 2014 or will begin construction within the next one to three years. Caltrans proposes to defer actions on the degraded segments near these projects until the improvements are completed and further analysis can be performed.

Other proposed infrastructure improvements focus on improving HOV lane performance by reduction of congestion in general purpose lanes. When general-purpose lanes are congested, lane-changing maneuvers made into and out of a carpool lane may become disruptive and diminish HOV lane speeds. The reduction in HOV lane speed leads to degradation. Action item proposals for the general purpose lanes include improvements to bottlenecks, weaving sections, and auxiliary lanes. Some proposals such as new general-purpose lanes add capacity to the highway to improve operations on the HOV lanes.

These improvements were underway in 2014 and will continue into the future. Caltrans proposes to defer action on these degraded segments until the improvements are fully completed and further analysis can be performed. In the case of long-term projects, such as those exceeding three years construction time, Caltrans also proposes deferral of the operational evaluation until full construction completion to allow traffic to normalize. Long-term construction projects implement multiple traffic stages or detours, some lasting six months or less, that preclude traffic pattern normalization until after full project completion.

- **Strategies for Active Traffic Management:** Caltrans proposes various active traffic management strategies to mitigate congestion on freeways in some districts. These strategies include onramp and freeway connector ramp metering, and speed harmonization. Speed harmonization varies advisory speed limits to optimize traffic flow and reduce stop-and-go conditions. In other locations, HOV lanes may be converted to High-Occupancy Toll (HOT) lanes. These improvements should result in improved vehicle detection, motorist compliance, and in some cases, improved throughput.

## HOV LANE DEGRADATION

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In the future, Caltrans may consider increasing minimum occupancy of select HOV lanes to mitigate degradation. However, the impact to the HOV lanes and general-purpose lanes would require thorough examination. Comprehensive operational analyses would need to be conducted to determine the full effects of permanently increasing occupancy on a proposed corridor. Such studies would consider the geographic, geometric, and traffic demand characteristics of both the individual highway corridor and the region. In some locations, the studies may show that occupancy increases could decrease throughput of HOV lanes due to two-person occupancy vehicles diverting to general-purpose lanes without increases in three-person occupancy vehicles using the HOV lanes. In order to minimize these impacts, increasing occupancy requirements could be supplemented with conversion of HOV lanes to HOT lanes. HOT lanes allow drivers not meeting occupancy requirements to utilize the facilities by paying a variably priced toll, based on the existing demand.

At this time, Caltrans is not prohibiting exempted vehicles such as ILEVs from the HOV lanes. The connection between exempted vehicles and degradation has yet to be established. Traffic counts indicate that exempted vehicles contribute a relatively small percentage of the peak hour HOV volume and are dispersed throughout the HOV network statewide. District 7, with the highest number of exempted vehicle registration, recorded exempted vehicles on all the HOV lanes studied. Throughout District 7, exempted vehicles averaged less than 1 percent of peak HOV volume. On individual freeway routes, exempted vehicles constitute up to 5 percent of the peak HOV traffic. While additional remediation strategies are being developed and implemented, Caltrans will continue to monitor the effectiveness of remediation plans and to refine or add additional strategies as needed.

Source: 2014 California High-Occupancy Vehicle Lane Degradation Determination Report (September 1, 2015)  
2014 California High-Occupancy Vehicle Lane Degradation Action Plan (September 1, 2015)

## Park and Ride Lots

Lot Name	Route	Post Mile (CA)	Lot Address	City
Verdugo	2	17.0	Verdugo Blvd. at Hilldale Dr.	La Canada
Lakewood-West Lot	5	8.3	Route 5 @ 9004 Lakewood Blvd.	Downey
St John's Church*	10	5.8	11000 National Blvd.	Los Angeles, 90064
Washington&Fairfax*	10	9.3	Washington Blvd. & Genesee Ave	Los Angeles
United Meth Church*	10	36.5	718 S. Azusa Ave.	W. Covina, 91791
United Meth Church*	10	37.0	437 W. San Bernardino Rd.	Covina, 91723
Newhall-East Lot	14	27.1	20100 W San Fernando Rd(126)/E of Rte 14	Santa Clarita
Newhall-West Lot	14	27.1	20516 W. San Fernando Rd.	Santa Clarita
Golden Valley (3 Sections)	14	29.5	Rte 14 @ Golden Valley Road (3 Lots)	Santa Clarita
Pearblossom	14	54.2	Rte 14 @ Sierra Highway	LA County, Acton
Ave S & Geiger Ave.	14	58.2	Ave. S & Geiger St.	Palmdale
Ave K @ Route 14	14	66.7	1601 W. Ave K @ Route 14	Lancaster
Pathfinder Rd.	57	3.4	Pathfinder Rd. @ Rte. 57	Diamond Bar
Via Verde	57	8.7	105 Via Verde	San Dimas
United Meth Church*	60	22.8	20601 La Puente	Walnut, 91788
Diamond Bar-East	60	25.6	100 N. Diamond Bar Blvd.	Diamond Bar
Diamond Bar-West	60	25.6	101 N. Diamond Bar Blvd.	Diamond Bar
Borchard Rd.	101	7.0	Rte 101 @ Borchard Rd/475 Rancho Conejo	Thousand Oaks
Pleasant Valley	101	12.3	Rte 101 @ Pleasant Valley Rd./Santa Rosa Rd.	Camarillo
Las Posas Rd.	101	15.7	Rte 101 @ Las Posas Rd/690 Ventura Blvd	Camarillo
Kanan Rd. (Southeast Lot)	101	35.1	Rte 101/Kanan & 29165 Roadside (SE)	Agoura Hills
Aviation	105	2.2	Rte 105 @ Aviation	El Segundo
Hawthorne (3 Sections)	105	3.7	Rte 105 @ Hawthorne Boulevard	Hawthorne
Crenshaw	105	5.0	Rte 105 @ Crenshaw on 120th Street	Hawthorne
Vermont Ave. (2 Sections)	105	7.4	Rte 105 @ Vermont Avenue	Athens
Century/Harbor	105	7.7	Rte 105 @ Rte 110 - 117th St. & Figueroa St.	Los Angeles
Avalon (2 Sections)	105	8.9	Rte 105 @ Avalon	Los Angeles
Willowbrook/Imperial (3 Sections)	105	10.4	Rte 105 @ Wilmington (Blue Line)	Willowbrook
Long Beach Blvd. (2 Sections)	105	11.6	Rte 105 @ Long Beach Boulevard	Lynwood
Lakewood Blvd.(2 Sections)	105	17.4	12747 Lakewood Boulevard	Downey
I-105 Termination	105	18.8	12730 Hoxie Ave.	Norwalk
San Pedro II	110	1.2	515 N. Beacon @ Harbor Blvd.	San Pedro
San Pedro	110	1.3	Battery St./Gaffey St./610 Channel St.	San Pedro
Harbor Park	110	3.9	Route 110/ PCH & Figueroa, 1345 W. PCH	Wilmington
Carson ( Opened 1997)	110	6.8	Rte 110 @ Carson Street	Los Angeles
Artesia ( Opened 1997)	110	9.8	Rte 110 @ Rte 91, 182nd St.	Los Angeles
Rosecrans (Opened 1997)	110	11.9	Rte 110 @ Rosecrans Avenue	Los Angeles
Manchester ( Open 1997),(2 Secs)	110	15.8	Rte 110 @ Manchester Avenue	Los Angeles
Slauson ( Opened 1997),(2 Secs)	110	18.0	Rte 110 @ Slauson Avenue	Los Angeles
Porter Ranch	118	3.9	Rte. 118 @ Porter Ranch.	Chatsworth
Chatsworth	118	9.9	15550 Chatsworth St	Granada Hills
Moorpark College	118	17.5	Route 118 @ Collins Avenue	Moorpark
Erringer	118	24.8	Erringer Rd. @ Rte. 118	Simi Valley
Sycamore Dr.	118	25.7	2599 Sycamore Dr. @ Rte. 118	Simi Valley
Tapo Canyon	118	27.3	Tapo Canyon Dr. @ Rte. 118	Simi Valley
Stearns	118	28.8	2501 Stearns St @ Rte 118	Simi Valley
Glendale	134	8.8	Route 134 & Route 2	Glendale
Rte 170/Oxnard	170	16.6	Route 170 @ 12000 Oxnard St.	North Hollywood
Paxton	210	6.0	12501 Foothill Blvd @ I-210 & Paxton St	Pacoima
Lowell	210	16.1	Route 210 @ 3930 Lowell Ave.	Glendale
Sierra Madre Blvd.	210	29.4	Sierra Madre Blvd. @ Rte. 210	Pasadena
Citrus College*	210	40.6	1000 Foothill Blvd.	Glendora, 91741
Grand Ave	210	41.5	Route 210 @ 628 W. Baseline Rd. @ Grand Av.	Glendora
Lone Hill	210	44.2	Route 210 @ Lone Hill Ave	Glendora
Skirball & Mulholland	405	36.7	Route 405 @ 2350 Skirball Center Drive	Los Angeles

\* privately owned lot

Rev. 08/2015

# Metro ExpressLanes

Metro ExpressLanes is a one-year demonstration program overseen by Metro, Caltrans and several other mobility partners that have joined forces to develop a package of solutions to improve traffic flow and provide enhanced travel options on the I-10 and I-110 Freeways in Los Angeles County.

The program includes the introduction of congestion pricing by converting High Occupancy Vehicle (HOV) lanes to High Occupancy Toll (HOT) / Express lanes; the improvement of transit service and other alternatives to driving; the updating of transit facilities; and the implementation of a more effective parking management system in downtown Los Angeles.

It is about improving mobility and offering a safe and reliable trip for users. Everyone benefits with reduced congestion and greenhouse gas emissions, increased travel time savings, and better trip reliability. Metro ExpressLanes is primarily funded with a \$210 million congestion reduction demonstration grant from the U.S. Department of Transportation.

Route	Occupancy
<b>I-110 Harbor Transitway Lanes Only</b>	SOV (Single Occupant Vehicles). <u>Pay toll</u> - All Hours HOV (High Occupancy Vehicle-2 or more). <u>Free</u> - All Hours
<b>I-10 El Monte Busway Lanes Only</b>	SOV (Single Occupant Vehicles). <u>Pay toll</u> - All Hours HOV 2. <u>Pay toll</u> - Peak Hours (Mon. - Fri.; 5 a.m. - 9 a.m.; 4 p.m. - 7 p.m.) HOV 2. <u>Free</u> - Off-Peak Hours HOV 3 or more. <u>Free</u> - All Hours

Metro ExpressLanes features include:

## ExpressLanes

- Conversion of the I-10 El Monte Busway HOV lanes (I-605 to Alameda St.) to HOT/Express lanes.
- Conversion of the I-110 Harbor Transitway HOV lanes (Harbor Gateway Transit Center (formerly Artesia Transit Center) to Adams Blvd.) to HOT/Express lanes.

## Transit

- 59 new alternative fuel buses and operating subsidy for the demo period (Silver Line, Foothill Transit, Gardena Transit and Torrance Transit)
- El Monte Station Expansion
- Transit Rewards Program
- New Transit Station at Patsaouras Plaza
- Harbor Transitway Park & Ride Upgrades
- Metrolink Pomona Station Expansion
- Transit Signal Priority Expanded in Downtown LA

## Carpools

- 100 New Metro Vanpools
- Carpool Loyalty Program

## Bicycles

- New bicycle lockers at the Harbor Gateway Transit Center (formerly Artesia Transit Center) & bicycle station at El Monte Station

## Parking

- LA Express Park

Source: Los Angeles County Metropolitan Transportation Authority [ [www.metro.net](http://www.metro.net) ]

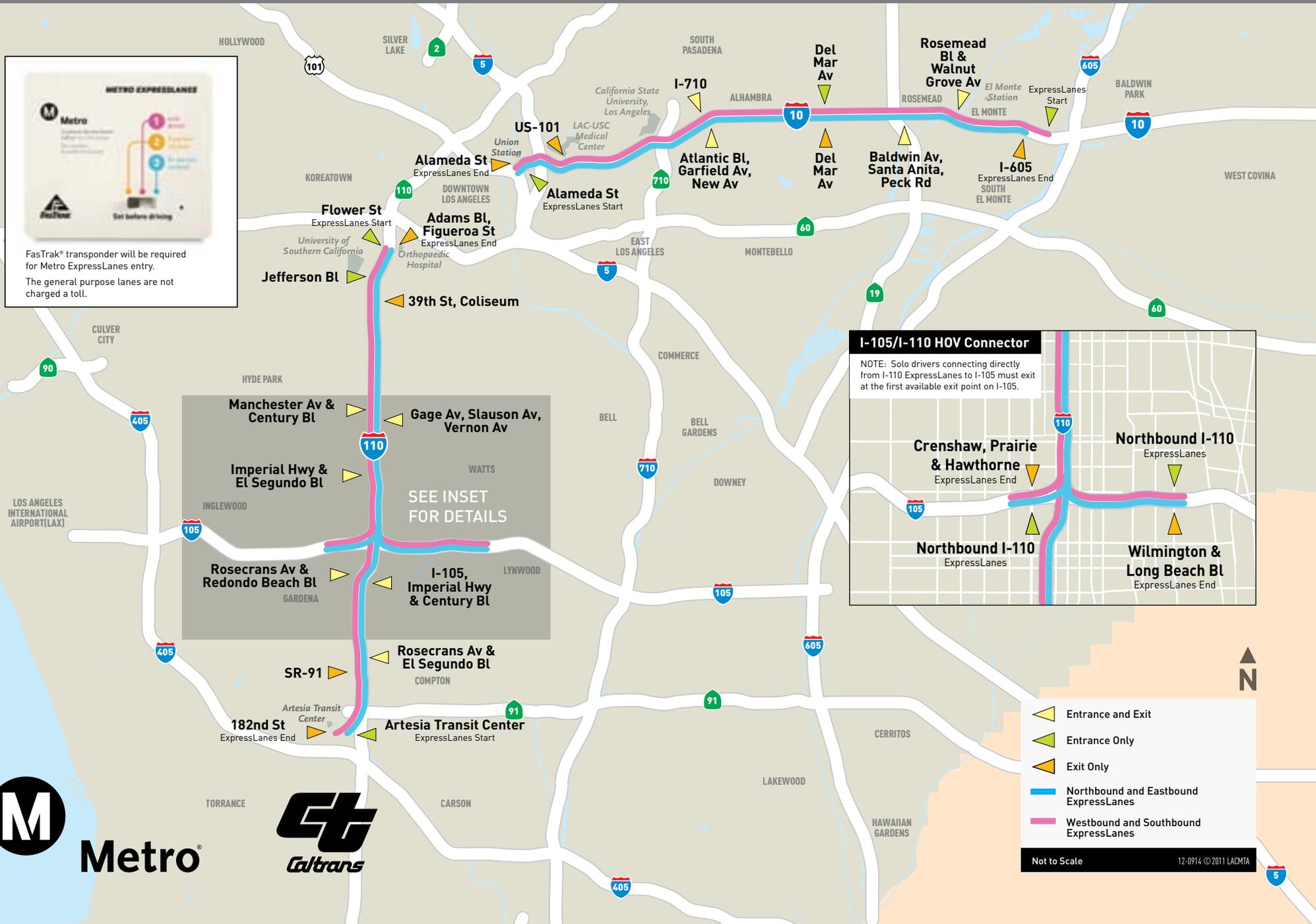
## Update

Senate Bill 1298 (SB 1298) was approved by the Governor on September 21, 2014. This bill extends LACMTA's authority to operate Express lanes on the I-10 (Alameda Street to Route 605) and I-110 (Adams Boulevard to Harbor Gateway Transit Center) indefinitely. The *Express Lanes* began as a one year demonstration project on the I-10 and I-110 freeways in Los Angeles County. Tolling operations began on the I-110 Express lanes on November 10, 2012 and on I-10 Express lanes on February 23, 2013.

# METRO EXPRESSLANES

## FasTrak® Entry and Exit Locations

FasTrak® transponder will be required for Metro ExpressLanes entry. The general purpose lanes are not charged a toll.



**I-105/I-110 HOV Connector**

NOTE: Solo drivers connecting directly from I-110 ExpressLanes to I-105 must exit at the first available exit point on I-105.

Entrance and Exit

Entrance Only

Exit Only

Northbound and Eastbound ExpressLanes

Westbound and Southbound ExpressLanes

Not to Scale

12-0914 © 2011 LACMTA



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# FACT SHEET

## ROUTE 5 GOLDEN STATE FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Hollywood Way to Antelope Valley Freeway (Route 14)	32.31 / R45.29	13.2 lane-miles (Northbound)
Antelope Valley Freeway (Route 14) to Hollywood Way	R45.44 / 32.19	13.4 lane-miles (Southbound)
		<b>26.6 lane-miles (Total)</b>

### Project Limits:

Hollywood Way to Route 118  
 Route 5/170 HOV lane direct connector  
 Route 118 to Route 14  
 Route 5/14 HOV lane direct connector

### Date of Opening:

June 2015  
 June 2015  
 April 2008  
 December 2012

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Edgecliff Ave	40.88	Southbound	6/18/2015	6:30 – 7:30 A.M.	853 vehicles
Edgecliff Ave	40.88	Northbound	6/25/2015	4:15 – 5:15 P.M.	1117 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
Lakewood – West Lot	5	8.3	9004 Lakewood Blvd	Downey

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Northbound	7	See Golden State Freeway HOV Lane map (attached)
Southbound	6	See Golden State Freeway HOV Lane map (attached)

### HOV Lane Direct Connectors:

- High Occupancy Vehicle (HOV) lane direct connector at Route 5/170 interchange.
  - Northbound Route 170 to northbound Route 5
  - Southbound Route 5 to southbound Route 170
- High Occupancy Vehicle (HOV) lane direct connector at Route 5/14 interchange.
  - Northbound Route 5 to northbound Route 14
  - Southbound Route 14 to southbound Route 5

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 5**

Co. Rte. Dir. Location Post Mile Date Occupancy Requirement	LA 5 SB		LA 5 NB	
	EDGECLIFF		EDGECLIFF	
	40.88		40.88	
	06/18/15		06/25/15	
	2 +		2 +	
	AM HOV Peak 1-Hour 6:30 - 7:30	AM HOV Peak 2-Hour 6:30-8:30	PM HOV Peak 1-Hour 16:15 - 17:15	PM HOV Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	702	1353	988	1960
Vanpools	11	15	31	49
Buses	8	13	8	15
Motorcycles	19	41	36	62
Single Occupant Vehicles	65	134	11	19
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	48	94	43	89
<b>Total Vehicles in HOV Lane</b>	<b>853</b>	<b>1650</b>	<b>1117</b>	<b>2194</b>
2+ Carpool volume in HOV Lane*	713	1368	1019	2009
3+ Carpool volume in HOV Lane*	76	141	112	218
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	1486	2864	2068	4115
People in Vanpools	66	90	186	294
People in Buses	281	400	140	320
People in CNG/EV, Single Occ. Veh. and Motorcycles	132	269	90	170
<b>Total HOV Lane People</b>	<b>1965</b>	<b>3623</b>	<b>2484</b>	<b>4899</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	3		3	
General Purpose Lane Vehicles**	3321	6544	4495	8860
<b>General Purpose Vehicles/Lane**</b>	<b>1107</b>	<b>2181</b>	<b>1498</b>	<b>2953</b>
General Purpose Lane People**	3448	6819	5294	10296
<b>General Purpose People/Lane**</b>	<b>1149</b>	<b>2273</b>	<b>1765</b>	<b>3432</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	4174	8194	5612	11054
Total Freeway People	5413	10442	7778	15195
% Freeway People in HOV Lane	36.30%	34.70%	31.94%	32.24%
% Freeway People per General Purpose Lane	21.23%	21.77%	22.69%	22.59%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	99		539	
2+ Carpool volume in GP (peak 2-hour)*	205		1000	
2+ % Carpools in GP for peak hour	2.97%		11.99%	
2+ % Carpools in GP for peak 2-hour	3.13%		11.29%	
3+ Carpool volume peak in GP (peak hour)*	13		111	
3+ Carpool volume in GP (peak 2-hour)*	36		213	
3+ % Carpools in GP for peak hour	0.38%		2.47%	
3+ % Carpools in GP for peak 2-hour	0.55%		2.40%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.30		2.22	
General Purpose Lane Occupancy	1.04		1.18	
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.71		1.41	

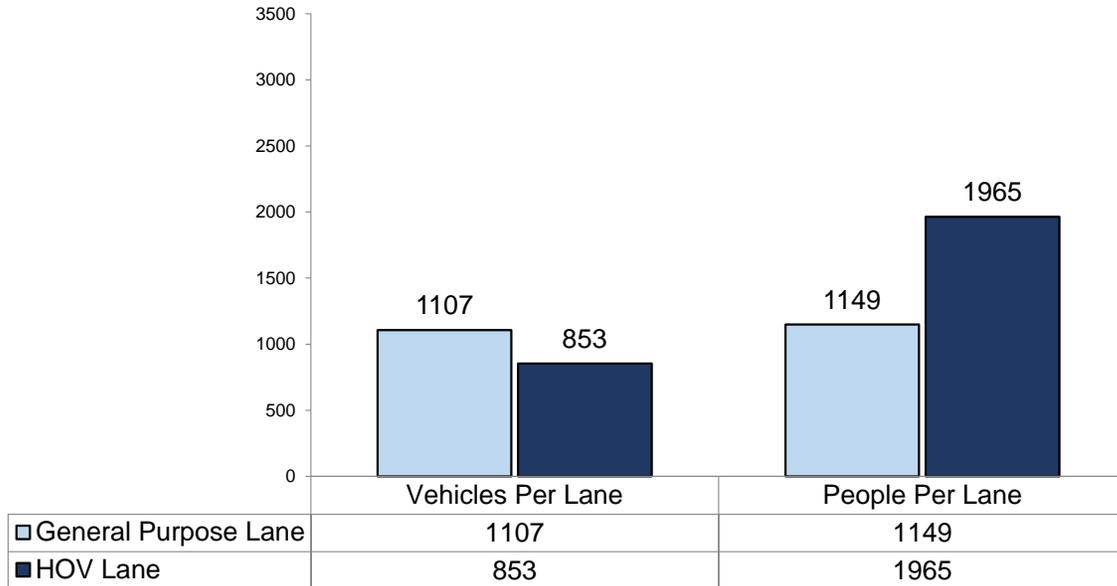
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

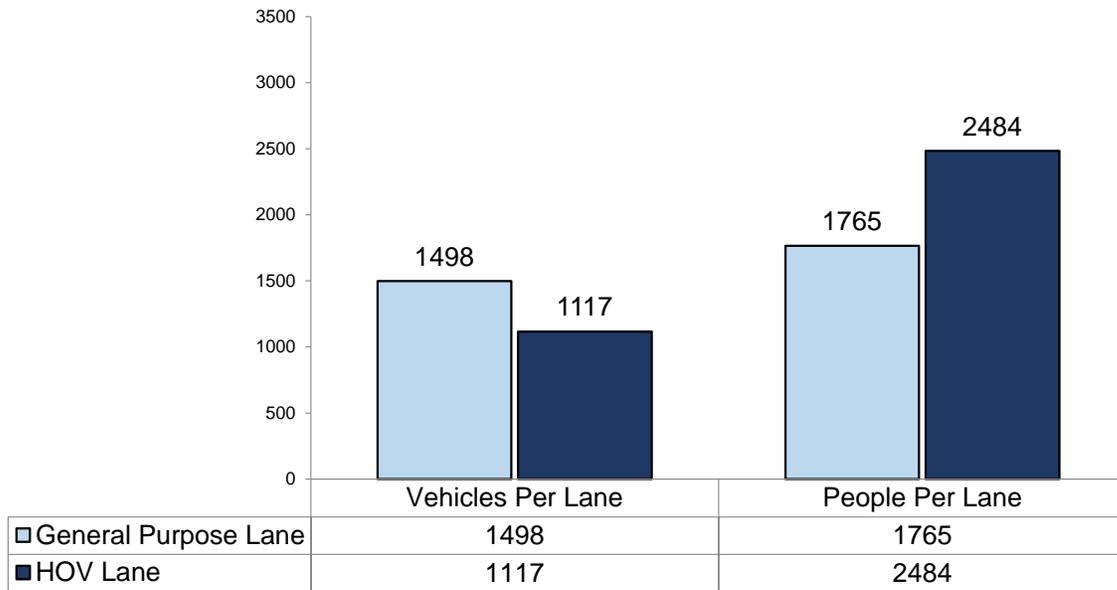
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-5-S/B at Edgecliff Ave (Postmile 40.88)  
 Date/Time: 6-18-2015 / 6:30 AM - 7:30 AM



Location: LA-5-N/B at Edgecliff Ave (Postmile 40.88)  
 Date/Time: 6-25-2015 / 5:00 PM - 6:00 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

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# GOLDEN STATE FREEWAY HOV LANE

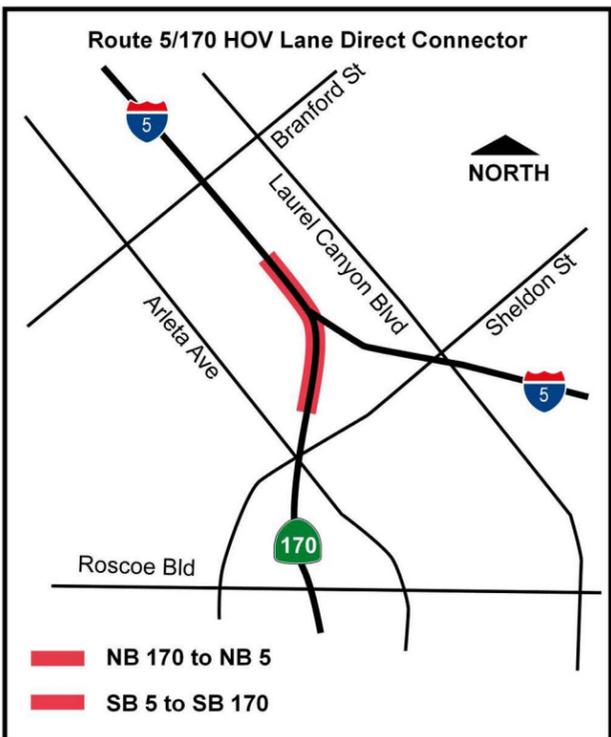
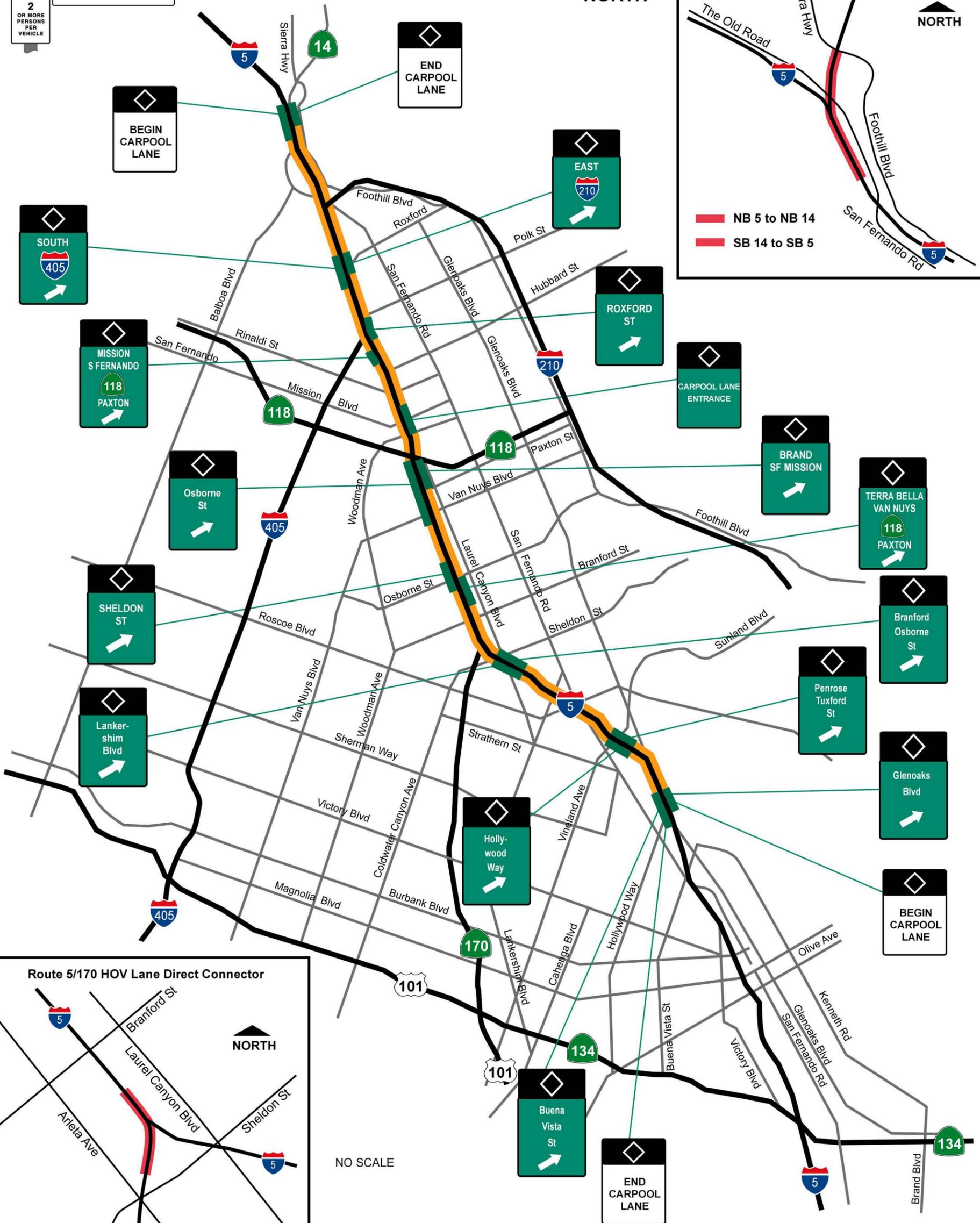
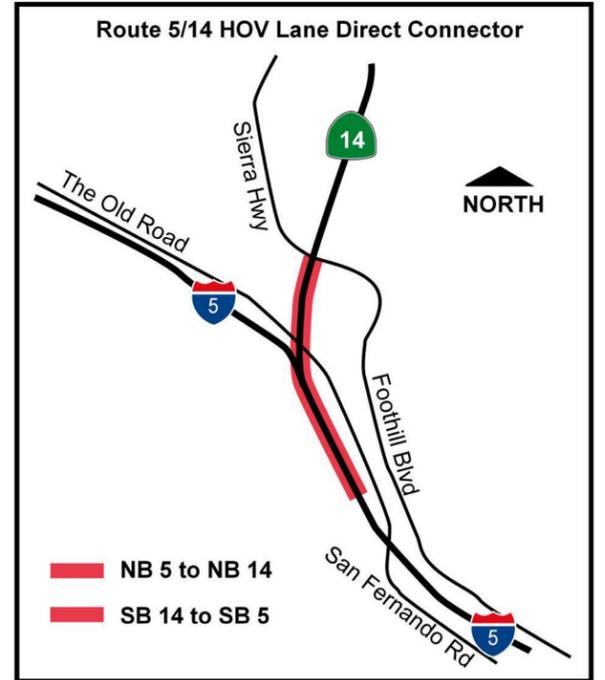
## Hollywood Way to Antelope Valley Freeway (Rte 14)

**CARPOLS ONLY**

2 OR MORE PERSONS PER VEHICLE

CARPOL IS 2 OR MORE PERSONS PER VEHICLE

NORTH



NO SCALE

California Department of Transportation, District 7, Los Angeles and Ventura Counties

5 INGRESS (14 TO 118) • GRAPHIC SERVICES • 7/26/15





# FACT SHEET

## ROUTE 10 SAN BERNARDINO FREEWAY

Description	Postmile (CA) (begin/end)	Length
Alameda St to San Gabriel River Freeway (Route 605)	10S 16.968 / 30.83	21.8 lane-miles (Eastbound)
San Gabriel River Freeway (Route 605) to Alameda St (EXPRESS LANE)	30.69 / 10S 16.968	<u>21.7 lane-miles (Westbound)</u>
		<b>43.5 lane-miles (Total)</b>
San Gabriel River Fwy (Rte 605) to 0.6 mi west of Puente Ave	30.83 / 32.75	1.9 lane-miles (Eastbound)
Orange Freeway (Route 57) to San Bernardino County Line	42.37 / 48.265	5.9 lane-miles (Eastbound)
San Bernardino County Line to Orange Freeway (Route 57)	48.265 / 42.89	5.4 lane-miles (Westbound)
0.5 mi west of Puente Ave to San Gabriel River Fwy (Rte 605) (HOV LANE)	32.91 / 30.69	<u>2.2 lane-miles (Westbound)</u>
		<b>15.4 lane-miles (Total)</b>

### Project Limits:

Alameda St to Mission Rd  
 Mission Rd to Long Beach Freeway (Route 710)  
 Long Beach Freeway (Route 710) to Baldwin Ave  
 Baldwin Ave to San Gabriel River Freeway (Route 605)  
 San Gabriel River Fwy (Route 605) to 0.6 mi (E/B) / 0.5 mi (W/B) west of Puente Ave  
 Orange Freeway (Route 57) to San Bernardino County Line

### Date of Opening:

April 1990  
 February 1975  
 January 1973  
 February 2005  
 December 2013  
 November 2003

### 1-Hour Express Lane Volume:

Count Location	Postmile (CA)	Direction	Date	Time	Volume
Warwick Rd	21.86	Westbound	6/30/2015	6:30 – 7:30 A.M.	2487* vehicles
Warwick Rd	21.86	Eastbound	4/28/2015	4:45 – 5:45 P.M.	1234 vehicles
Jackson Ave	25.09	Westbound	4/29/2015	6:30 – 7:30 A.M.	3174* vehicles
Jackson Ave	25.09	Eastbound	4/29/2015	4:30 – 5:30 P.M.	2320* vehicles

\*2-lanes at this count location (each direction). Volume shown is for 2-lanes.

### Park and Ride Lots:

Lot Name	Route	Postmile (CA)	Lot Address	City
St John's Church**	10	5.8	11000 National Blvd	Los Angeles
Washington & Fairfax**	10	9.3	Washington Bl & Genesee Ave	Los Angeles
United Methodist Church**	10	36.5	718 Azusa Ave	West Covina
United Methodist Church**	10	37.0	437 W San Fernando Rd	Covina

\*\*privately owned lot

### Number of HOV/Express Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV/Express lane):

Direction	Number of I/E	Location
Eastbound	9	See San Bernardino Freeway HOV/Express Lane maps (attached)
Westbound	11	See San Bernardino Freeway HOV/Express Lane maps (attached)

### Additional Information:

- Direct Express Lane access at Del Mar Avenue (Entrance from Del Mar Avenue to westbound Route 10 Express Lanes; Exit from eastbound Route 10 Express Lanes to Del Mar Avenue).
- Bus only connectors from southbound Route 710 to westbound Route 10 Express Lanes and from eastbound Route 10 Express Lanes to northbound Route 710.
- Facility converted to Express Lane operation. Tolling began February 23, 2013.

**CALTRANS - DISTRICT 7**  
**Express Lane Operation on Route 10**

Co. Rte. Dir.	LA	10	WB	LA	10	EB
Location	WARWICK			WARWICK		
Post Mile	21.86			21.85		
Date	06/03/15			04/28/15		
Toll Free Occupancy Requirement	3 +			3 +		
	<b>AM Express Peak 1-Hour 6:30 - 7:30</b>	<b>AM Express Peak 2-Hour 6:30-8:30</b>		<b>PM Express Peak 1-Hour 16:45 - 17:45</b>	<b>PM Express Peak 2-Hour 16:00-18:00</b>	
<b>Express Lane Vehicle Summary</b>						
Carpools (Vehicles with 2-5 occupants only)	611	1157		430		773
Vanpools	34	43		56		119
Buses	70	141		61		125
Motorcycles	59	109		26		61
Single Occupant Vehicles	1592	3129		594		1212
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	121	253		67		122
<b>Total Vehicles in Express Lane</b>	<b>2487</b>	<b>4832</b>		<b>1234</b>		<b>2412</b>
2+ Carpool volume in Express Lane*	645	1200		486		892
3+ Carpool volume in Express Lane*	261	482		302		565
<b>Express Lane People Summary</b>						
People in Carpools (Vehicles with 2-5 occupants only)	1462	2783		1112		2008
People in Vanpools	204	258		336		714
People in Buses	2611	5220		2030		4090
People in CNG/EV, Single Occ. Veh. and Motorcycles	1772	3491		687		1395
<b>Total Express Lane People</b>	<b>6049</b>	<b>11752</b>		<b>4165</b>		<b>8207</b>
<b>General Purpose Lane Summary</b>						
Number of General Purpose Lanes	4			4		
General Purpose Lane Vehicles**	7474	14763		6968		13788
<b>General Purpose Vehicles/Lane**</b>	<b>1868</b>	<b>3691</b>		<b>1742</b>		<b>3447</b>
General Purpose Lane People**	8614	16895		8275		16369
<b>General Purpose People/Lane**</b>	<b>2153</b>	<b>4224</b>		<b>2069</b>		<b>4092</b>
<b>Freeway Summary</b>						
Total Freeway Vehicles	9961	19595		8202		16200
Total Freeway People	14663	28647		12440		24576
% Freeway People in Express Lane	41.25%	41.02%		33.48%		33.39%
% Freeway People per General Purpose Lane	14.69%	14.74%		16.63%		16.65%
<b>General Purpose Lane Carpool Summary</b>						
2+ Carpool volume in GP (peak hour)*	976			1128		
2+ Carpool volume in GP (peak 2-hour)*	1844			2075		
2+ % Carpools in GP for peak hour	13.06%			16.18%		
2+ % Carpools in GP for peak 2-hour	12.49%			15.05%		
3+ Carpool volume peak in GP (peak hour)*	101			108		
3+ Carpool volume in GP (peak 2-hour)*	169			230		
3+ % Carpools in GP for peak hour	1.35%			1.54%		
3+ % Carpools in GP for peak 2-hour	1.14%			1.67%		
<b>Occupancy (Peak Hour)</b>						
Express Lane Occupancy	2.43			3.38		
General Purpose Lane Occupancy	1.15			1.19		
Equivalent Number of General Purpose Lanes Needed to Carry Express Lane People	2.81			2.01		

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

Note: Two (2) Express Lanes at this count location (westbound direction only). Volume shown is for 2-lanes (westbound direction only).

**CALTRANS - DISTRICT 7**  
**Express Lane Operation on Route 10**

Co. Rte. Dir. Location Post Mile Date Toll Free Occupancy Requirement	LA	10	WB	LA	10	EB
	JACKSON 25.09 04/29/15 3 +			JACKSON 25.09 04/29/15 3 +		
	AM Express Peak 1-Hour 6:30 - 7:30	AM Express Peak 2-Hour 6:30-8:30		PM Express Peak 1-Hour 16:30 - 17:30	PM Express Peak 2-Hour 16:00-18:00	
<b>Express Lane Vehicle Summary</b>						
Carpools (Vehicles with 2-5 occupants only)	556	918		306		604
Vanpools	36	62		58		96
Buses	64	136		61		98
Motorcycles	90	148		76		129
Single Occupant Vehicles	2339	4844		1729		3331
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	89	190		90		163
<b>Total Vehicles in Express Lane</b>	<b>3174</b>	<b>6298</b>		<b>2320</b>		<b>4421</b>
2+ Carpool volume in Express Lane*	592	980		364		700
3+ Carpool volume in Express Lane*	65	130		84		162
<b>Express Lane People Summary</b>						
People in Carpools (Vehicles with 2-5 occupants only)	1149	1923		642		1284
People in Vanpools	216	372		348		576
People in Buses	2151	4360		1515		2730
People in CNG/EV, Single Occ. Veh. and Motorcycles	2518	5182		1895		3623
<b>Total Express Lane People</b>	<b>6034</b>	<b>11837</b>		<b>4400</b>		<b>8213</b>
<b>General Purpose Lane Summary</b>						
Number of General Purpose Lanes	4			4		
General Purpose Lane Vehicles**	5753	10974		6986		13286
General Purpose Vehicles/Lane**	1438	2743		1747		3322
General Purpose Lane People**	6429	12255		8046		15231
General Purpose People/Lane**	1607	3064		2012		3808
<b>Freeway Summary</b>						
Total Freeway Vehicles	8927	17272		9306		17707
Total Freeway People	12463	24092		12446		23444
% Freeway People in Express Lane	48.42%	49.13%		35.35%		35.03%
% Freeway People per General Purpose Lane	12.90%	12.72%		16.16%		16.24%
<b>General Purpose Lane Carpool Summary</b>						
2+ Carpool volume in GP (peak hour)*	631			909		
2+ Carpool volume in GP (peak 2-hour)*	1148			1669		
2+ % Carpools in GP for peak hour	10.97%			13.01%		
2+ % Carpools in GP for peak 2-hour	10.46%			12.56%		
3+ Carpool volume peak in GP (peak hour)*	36			99		
3+ Carpool volume in GP (peak 2-hour)*	73			184		
3+ % Carpools in GP for peak hour	0.63%			1.41%		
3+ % Carpools in GP for peak 2-hour	0.66%			1.38%		
<b>Occupancy (Peak Hour)</b>						
Express Lane Occupancy	1.90			1.90		
General Purpose Lane Occupancy	1.12			1.15		
Equivalent Number of General Purpose Lanes Needed to Carry Express Lane People	3.75			2.19		

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the Express Lane.

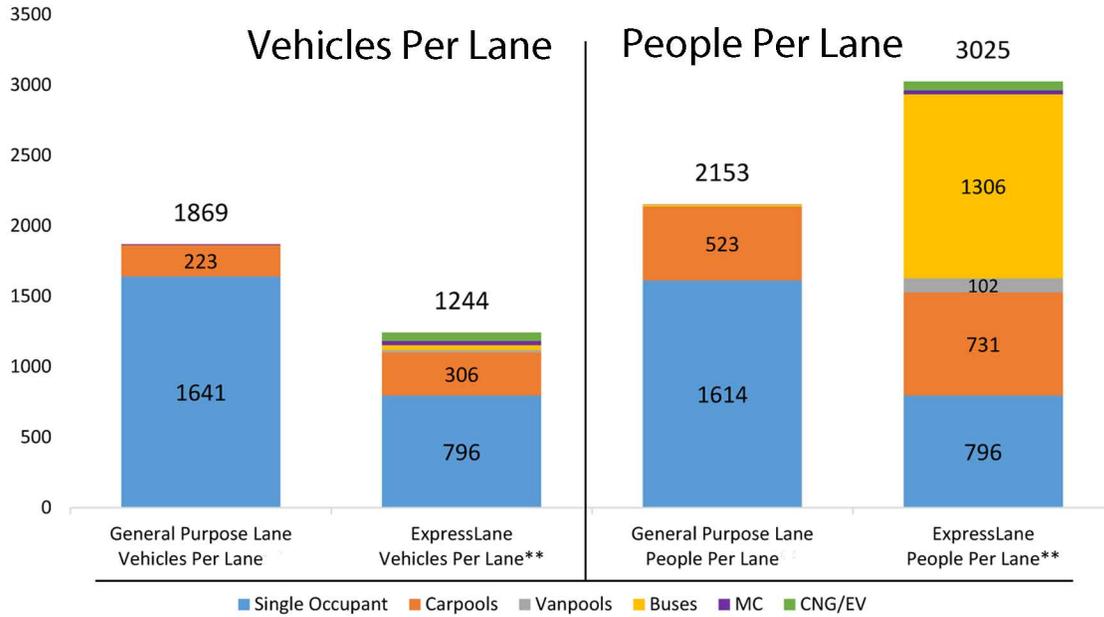
\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

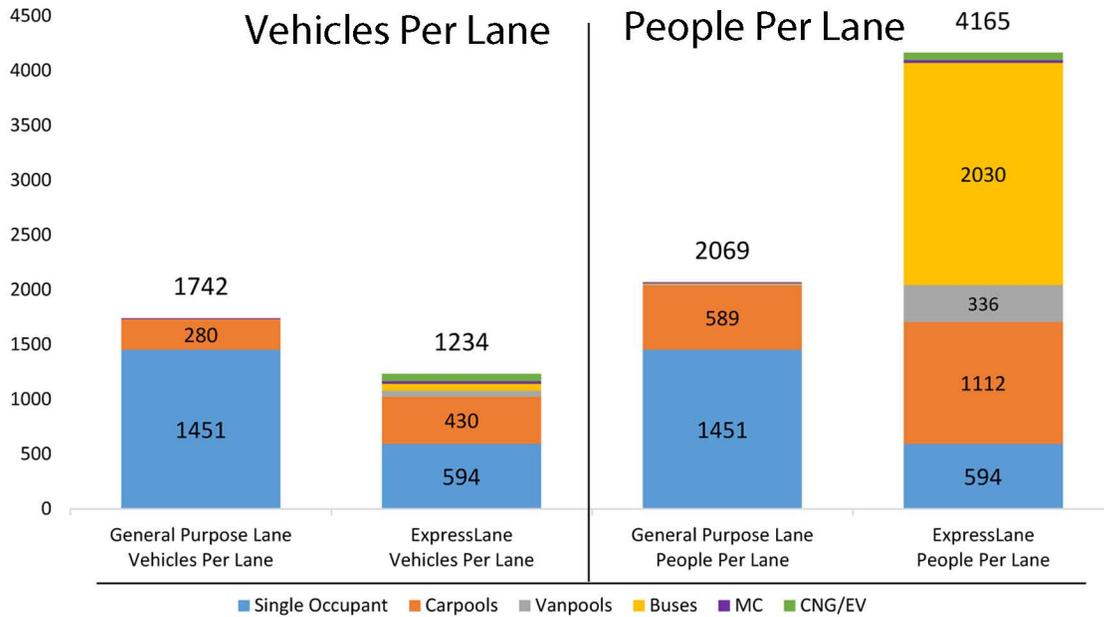
\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

Note: Two (2) Express Lanes at this count location (each direction). Volume shown is for 2-lanes.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-10-W/B at Warwick Rd (Postmile 21.86)  
 Date/Time: 6-3-2015 / 6:30 AM - 7:30 AM



Location: LA-10-E/B at Warwick Rd (Postmile 21.86)  
 Date/Time: 4-28-2015 / 4:45 PM - 5:45 PM

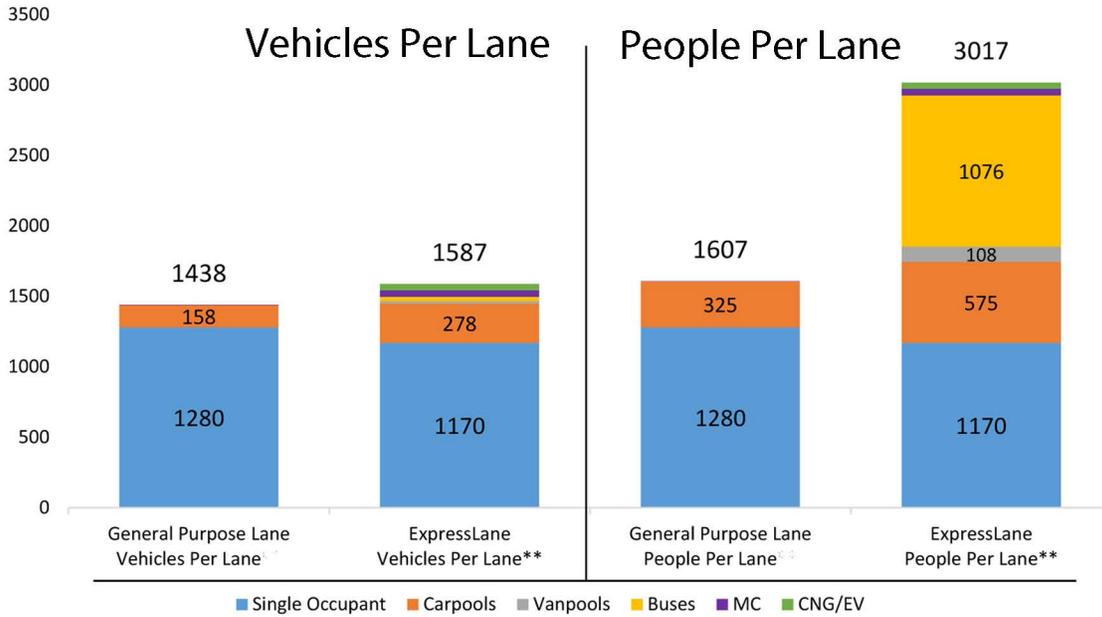
\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

\*\* Two (2) Express Lanes (each direction) at this count location. Data shown represents equivalent volume on one (1) Express Lane.

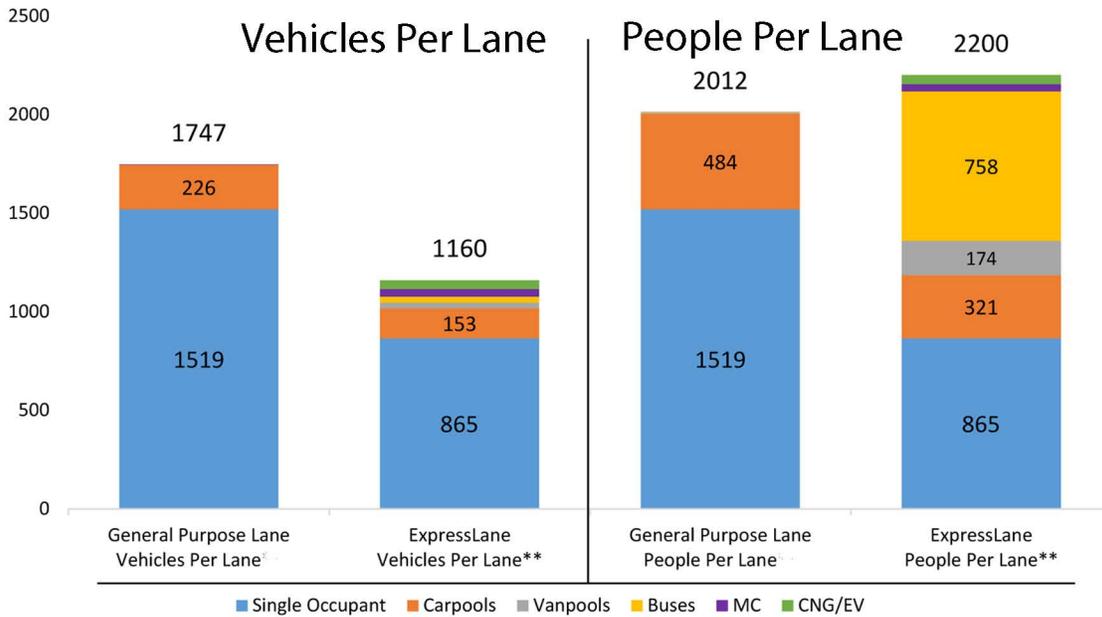
Note 1: Time indicated is for the Express Lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-10-W/B at Jackson Ave (Postmile 25.09)  
 Date/Time: 4-29-2015 / 6:30 AM - 7:30 AM



Location: LA-10-E/B at Jackson Ave (Postmile 25.09)  
 Date/Time: 4-29-2015 / 4:30 PM - 5:30 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

\*\* Two (2) Express Lanes (each direction) at this count location. Data shown represents equivalent volume on one (1) Express Lane.

Note 1: Time indicated is for the Express Lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

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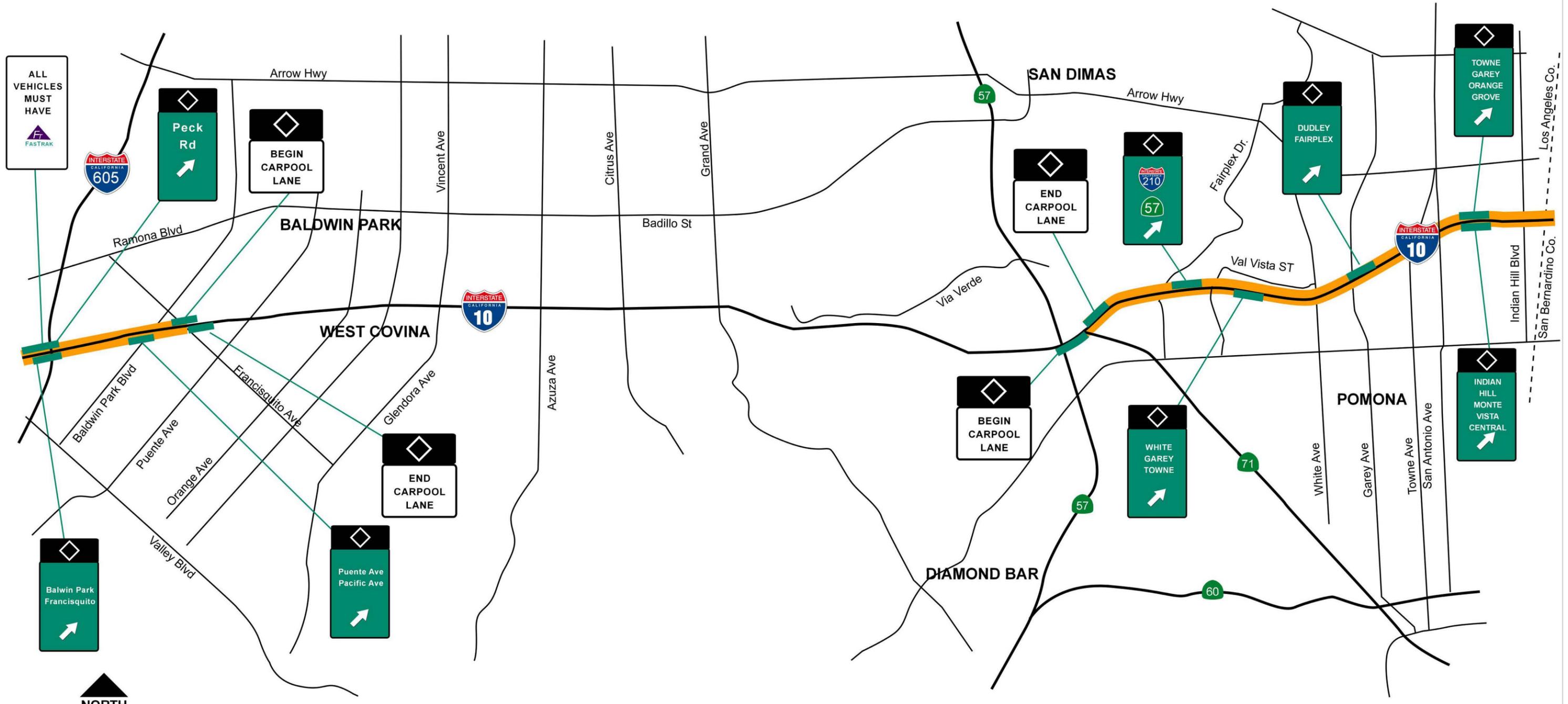
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# SAN BERNARDINO FREEWAY HOV LANE

## San Gabriel River Freeway (Rte 605) to Puente Ave and Orange Freeway (Rte 57) to San Bernardino County Line



ALL VEHICLES MUST HAVE  

 FASTRAK



California Department of Transportation: District 7 Los Angeles and Ventura Counties

NO SCALE



10\_HOV. 10/14/15



# FACT SHEET

## ROUTE 14 ANTELOPE VALLEY FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Golden State Freeway (Route 5) to Palmdale Blvd	R24.99 / R60.07	35.8 lane-miles (Northbound)
Avenue P-8 to Golden State Freeway (Route 5)	R60.65 / R24.99	<u>36.4 lane-miles (Southbound)</u>
		<b>72.2 lane-miles (Total)</b>

### Project Limits:

Route 5 HOV lane direct connector  
 Route 5 to San Fernando Rd (Newhall Ave)  
 San Fernando (Newhall Ave) Rd to Sand Canyon Rd  
 Sand Canyon Rd to Escondido Canyon Rd  
 Escondido Canyon Rd to Pearblossom Hwy  
 Pearblossom Hwy to Palmdale Blvd (N/B) / Avenue P-8 (S/B)

### Date of Opening:

December 2012  
 August 2002  
 May 1998  
 September 1999  
 July 2002  
 August 2006

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Golden Valley Rd	R29.68	Southbound	4/22/2015	6:30 – 7:30 A.M.	1261 vehicles
Golden Valley Rd	R29.68	Northbound	4/22/2015	4:15 – 5:15 P.M.	1416 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
Newhall – East Lot	14	27.1	20100 W San Fernando	Santa Clarita
Newhall – West Lot	14	27.1	20516 W San Fernando	Santa Clarita
Golden Valley (3 sections)	14	29.5	Rte 14 at Golden Valley Rd	Santa Clarita
Pearblossom	14	54.2	Rte 14 at Sierra Hwy	LA Co, Acton
Ave S & Geiger Ave	14	58.2	Ave S & Geiger St	Palmdale
Ave K @ Route 14	14	66.7	1601 W Ave K at Rte 14	Lancaster

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Northbound	15	See Antelope Valley Freeway HOV Lane map (attached)
Southbound	17	See Antelope Valley Freeway HOV Lane map (attached)

### HOV Lane Direct Connectors:

- High Occupancy Vehicle (HOV) lane direct connector at Route 5/14 interchange.
- Northbound Route 5 to northbound Route 14
  - Southbound Route 14 to southbound Route 5

### Additional Information:

Assembly Bill 1871 (AB 1871). Effective January 1, 2001, an 18-month demonstration project to evaluate part-time use of the HOV lanes on Route 14 between Santa Clarita and Palmdale. This project requires two (2+) or more persons per vehicle in the HOV lanes during peak periods (southbound direction, 5-9a.m.; northbound direction, 3-7p.m., Monday - Friday). Solo drivers are allowed to use the HOV lanes at all other times. The double-yellow buffer lines will remain throughout the demonstration, and users still need to observe the designated openings for entering and exiting the HOV lanes. Some of the openings (ingress/egress locations) were lengthened in April 2001 to provide more access on the steep uphill grades of the facility. FHWA has agreed with the recommendation of Caltrans to continue with the part-time operation of HOV lanes on Route 14 until such time as needed to convert to full-time.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 14**

Co. Rte. Dir.	LA 14 SB	LA 14 NB		
Location	GOLDEN VALLEY	GOLDEN VALLEY		
Post Mile	29.68	29.68		
Date	04/22/15	04/22/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b>	<b>AM HOV</b>		
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>		
	6:30 - 7:30	6:30-8:30		
	<b>PM HOV</b>	<b>PM HOV</b>		
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>		
	16:15 - 17:15	16:00-18:00		
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	1157	2024	1263	2514
Vanpools	18	19	83	137
Buses	8	10	6	11
Motorcycles	28	46	32	64
Single Occupant Vehicles	26	35	14	25
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	24	46	18	40
<b>Total Vehicles in HOV Lane</b>	<b>1261</b>	<b>2180</b>	<b>1416</b>	<b>2791</b>
2+ Carpool volume in HOV Lane*	1175	2043	1346	2651
3+ Carpool volume in HOV Lane*	57	86	148	256
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2357	4123	2597	5158
People in Vanpools	108	114	498	822
People in Buses	190	210	80	190
People in CNG/EV, Single Occ. Veh. and Motorcycles	78	127	64	129
<b>Total HOV Lane People</b>	<b>2733</b>	<b>4574</b>	<b>3239</b>	<b>6299</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	3		3	
General Purpose Lane Vehicles**	4554	8518	4955	9695
<b>General Purpose Vehicles/Lane**</b>	<b>1518</b>	<b>2839</b>	<b>1652</b>	<b>3232</b>
General Purpose Lane People**	4823	9031	5303	10398
<b>General Purpose People/Lane**</b>	<b>1608</b>	<b>3010</b>	<b>1768</b>	<b>3466</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	5815	10698	6371	12486
Total Freeway People	7556	13605	8542	16697
% Freeway People in HOV Lane	36.17%	33.62%	37.92%	37.73%
% Freeway People per General Purpose Lane	21.28%	22.13%	20.69%	20.76%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	241		320	
2+ Carpool volume in GP (peak 2-hour)*	465		636	
2+ % Carpools in GP for peak hour	5.30%		6.46%	
2+ % Carpools in GP for peak 2-hour	5.46%		6.56%	
3+ Carpool volume peak in GP (peak hour)*	16		13	
3+ Carpool volume in GP (peak 2-hour)*	19		36	
3+ % Carpools in GP for peak hour	0.36%		0.25%	
3+ % Carpools in GP for peak 2-hour	0.22%		0.37%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.17		2.29	
General Purpose Lane Occupancy	1.06		1.07	
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.70		1.83	

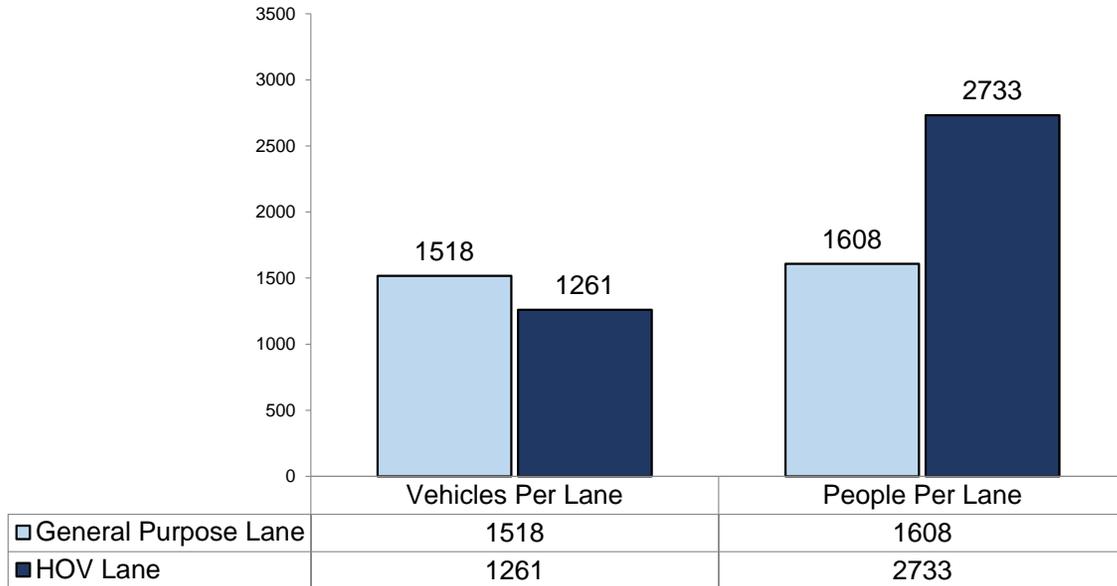
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

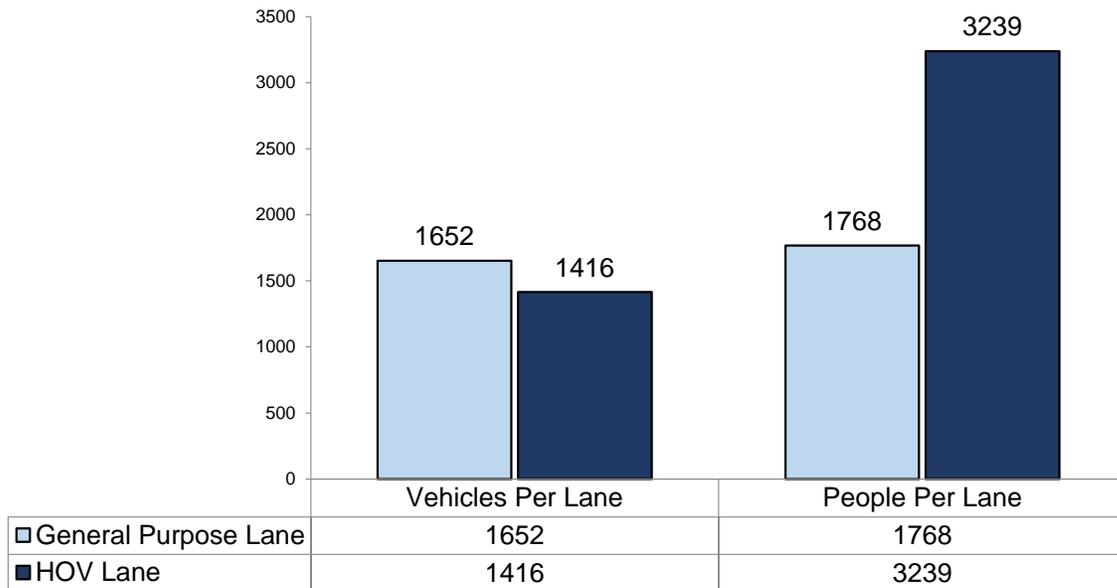
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-14-S/B at Golden Valley Rd (Postmile R29.68)  
 Date/Time: 4-22-2015 / 6:30 AM - 7:30 AM



Location: LA-14-N/B at Golden Valley Rd (Postmile R29.68)  
 Date/Time: 4-22-2015 / 4:15 PM - 5:15 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

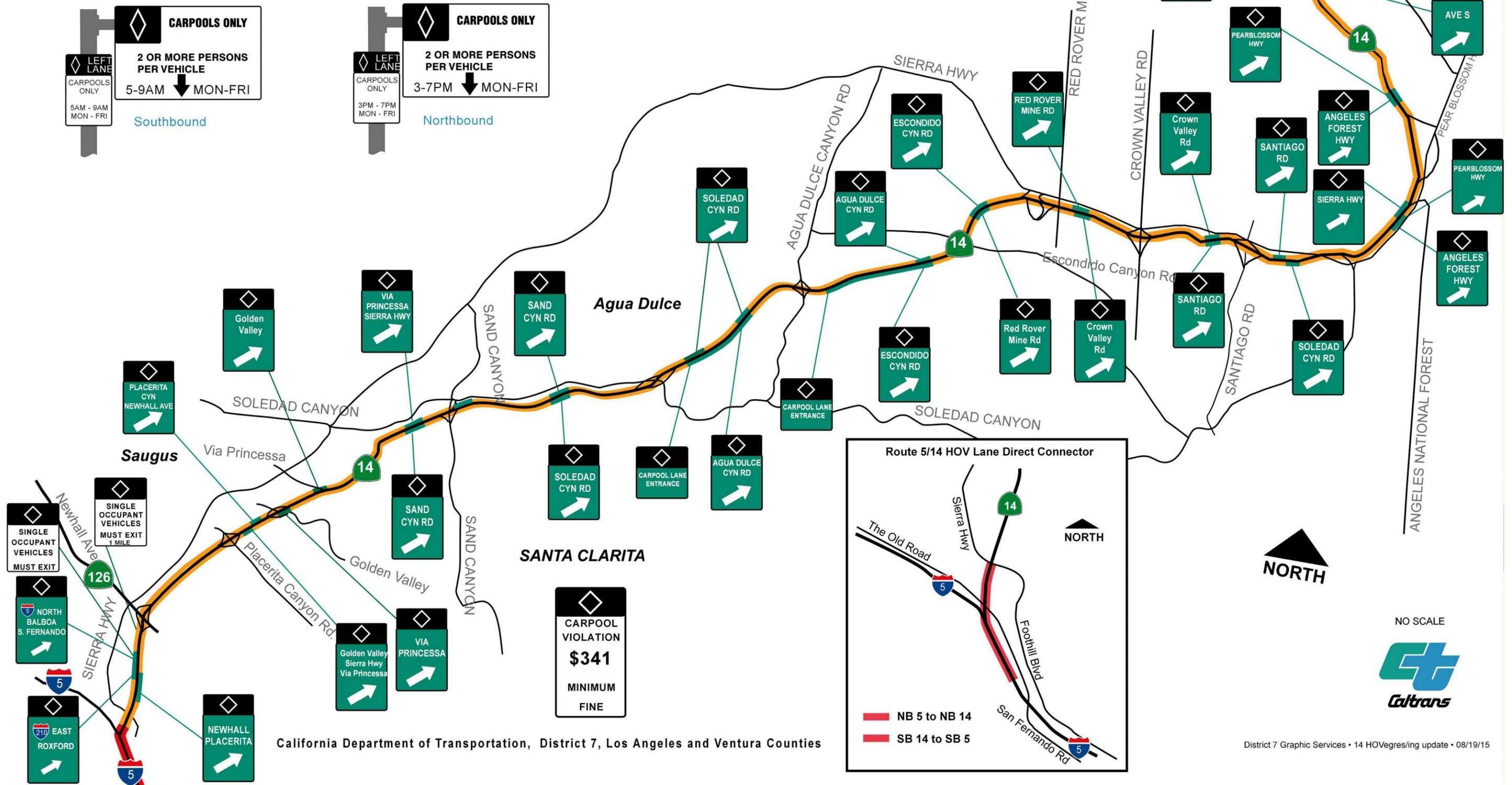
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# ANTELOPE VALLEY FREEWAY HOV LANE

## Golden State Freeway (Rte 5) to Avenue P-8



California Department of Transportation, District 7, Los Angeles and Ventura Counties



# FACT SHEET

## ROUTE 57 ORANGE FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Orange County Line to Pomona Freeway (Route 60)	R0.00 / R4.52	5.4 lane-miles (Northbound)
Pomona Freeway (Route 60) to Orange County Line	R4.52 / R0.00	5.4 lane-miles (Southbound)
		<b>10.8 lane-miles (Total)</b>

### Project Limits:

Orange County Line to Route 57/60 HOV lane direct connector  
Route 57/60 HOV lane direct connector

### Date of Opening:

August 1997  
February 2007

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Pathfinder Rd	3.16	Southbound	6/17/2015	7:00 – 8:00 A.M.	1312 vehicles
Pathfinder Rd	3.16	Northbound	5/5/2015	3:45 – 4:45 P.M.	1319 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
Pathfinder Rd	57	3.2	Pathfinder Rd at Route 57	Diamond Bar
Via Verde	57	8.7	105 Via Verde	San Dimas

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Northbound	3	See Orange Freeway HOV Lane map (attached)
Southbound	4	See Orange Freeway HOV Lane map (attached)

### HOV Lane Direct Connectors:

- High Occupancy Vehicle (HOV) lane direct connector at Route 57/60 interchange.
- Northbound Route 57 to eastbound Route 60
  - Westbound Route 60 to southbound Route 57

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 57**

Co. Rte. Dir.	LA 57 SB	LA 57 NB
Location	PATHFINDER	PATHFINDER
Post Mile	3.16	3.16
Date	06/17/15	05/05/15
Occupancy Requirement	2 +	2 +
	<b>AM HOV</b>	<b>AM HOV</b>
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>
	7:00 - 8:00	6:30-8:30
	<b>PM HOV</b>	<b>PM HOV</b>
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>
	15:45 - 16:45	16:00-18:00
<b>HOV Lane Vehicle Summary</b>		
Carpools (Vehicles with 2-5 occupants only)	1152	2228
Vanpools	15	22
Buses	2	2
Motorcycles	52	96
Single Occupant Vehicles	1	3
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	90	169
<b>Total Vehicles in HOV Lane</b>	<b>1312</b>	<b>2520</b>
2+ Carpool volume in HOV Lane*	1167	2250
3+ Carpool volume in HOV Lane*	75	147
<b>HOV Lane People Summary</b>		
People in Carpools (Vehicles with 2-5 occupants only)	2371	4594
People in Vanpools	90	132
People in Buses	20	20
People in CNG/EV, Single Occ. Veh. and Motorcycles	143	268
<b>Total HOV Lane People</b>	<b>2624</b>	<b>5014</b>
<b>General Purpose Lane Summary</b>		
Number of General Purpose Lanes	4	4
General Purpose Lane Vehicles**	5299	10070
<b>General Purpose Vehicles/Lane**</b>	<b>1325</b>	<b>2518</b>
General Purpose Lane People**	5769	11005
<b>General Purpose People/Lane**</b>	<b>1442</b>	<b>2751</b>
<b>Freeway Summary</b>		
Total Freeway Vehicles	6611	12590
Total Freeway People	8393	16019
% Freeway People in HOV Lane	31.27%	31.30%
% Freeway People per General Purpose Lane	17.18%	17.17%
<b>General Purpose Lane Carpool Summary</b>		
2+ Carpool volume in GP (peak hour)*	415	203
2+ Carpool volume in GP (peak 2-hour)*	725	370
2+ % Carpools in GP for peak hour	7.83%	4.95%
2+ % Carpools in GP for peak 2-hour	7.20%	4.58%
3+ Carpool volume peak in GP (peak hour)*	40	18
3+ Carpool volume in GP (peak 2-hour)*	95	30
3+ % Carpools in GP for peak hour	0.75%	0.43%
3+ % Carpools in GP for peak 2-hour	0.94%	0.37%
<b>Occupancy (Peak Hour)</b>		
HOV Lane Occupancy	2.00	2.05
General Purpose Lane Occupancy	1.09	1.06
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.82	2.51

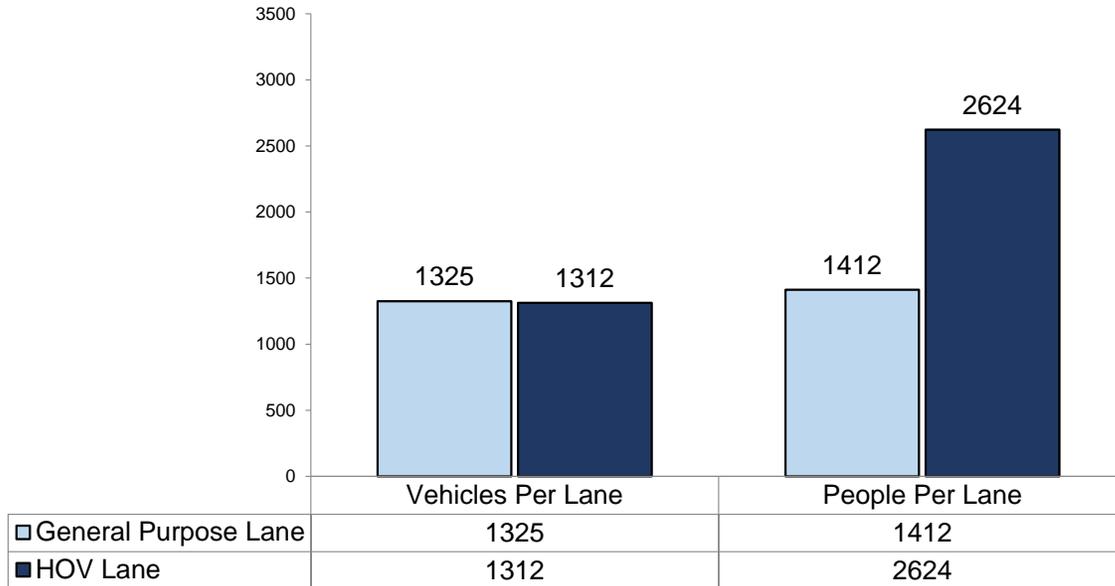
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

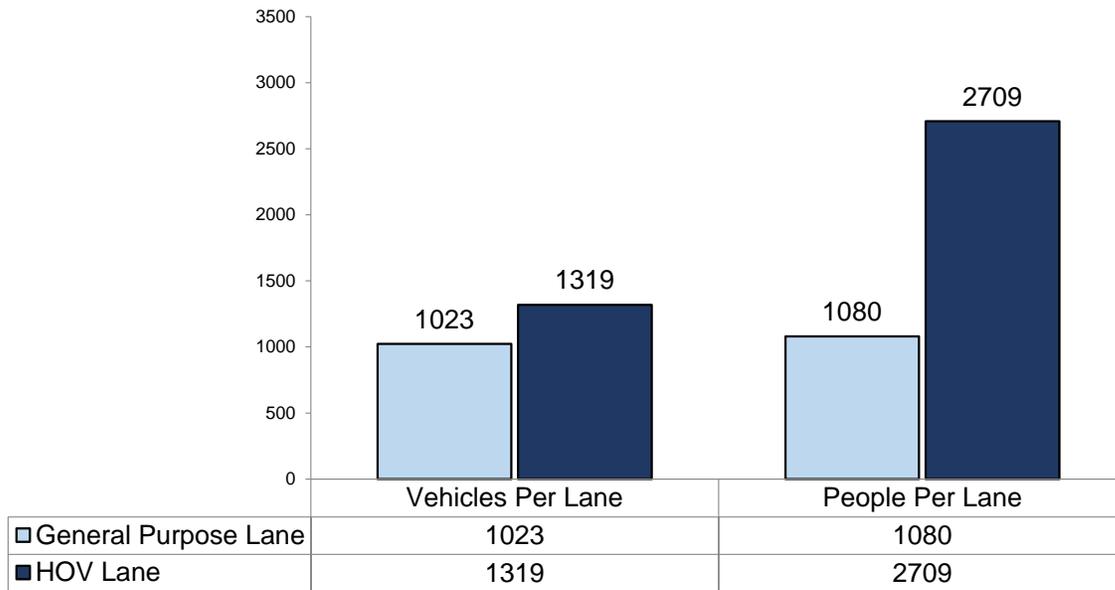
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-57-S/B at Pathfinder Rd (Postmile 3.16)  
 Date/Time: 6-17-2015 / 7:00 AM - 8:00 AM



Location: LA-57-N/B at Pathfinder Rd (Postmile 3.16)  
 Date/Time: 5-5-2015 / 3:45 PM - 4:45 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.  
 Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.  
 Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

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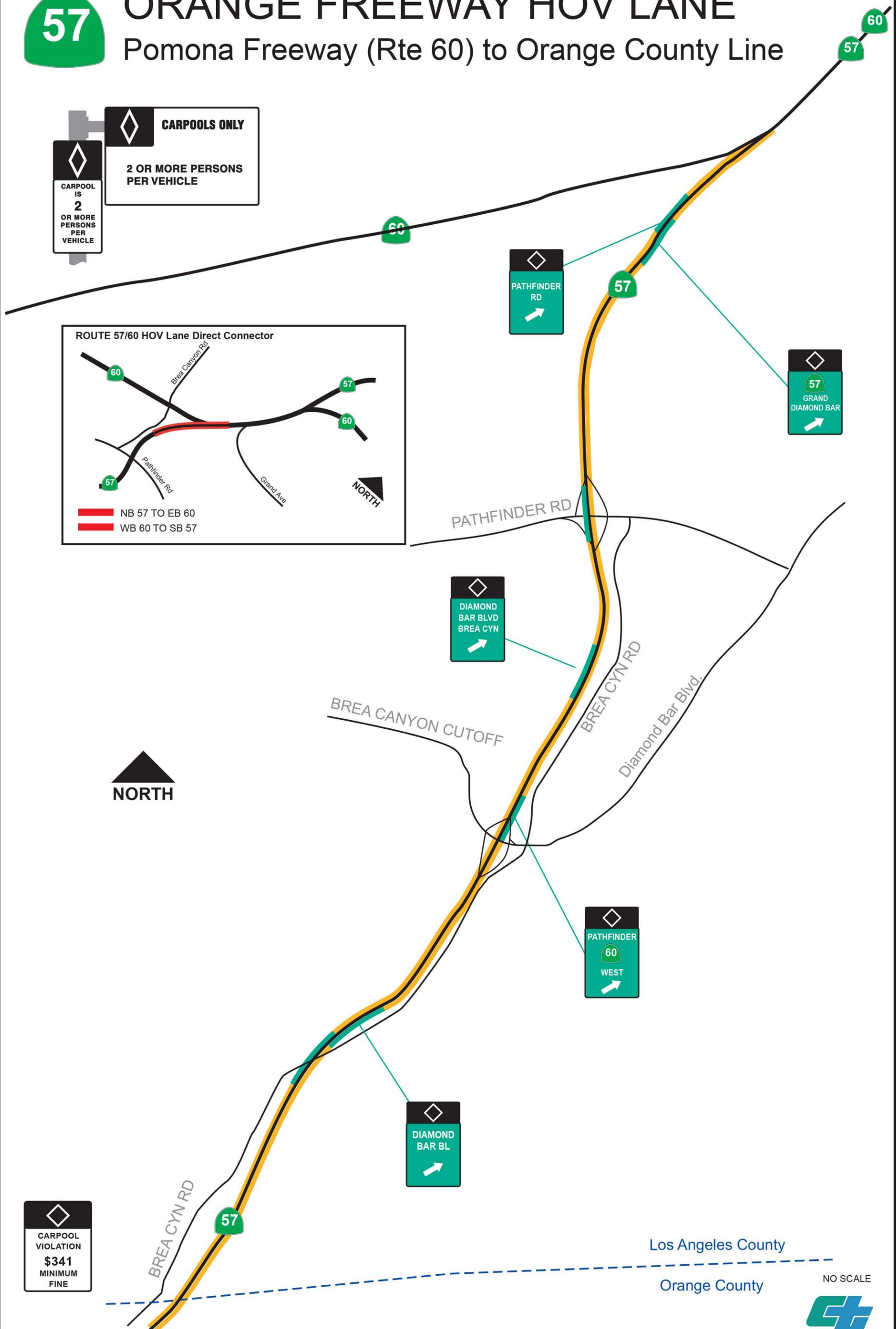
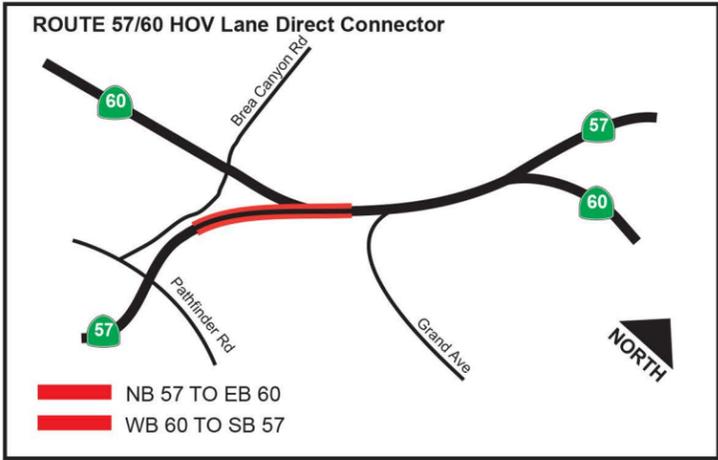
# ORANGE FREEWAY HOV LANE

## Pomona Freeway (Rte 60) to Orange County Line

**CARPOOLS ONLY**

**2 OR MORE PERSONS PER VEHICLE**

CARPOOL IS **2** OR MORE PERSONS PER VEHICLE



**CARPOOL VIOLATION**

**\$341**

MINIMUM FINE

Los Angeles County

Orange County

NO SCALE





# FACT SHEET

## ROUTE 60 POMONA FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
San Gabriel River Freeway (Route 605) to San Bernardino Co Line	11.79 / R30.456	18.7 lane-miles (E/B)
San Bernardino County Line to 0.4 mi west of 7 <sup>th</sup> Ave	R30.456 / 13.82	16.6 lane-miles (W/B)
		<b>35.3 lane-miles (Total)</b>

### Project Limits:

Route 605 (E/B) / 0.4 mi west of 7<sup>th</sup> Ave (W/B) to Brea Canyon Rd  
 Brea Canyon Rd to Route 57 North  
 Route 57 North to San Bernardino County Line

### Date of Opening:

Sept 2010 (E/B) / Oct 2010 (W/B)  
 February 1999  
 February 1999

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Barford Ave	16.54	Westbound	4/16/2015	6:30 – 7:30 A.M.	1262 vehicles
Barford Ave	16.54	Eastbound	4/16/2015	4:00 – 5:00 P.M.	1182 vehicles
Phillips Ranch Rd	R28.04	Westbound	4/15/2015	7:30 – 8:30 A.M.	1412 vehicles
Phillips Ranch Rd	R28.04	Eastbound	4/15/2015	4:45 – 5:45 P.M.	1339 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
United Methodist Church*	60	22.8	20601 La Puente	Walnut, 91788
Diamond Bar – East	60	25.6	100 N Diamond Bar Blvd	Diamond Bar
Diamond Bar – West	60	25.6	101 N Diamond Bar Blvd	Diamond Bar

\*privately owned lot

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Eastbound	8	See Pomona Freeway HOV Lane map (attached)
Westbound	8	See Pomona Freeway HOV Lane map (attached)

### HOV Lane Direct Connectors:

- High Occupancy Vehicle (HOV) lane direct connector at Route 57/60 interchange.
- Northbound Route 57 to eastbound Route 60
  - Westbound Route 60 to southbound Route 57

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 60**

Co. Rte. Dir. Location Post Mile Date Occupancy Requirement	LA 60 WB		LA 60 EB	
	BARFORD		BARFORD	
	16.54		16.54	
	04/16/15		04/16/15	
	2 +		2 +	
	AM HOV Peak 1-Hour 6:30 - 7:30	AM HOV Peak 2-Hour 6:30-8:30	PM HOV Peak 1-Hour 16:00 - 17:00	PM HOV Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	1078	1958	1072	2056
Vanpools	9	11	24	53
Buses	13	27	4	14
Motorcycles	29	54	30	71
Single Occupant Vehicles	33	64	8	14
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	100	195	44	121
<b>Total Vehicles in HOV Lane</b>	<b>1262</b>	<b>2309</b>	<b>1182</b>	<b>2329</b>
2+ Carpool volume in HOV Lane*	1087	1969	1097	2110
3+ Carpool volume in HOV Lane*	58	102	122	217
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2208	4014	2255	4299
People in Vanpools	54	66	144	318
People in Buses	300	680	80	380
People in CNG/EV, Single Occ. Veh. and Motorcycles	162	313	82	206
<b>Total HOV Lane People</b>	<b>2724</b>	<b>5073</b>	<b>2561</b>	<b>5203</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	4909	8716	4719	9364
<b>General Purpose Vehicles/Lane**</b>	<b>1227</b>	<b>2179</b>	<b>1180</b>	<b>2341</b>
General Purpose Lane People**	5195	9295	5033	9978
<b>General Purpose People/Lane**</b>	<b>1299</b>	<b>2324</b>	<b>1258</b>	<b>2494</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	6171	11025	5901	11693
Total Freeway People	7919	14368	7594	15181
% Freeway People in HOV Lane	34.40%	35.31%	33.73%	34.27%
% Freeway People per General Purpose Lane	16.40%	16.17%	16.57%	16.43%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	246		268	
2+ Carpool volume in GP (peak 2-hour)*	438		499	
2+ % Carpools in GP for peak hour	5.02%		5.67%	
2+ % Carpools in GP for peak 2-hour	5.02%		5.33%	
3+ Carpool volume peak in GP (peak hour)*	11		23	
3+ Carpool volume in GP (peak 2-hour)*	28		39	
3+ % Carpools in GP for peak hour	0.23%		0.48%	
3+ % Carpools in GP for peak 2-hour	0.32%		0.41%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.16		2.17	
General Purpose Lane Occupancy	1.06		1.07	
Equivalent Number General Purpose Lanes Needed to carry HOV People	2.10		2.04	

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 60**

Co. Rte. Dir.	LA 60 WB	LA 60 EB		
Location	PHILLIPS RANCH	PHILLIPS RANCH		
Post Mile	28.04	28.04		
Date	04/15/15	04/15/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b>	<b>AM HOV</b>		
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>		
	7:30 - 8:30	6:30-8:30		
	<b>PM HOV</b>	<b>PM HOV</b>		
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>		
	16:45 - 17:45	16:00-18:00		
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	1186	2324	1203	2334
Vanpools	2	8	14	26
Buses	7	13	4	10
Motorcycles	25	62	44	82
Single Occupant Vehicles	181	311	68	112
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	11	34	6	12
<b>Total Vehicles in HOV Lane</b>	<b>1412</b>	<b>2752</b>	<b>1339</b>	<b>2576</b>
2+ Carpool volume in HOV Lane*	1187	2328	1217	2360
3+ Carpool volume in HOV Lane*	65	122	73	176
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2438	4778	2485	4857
People in Vanpools	12	48	84	156
People in Buses	200	410	110	300
People in CNG/EV, Single Occ. Veh. and Motorcycles	217	407	118	206
<b>Total HOV Lane People</b>	<b>2867</b>	<b>5643</b>	<b>2797</b>	<b>5519</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	4590	8859	6098	11935
<b>General Purpose Vehicles/Lane**</b>	<b>1148</b>	<b>2215</b>	<b>1524</b>	<b>2984</b>
General Purpose Lane People**	4800	9340	6808	13141
<b>General Purpose People/Lane**</b>	<b>1200</b>	<b>2335</b>	<b>1702</b>	<b>3285</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	6002	11611	7437	14511
Total Freeway People	7667	14983	9605	18660
% Freeway People in HOV Lane	37.39%	37.66%	29.12%	29.58%
% Freeway People per General Purpose Lane	15.65%	15.58%	17.72%	17.61%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	200		503	
2+ Carpool volume in GP (peak 2-hour)*	445		885	
2+ % Carpools in GP for peak hour	4.36%		8.24%	
2+ % Carpools in GP for peak 2-hour	5.02%		7.42%	
3+ Carpool volume peak in GP (peak hour)*	10		53	
3+ Carpool volume in GP (peak 2-hour)*	25		80	
3+ % Carpools in GP for peak hour	0.22%		0.86%	
3+ % Carpools in GP for peak 2-hour	0.28%		0.67%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.03		2.09	
General Purpose Lane Occupancy	1.05		1.12	
Equivalent Number General Purpose Lanes Needed to carry HOV People	2.39		1.64	

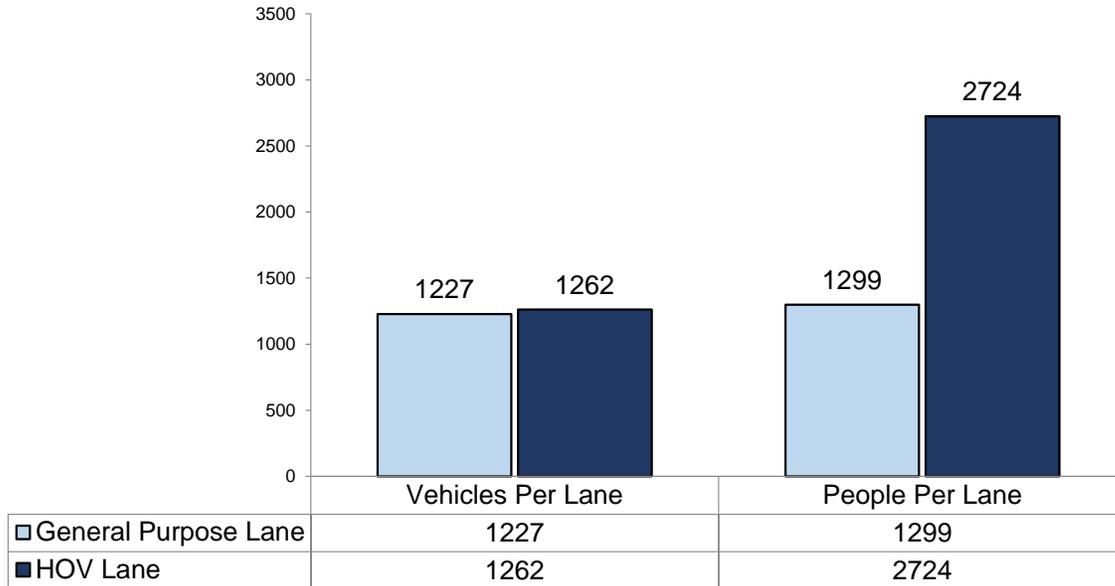
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

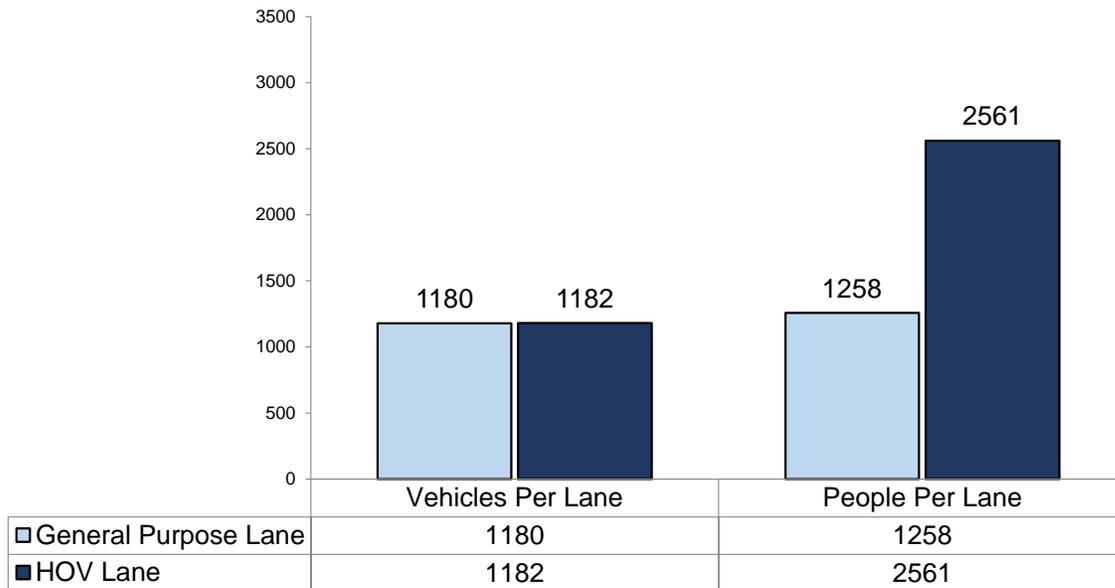
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-60-W/B at Barford Ave (Postmile 16.54)  
 Date/Time: 4-16-2015 / 6:30 AM - 7:30 AM



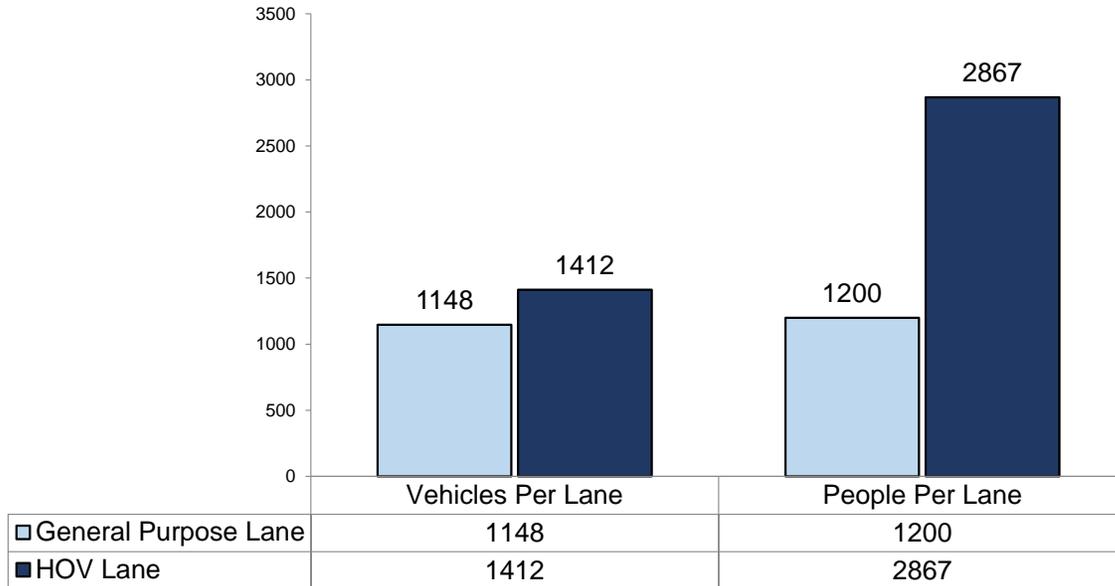
Location: LA-60-E/B at Barford Ave (Postmile 16.54)  
 Date/Time: 4-16-2015 / 4:00 PM - 5:00 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

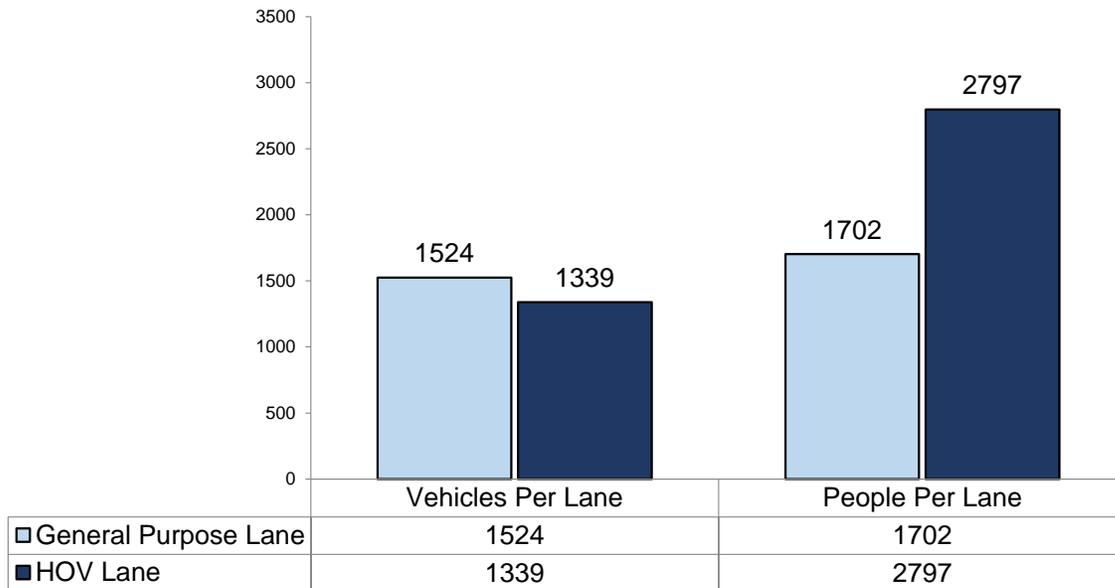
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-60-W/B at Phillips Ranch Rd (Postmile R28.04)  
 Date/Time: 4-15-2015 / 7:30 AM - 8:30 AM



Location: LA-60-E/B at Phillips Ranch Rd (Postmile R28.04)  
 Date/Time: 4-15-2015 / 4:45 PM - 5:45 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

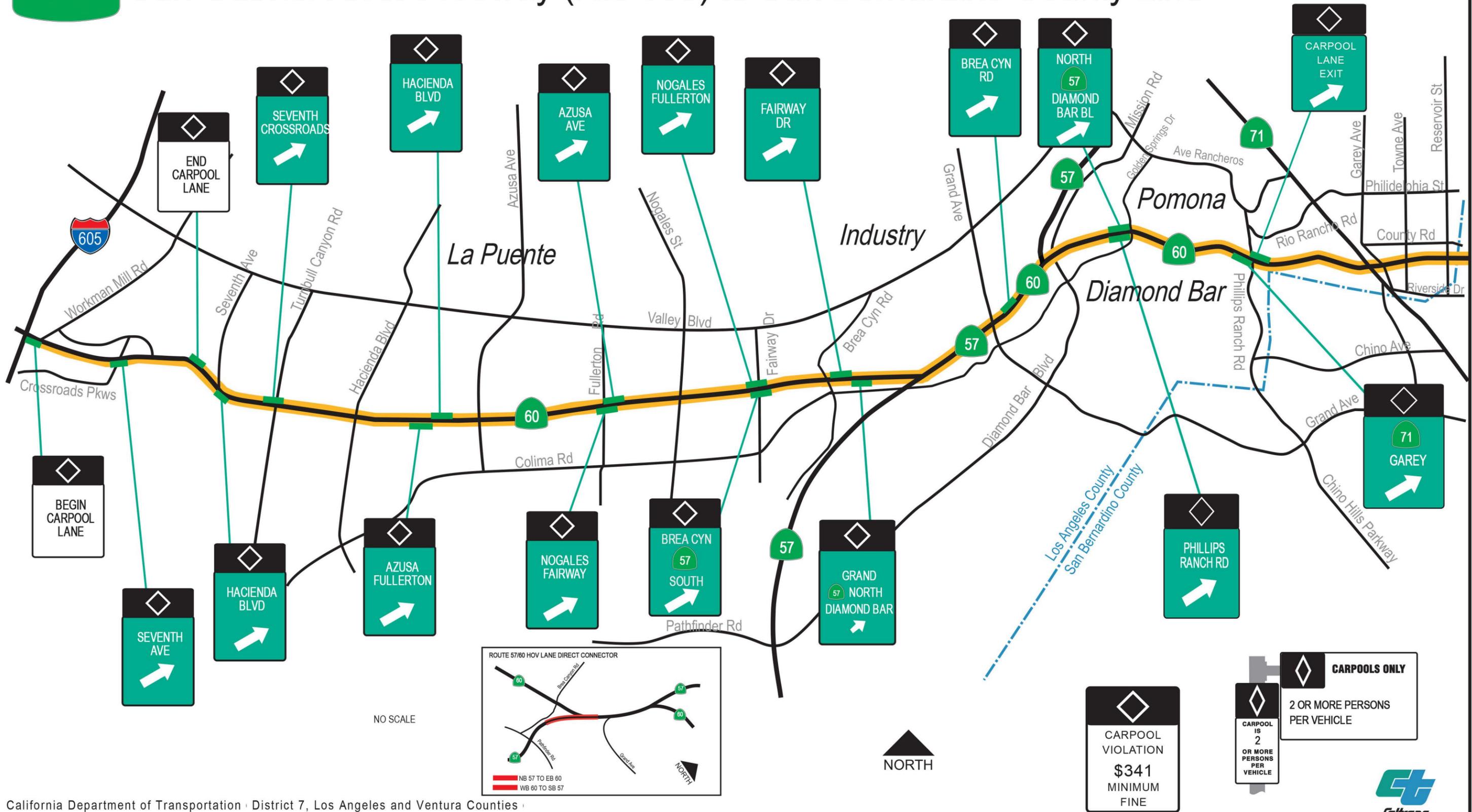
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# POMONA FREEWAY HOV LANE

## San Gabriel River Freeway (Rte 605) to San Bernardino County Line





# FACT SHEET

## ROUTE 91 ARTESIA FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Harbor Freeway (Route 110) to Orange County Line	R6.55 / R20.741	14.2 lane-miles (Eastbound)
Orange County Line to Central Ave	R20.741 / R8.53	12.2 lane-miles (Westbound)
		<b>26.4 lane-miles (Total)</b>

### Project Limits:

Route 110 to Route 605 (Eastbound)  
 Route 605 to Central Ave (Westbound)  
 Route 605 to Orange County Line

### Date of Opening:

June 1985  
 March 1993  
 November 1994

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Wilmington Ave	R9.16	Westbound	5/21/2015	6:30 – 7:30 A.M.	1536 vehicles
Wilmington Ave	R9.16	Eastbound	5/21/2015	3:30 – 4:30 P.M.	1414 vehicles
Bloomfield Ave	R19.17	Westbound	4/14/2015	6:30 – 7:30 A.M.	1249 vehicles
Artesia Blvd	R19.43	Eastbound	4/14/2015	4:15 – 5:15 P.M.	1416 vehicles

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Eastbound	5	See Golden State Freeway HOV Lane map (attached)
Westbound	6	See Golden State Freeway HOV Lane map (attached)

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 91**

Co. Rte. Dir. Location Post Mile Date Occupancy Requirement	LA	91	WB	LA	91	EB
	WILMINGTON			WILMINGTON		
	9.16			9.16		
	05/21/15			05/21/15		
	2 +			2 +		
	AM HOV Peak 1-Hour 6:30 - 7:30	AM HOV Peak 2-Hour 6:30-8:30	PM HOV Peak 1-Hour 15:30 - 16:30	PM HOV Peak 2-Hour 16:00-18:00		
<b>HOV Lane Vehicle Summary</b>						
Carpools (Vehicles with 2-5 occupants only)	1256	2308	1186	2258		
Vanpools	6	18	36	83		
Buses	3	9	8	17		
Motorcycles	29	63	35	77		
Single Occupant Vehicles	105	191	77	118		
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	137	277	72	213		
<b>Total Vehicles in HOV Lane</b>	<b>1536</b>	<b>2866</b>	<b>1414</b>	<b>2766</b>		
2+ Carpool volume in HOV Lane*	1262	2326	1222	2341		
3+ Carpool volume in HOV Lane*	53	112	149	252		
<b>HOV Lane People Summary</b>						
People in Carpools (Vehicles with 2-5 occupants only)	2564	4727	2511	4722		
People in Vanpools	36	108	216	498		
People in Buses	12	40	94	470		
People in CNG/EV, Single Occ. Veh. and Motorcycles	271	531	184	408		
<b>Total HOV Lane People</b>	<b>2883</b>	<b>5406</b>	<b>3005</b>	<b>6098</b>		
<b>General Purpose Lane Summary</b>						
Number of General Purpose Lanes	4		4			
General Purpose Lane Vehicles**	6900	13424	4958	9868		
<b>General Purpose Vehicles/Lane**</b>	<b>1725</b>	<b>3356</b>	<b>1239</b>	<b>2467</b>		
General Purpose Lane People**	7255	14109	5419	10825		
<b>General Purpose People/Lane**</b>	<b>1814</b>	<b>3527</b>	<b>1355</b>	<b>2706</b>		
<b>Freeway Summary</b>						
Total Freeway Vehicles	8436	16290	6372	12634		
Total Freeway People	10138	19515	8424	16923		
% Freeway People in HOV Lane	28.44%	27.70%	35.67%	36.03%		
% Freeway People per General Purpose Lane	17.89%	18.07%	16.08%	15.99%		
<b>General Purpose Lane Carpool Summary</b>						
2+ Carpool volume in GP (peak hour)*	330		411			
2+ Carpool volume in GP (peak 2-hour)*	645		838			
2+ % Carpools in GP for peak hour	4.78%		8.30%			
2+ % Carpools in GP for peak 2-hour	4.80%		8.49%			
3+ Carpool volume peak in GP (peak hour)*	20		36			
3+ Carpool volume in GP (peak 2-hour)*	30		83			
3+ % Carpools in GP for peak hour	0.29%		0.73%			
3+ % Carpools in GP for peak 2-hour	0.22%		0.84%			
<b>Occupancy (Peak Hour)</b>						
HOV Lane Occupancy	1.88		2.13			
General Purpose Lane Occupancy	1.05		1.09			
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.59		2.22			

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 91**

Co. Rte. Dir. Location Post Mile Date Occupancy Requirement	LA	91	WB	LA	91	EB
	BLOOMFIELD			ARTESIA		
	19.17			19.43		
	04/14/15			04/14/15		
	2 +			2 +		
	AM HOV	AM HOV	AM HOV	PM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour	Peak 2-Hour
	6:30 - 7:30	6:30-8:30	6:30-8:30	16:15 - 17:15	16:00-18:00	16:00-18:00
<b>HOV Lane Vehicle Summary</b>						
Carpools (Vehicles with 2-5 occupants only)	1025	2026	2026	1166	2262	2262
Vanpools	26	38	38	58	99	99
Buses	13	18	18	6	13	13
Motorcycles	46	84	84	50	91	91
Single Occupant Vehicles	10	17	17	15	36	36
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	129	303	303	121	242	242
<b>Total Vehicles in HOV Lane</b>	<b>1249</b>	<b>2486</b>	<b>2486</b>	<b>1416</b>	<b>2743</b>	<b>2743</b>
2+ Carpool volume in HOV Lane*	1051	2064	2064	1224	2361	2361
3+ Carpool volume in HOV Lane*	111	184	184	120	220	220
<b>HOV Lane People Summary</b>						
People in Carpools (Vehicles with 2-5 occupants only)	2139	4204	4204	2401	4656	4656
People in Vanpools	156	228	228	348	594	594
People in Buses	201	260	260	130	290	290
People in CNG/EV, Single Occ. Veh. and Motorcycles	185	404	404	186	369	369
<b>Total HOV Lane People</b>	<b>2681</b>	<b>5096</b>	<b>5096</b>	<b>3065</b>	<b>5909</b>	<b>5909</b>
<b>General Purpose Lane Summary</b>						
Number of General Purpose Lanes	4			4		
General Purpose Lane Vehicles**	6106	11849	11849	6223	11994	11994
<b>General Purpose Vehicles/Lane**</b>	<b>1527</b>	<b>2962</b>	<b>2962</b>	<b>1556</b>	<b>2998</b>	<b>2998</b>
General Purpose Lane People**	6576	12761	12761	6893	13135	13135
<b>General Purpose People/Lane**</b>	<b>1644</b>	<b>3190</b>	<b>3190</b>	<b>1723</b>	<b>3284</b>	<b>3284</b>
<b>Freeway Summary</b>						
Total Freeway Vehicles	7355	14335	14335	7639	14737	14737
Total Freeway People	9257	17857	17857	9958	19044	19044
% Freeway People in HOV Lane	28.96%	28.54%	28.54%	30.78%	31.03%	31.03%
% Freeway People per General Purpose Lane	17.76%	17.87%	17.87%	17.30%	17.24%	17.24%
<b>General Purpose Lane Carpool Summary</b>						
2+ Carpool volume in GP (peak hour)*	368			445		
2+ Carpool volume in GP (peak 2-hour)*	765			795		
2+ % Carpools in GP for peak hour	6.02%			7.15%		
2+ % Carpools in GP for peak 2-hour	6.46%			6.63%		
3+ Carpool volume peak in GP (peak hour)*	28			35		
3+ Carpool volume in GP (peak 2-hour)*	55			110		
3+ % Carpools in GP for peak hour	0.45%			0.56%		
3+ % Carpools in GP for peak 2-hour	0.46%			0.92%		
<b>Occupancy (Peak Hour)</b>						
HOV Lane Occupancy	2.15			2.16		
General Purpose Lane Occupancy	1.08			1.11		
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.63			1.78		

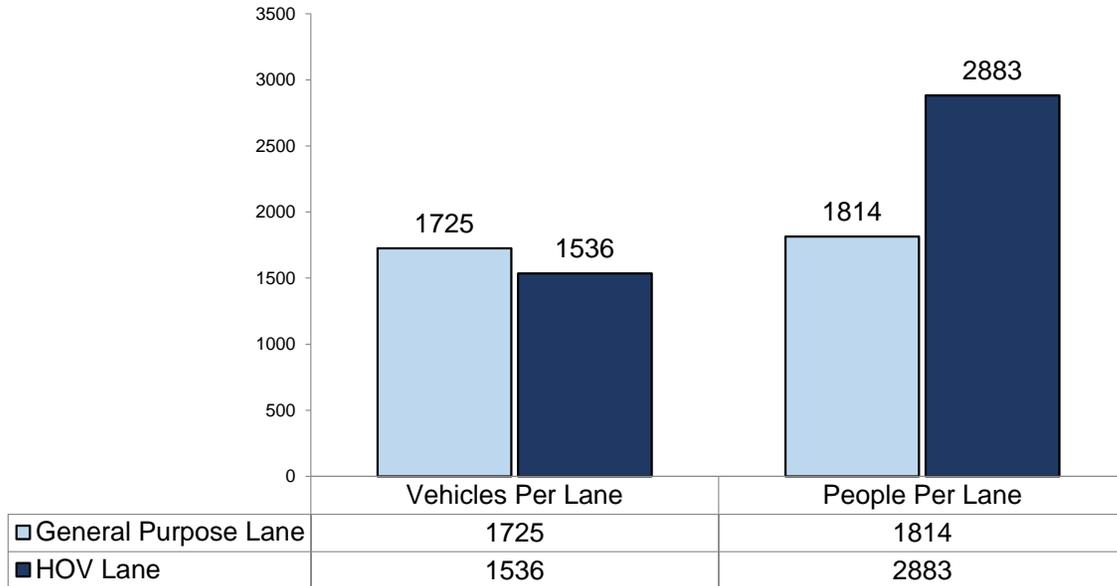
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

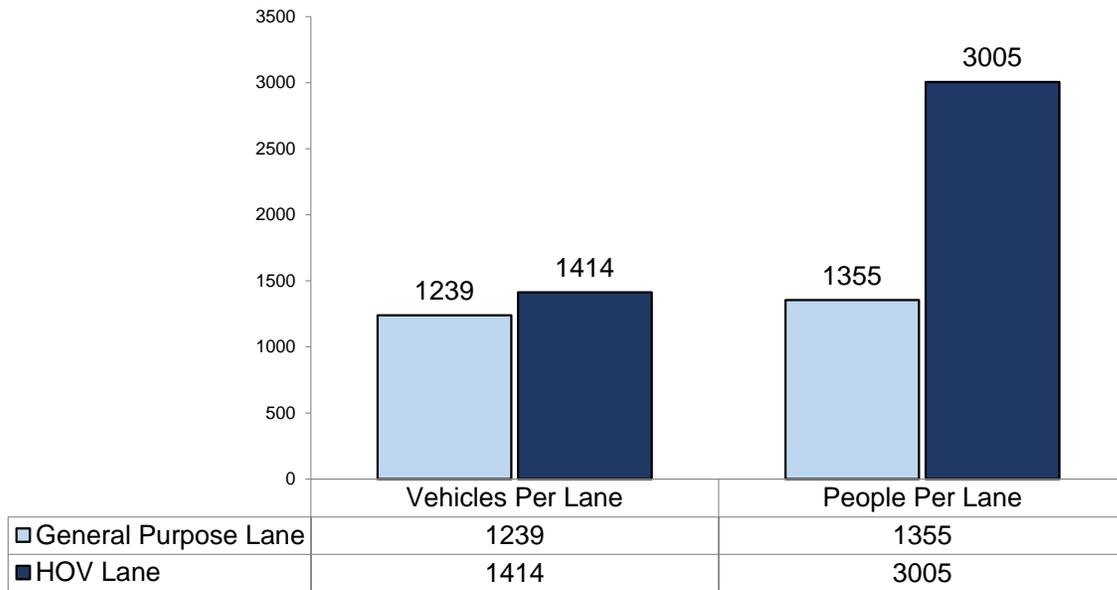
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-91-W/B at Wilmington Ave (Postmile R9.16)  
 Date/Time: 5-21-2015 / 6:30 AM - 7:30 AM



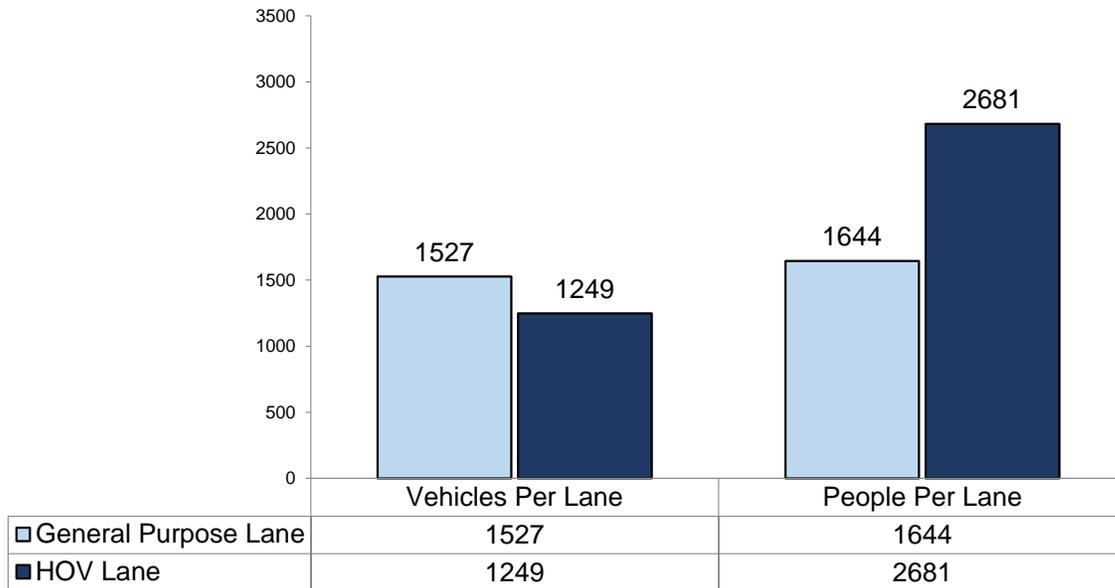
Location: LA-91-E/B at Wilmington Ave (Postmile R9.16)  
 Date/Time: 5-21-2015 / 3:30 PM - 4:30 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

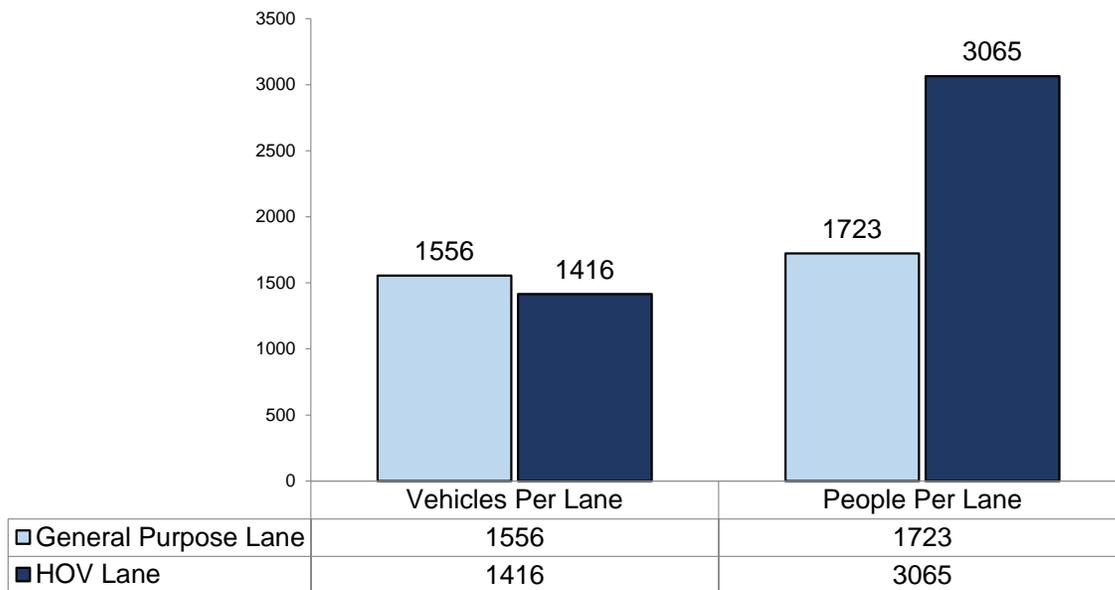
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-91-W/B at Bloomfield Ave (Postmile R19.17)  
 Date/Time: 4-14-2015 / 6:30 AM - 7:30 AM



Location: LA-91-E/B at Artesia Blvd (Postmile R19.43)  
 Date/Time: 4-14-2015 / 4:15 PM - 5:15 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

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# ARTESIA FREEWAY HOV LANE

## Harbor Freeway (Rte110) to Orange County Line

**CARPOOLS ONLY**

**2 OR MORE PERSONS PER VEHICLE**

CARPOOL IS 2 OR MORE PERSONS PER VEHICLE

NORTH



**CARPOOL VIOLATION**  
**\$341**  
 MINIMUM FINE

California Department of Transportation | District 7, Los Angeles and Ventura Counties





# FACT SHEET

## ROUTE 105 GLENN ANDERSON/ CENTURY FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
San Diego Freeway (Route 405) to Studebaker Rd	R1.81 / R18.14	16.3 lane-miles (Eastbound)
Studebaker Rd to San Diego Freeway (Route 405)	R18.14 / R2.42	<u>15.7 lane-miles (Westbound)</u>
		<b>32.0 lane-miles (Total)</b>

### Project Limits:

Route 405 to Studebaker Rd

### Date of Opening:

October 1993

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Long Beach Blvd	R11.51	Westbound	4/30/2015	7:00 – 8:00 A.M.	1332 vehicles
Long Beach Blvd	R11.51	Eastbound	4/30/2015	3:45 – 4:45 P.M.	1328 vehicles
Lakewood Blvd	R15.76	Westbound	5/28/2015	6:30 – 7:30 P.M.	1168 vehicles
Lakewood Blvd	R15.76	Eastbound	5/28/2015	4:45 – 5:55 P.M.	1323 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
Aviation	105	2.2	Route 105 at Aviation	El Segundo
Hawthorne (3 sections)	105	3.7	Route 105 at Hawthorne Blvd	Hawthorne
Crenshaw	105	5.0	Route 105 at Crenshaw/120th	Hawthorne
Vermont Ave (2 sections)	105	7.4	Route 105 at Vermont Ave	Athens
Century / Harbor	105	7.7	Route 105 at Rte 110	Los Angeles
Avalon (2 sections)	105	8.9	Route 105 at Avalon	Los Angeles
Willowbrook/Imperial(3 sections)	105	10.4	Route 105 at Wilmington	Willowbrook
Long Beach Blvd (2 sections)	105	R11.6	Route 105 at Long Beach Blvd	Lynwood
Lakewood Blvd (2 sections)	105	R15.8	Route 105 at Lakewood Blvd	Downey
I-105 Termination	105	R17.8	Route 105 at Hoxie Ave	Norwalk

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Eastbound	7	See Glenn Anderson/Century Freeway HOV Lane map (attached)
Westbound	6	See Glenn Anderson/Century Freeway HOV Lane map (attached)

### HOV Lane Direct Connectors:

High Occupancy Vehicle (HOV) lane direct connector at Route 110/105 interchange.

- o Southbound Route 110 to westbound Route 105
- o Southbound Route 110 to eastbound Route 105
- o Eastbound Route 105 to northbound Route 110
- o Westbound Route 105 to northbound Route 110

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 105**

Co. Rte. Dir. Location Post Mile Date Occupancy Requirement	LA 105 WB LONG BEACH 11.51 04/30/15 2 +		LA 105 EB LONG BEACH 11.51 04/30/15 2 +	
	AM HOV Peak 1-Hour 7:00 - 8:00	AM HOV Peak 2-Hour 6:30-8:30	PM HOV Peak 1-Hour 15:45 - 16:45	PM HOV Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	1123	2134	1063	2126
Vanpools	6	22	67	104
Buses	10	20	8	11
Motorcycles	61	121	68	141
Single Occupant Vehicles	63	138	58	115
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	69	150	64	154
<b>Total Vehicles in HOV Lane</b>	<b>1332</b>	<b>2585</b>	<b>1328</b>	<b>2651</b>
2+ Carpool volume in HOV Lane*	1129	2156	1130	2230
3+ Carpool volume in HOV Lane*	106	204	184	322
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2366	4485	2280	4531
People in Vanpools	36	132	402	624
People in Buses	185	350	212	350
People in CNG/EV, Single Occ. Veh. and Motorcycles	193	409	190	410
<b>Total HOV Lane People</b>	<b>2780</b>	<b>5376</b>	<b>3084</b>	<b>5915</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	3		3	
General Purpose Lane Vehicles**	3565	6713	4104	7888
<b>General Purpose Vehicles/Lane**</b>	<b>1188</b>	<b>2238</b>	<b>1368</b>	<b>2629</b>
General Purpose Lane People**	3755	7069	4624	8764
<b>General Purpose People/Lane**</b>	<b>1252</b>	<b>2356</b>	<b>1541</b>	<b>2921</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	4897	9298	5432	10539
Total Freeway People	6535	12445	7708	14679
% Freeway People in HOV Lane	42.54%	43.20%	40.01%	40.30%
% Freeway People per General Purpose Lane	19.15%	18.93%	20.00%	19.90%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	148		429	
2+ Carpool volume in GP (peak 2-hour)*	281		725	
2+ % Carpools in GP for peak hour	4.14%		10.45%	
2+ % Carpools in GP for peak 2-hour	4.19%		9.19%	
3+ Carpool volume peak in GP (peak hour)*	24		58	
3+ Carpool volume in GP (peak 2-hour)*	38		110	
3+ % Carpools in GP for peak hour	0.67%		1.40%	
3+ % Carpools in GP for peak 2-hour	0.56%		1.39%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.09		2.32	
General Purpose Lane Occupancy	1.05		1.13	
Equivalent Number General Purpose Lanes Needed to carry HOV People	2.22		2.00	

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 105**

Co. Rte. Dir. Location Post Mile Date Occupancy Requirement	LA 105 WB LAKEWOOD 15.76 05/28/15 2 +		LA 105 EB LAKEWOOD 15.76 05/28/15 2 +	
	AM HOV Peak 1-Hour 6:30 - 7:30	AM HOV Peak 2-Hour 6:30-8:30	PM HOV Peak 1-Hour 16:45 - 17:45	PM HOV Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	985	1811	1051	2092
Vanpools	17	25	70	105
Buses	6	15	3	9
Motorcycles	48	97	80	141
Single Occupant Vehicles	77	144	21	56
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	35	112	98	158
<b>Total Vehicles in HOV Lane</b>	<b>1168</b>	<b>2204</b>	<b>1323</b>	<b>2561</b>
2+ Carpool volume in HOV Lane*	1002	1836	1121	2197
3+ Carpool volume in HOV Lane*	55	144	159	284
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2016	3763	2213	4407
People in Vanpools	102	150	420	630
People in Buses	190	440	120	290
People in CNG/EV, Single Occ. Veh. and Motorcycles	160	353	199	355
<b>Total HOV Lane People</b>	<b>2468</b>	<b>4706</b>	<b>2952</b>	<b>5682</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	3		3	
General Purpose Lane Vehicles**	5120	9715	4130	7818
<b>General Purpose Vehicles/Lane**</b>	<b>1707</b>	<b>3238</b>	<b>1377</b>	<b>2606</b>
General Purpose Lane People**	5369	10190	4629	8819
<b>General Purpose People/Lane**</b>	<b>1790</b>	<b>3397</b>	<b>1543</b>	<b>2940</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	6288	11919	5453	10379
Total Freeway People	7837	14896	7581	14501
% Freeway People in HOV Lane	31.49%	31.59%	38.94%	39.18%
% Freeway People per General Purpose Lane	22.84%	22.80%	20.35%	20.27%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	216		454	
2+ Carpool volume in GP (peak 2-hour)*	410		904	
2+ % Carpools in GP for peak hour	4.22%		10.99%	
2+ % Carpools in GP for peak 2-hour	4.22%		11.56%	
3+ Carpool volume peak in GP (peak hour)*	21		34	
3+ Carpool volume in GP (peak 2-hour)*	43		79	
3+ % Carpools in GP for peak hour	0.42%		0.82%	
3+ % Carpools in GP for peak 2-hour	0.44%		1.01%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.11		2.23	
General Purpose Lane Occupancy	1.05		1.12	
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.38		1.91	

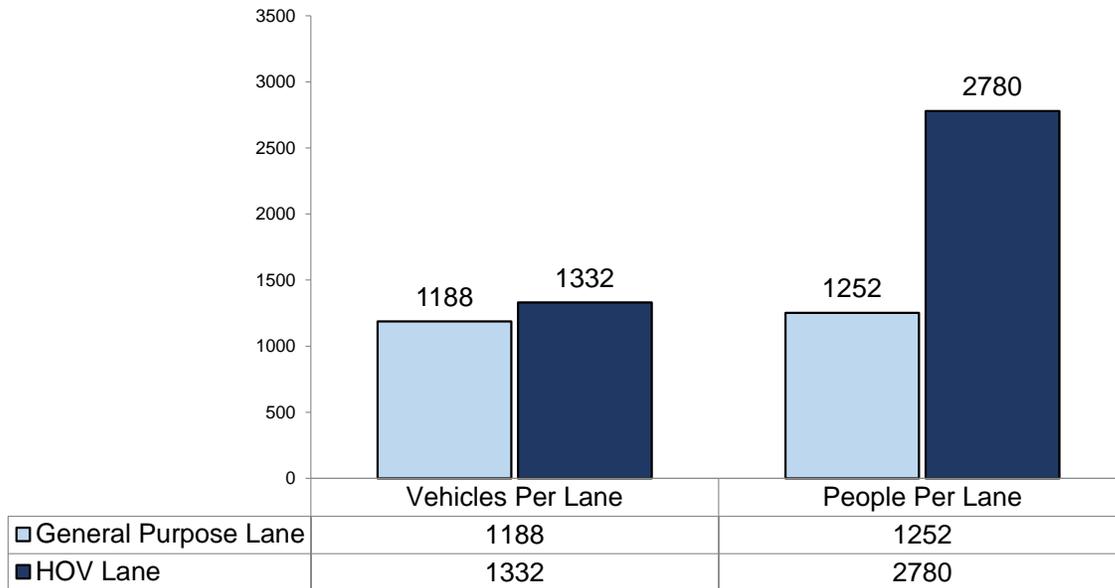
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

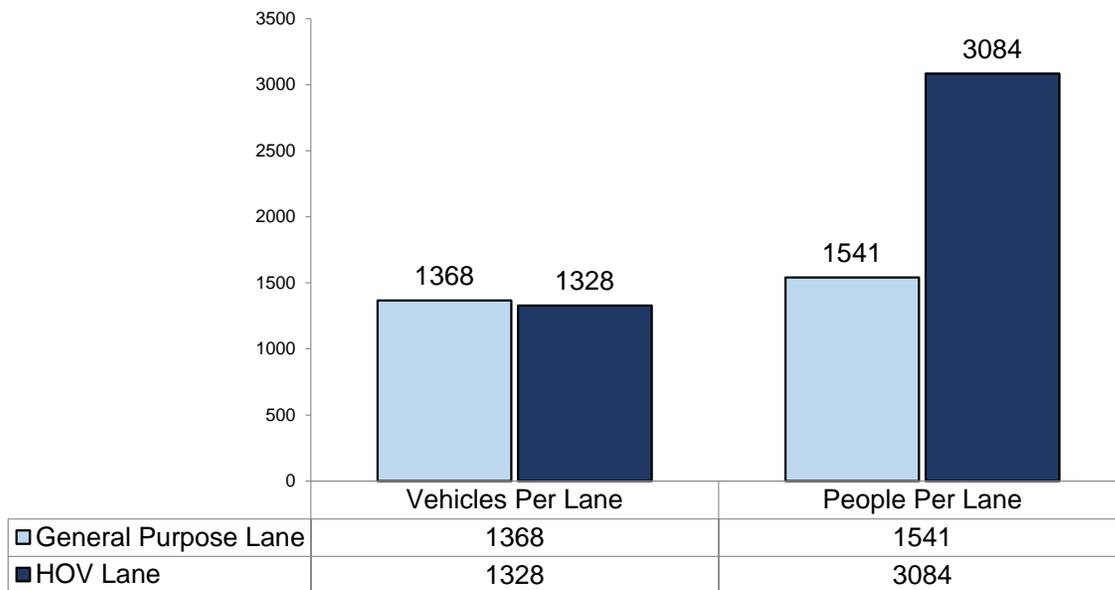
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-105-W/B at Long Beach Blvd (Postmile R11.51)  
 Date/Time: 4-30-2015 / 7:00 AM - 8:00 AM



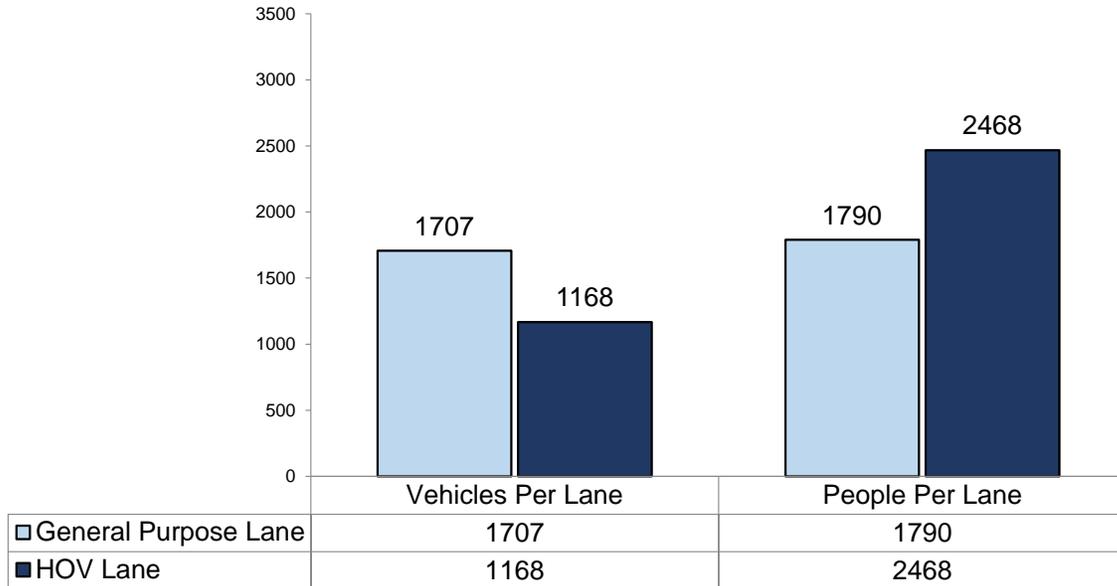
Location: LA-105-E/B at Long Beach Blvd (Postmile R11.51)  
 Date/Time: 4-30-2015 / 3:45 PM - 4:45 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

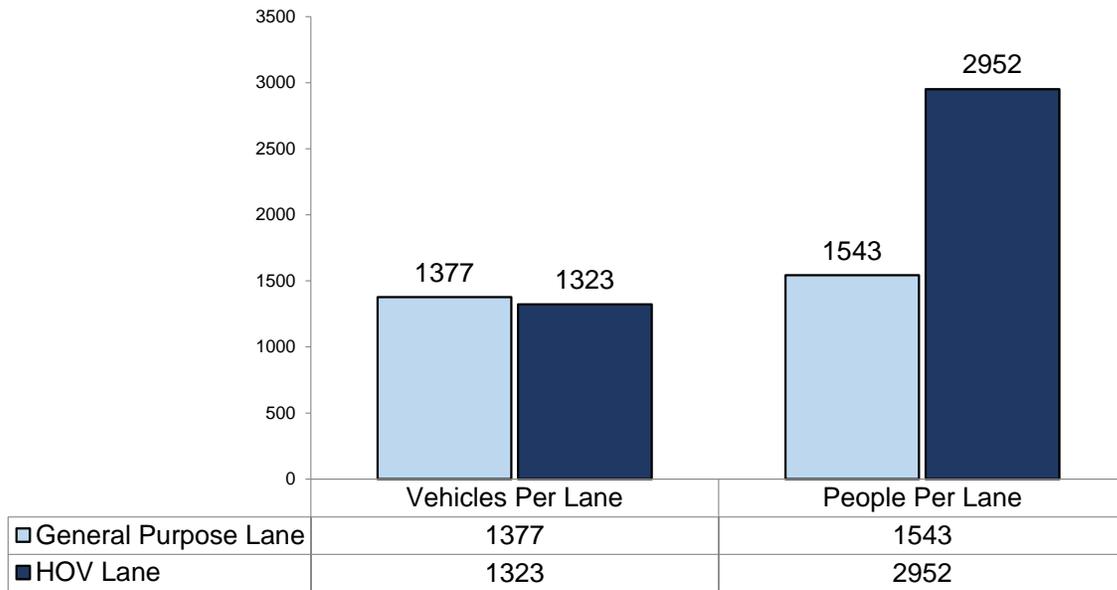
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-105-W/B at Lakewood Blvd (Postmile R15.76)  
 Date/Time: 5-28-2015 / 6:30 AM - 7:30 AM



Location: LA-105-E/B at Lakewood Blvd (Postmile R15.76)  
 Date/Time: 5-28-2015 / 4:45 PM - 5:45 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

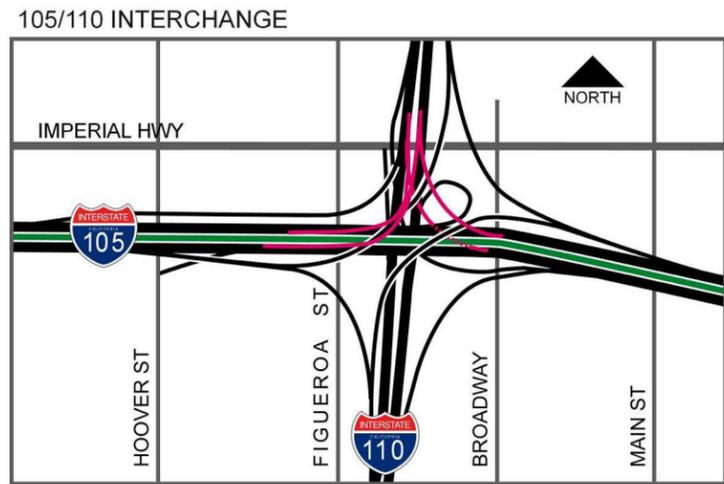
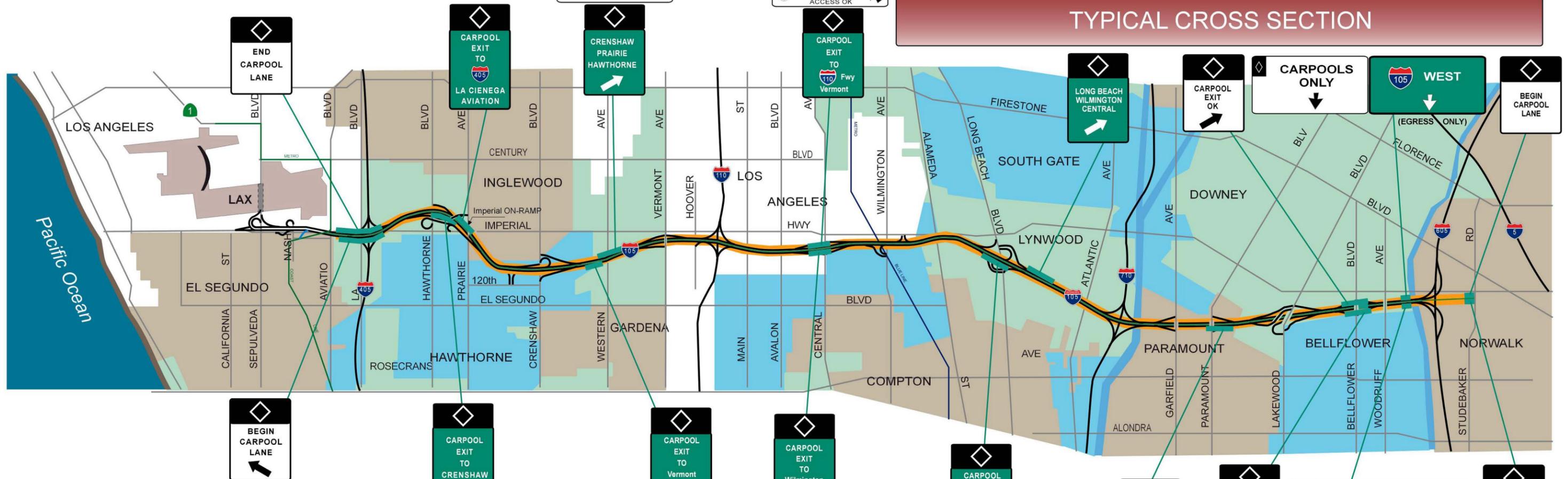
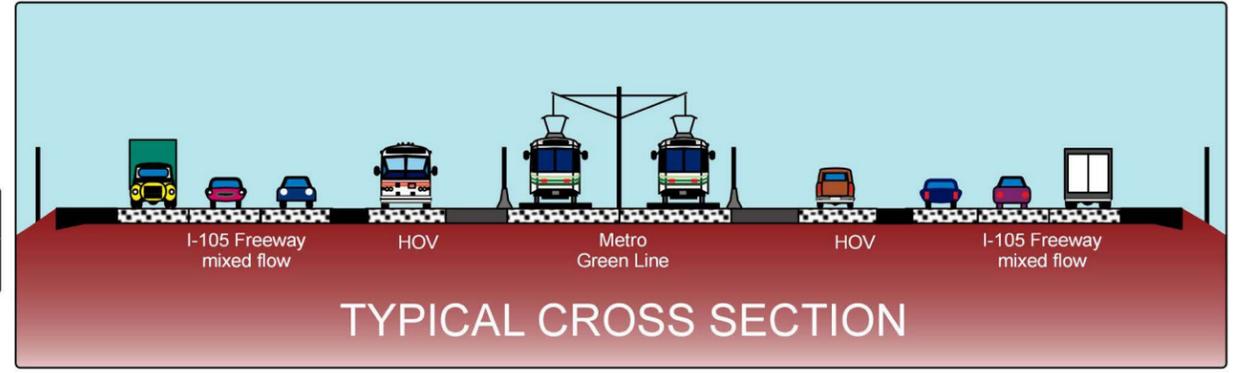
Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

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# GLENN ANDERSON (CENTURY) FREEWAY HOV LANE San Diego Freeway (Rte 405) to Studebaker Road



**CARPOOL VIOLATION**  
**\$341**  
MINIMUM FINE

- Freeway to Freeway HOV Lane Direct Connectors  
SB 110 to WB105 ; SB 110 to EB 105  
EB 105 to NB 110 ; WB 105 to NB 110
- Metro Green Line



Not to Scale



# FACT SHEET

## ROUTE 110 HARBOR FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Harbor Gateway Transit Center to Adams Blvd	10.57 / 19.78	19.6 lane-miles (Northbound)
Flower St / 28 <sup>th</sup> St to Harbor Gateway Transit Center	20.20 / 10.57	19.2 lane-miles (Southbound)
		<b>38.8 lane-miles (Total)</b>

### Project Limits:

### Date of Opening:

Harbor Gateway Transit Center to Adams Blvd (N/B) / Flower St at 28<sup>th</sup> St (S/B) June 1996

### 1-Hour Express Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Slauson Ave	17.98	Northbound	6/16/2015	6:30 – 7:30 A.M.	3248* vehicles
Slauson Ave	17.98	Southbound	6/16/2015	4:30 – 5:30 P.M.	3565* vehicles

\*2-lanes at this count location (each direction). Volume shown is for 2-lanes.

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
San Pedro II	110	1.2	515 N Beacon at Harbor Blvd	San Pedro
San Pedro	110	1.3	Battery St/Gaffey St/610 Channel St	San Pedro
Harbor Park	110	3.9	Rte 110/PCH & Figueroa, 1345 W PCH	Wilmington
Carson	110	6.8	Route 110 at Carson St	Los Angeles
Artesia	110	9.8	Route 110 at Route 91, 182 <sup>nd</sup> St	Los Angeles
Rosecrans	110	11.9	Route 110 at Rosecrans Ave	Los Angeles
Manchester	110	15.8	Route 110 at Manchester Ave	Los Angeles
Slauson	110	18.0	Route 110 at Slauson Ave	Los Angeles

### Number of Express Lane Ingress/Egress (I/E) Locations (excludes begin/end of Express lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Northbound	4	See Harbor Freeway Express Lane map (attached)
Southbound	5	See Harbor Freeway Express Lane map (attached)

### Express Lane Direct Connectors:

- Express lane direct connector at Route 110/105 interchange.
  - Southbound Route 110 to westbound Route 105
  - Southbound Route 110 to eastbound Route 105
  - Eastbound Route 105 to northbound Route 110
  - Westbound Route 105 to northbound Route 110

### Additional Information:

Facility converted to Express Lane operation. Tolling began November 10, 2012.

**CALTRANS - DISTRICT 7**  
**Express Lane Operation on Route 110**

Co. Rte. Dir. Location Post Mile Date Toll Free Occupancy Requirement	LA 110 NB		LA 110 SB	
	SLAUSON		SLAUSON	
	17.98		17.98	
	06/16/15		06/16/15	
	2 +		2 +	
	AM Express Peak 1-Hour 6:30 - 7:30	AM Express Peak 2-Hour 6:30-8:30	PM Express Peak 1-Hour 17:00 - 18:00	PM Express Peak 2-Hour 16:00-18:00
<b>Express Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	744	1467	1071	2039
Vanpools	23	32	21	47
Buses	54	107	41	87
Motorcycles	60	103	37	91
Single Occupant Vehicles	2197	4082	2302	4381
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	170	336	93	152
<b>Total Vehicles in Express Lane</b>	<b>3248</b>	<b>6127</b>	<b>3565</b>	<b>6797</b>
2+ Carpool volume in Express Lane*	767	1499	1092	2086
3+ Carpool volume in Express Lane*	73	164	114	254
<b>Express Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	1546	3094	2250	4306
People in Vanpools	138	192	126	282
People in Buses	1673	3420	1610	3310
People in CNG/EV, Single Occ. Veh. and Motorcycles	2427	4521	2432	4624
<b>Total Express Lane People</b>	<b>5784</b>	<b>11227</b>	<b>6418</b>	<b>12522</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	4755	8401	6085	11934
<b>General Purpose Vehicles/Lane**</b>	<b>1189</b>	<b>2100</b>	<b>1521</b>	<b>2983</b>
General Purpose Lane People**	5313	9446	7619	14990
<b>General Purpose People/Lane**</b>	<b>1328</b>	<b>2362</b>	<b>1905</b>	<b>3748</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	8003	14528	9650	18731
Total Freeway People	11097	20673	14037	27512
% Freeway People in Express Lane	52.12%	54.31%	45.72%	45.51%
% Freeway People per General Purpose Lane	11.97%	11.42%	13.57%	13.62%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	483		1229	
2+ Carpool volume in GP (peak 2-hour)*	900		2506	
2+ % Carpools in GP for peak hour	10.15%		20.19%	
2+ % Carpools in GP for peak 2-hour	10.71%		21.00%	
3+ Carpool volume peak in GP (peak hour)*	58		219	
3+ Carpool volume in GP (peak 2-hour)*	105		391	
3+ % Carpools in GP for peak hour	1.21%		3.59%	
3+ % Carpools in GP for peak 2-hour	1.25%		3.28%	
<b>Occupancy (Peak Hour)</b>				
Express Lane Occupancy	1.78		1.80	
General Purpose Lane Occupancy	1.12		1.25	
Equivalent Number General Purpose Lanes Needed to Carry Express Lane People	4.36		3.37	

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the Express Lane.

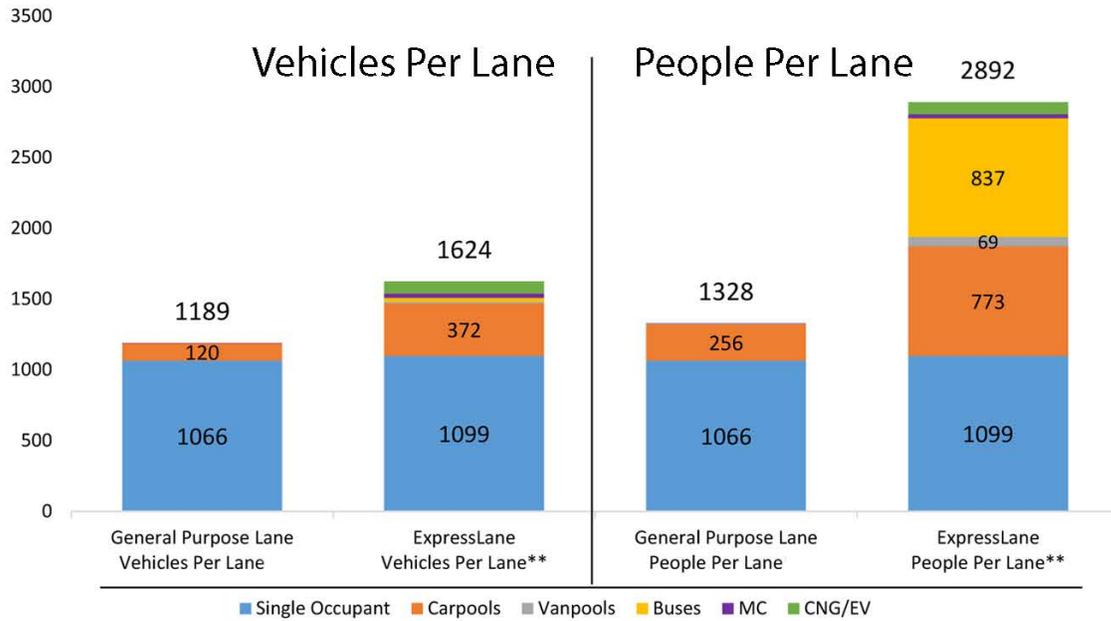
\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

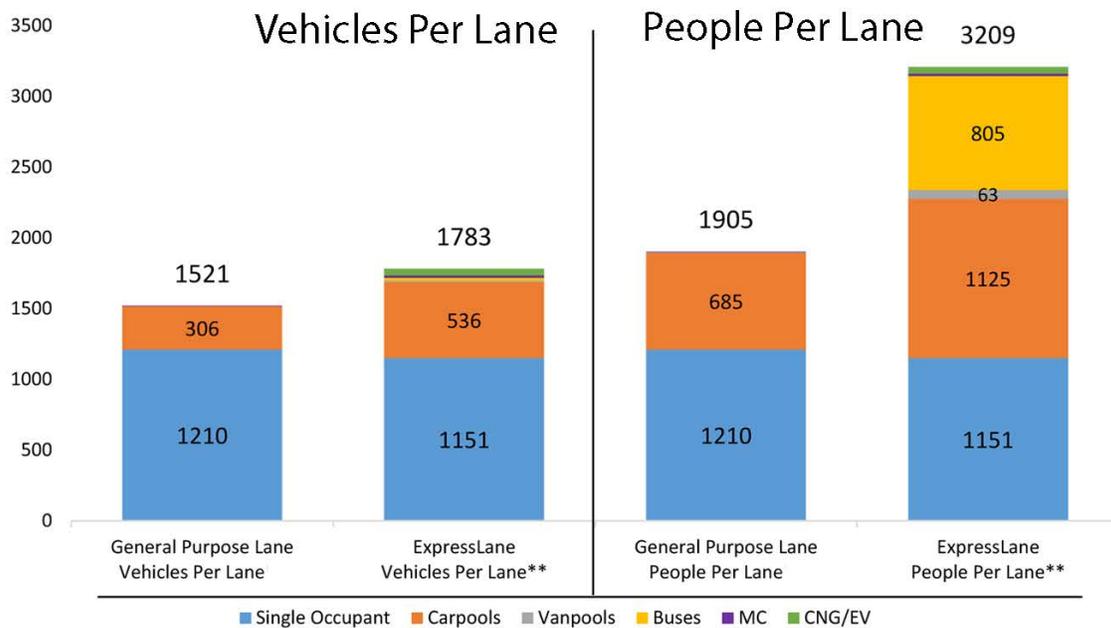
\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

Note: Two (2) Express Lanes at this count location (each direction). Volume shown is for 2-lanes.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-110-N/B at Slauson Ave (Postmile 17.98)  
 Date/Time: 6-16-2015 / 6:30 AM - 7:30 AM



Location: LA-110-S/B at Slauson Ave (Postmile 17.98)  
 Date/Time: 6-16-2015 / 5:00 PM - 6:00 PM

\* Data is based on the highest 1-hour volume during the following peak period counts: 6:30-8:30 A.M. & 3:30-6:00 P.M.  
 \*\* Two (2) Express Lanes (each direction) at this count location. Data shown represents equivalent volume on one (1) Express Lane.  
 Note 1: Time indicated is for the Express Lane, peak 1-hour of the general purpose lane may be different.  
 Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

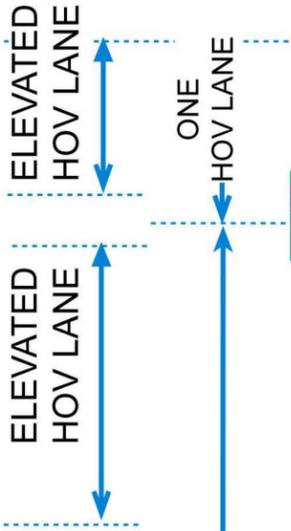
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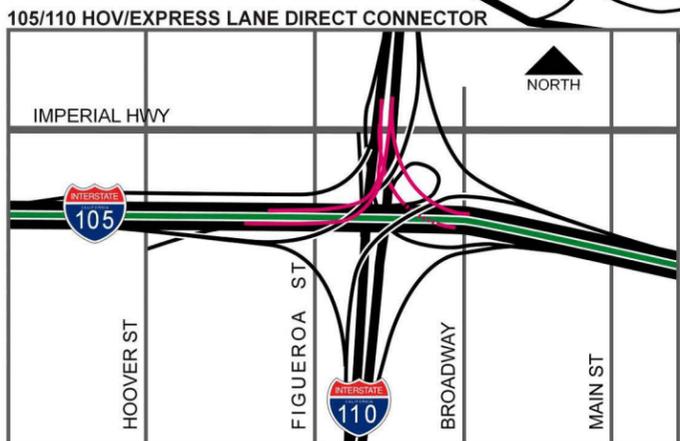
# Harbor Freeway Express Lane Adams Blvd to Artesia Freeway (Rte 91)

ALL HOV MUST HAVE



2 HOV LANES

1 HOV LANE



- Freeway to Freeway HOV Lane Direct Connectors  
SB 110 to WB 105 ; SB 110 to EB 105  
EB 105 to NB 110 ; WB 105 to NB 110
- Metro Green Line

California Department of Transportation · District 7, Los Angeles and Ventura Counties ·

NO SCALE



110 HOV Egress/ing • 09/25/15



# FACT SHEET

## ROUTE 118 RONALD REAGAN FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
0.1 mi east of Ventura Co Line to Golden State Fwy (Route 5)	R0.11 / R10.51	10.4 lane-miles (Eastbound)
Golden State Freeway (Route 5) to 0.3 mi west of Rocky Peak Rd	R10.82 / R0.00 (LA Co)	11.3 lane-miles (Westbound)
	R32.60 / R32.11 (VEN Co)	<b>21.7 lane-miles (Total)</b>

### Project Limits:

0.1 miles east of Ventura County Line to Rte 5 (Eastbound)  
Rte 5 to 0.3 miles west of Rocky Peak Rd (Westbound)

### Date of Opening:

March 1997  
March 1997

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Porter Ranch Dr	R3.86	Westbound	5/13/2015	6:45 – 7:45 A.M.	733 vehicles
Porter Ranch Dr	R3.86	Eastbound	6/23/2015	4:45 – 5:45 P.M.	1162 vehicles
Reseda Blvd	R5.81	Westbound	6/11/2015	6:30 – 7:30 A.M.	1160 vehicles
Reseda Blvd	R5.81	Eastbound	6/11/2015	4:15 – 5:15 P.M.	1475 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
Porter Ranch	118	3.9	Route 118 at Porter Ranch	Chatsworth
Chatsworth	118	9.9	15550 Chatsworth St	Granada Hills
Moorpark College	118	17.5	Route 118 at Collins Ave	Moorpark
Erringer	118	24.8	Erringer Rd at Route 118	Simi Valley
Sycamore Dr	118	25.7	2599 Sycamore Dr at Route 118	Simi Valley
Tapo Canyon	118	27.3	Tapo Canyon Dr at Route 118	Simi Valley
Stearns	118	28.8	2501 Stearns St at Route 118	Simi Valley

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Eastbound	4	See Ronald Reagan Freeway HOV Lane map (attached)
Westbound	5	See Ronald Reagan Freeway HOV Lane map (attached)

### Additional Information:

The construction of this HOV lane facility included the addition of a general purpose lane in each direction.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 118**

Co. Rte. Dir.	LA 118 WB	LA 118 EB		
Location	PORTER RANCH	PORTER RANCH		
Post Mile	3.86	3.86		
Date	05/13/15	06/23/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b> Peak 1-Hour 6:45 - 7:45	<b>AM HOV</b> Peak 2-Hour 6:30-8:30	<b>PM HOV</b> Peak 1-Hour 16:45 - 17:45	<b>PM HOV</b> Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	683	1221	1019	1856
Vanpools	1	2	6	16
Buses	0	2	3	4
Motorcycles	23	40	45	67
Single Occupant Vehicles	4	6	60	86
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	22	38	29	42
<b>Total Vehicles in HOV Lane</b>	<b>733</b>	<b>1309</b>	<b>1162</b>	<b>2071</b>
2+ Carpool volume in HOV Lane*	684	1223	1025	1872
3+ Carpool volume in HOV Lane*	72	122	72	167
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	1452	2590	2121	3913
People in Vanpools	6	12	36	96
People in Buses	0	80	100	140
People in CNG/EV, Single Occ. Veh. and Motorcycles	49	84	134	195
<b>Total HOV Lane People</b>	<b>1507</b>	<b>2766</b>	<b>2391</b>	<b>4344</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	6128	12006	5406	10561
<b>General Purpose Vehicles/Lane**</b>	<b>1532</b>	<b>3002</b>	<b>1352</b>	<b>2640</b>
General Purpose Lane People**	6801	13251	5884	11375
<b>General Purpose People/Lane**</b>	<b>1700</b>	<b>3313</b>	<b>1471</b>	<b>2844</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	6861	13315	6568	12632
Total Freeway People	8308	16017	8275	15719
% Freeway People in HOV Lane	18.14%	17.27%	28.90%	27.64%
% Freeway People per General Purpose Lane	20.47%	20.68%	17.78%	18.09%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	503		416	
2+ Carpool volume in GP (peak 2-hour)*	945		723	
2+ % Carpools in GP for peak hour	8.20%		7.70%	
2+ % Carpools in GP for peak 2-hour	7.87%		6.84%	
3+ Carpool volume peak in GP (peak hour)*	48		41	
3+ Carpool volume in GP (peak 2-hour)*	65		63	
3+ % Carpools in GP for peak hour	0.78%		0.76%	
3+ % Carpools in GP for peak 2-hour	0.54%		0.59%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.06		2.06	
General Purpose Lane Occupancy	1.11		1.09	
Equivalent Number General Purpose Lanes Needed to carry HOV People	0.89		1.63	

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 118**

Co. Rte. Dir.	LA 118 WB	LA 118 EB		
Location	RESEDA	RESEDA		
Post Mile	5.81	5.81		
Date	06/11/15	06/11/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b>	<b>AM HOV</b>		
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>		
	6:30 - 7:30	6:30-8:30		
	<b>PM HOV</b>	<b>PM HOV</b>		
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>		
	16:15 - 17:15	16:00-18:00		
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	1099	1962	1367	2719
Vanpools	10	10	30	41
Buses	3	5	4	3
Motorcycles	19	43	42	73
Single Occupant Vehicles	2	3	7	14
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	27	58	25	60
<b>Total Vehicles in HOV Lane</b>	<b>1160</b>	<b>2081</b>	<b>1475</b>	<b>2910</b>
2+ Carpool volume in HOV Lane*	1109	1972	1397	2760
3+ Carpool volume in HOV Lane*	61	104	112	184
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2252	4025	2829	5601
People in Vanpools	60	60	180	246
People in Buses	22	40	41	40
People in CNG/EV, Single Occ. Veh. and Motorcycles	48	104	74	147
<b>Total HOV Lane People</b>	<b>2382</b>	<b>4229</b>	<b>3124</b>	<b>6034</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	5		4	
General Purpose Lane Vehicles**	8711	16615	6368	12375
<b>General Purpose Vehicles/Lane**</b>	<b>1742</b>	<b>3323</b>	<b>1592</b>	<b>3094</b>
General Purpose Lane People**	9586	18408	7244	13829
<b>General Purpose People/Lane**</b>	<b>1917</b>	<b>3682</b>	<b>1811</b>	<b>3457</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	9871	18696	7843	15285
Total Freeway People	11968	22637	10368	19863
% Freeway People in HOV Lane	19.90%	18.68%	30.13%	30.38%
% Freeway People per General Purpose Lane	16.02%	16.26%	17.47%	17.41%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	763		755	
2+ Carpool volume in GP (peak 2-hour)*	1561		1261	
2+ % Carpools in GP for peak hour	8.76%		11.86%	
2+ % Carpools in GP for peak 2-hour	9.40%		10.19%	
3+ Carpool volume peak in GP (peak hour)*	67		85	
3+ Carpool volume in GP (peak 2-hour)*	139		131	
3+ % Carpools in GP for peak hour	0.77%		1.33%	
3+ % Carpools in GP for peak 2-hour	0.84%		1.06%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.05		2.12	
General Purpose Lane Occupancy	1.10		1.14	
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.24		1.73	

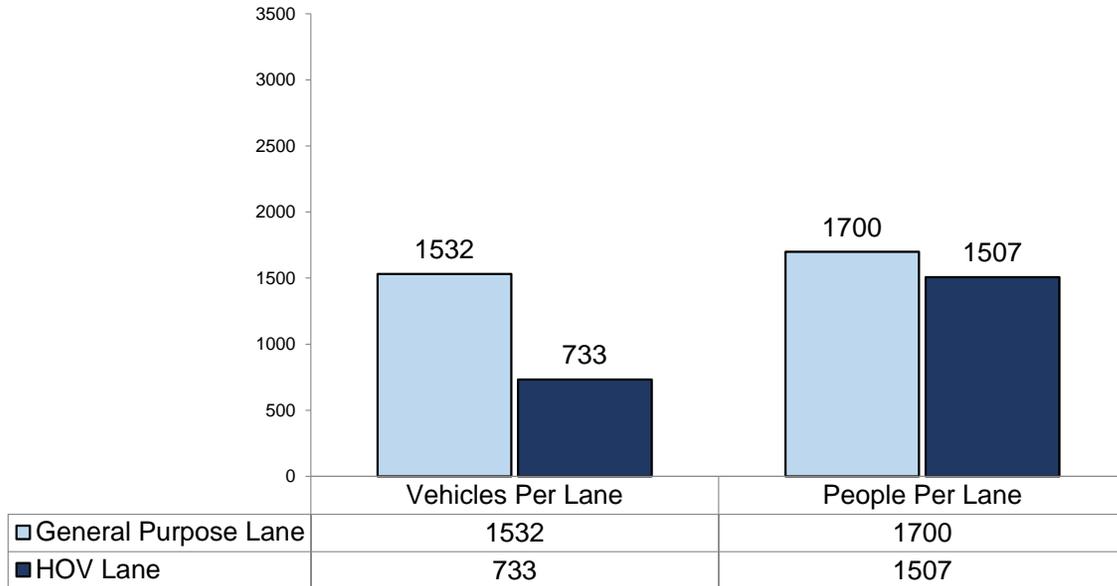
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

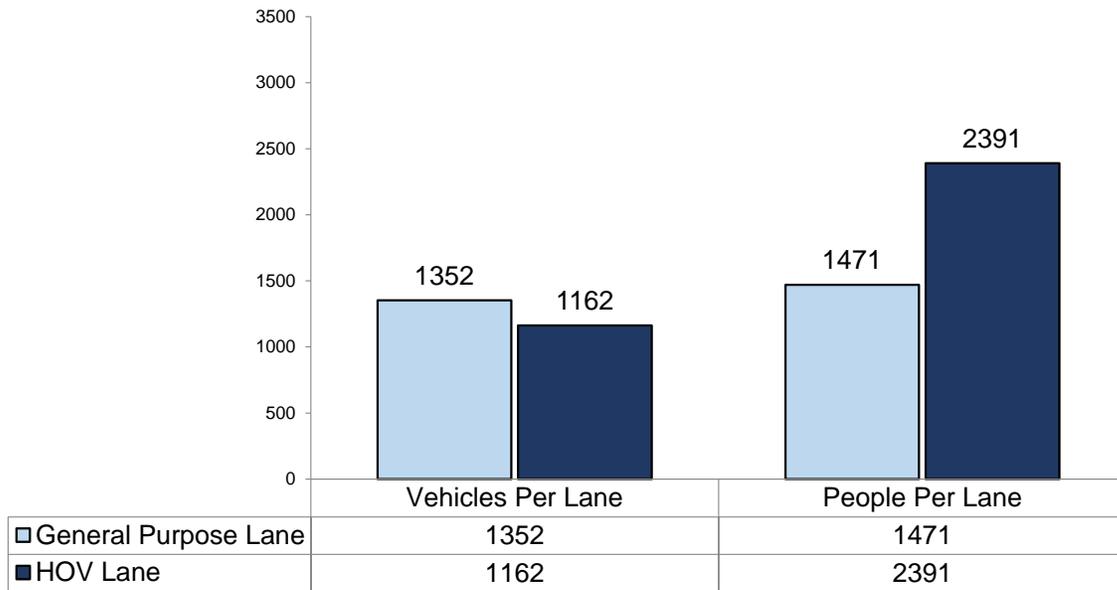
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-118-W/B at Porter Ranch Dr (Postmile R3.86)  
 Date/Time: 5-13-2015 / 6:45 AM - 7:45 AM



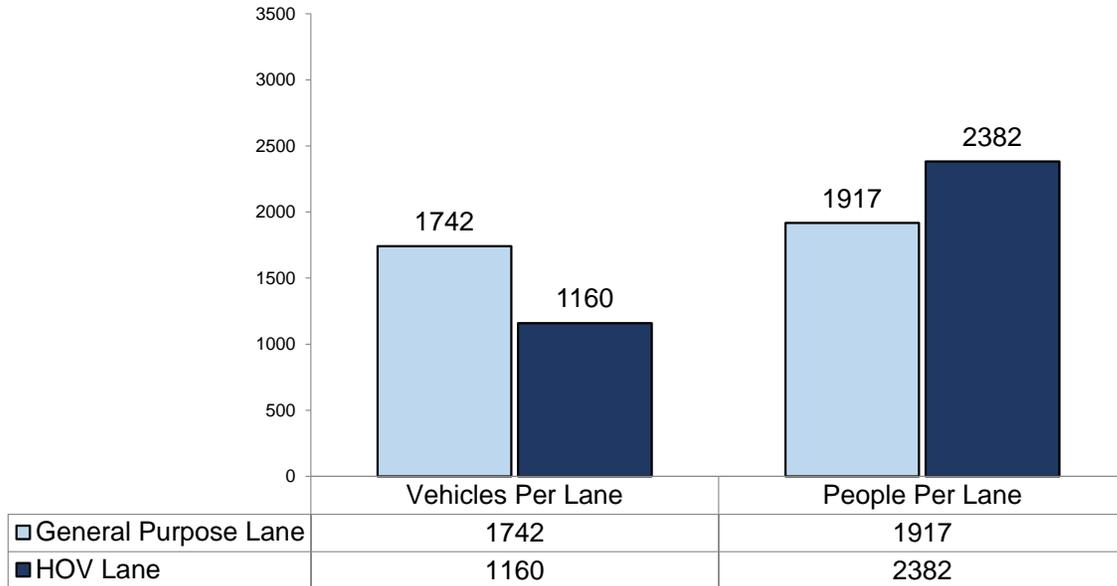
Location: LA-118-E/B at Porter Ranch Dr (Postmile R3.86)  
 Date/Time: 6-23-2015 / 4:45 PM - 5:45 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

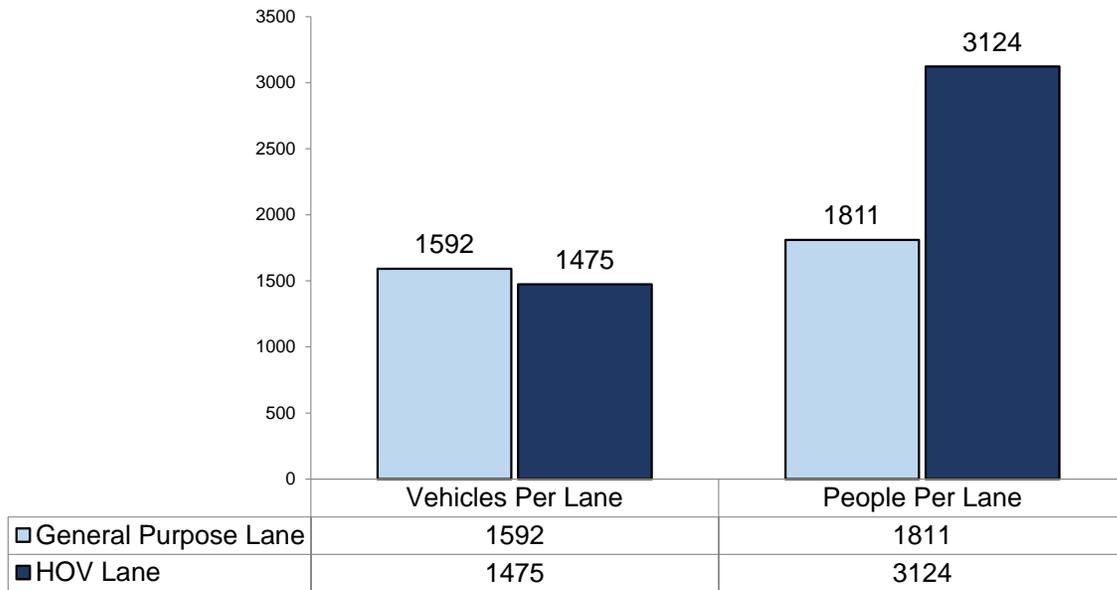
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-118-W/B at Reseda Blvd (Postmile R5.81)  
 Date/Time: 6-11-2015 / 6:30 AM - 7:30 AM



Location: LA-118-E/B at Reseda Blvd (Postmile R5.81)  
 Date/Time: 6-11-2015 / 4:15 PM - 5:15 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

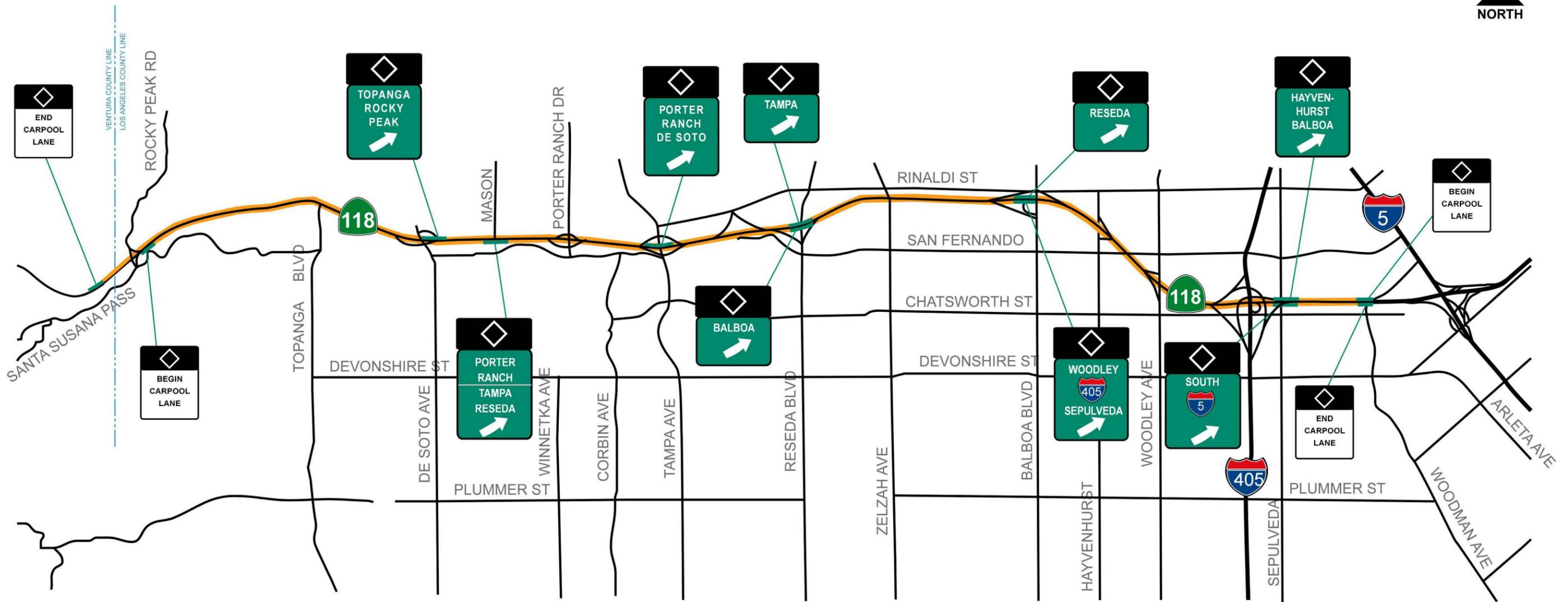
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# RONALD REAGAN FREEWAY HOV LANE

## Ventura County Line to Golden State Freeway (Rte 5)



**CARPOOLS ONLY**

**2 OR MORE PERSONS PER VEHICLE**

CARPOOL IS 2 OR MORE PERSONS PER VEHICLE

**CARPOOL VIOLATION**

**\$341**

**MINIMUM FINE**

NO SCALE





# FACT SHEET

## ROUTE 134 VENTURA FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Hollywood Fwy (Rte 170/101) to Golden State Fwy (Rte 5)	0.25 / R5.26R	5.0 lane-miles (Eastbound)
Golden State Fwy (Rte 5) to Foothill Freeway (Route 210)	R5.70 / R13.34	7.6 lane-miles (Eastbound)
Foothill Freeway (Route 210) to Golden State Fwy (Rte 5)	R13.34 / R6.13	7.2 lane-miles (Westbound)
Golden State Fwy (Rte 5) to 0.1 mi west of Cahuenga Blvd	4.89 / 0.73	4.2 lane-miles (Westbound)
		<b>24.0 lane-miles (Total)</b>

### Project Limits:

Hollywood Fwy (Rte 170/101) to Golden State Fwy (Rte 5)  
 Golden State Fwy (Rte 5) to Glendale Freeway (Route 2)  
 Glendale Freeway (Route 2) to Foothill Freeway (Route 210)

### Date of Opening:

October 1995  
 March 1996  
 August 1996

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Pass Ave	1.82	Westbound	5/6/2015	6:45 – 7:45 A.M.	789 vehicles
Pass Ave	1.82	Westbound	6/17/2015	5:00 – 6:00 P.M.	933 vehicles
Jackson St	R7.41	Westbound	5/7/2015	7:30 – 8:30 A.M.	1010 vehicles
Jackson St	R7.41	Eastbound	5/7/2015	5:00 – 6:00 P.M.	1119 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
Glendale	134	8.8	Route 134 at Route 2	Glendale

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Eastbound (Rte 170/101 to Rte 5)	3	See Ventura Freeway HOV Lane map (attached)
Eastbound (Rte 5 to Rte 210)	4	See Ventura Freeway HOV Lane map (attached)
Westbound (Rte 210 to Rte 5)	4	See Ventura Freeway HOV Lane map (attached)
Westbound (Rte 5 to Rte 170/101)	2	See Ventura Freeway HOV Lane map (attached)

### Additional Information:

High Occupancy Vehicle (HOV) lane discontinuity at Golden State Freeway (Route 5) due to Rte 134/5 interchange.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 134**

Co. Rte. Dir.	LA 134 WB	LA 134 WB
Location	PASS	PASS
Post Mile	1.82	1.82
Date	05/06/15	06/17/15
Occupancy Requirement	2 +	2 +
	<b>AM HOV</b>	<b>AM HOV</b>
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>
	6:45 - 7:45	6:30-8:30
	<b>PM HOV</b>	<b>PM HOV</b>
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>
	17:00 - 18:00	16:00-18:00
<b>HOV Lane Vehicle Summary</b>		
Carpools (Vehicles with 2-5 occupants only)	718	1283
Vanpools	5	13
Buses	0	0
Motorcycles	11	32
Single Occupant Vehicles	16	24
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	39	78
<b>Total Vehicles in HOV Lane</b>	<b>789</b>	<b>1430</b>
2+ Carpool volume in HOV Lane*	723	1296
3+ Carpool volume in HOV Lane*	25	48
<b>HOV Lane People Summary</b>		
People in Carpools (Vehicles with 2-5 occupants only)	1459	2605
People in Vanpools	30	78
People in Buses	0	0
People in CNG/EV, Single Occ. Veh. and Motorcycles	66	134
<b>Total HOV Lane People</b>	<b>1555</b>	<b>2817</b>
<b>General Purpose Lane Summary</b>		
Number of General Purpose Lanes	4	4
General Purpose Lane Vehicles**	5639	10621
<b>General Purpose Vehicles/Lane**</b>	<b>1410</b>	<b>2655</b>
General Purpose Lane People**	6071	11440
<b>General Purpose People/Lane**</b>	<b>1518</b>	<b>2860</b>
<b>Freeway Summary</b>		
Total Freeway Vehicles	6428	12051
Total Freeway People	7626	14257
% Freeway People in HOV Lane	20.39%	19.76%
% Freeway People per General Purpose Lane	19.90%	20.06%
<b>General Purpose Lane Carpool Summary</b>		
2+ Carpool volume in GP (peak hour)*	353	721
2+ Carpool volume in GP (peak 2-hour)*	653	1303
2+ % Carpools in GP for peak hour	6.25%	12.17%
2+ % Carpools in GP for peak 2-hour	6.14%	11.58%
3+ Carpool volume peak in GP (peak hour)*	23	41
3+ Carpool volume in GP (peak 2-hour)*	48	63
3+ % Carpools in GP for peak hour	0.40%	0.70%
3+ % Carpools in GP for peak 2-hour	0.45%	0.56%
<b>Occupancy (Peak Hour)</b>		
HOV Lane Occupancy	1.97	2.05
General Purpose Lane Occupancy	1.08	1.14
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.02	1.13

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 134**

Co. Rte. Dir.	LA 134 WB	LA 134 EB
Location	JACKSON	JACKSON
Post Mile	7.41	7.41
Date	05/07/15	05/07/15
Occupancy Requirement	2 +	2 +
	<b>AM HOV</b>	<b>AM HOV</b>
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>
	7:30 - 8:30	6:30-8:30
	<b>PM HOV</b>	<b>PM HOV</b>
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>
	17:00 - 18:00	16:00-18:00
<b>HOV Lane Vehicle Summary</b>		
Carpools (Vehicles with 2-5 occupants only)	841	1381
Vanpools	12	33
Buses	3	3
Motorcycles	20	35
Single Occupant Vehicles	53	90
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	81	136
<b>Total Vehicles in HOV Lane</b>	<b>1010</b>	<b>1678</b>
2+ Carpool volume in HOV Lane*	853	1414
3+ Carpool volume in HOV Lane*	50	106
<b>HOV Lane People Summary</b>		
People in Carpools (Vehicles with 2-5 occupants only)	1725	2845
People in Vanpools	72	198
People in Buses	60	60
People in CNG/EV, Single Occ. Veh. and Motorcycles	154	261
<b>Total HOV Lane People</b>	<b>2011</b>	<b>3364</b>
<b>General Purpose Lane Summary</b>		
Number of General Purpose Lanes	4	4
General Purpose Lane Vehicles**	7491	14166
<b>General Purpose Vehicles/Lane**</b>	<b>1873</b>	<b>3542</b>
General Purpose Lane People**	8043	15229
<b>General Purpose People/Lane**</b>	<b>2011</b>	<b>3807</b>
<b>Freeway Summary</b>		
Total Freeway Vehicles	8501	15844
Total Freeway People	10054	18593
% Freeway People in HOV Lane	20.00%	18.09%
% Freeway People per General Purpose Lane	20.00%	20.48%
<b>General Purpose Lane Carpool Summary</b>		
2+ Carpool volume in GP (peak hour)*	471	538
2+ Carpool volume in GP (peak 2-hour)*	908	1115
2+ % Carpools in GP for peak hour	6.29%	7.05%
2+ % Carpools in GP for peak 2-hour	6.41%	7.41%
3+ Carpool volume peak in GP (peak hour)*	36	33
3+ Carpool volume in GP (peak 2-hour)*	83	90
3+ % Carpools in GP for peak hour	0.48%	0.43%
3+ % Carpools in GP for peak 2-hour	0.58%	0.60%
<b>Occupancy (Peak Hour)</b>		
HOV Lane Occupancy	1.99	2.05
General Purpose Lane Occupancy	1.07	1.09
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.00	1.10

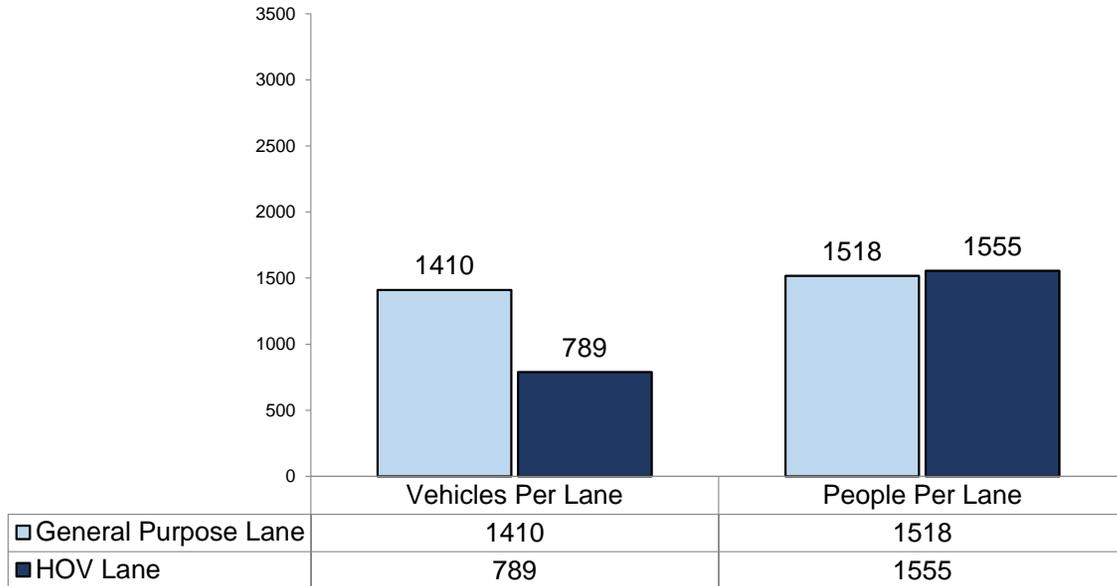
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

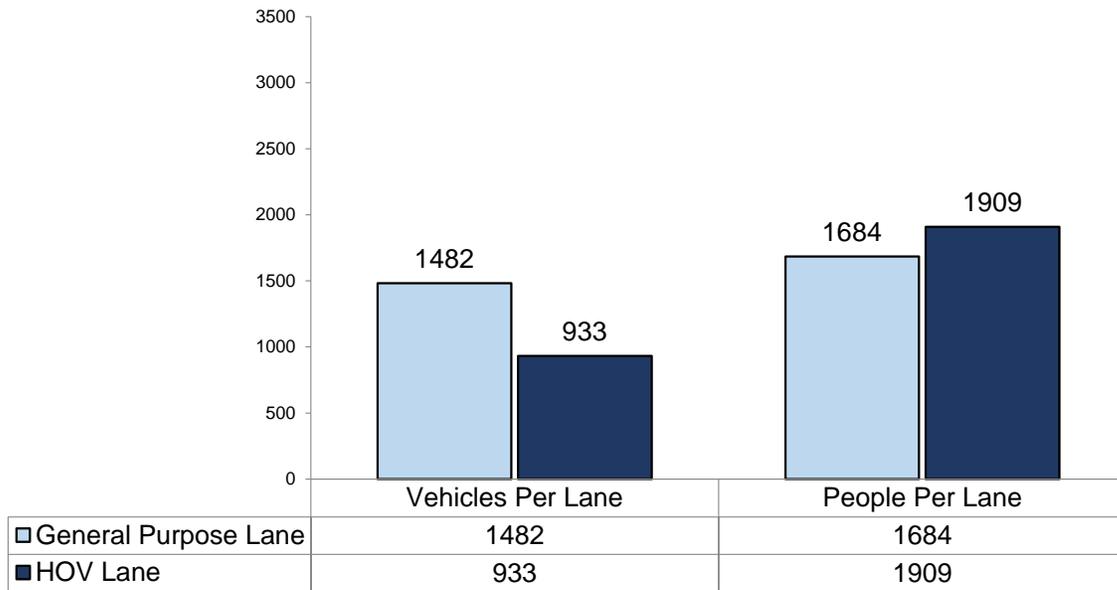
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-134-W/B at Pass Ave (Postmile 1.82)  
 Date/Time: 5-6-2015 / 6:45 AM - 7:45 AM



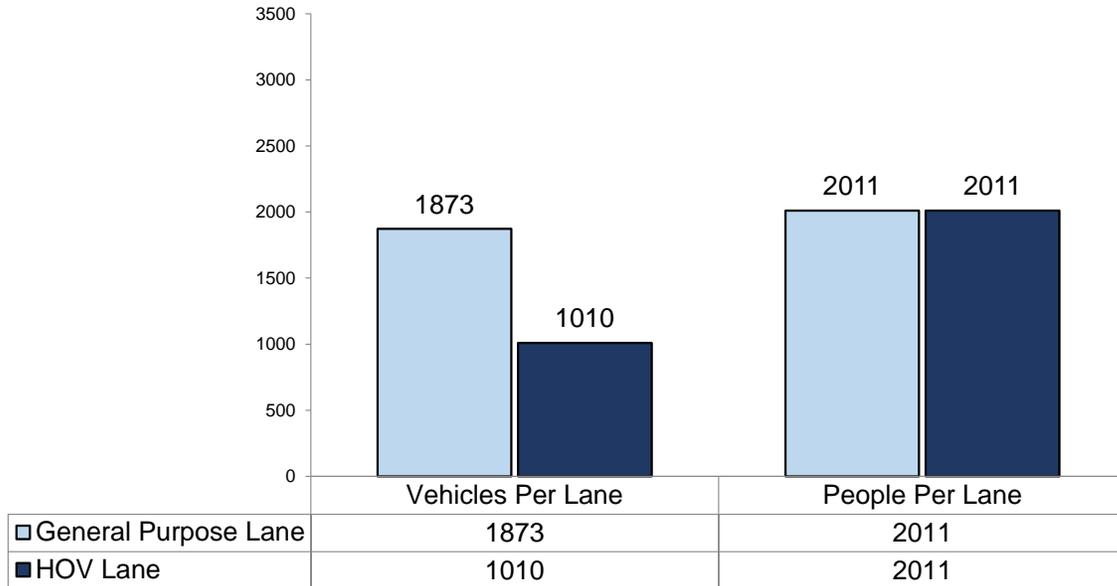
Location: LA-134-W/B at Pass Ave (Postmile 1.82)  
 Date/Time: 6-17-2015 / 5:00 PM - 6:00 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

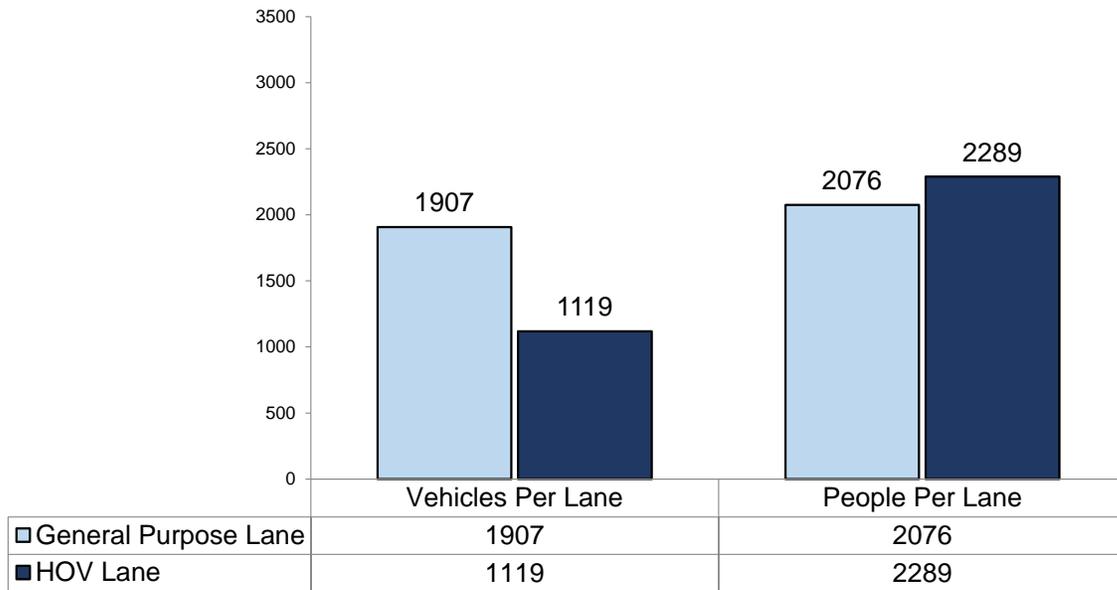
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

**1-HOUR VOLUME COMPARISON\***



Location: LA-134-W/B at Jackson St (Postmile R7.41)  
 Date/Time: 5-7-2015 / 7:30 AM - 8:30 AM



Location: LA-134-E/B at Jackson St (Postmile R7.41)  
 Date/Time: 5-7-2015 / 5:00 PM - 6:00 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

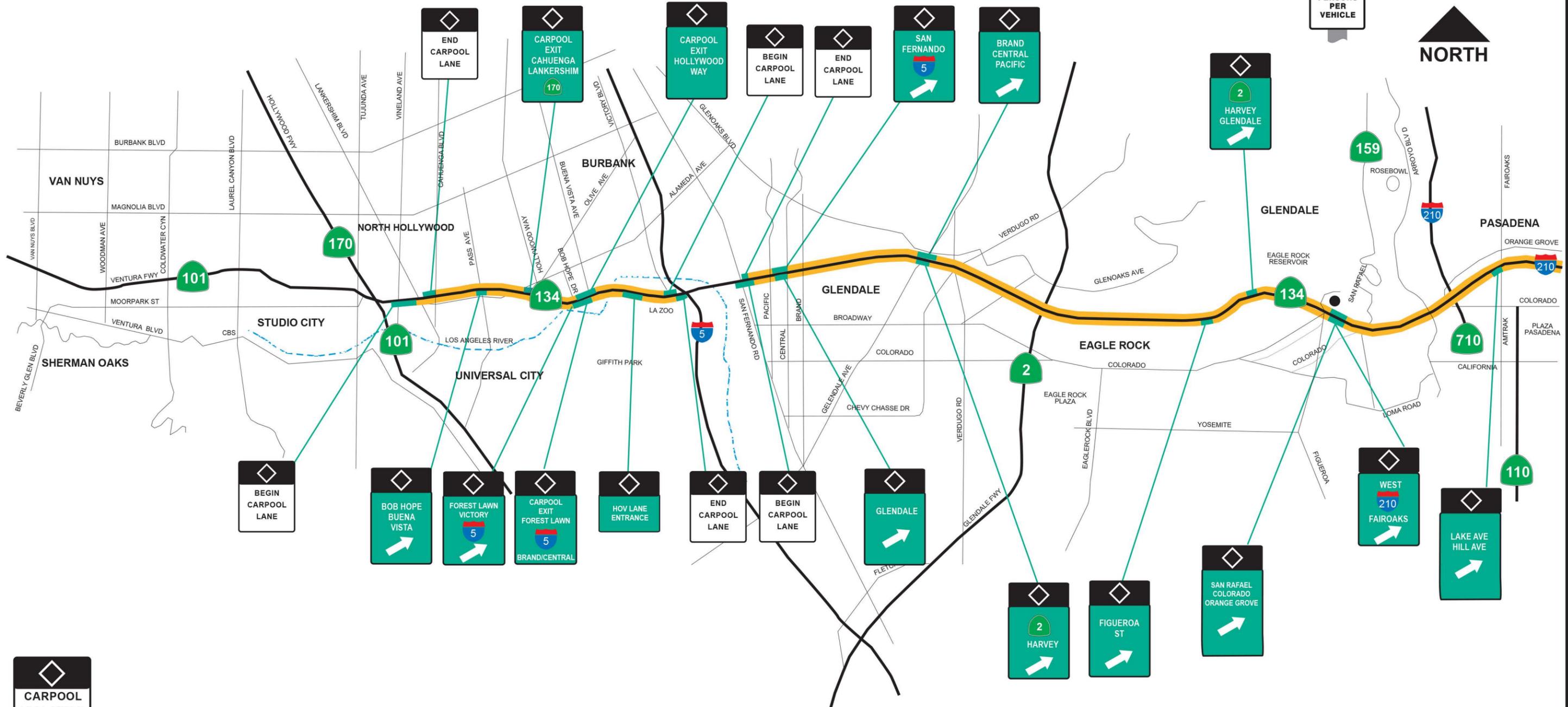
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# VENTURA FREEWAY HOV LANE

## Ventura Freeway (Rte 101) to Foothill Freeway (Rte 210)



**CARPOOLS ONLY**

**2 OR MORE PERSONS PER VEHICLE**

CARPOOL IS 2 OR MORE PERSONS PER VEHICLE



**CARPOOL VIOLATION**

**\$341**

**MINIMUM FINE**

California Department of Transportation · District 7, Los Angeles and Ventura Counties ·

NO SCALE



# FACT SHEET

## ROUTE 170 HOLLYWOOD FREEWAY EXTENSION

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Ventura Fwy (Rte 101/134) to Golden State Fwy (Rte 5)	R14.50 / R20.25	6.0 lane-miles (Northbound)
Golden State Fwy (Rte 5) to Ventura Fwy (Rte 101/134)	R20.20 / R14.50	5.7 lane-miles (Southbound)
		<b>11.7 lane-miles (Total)</b>

### Project Limits:

Ventura Freeway (Rte 101/134) to Golden State Fwy (Rte 5)

### Date of Opening:

February 1996

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Sherman Way	R18.27	Southbound	5/20/2015	6:30 – 7:30 A.M.	1059 vehicles
Sherman Way	R18.27	Northbound	7/8/2015	4:45 – 5:45 P.M.	826 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
Route 170 / Oxnard	170	16.6	Rte 170 at 12000 Oxnard St	North Hollywood

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Northbound	2	See Hollywood Freeway HOV Lane map (attached)
Southbound	3	See Hollywood Freeway HOV Lane map (attached)

### HOV Lane Direct Connectors:

- High Occupancy Vehicle (HOV) lane direct connector at Route 5/170 interchange.
  - Northbound Route 170 to northbound Route 5
  - Southbound Route 5 to southbound Route 170

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 170**

Co. Rte. Dir.	LA 170 SB	LA 170 NB		
Location	SHERMAN WAY	SHERMAN WAY		
Post Mile	18.27	18.27		
Date	05/20/15	07/08/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b>	<b>AM HOV</b>		
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>		
	6:30 - 7:30	6:30-8:30		
	<b>PM HOV</b>	<b>PM HOV</b>		
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>		
	16:45 - 17:45	16:00-18:00		
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	969	1816	739	1374
Vanpools	8	13	6	9
Buses	2	6	2	4
Motorcycles	13	30	22	50
Single Occupant Vehicles	10	42	3	10
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	57	145	54	94
<b>Total Vehicles in HOV Lane</b>	<b>1059</b>	<b>2052</b>	<b>826</b>	<b>1541</b>
2+ Carpool volume in HOV Lane*	977	1829	745	1383
3+ Carpool volume in HOV Lane*	71	116	63	108
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2007	3744	1542	2859
People in Vanpools	48	78	36	54
People in Buses	60	70	30	50
People in CNG/EV, Single Occ. Veh. and Motorcycles	80	217	79	154
<b>Total HOV Lane People</b>	<b>2195</b>	<b>4109</b>	<b>1687</b>	<b>3117</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	6523	10995	5359	10446
<b>General Purpose Vehicles/Lane**</b>	<b>1631</b>	<b>2749</b>	<b>1340</b>	<b>2612</b>
General Purpose Lane People**	7406	12484	6144	12068
<b>General Purpose People/Lane**</b>	<b>1852</b>	<b>3121</b>	<b>1536</b>	<b>3017</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	7582	13047	6185	11987
Total Freeway People	9601	16593	7831	15185
% Freeway People in HOV Lane	22.86%	24.76%	21.54%	20.53%
% Freeway People per General Purpose Lane	19.28%	18.81%	19.61%	19.87%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	695		685	
2+ Carpool volume in GP (peak 2-hour)*	1200		1436	
2+ % Carpools in GP for peak hour	10.66%		12.78%	
2+ % Carpools in GP for peak 2-hour	10.91%		13.75%	
3+ Carpool volume peak in GP (peak hour)*	60		85	
3+ Carpool volume in GP (peak 2-hour)*	115		156	
3+ % Carpools in GP for peak hour	0.92%		1.59%	
3+ % Carpools in GP for peak 2-hour	1.05%		1.50%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.07		2.04	
General Purpose Lane Occupancy	1.14		1.15	
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.19		1.10	

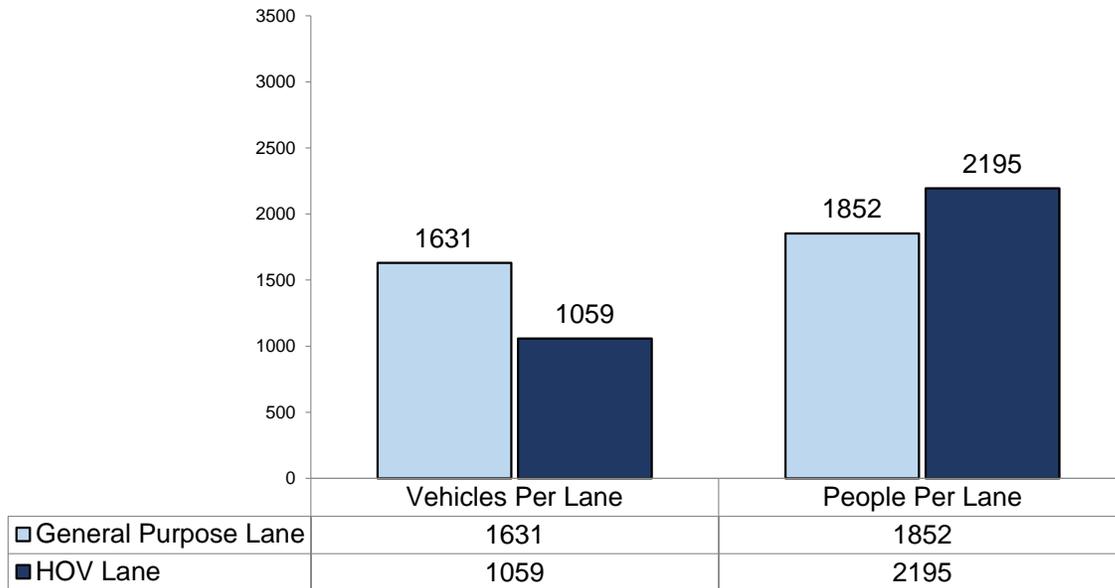
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

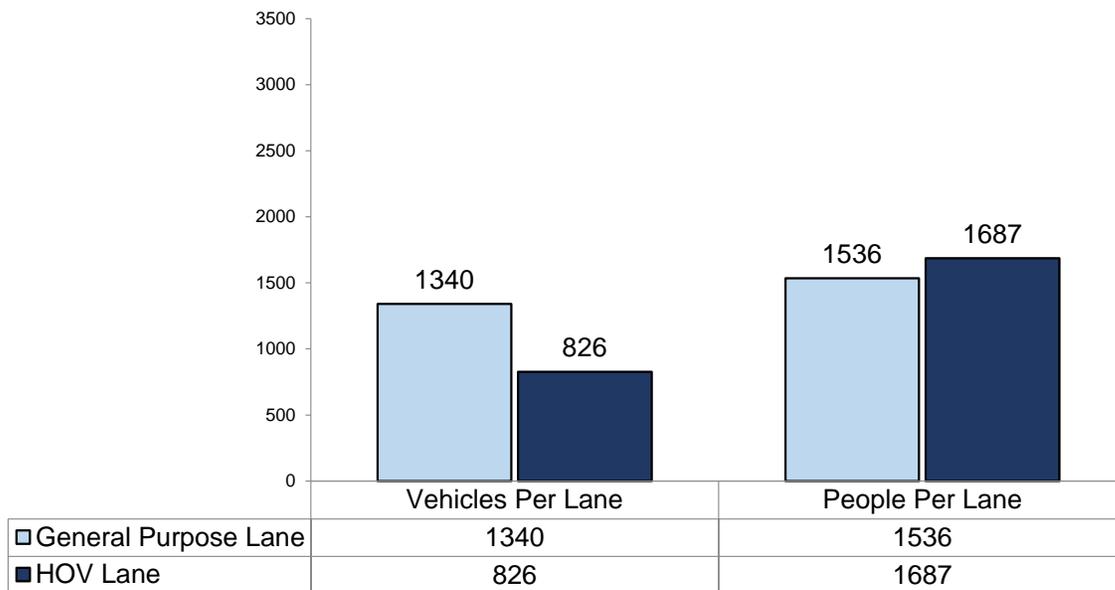
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-170-S/B at Sherman Way (Postmile R18.27)  
 Date/Time: 5-20-2015 / 6:30 AM - 7:30 AM



Location: LA-170-N/B at Sherman Way (Postmile R18.27)  
 Date/Time: 7-8-2015 / 4:45 PM - 5:45 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

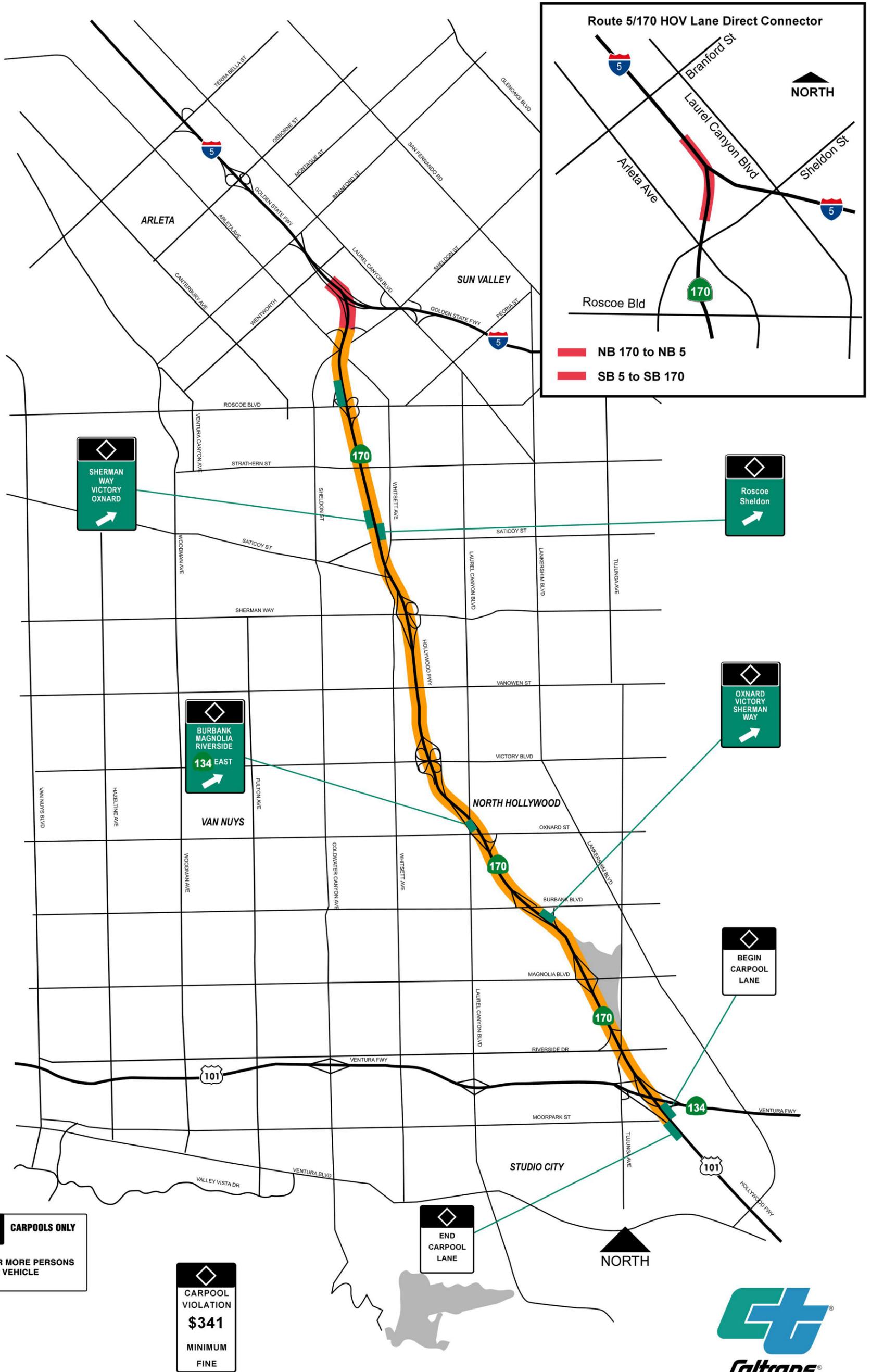
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170

# HOLLYWOOD FREEWAY HOV LANE

## Ventura Freeway (Rte 134) to Golden State Freeway (Rte 5)





# FACT SHEET

## ROUTE 210 FOOTHILL FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Ventura Freeway (Route 134) to San Bernardino County Line	R25.09 / R52.150	27.6 lane-miles (Eastbound)
San Bernardino County Line to Ventura Freeway (Route 134)	R52.150 / R25.09	27.4 lane-miles (Westbound)
		<b>55.0 lane-miles (Total)</b>

### Project Limits:

HOV lane drop ramp at Fair Oaks Ave (Eastbound)  
 Ventura Freeway (Route 134) to Sunflower Ave  
 Sunflower Ave to Foothill Blvd  
 Foothill Blvd to San Bernardino County Line

### Date of Opening:

May 1996  
 December 1993  
 September 1997  
 November 2002

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Wilson Ave	R26.57	Westbound	5/19/2015	7:15 – 8:15 A.M.	1050 vehicles
Wilson Ave	R26.57	Eastbound	5/19/2015	3:45 – 4:45 P.M.	1375 vehicles
Second St	R39.12	Westbound	5/27/2015	6:45 – 7:45 A.M.	1405 vehicles
Second St	R39.12	Eastbound	5/27/2015	4:00 – 5:00 P.M.	1586 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
Paxton	210	6.0	12501 Foothill Blvd at 210 & Paxton	Pacoima
Lowell	210	16.1	Route 210 at 3930 Lowell Ave	Glendale
Sierra Madre Blvd	210	29.4	Sierra Madre Blvd at Route 210	Pasadena
Citrus College*	210	40.6	1000 Foothill Blvd	Glendora
Grand Ave	210	41.5	628 W Baseline Rd at Grand Ave	Glendora
Lone Hill	210	44.2	Route 210 at Lone Hill Ave	Glendora

\*privately owned lot

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Eastbound	15	See Foothill Freeway HOV Lane map (attached)
Westbound	13	See Foothill Freeway HOV Lane map (attached)

### Additional Information:

HOV drop ramp from Fair Oaks Avenue to eastbound Foothill Freeway (Route 210) HOV lane.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 210**

Co. Rte. Dir.	LA 210 WB	LA 210 EB		
Location	WILSON	WILSON		
Post Mile	26.57	26.57		
Date	05/19/15	05/19/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b> Peak 1-Hour 7:15 - 8:15	<b>AM HOV</b> Peak 2-Hour 6:30-8:30	<b>PM HOV</b> Peak 1-Hour 15:45 - 16:45	<b>PM HOV</b> Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	874	1587	1228	2211
Vanpools	8	18	32	62
Buses	0	0	8	10
Motorcycles	27	60	38	82
Single Occupant Vehicles	78	134	24	60
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	63	110	45	117
<b>Total Vehicles in HOV Lane</b>	<b>1050</b>	<b>1909</b>	<b>1375</b>	<b>2542</b>
2+ Carpool volume in HOV Lane*	882	1605	1260	2273
3+ Carpool volume in HOV Lane*	77	135	156	258
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	1825	3309	2609	4665
People in Vanpools	48	108	192	372
People in Buses	0	0	240	310
People in CNG/EV, Single Occ. Veh. and Motorcycles	168	304	107	259
<b>Total HOV Lane People</b>	<b>2041</b>	<b>3721</b>	<b>3148</b>	<b>5606</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	5		5	
General Purpose Lane Vehicles**	8952	17504	8501	16223
<b>General Purpose Vehicles/Lane**</b>	<b>1790</b>	<b>3501</b>	<b>1700</b>	<b>3245</b>
General Purpose Lane People**	9634	18714	9479	18298
<b>General Purpose People/Lane**</b>	<b>1927</b>	<b>3743</b>	<b>1896</b>	<b>3660</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	10002	19413	9876	18765
Total Freeway People	11675	22435	12627	23904
% Freeway People in HOV Lane	17.48%	16.59%	24.93%	23.45%
% Freeway People per General Purpose Lane	16.50%	16.68%	15.01%	15.31%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	557		840	
2+ Carpool volume in GP (peak 2-hour)*	946		1754	
2+ % Carpools in GP for peak hour	6.22%		9.88%	
2+ % Carpools in GP for peak 2-hour	5.40%		10.81%	
3+ Carpool volume peak in GP (peak hour)*	41		114	
3+ Carpool volume in GP (peak 2-hour)*	112		200	
3+ % Carpools in GP for peak hour	0.46%		1.34%	
3+ % Carpools in GP for peak 2-hour	0.64%		1.24%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	1.94		2.29	
General Purpose Lane Occupancy	1.08		1.12	
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.06		1.66	

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 210**

Co. Rte. Dir.	LA 210 WB	LA 210 EB		
Location	2ND ST.	2ND ST.		
Post Mile	39.12	39.12		
Date	05/27/15	05/27/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b> Peak 1-Hour 6:45 - 7:45	<b>AM HOV</b> Peak 2-Hour 6:30-8:30	<b>PM HOV</b> Peak 1-Hour 16:30 - 17:30	<b>PM HOV</b> Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	1200	2270	1368	2709
Vanpools	19	35	68	111
Buses	4	5	0	4
Motorcycles	72	134	62	138
Single Occupant Vehicles	9	18	6	11
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	101	222	82	166
<b>Total Vehicles in HOV Lane</b>	<b>1405</b>	<b>2684</b>	<b>1586</b>	<b>3139</b>
2+ Carpool volume in HOV Lane*	1219	2305	1436	2820
3+ Carpool volume in HOV Lane*	79	144	177	320
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2464	4657	2865	5655
People in Vanpools	114	210	408	666
People in Buses	4	0	0	140
People in CNG/EV, Single Occ. Veh. and Motorcycles	182	374	150	315
<b>Total HOV Lane People</b>	<b>2764</b>	<b>5241</b>	<b>3423</b>	<b>6776</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	6008	11933	6048	11839
<b>General Purpose Vehicles/Lane**</b>	<b>1502</b>	<b>2983</b>	<b>1512</b>	<b>2960</b>
General Purpose Lane People**	6571	12949	6729	13199
<b>General Purpose People/Lane**</b>	<b>1643</b>	<b>3237</b>	<b>1682</b>	<b>3300</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	7413	14617	7634	14978
Total Freeway People	9335	18190	10152	19975
% Freeway People in HOV Lane	29.61%	28.81%	33.72%	33.92%
% Freeway People per General Purpose Lane	17.60%	17.80%	16.57%	16.52%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	395		460	
2+ Carpool volume in GP (peak 2-hour)*	745		924	
2+ % Carpools in GP for peak hour	6.58%		7.61%	
2+ % Carpools in GP for peak 2-hour	6.24%		7.80%	
3+ Carpool volume peak in GP (peak hour)*	45		65	
3+ Carpool volume in GP (peak 2-hour)*	85		184	
3+ % Carpools in GP for peak hour	0.75%		1.07%	
3+ % Carpools in GP for peak 2-hour	0.71%		1.55%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	1.97		2.16	
General Purpose Lane Occupancy	1.09		1.11	
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.68		2.03	

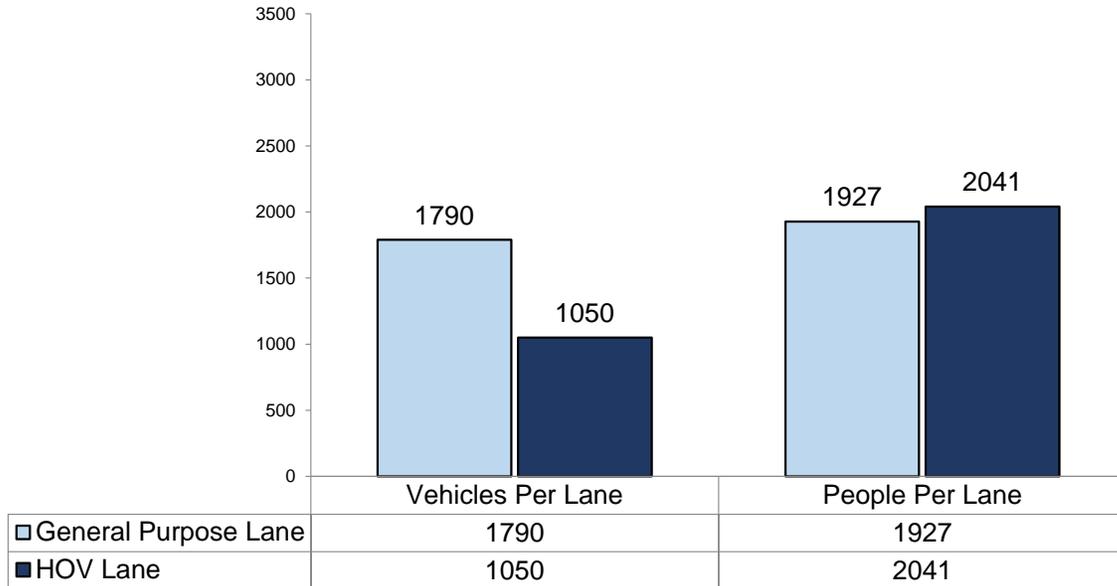
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

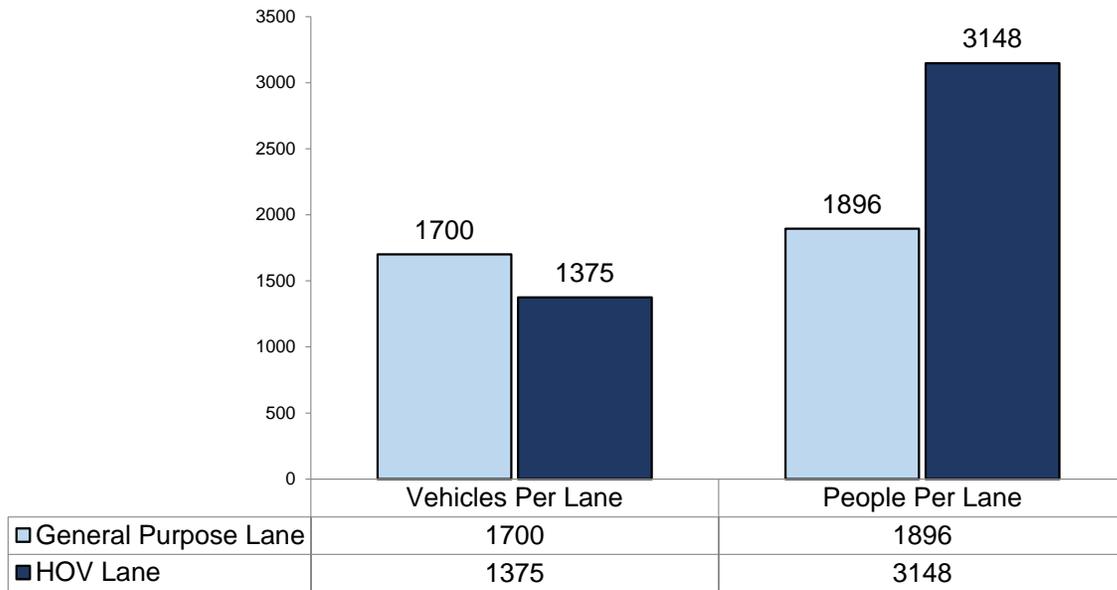
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-210-W/B at Wilson Ave (Postmile R26.57)  
 Date/Time: 5-19-2015 / 7:15 AM - 8:15 AM



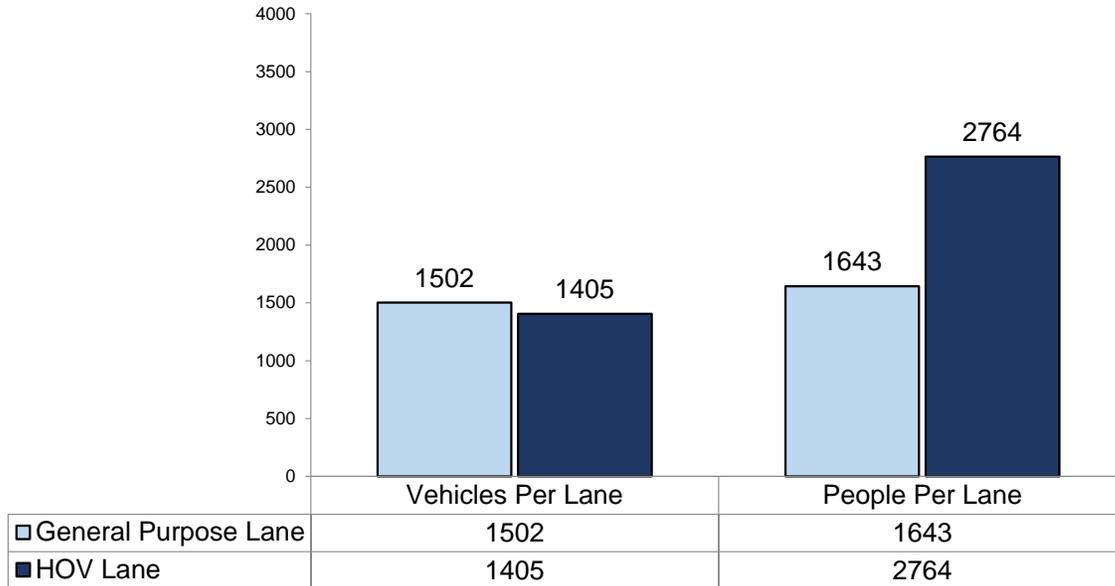
Location: LA-210-E/B at Wilson Ave (Postmile R26.57)  
 Date/Time: 5-18-2015 / 3:45 PM - 4:45 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

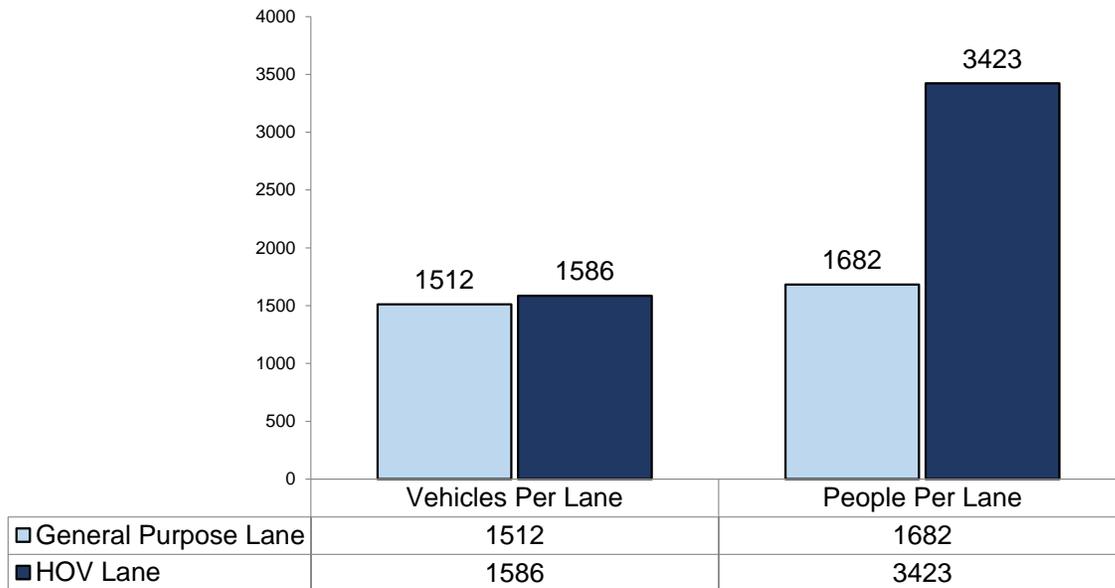
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-210-W/B at Second St (Postmile R39.12)  
 Date/Time: 5-27-2015 / 6:45 AM - 7:45 AM



Location: LA-210-E/B at Second St (Postmile R39.12)  
 Date/Time: 5-27-2015 / 4:30 PM - 5:30 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

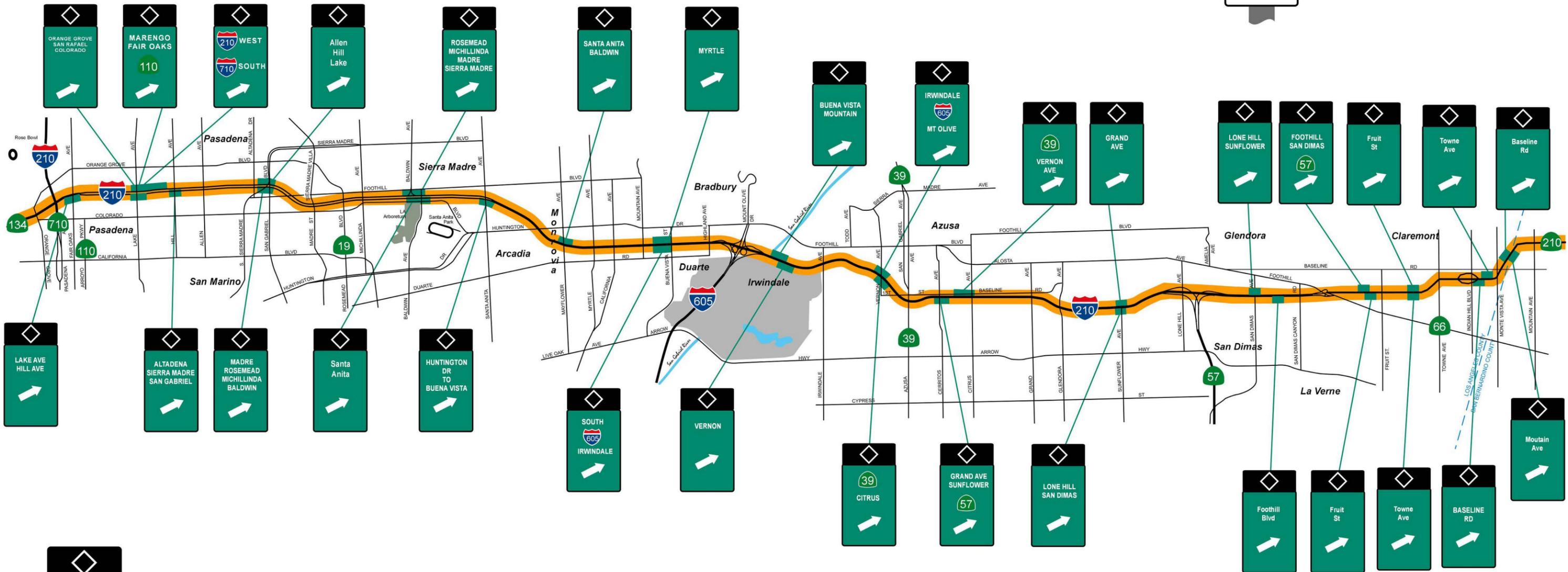
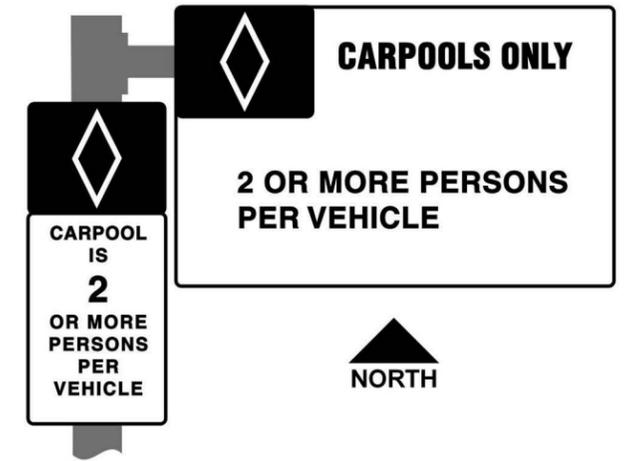
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# FOOTHILL FREEWAY HOV LANE

## Ventura Freeway (Rte 134) to San Bernardino County Line



**CARPOOL VIOLATION**  
**\$341**  
**MINIMUM FINE**

California Department of Transportation: District 7 Los Angeles and Ventura Counties

NO SCALE



210 HOVegresing 9/29/15



# FACT SHEET

## ROUTE 405 SAN DIEGO FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Orange County Line to Golden State Freeway (Route 5)	0.00 / 48.59	48.4 lane-miles (Northbound)
Golden State Freeway (Route 5) to Orange County Line	47.85 / 0.00	47.7 lane-miles (Southbound)
		<b>96.1 lane-miles (Total)</b>

### Project Limits:

<u>Project Limits:</u>	<u>Date of Opening:</u>
Orange County Line to Long Beach Freeway (Route 710)	February 1998
Long Beach Freeway (Route 710) to Harbor Freeway (Route 110)	October 1998
Harbor Freeway (Route 110) to 120 <sup>th</sup> St	April 1993
120 <sup>th</sup> St to Century Blvd	January 1994
Century Blvd to Marina Freeway (Route 90)	May 2006
Marina Freeway (Route 90) to Santa Monica Freeway (Route 10)	November 2009
Santa Monica Freeway (Route 10) to Santa Monica Blvd (Southbound)	November 2009
Santa Monica Blvd to Waterford St (Southbound)	August 2007
Waterford St to Ventura Freeway (Route 101) (Southbound)	January 2012
Santa Monica Fwy (Rte 10) to Ventura Bl/Ventura Fwy (Rte 101) (Northbound)	May 2014
Ventura Blvd/Ventura Freeway (Rte 101) to Burbank Blvd (Northbound)	October 2006
Burbank Blvd to Golden State Freeway (Route 5) (Northbound)	October 1996
Ventura Freeway (Route 101) to Golden State Freeway (Route 5) (Southbound)	October 1996

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Temple Ave	4.33	Northbound	6/4/2015	7:30 – 8:30 A.M.	1649 vehicles
Temple Ave	4.33	Southbound	6/4/2015	4:00 – 5:00 P.M.	1608 vehicles
Normandie Ave	13.81	Northbound	5/14/2015	6:30 – 7:30 A.M.	1208 vehicles
Normandie Ave	13.81	Southbound	5/14/2015	4:45 – 5:45 P.M.	1235 vehicles
Skirball Center Dr	36.72	Northbound	4/21/2015	6:30 – 7:30 A.M.	1649 vehicles
Skirball Center Dr	36.72	Southbound	4/21/2015	3:30 – 4:30 P.M.	1621 vehicles
Burbank Blvd	40.28	Southbound	6/23/2015	6:30 – 7:30 A.M.	906 vehicles
Burbank Blvd	40.28	Northbound	4/23/2015	4:00 – 5:00 P.M.	1441 vehicles

### Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	<u>Postmile (CA)</u>	<u>Lot Address</u>	<u>City</u>
Skirball and Mulholland	405	36.7	Route 405 at 2350 Skirball Center Dr	Los Angeles

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Northbound	28	See San Diego Freeway HOV Lane maps (attached)
Southbound	27	See San Diego Freeway HOV Lane maps (attached)

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 405**

Co. Rte. Dir.	LA 405 NB	LA 405 SB		
Location	TEMPLE	TEMPLE		
Post Mile	4.33	4.33		
Date	06/04/15	06/04/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b> Peak 1-Hour 7:30 - 8:30	<b>AM HOV</b> Peak 2-Hour 6:30-8:30	<b>PM HOV</b> Peak 1-Hour 16:00 - 17:00	<b>PM HOV</b> Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	1279	2478	1300	2489
Vanpools	13	37	48	87
Buses	5	9	10	17
Motorcycles	44	97	53	95
Single Occupant Vehicles	9	24	19	33
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	299	545	178	414
<b>Total Vehicles in HOV Lane</b>	<b>1649</b>	<b>3190</b>	<b>1608</b>	<b>3135</b>
2+ Carpool volume in HOV Lane*	1292	2515	1348	2576
3+ Carpool volume in HOV Lane*	70	151	144	257
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2624	5087	2718	5184
People in Vanpools	78	222	288	522
People in Buses	180	260	240	430
People in CNG/EV, Single Occ. Veh. and Motorcycles	352	666	250	542
<b>Total HOV Lane People</b>	<b>3234</b>	<b>6235</b>	<b>3496</b>	<b>6678</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	5		5	
General Purpose Lane Vehicles**	8618	16374	7918	15793
<b>General Purpose Vehicles/Lane**</b>	<b>1724</b>	<b>3275</b>	<b>1584</b>	<b>3159</b>
General Purpose Lane People**	9188	17394	8717	17377
<b>General Purpose People/Lane**</b>	<b>1838</b>	<b>3479</b>	<b>1743</b>	<b>3475</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	10267	19564	9526	18928
Total Freeway People	12422	23629	12213	24055
% Freeway People in HOV Lane	26.03%	26.39%	28.63%	27.76%
% Freeway People per General Purpose Lane	14.79%	14.72%	14.27%	14.45%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	510		712	
2+ Carpool volume in GP (peak 2-hour)*	913		1356	
2+ % Carpools in GP for peak hour	5.92%		8.99%	
2+ % Carpools in GP for peak 2-hour	5.58%		8.59%	
3+ Carpool volume peak in GP (peak hour)*	54		86	
3+ Carpool volume in GP (peak 2-hour)*	91		180	
3+ % Carpools in GP for peak hour	0.63%		1.09%	
3+ % Carpools in GP for peak 2-hour	0.56%		1.14%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	1.96		2.17	
General Purpose Lane Occupancy	1.07		1.10	
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.76		2.01	

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 405**

Co. Rte. Dir.	LA 405 NB	LA 405 SB		
Location	NORMANDIE	NORMANDIE		
Post Mile	13.81	13.81		
Date	05/14/15	05/14/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b> Peak 1-Hour 6:30 - 7:30	<b>AM HOV</b> Peak 2-Hour 6:30-8:30	<b>PM HOV</b> Peak 1-Hour 16:45 - 17:45	<b>PM HOV</b> Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	975	2020	999	1934
Vanpools	52	69	47	89
Buses	3	4	2	5
Motorcycles	9	30	23	49
Single Occupant Vehicles	11	20	10	17
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	158	381	154	279
<b>Total Vehicles in HOV Lane</b>	<b>1208</b>	<b>2524</b>	<b>1235</b>	<b>2373</b>
2+ Carpool volume in HOV Lane*	1027	2089	1046	2023
3+ Carpool volume in HOV Lane*	118	200	119	214
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2023	4184	2084	4019
People in Vanpools	312	414	282	534
People in Buses	61	60	20	90
People in CNG/EV, Single Occ. Veh. and Motorcycles	178	431	187	345
<b>Total HOV Lane People</b>	<b>2574</b>	<b>5089</b>	<b>2573</b>	<b>4988</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	5961	11278	4623	8756
<b>General Purpose Vehicles/Lane**</b>	<b>1490</b>	<b>2819</b>	<b>1156</b>	<b>2189</b>
General Purpose Lane People**	6153	11774	5048	9613
<b>General Purpose People/Lane**</b>	<b>1538</b>	<b>2943</b>	<b>1262</b>	<b>2403</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	7169	13802	5858	11129
Total Freeway People	8727	16863	7621	14601
% Freeway People in HOV Lane	29.50%	30.18%	33.76%	34.16%
% Freeway People per General Purpose Lane	17.63%	17.46%	16.56%	16.46%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	166		370	
2+ Carpool volume in GP (peak 2-hour)*	388		731	
2+ % Carpools in GP for peak hour	2.79%		8.00%	
2+ % Carpools in GP for peak 2-hour	3.44%		8.35%	
3+ Carpool volume peak in GP (peak hour)*	21		35	
3+ Carpool volume in GP (peak 2-hour)*	48		81	
3+ % Carpools in GP for peak hour	0.36%		0.76%	
3+ % Carpools in GP for peak 2-hour	0.42%		0.93%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.13		2.08	
General Purpose Lane Occupancy	1.03		1.09	
Equivalent Number General Purpose Lanes Needed to carry HOV People	1.67		2.04	

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 405**

Co. Rte. Dir.	LA 405 SB	LA 405 NB
Location	SKIRBALL	SKIRBALL
Post Mile	36.72	36.72
Date	04/21/15	04/21/15
Occupancy Requirement	2 +	2 +
	<b>AM HOV</b>	<b>AM HOV</b>
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>
	6:30 - 7:30	6:30-8:30
	<b>PM HOV</b>	<b>PM HOV</b>
	<b>Peak 1-Hour</b>	<b>Peak 2-Hour</b>
	15:30 - 16:30	16:00-18:00
<b>HOV Lane Vehicle Summary</b>		
Carpools (Vehicles with 2-5 occupants only)	1344	2411
Vanpools	21	36
Buses	14	31
Motorcycles	65	134
Single Occupant Vehicles	87	162
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	118	304
<b>Total Vehicles in HOV Lane</b>	<b>1649</b>	<b>3078</b>
2+ Carpool volume in HOV Lane*	1365	2447
3+ Carpool volume in HOV Lane*	78	153
<b>HOV Lane People Summary</b>		
People in Carpools (Vehicles with 2-5 occupants only)	2762	4966
People in Vanpools	126	216
People in Buses	520	1090
People in CNG/EV, Single Occ. Veh. and Motorcycles	270	600
<b>Total HOV Lane People</b>	<b>3678</b>	<b>6872</b>
<b>General Purpose Lane Summary</b>		
Number of General Purpose Lanes	5	5
General Purpose Lane Vehicles**	6641	12328
<b>General Purpose Vehicles/Lane**</b>	<b>1328</b>	<b>2466</b>
General Purpose Lane People**	7187	13292
<b>General Purpose People/Lane**</b>	<b>1437</b>	<b>2658</b>
<b>Freeway Summary</b>		
Total Freeway Vehicles	8290	15406
Total Freeway People	10865	20164
% Freeway People in HOV Lane	33.85%	34.08%
% Freeway People per General Purpose Lane	13.23%	13.18%
<b>General Purpose Lane Carpool Summary</b>		
2+ Carpool volume in GP (peak hour)*	505	1001
2+ Carpool volume in GP (peak 2-hour)*	860	1759
2+ % Carpools in GP for peak hour	7.61%	11.89%
2+ % Carpools in GP for peak 2-hour	6.98%	11.22%
3+ Carpool volume peak in GP (peak hour)*	25	107
3+ Carpool volume in GP (peak 2-hour)*	62	181
3+ % Carpools in GP for peak hour	0.38%	1.27%
3+ % Carpools in GP for peak 2-hour	0.51%	1.16%
<b>Occupancy (Peak Hour)</b>		
HOV Lane Occupancy	2.23	2.26
General Purpose Lane Occupancy	1.08	1.16
Equivalent Number General Purpose Lanes Needed to carry HOV People	2.56	1.88

Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 405**

Co. Rte. Dir. Location Post Mile Date Occupancy Requirement	LA 405 SB	LA 405 NB			
	BURBANK 40.28 06/23/15 2 +	BURBANK 40.28 04/23/15 2 +	AM HOV Peak 1-Hour 6:30 - 7:30	AM HOV Peak 2-Hour 6:30-8:30	PM HOV Peak 1-Hour 16:00 - 17:00
<b>HOV Lane Vehicle Summary</b>					
Carpools (Vehicles with 2-5 occupants only)	754	1415	1205	2295	
Vanpools	8	17	46	70	
Buses	6	16	1	7	
Motorcycles	46	93	48	108	
Single Occupant Vehicles	30	65	71	135	
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	62	153	70	177	
<b>Total Vehicles in HOV Lane</b>	<b>906</b>	<b>1759</b>	<b>1441</b>	<b>2792</b>	
2+ Carpool volume in HOV Lane*	762	1432	1251	2365	
3+ Carpool volume in HOV Lane*	82	165	126	234	
<b>HOV Lane People Summary</b>					
People in Carpools (Vehicles with 2-5 occupants only)	1604	3012	2507	4791	
People in Vanpools	48	102	276	420	
People in Buses	240	560	40	280	
People in CNG/EV, Single Occ. Veh. and Motorcycles	138	311	189	420	
<b>Total HOV Lane People</b>	<b>2030</b>	<b>3985</b>	<b>3012</b>	<b>5911</b>	
<b>General Purpose Lane Summary</b>					
Number of General Purpose Lanes	4		4		
General Purpose Lane Vehicles**	2891	5460	5756	10565	
<b>General Purpose Vehicles/Lane**</b>	<b>723</b>	<b>1365</b>	<b>1439</b>	<b>2641</b>	
General Purpose Lane People**	3318	6211	6479	12043	
<b>General Purpose People/Lane**</b>	<b>829</b>	<b>1553</b>	<b>1620</b>	<b>3011</b>	
<b>Freeway Summary</b>					
Total Freeway Vehicles	3797	7219	7197	13357	
Total Freeway People	5348	10196	9491	17954	
% Freeway People in HOV Lane	37.96%	39.08%	31.74%	32.92%	
% Freeway People per General Purpose Lane	15.51%	15.23%	17.07%	16.77%	
<b>General Purpose Lane Carpool Summary</b>					
2+ Carpool volume in GP (peak hour)*	285		586		
2+ Carpool volume in GP (peak 2-hour)*	506		1106		
2+ % Carpools in GP for peak hour	9.86%		10.18%		
2+ % Carpools in GP for peak 2-hour	9.27%		10.47%		
3+ Carpool volume peak in GP (peak hour)*	30		51		
3+ Carpool volume in GP (peak 2-hour)*	56		91		
3+ % Carpools in GP for peak hour	1.04%		0.89%		
3+ % Carpools in GP for peak 2-hour	1.03%		0.86%		
<b>Occupancy (Peak Hour)</b>					
HOV Lane Occupancy	2.24		2.09		
General Purpose Lane Occupancy	1.15		1.13		
Equivalent Number General Purpose Lanes Needed to carry HOV People	2.45		1.86		

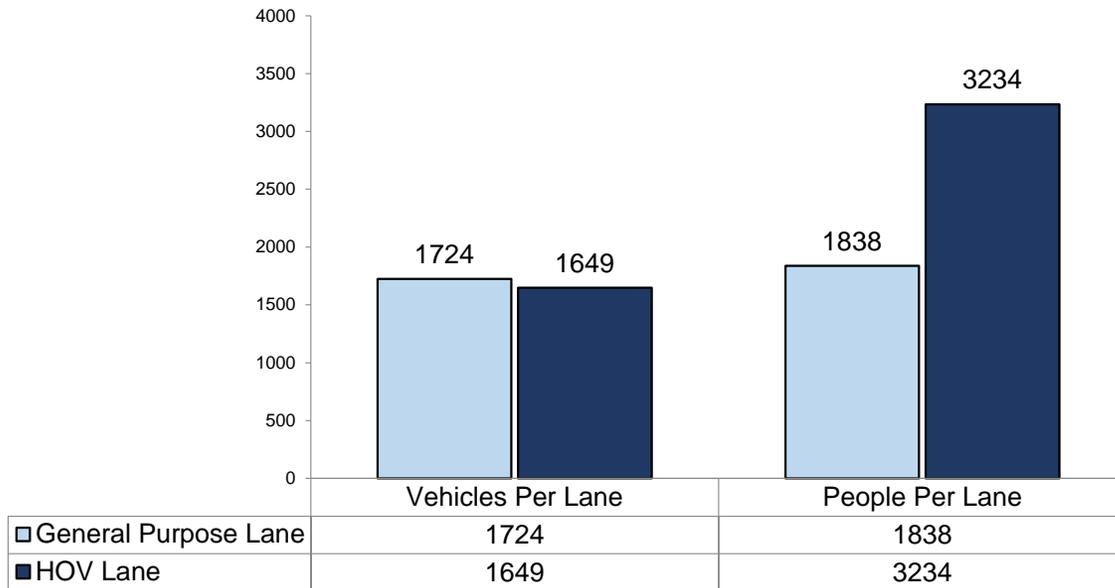
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

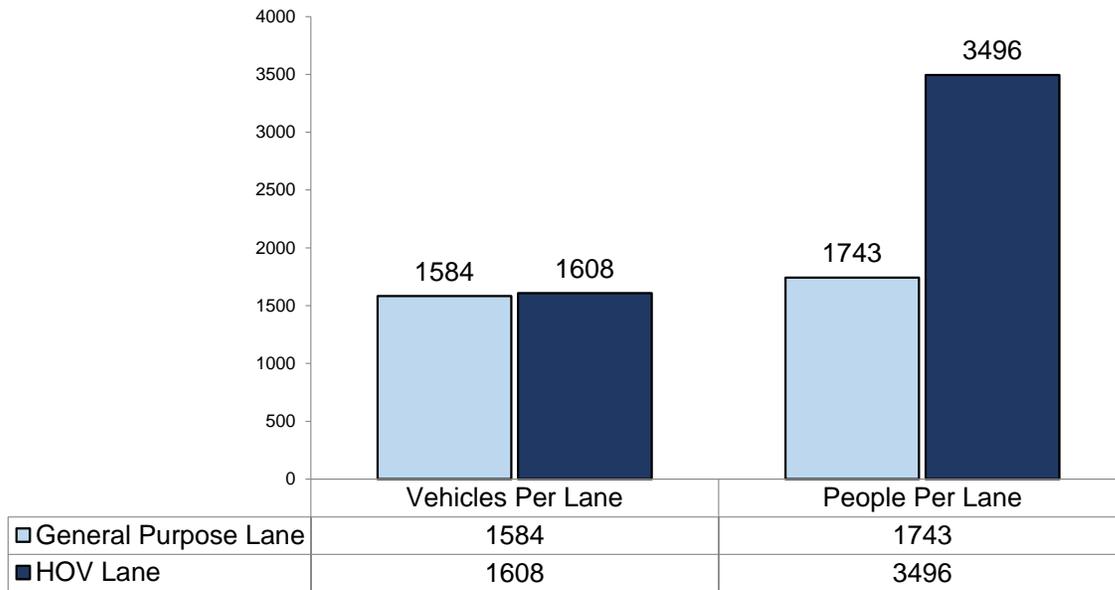
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-405-N/B at Temple Ave (Postmile 4.33)  
 Date/Time: 6-4-2015 / 7:30 AM - 8:30 AM



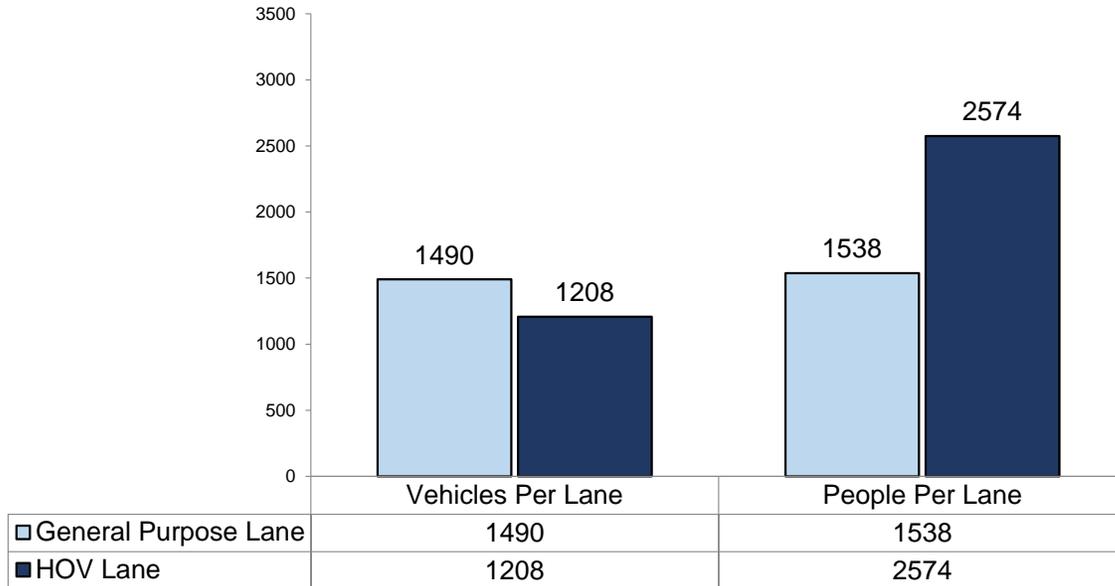
Location: LA-405-S/B at Temple Ave (Postmile 4.33)  
 Date/Time: 6-4-2015 / 4:00 PM - 5:00 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

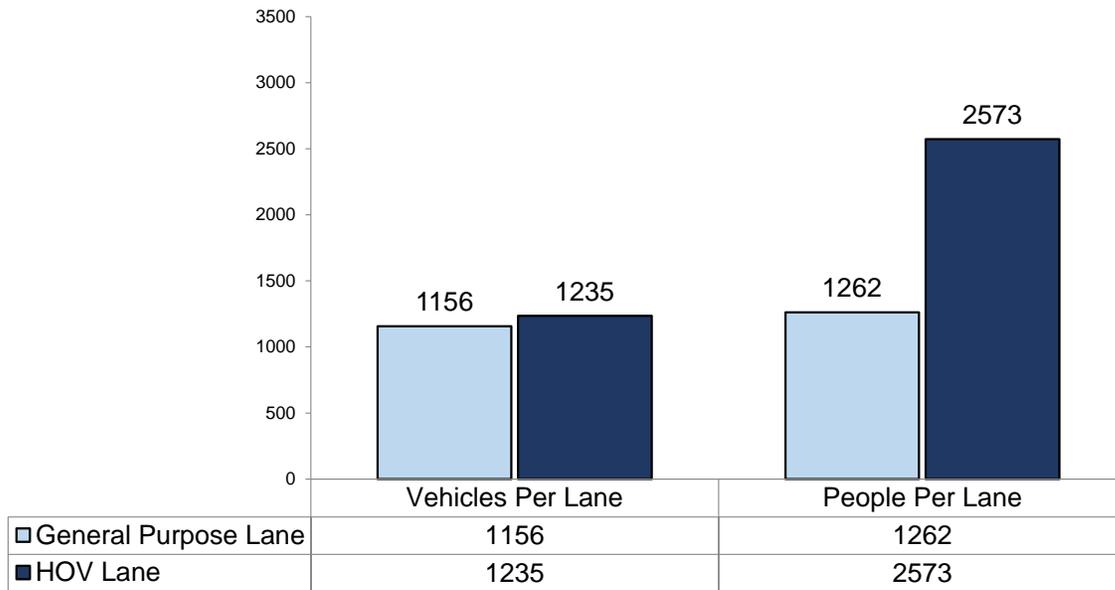
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

### 1-HOUR VOLUME COMPARISON\*



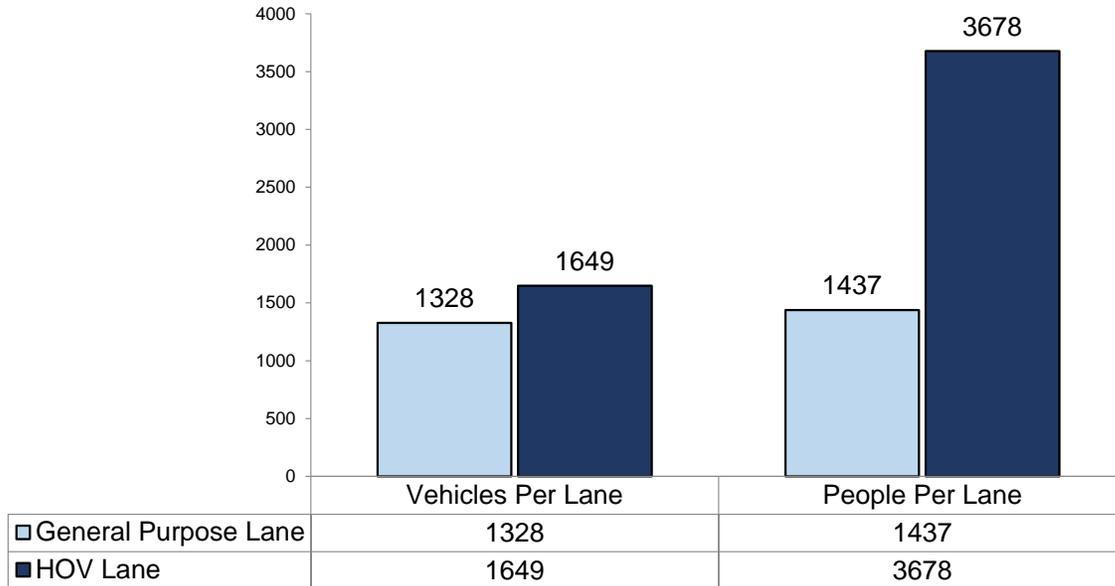
Location: LA-405-N/B at Normandie Ave (Postmile 13.81)  
 Date/Time: 5-14-2015 / 6:30 AM - 7:30 AM



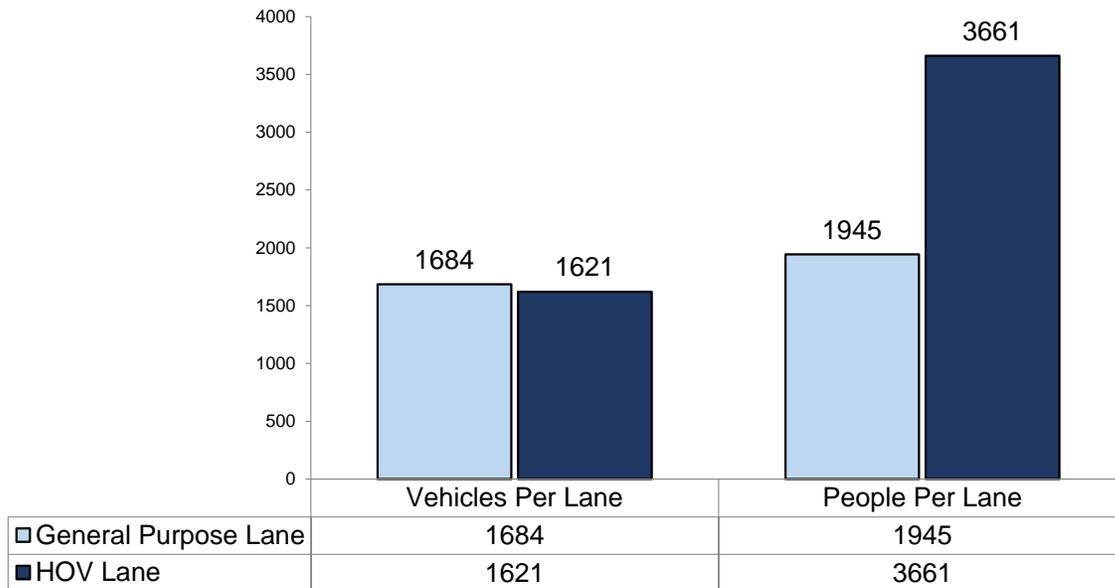
Location: LA-405-S/B at Normandie Ave (Postmile 13.81)  
 Date/Time: 5-14-2015 / 4:45 PM - 5:45 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.  
 Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.  
 Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-405-S/B at Skirball Center Dr (Postmile 36.72)  
 Date/Time: 4-21-2015 / 6:30 AM - 7:30 AM



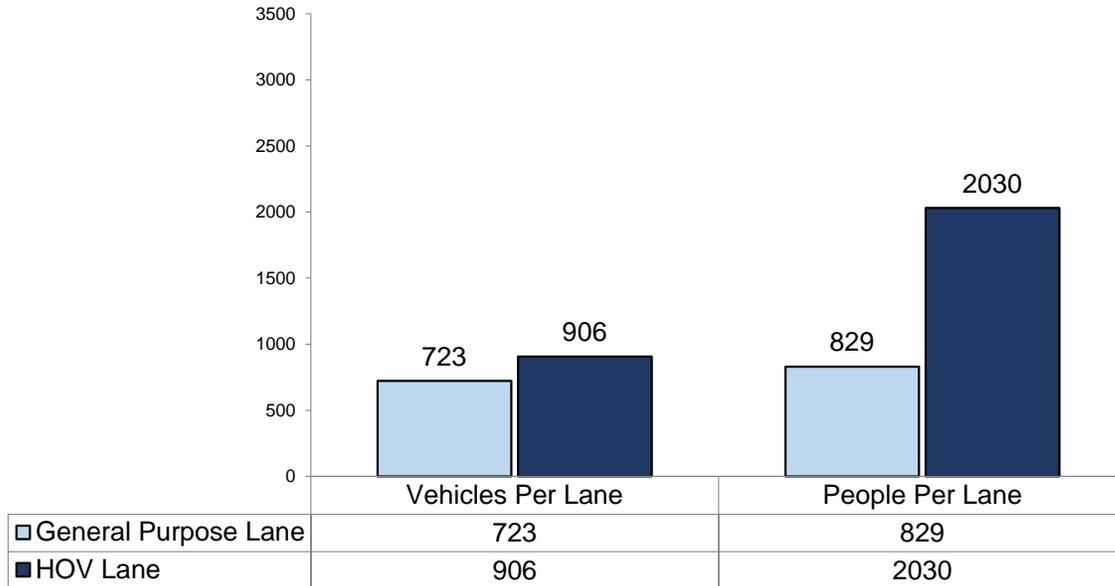
Location: LA-405-N/B at Skirball Center Dr (Postmile 36.72)  
 Date/Time: 4-21-2015 / 3:30 PM - 4:30 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

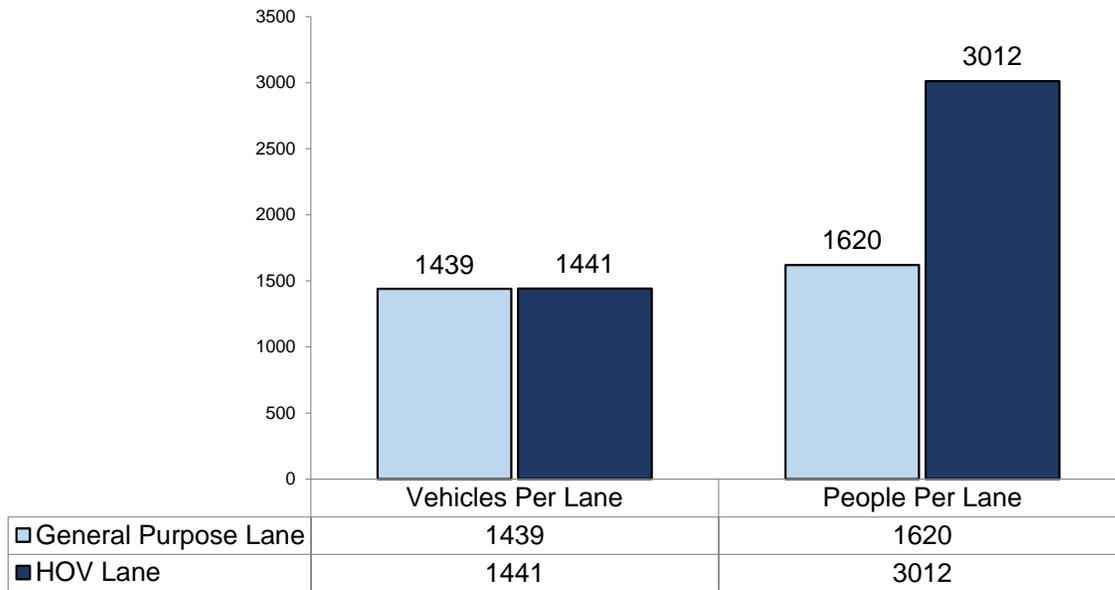
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-405-N/B at Burbank Blvd (Postmile 40.28)  
 Date/Time: 6-23-2015 / 6:30 AM - 7:30 AM



Location: LA-405-S/B at Burbank Blvd (Postmile 40.28)  
 Date/Time: 4-23-2015 / 4:00 PM - 5:00 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.  
 Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.  
 Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

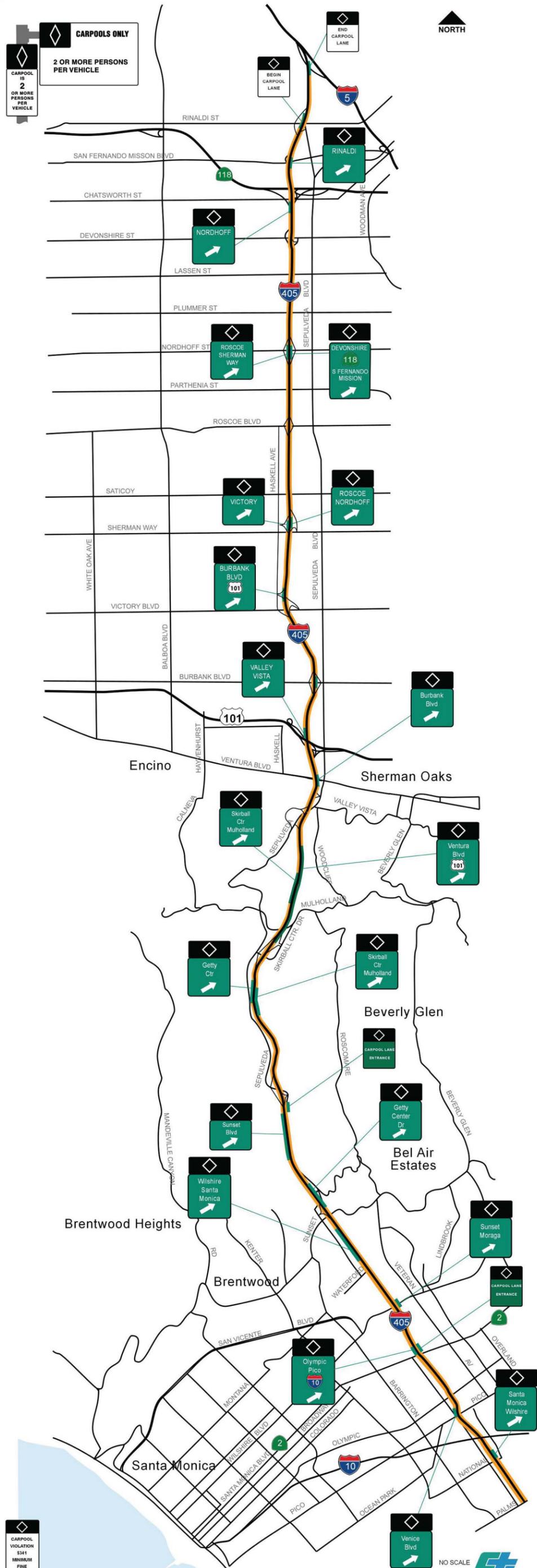
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# SAN DIEGO FREEWAY HOV LANE

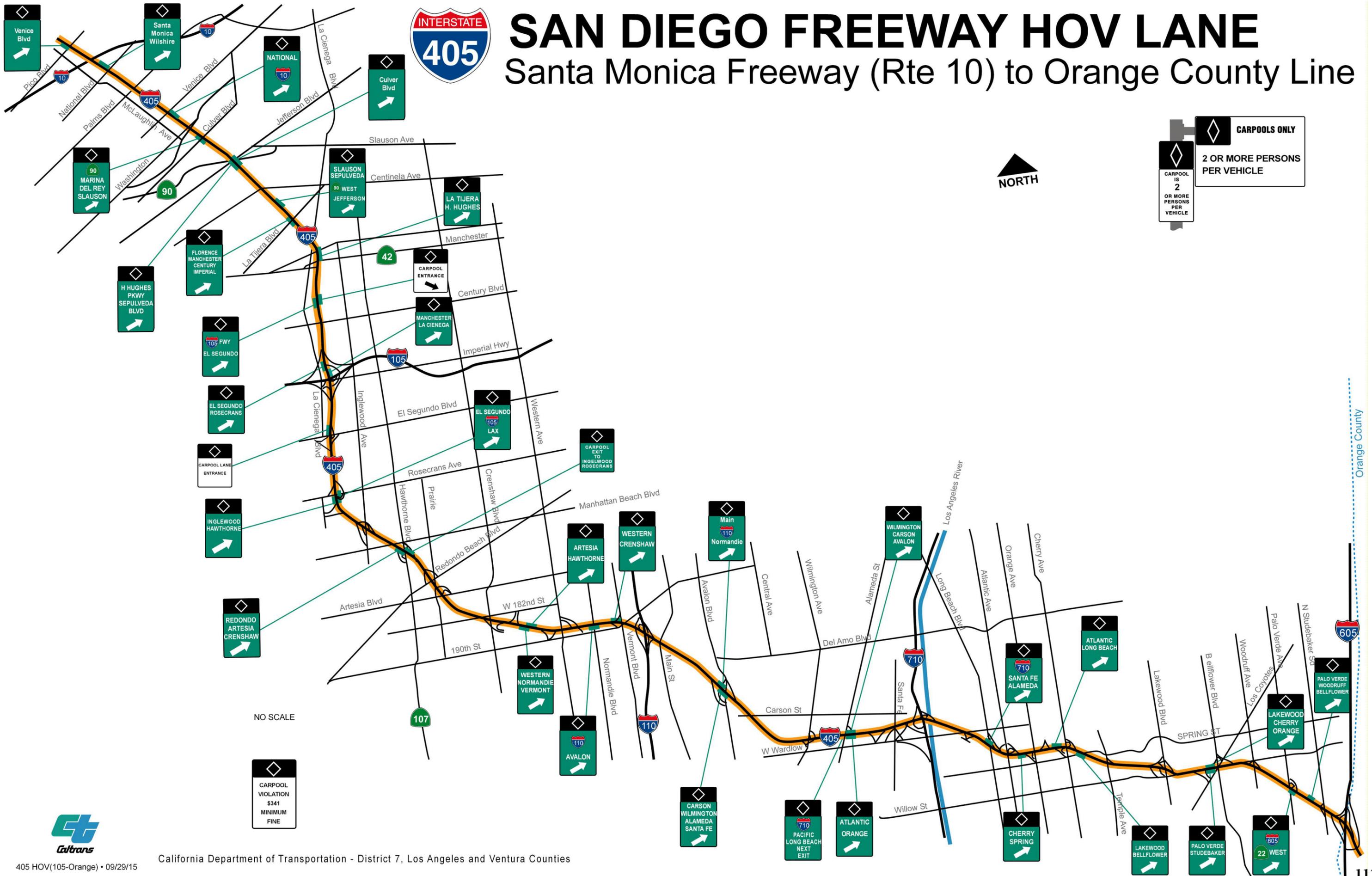
## Golden State Frwy (Rte 5) to Santa Monica Frwy (Rte 10)





# SAN DIEGO FREEWAY HOV LANE

## Santa Monica Freeway (Rte 10) to Orange County Line



**CARPOOLS ONLY**  
 CARPOOL IS 2 OR MORE PERSONS PER VEHICLE



NO SCALE

CARPOOL VIOLATION  
 \$341  
 MINIMUM FINE





# FACT SHEET

## ROUTE 605 SAN GABRIEL RIVER FREEWAY

<u>Description</u>	<u>Postmile (CA) (begin/end)</u>	<u>Length</u>
Orange County Line to San Bernardino Freeway (Rte 10)	R0.00 / R19.85	19.9 lane-miles (Northbound)
San Bernardino Freeway (Rte 10) to Orange County Line	20.71 / R0.00	<u>20.7 lane-miles (Southbound)</u>
		<b>40.6 lane-miles (Total)</b>

### Project Limits:

Orange County Line to South St  
 South St to Telegraph Rd  
 Telegraph Rd to San Bernardino Freeway (Route 10)

### Date of Opening:

March 2001  
 April 1997  
 April 1998

### 1-Hour HOV Lane Volume:

<u>Count Location</u>	<u>Postmile (CA)</u>	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Beverly Blvd	R14.41	Southbound	6/25/2015	6:30 – 7:30 A.M.	1362 vehicles
Beverly Blvd	R14.41	Northbound	6/2/2015	4:00 – 5:00 P.M.	1523 vehicles

### Number of HOV Lane Ingress/Egress (I/E) Locations (excludes begin/end of HOV lane):

<u>Direction</u>	<u>Number of I/E</u>	<u>Location</u>
Northbound	11	See San Gabriel River Freeway HOV Lane map (attached)
Southbound	11	See San Gabriel River Freeway HOV Lane map (attached)

**CALTRANS - DISTRICT 7**  
**HOV Lane Operation on Route 605**

Co. Rte. Dir.	LA 605 SB	LA 605 NB		
Location	BEVERLY	BEVERLY		
Post Mile	14.41	14.41		
Date	06/25/15	06/02/15		
Occupancy Requirement	2 +	2 +		
	<b>AM HOV</b> Peak 1-Hour 6:30 - 7:30	<b>AM HOV</b> Peak 2-Hour 6:30-8:30	<b>PM HOV</b> Peak 1-Hour 16:15 - 17:15	<b>PM HOV</b> Peak 2-Hour 16:00-18:00
<b>HOV Lane Vehicle Summary</b>				
Carpools (Vehicles with 2-5 occupants only)	1184	2348	1332	2618
Vanpools	12	17	48	82
Buses	7	13	1	3
Motorcycles	51	89	61	121
Single Occupant Vehicles	11	17	6	11
Compressed Natural Gas (CNG) and Electric Veh. (EV)***	97	198	75	155
<b>Total Vehicles in HOV Lane</b>	<b>1362</b>	<b>2682</b>	<b>1523</b>	<b>2990</b>
2+ Carpool volume in HOV Lane*	1196	2365	1380	2700
3+ Carpool volume in HOV Lane*	78	139	180	319
<b>HOV Lane People Summary</b>				
People in Carpools (Vehicles with 2-5 occupants only)	2440	4828	2830	5530
People in Vanpools	72	102	288	492
People in Buses	140	240	10	40
People in CNG/EV, Single Occ. Veh. and Motorcycles	159	304	142	287
<b>Total HOV Lane People</b>	<b>2811</b>	<b>5474</b>	<b>3270</b>	<b>6349</b>
<b>General Purpose Lane Summary</b>				
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	4664	8726	6033	11395
<b>General Purpose Vehicles/Lane**</b>	<b>1166</b>	<b>2182</b>	<b>1508</b>	<b>2849</b>
General Purpose Lane People**	4889	9223	6548	12276
<b>General Purpose People/Lane**</b>	<b>1222</b>	<b>2306</b>	<b>1637</b>	<b>3069</b>
<b>Freeway Summary</b>				
Total Freeway Vehicles	6026	11408	7556	14385
Total Freeway People	7700	14697	9818	18625
% Freeway People in HOV Lane	36.51%	37.25%	33.31%	34.09%
% Freeway People per General Purpose Lane	15.87%	15.69%	16.67%	16.48%
<b>General Purpose Lane Carpool Summary</b>				
2+ Carpool volume in GP (peak hour)*	210		385	
2+ Carpool volume in GP (peak 2-hour)*	435		655	
2+ % Carpools in GP for peak hour	4.50%		6.38%	
2+ % Carpools in GP for peak 2-hour	4.98%		5.75%	
3+ Carpool volume peak in GP (peak hour)*	15		45	
3+ Carpool volume in GP (peak 2-hour)*	40		65	
3+ % Carpools in GP for peak hour	0.32%		0.75%	
3+ % Carpools in GP for peak 2-hour	0.46%		0.57%	
<b>Occupancy (Peak Hour)</b>				
HOV Lane Occupancy	2.06		2.15	
General Purpose Lane Occupancy	1.05		1.09	
Equivalent Number General Purpose Lanes Needed to carry HOV People	2.30		2.00	

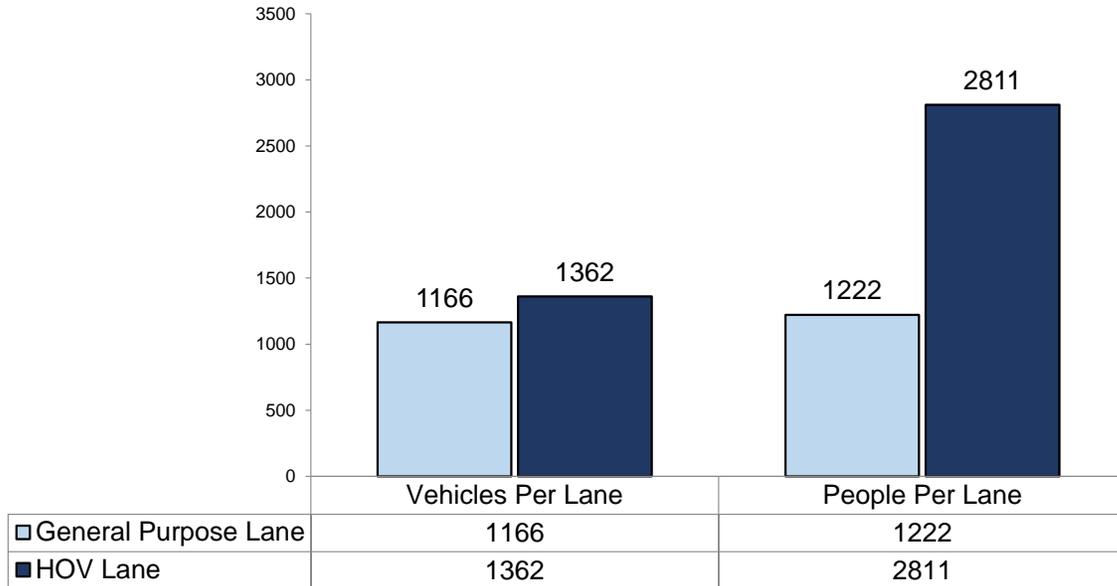
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00. The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

\* Carpools and vanpools only.

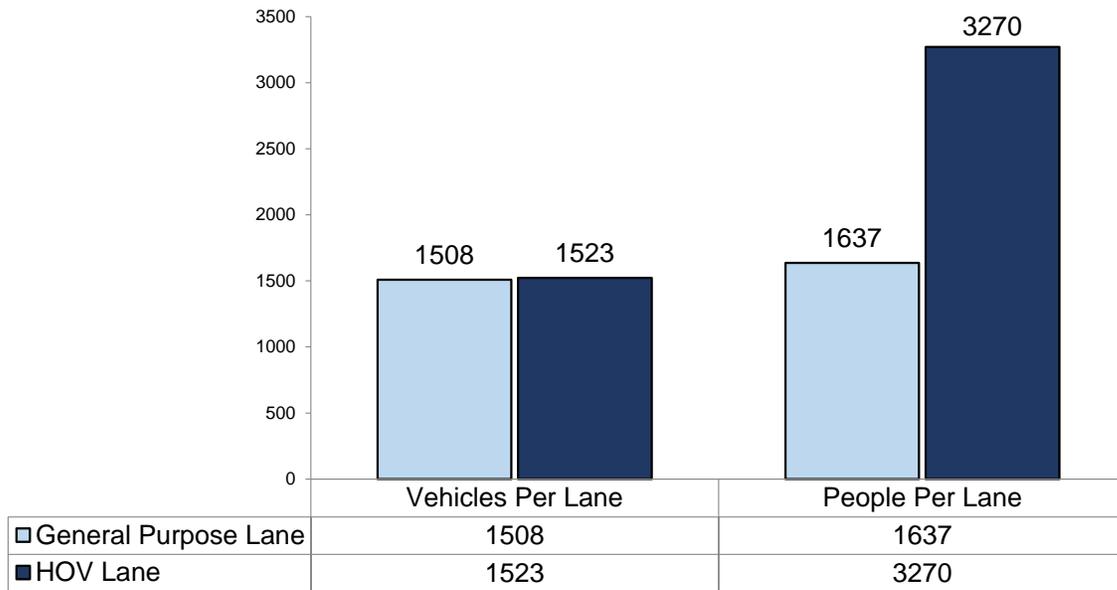
\*\* Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV and trucks.

\*\*\*Qualifying clean air vehicles displaying white or green CAV decals.

### 1-HOUR VOLUME COMPARISON\*



Location: LA-605-S/B at Beverly Blvd (Postmile R14.41)  
 Date/Time: 6-25-2015 / 6:30 AM - 7:30 AM



Location: LA-605-N/B at Beverly Blvd (Postmile R14.41)  
 Date/Time: 6-2-2015 / 4:15 PM - 5:15 PM

\* Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, CNG/EV, 3-axle trucks (general purpose lane only) and single occupant vehicles.

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# SAN GABRIEL RIVER FREEWAY HOV LANE

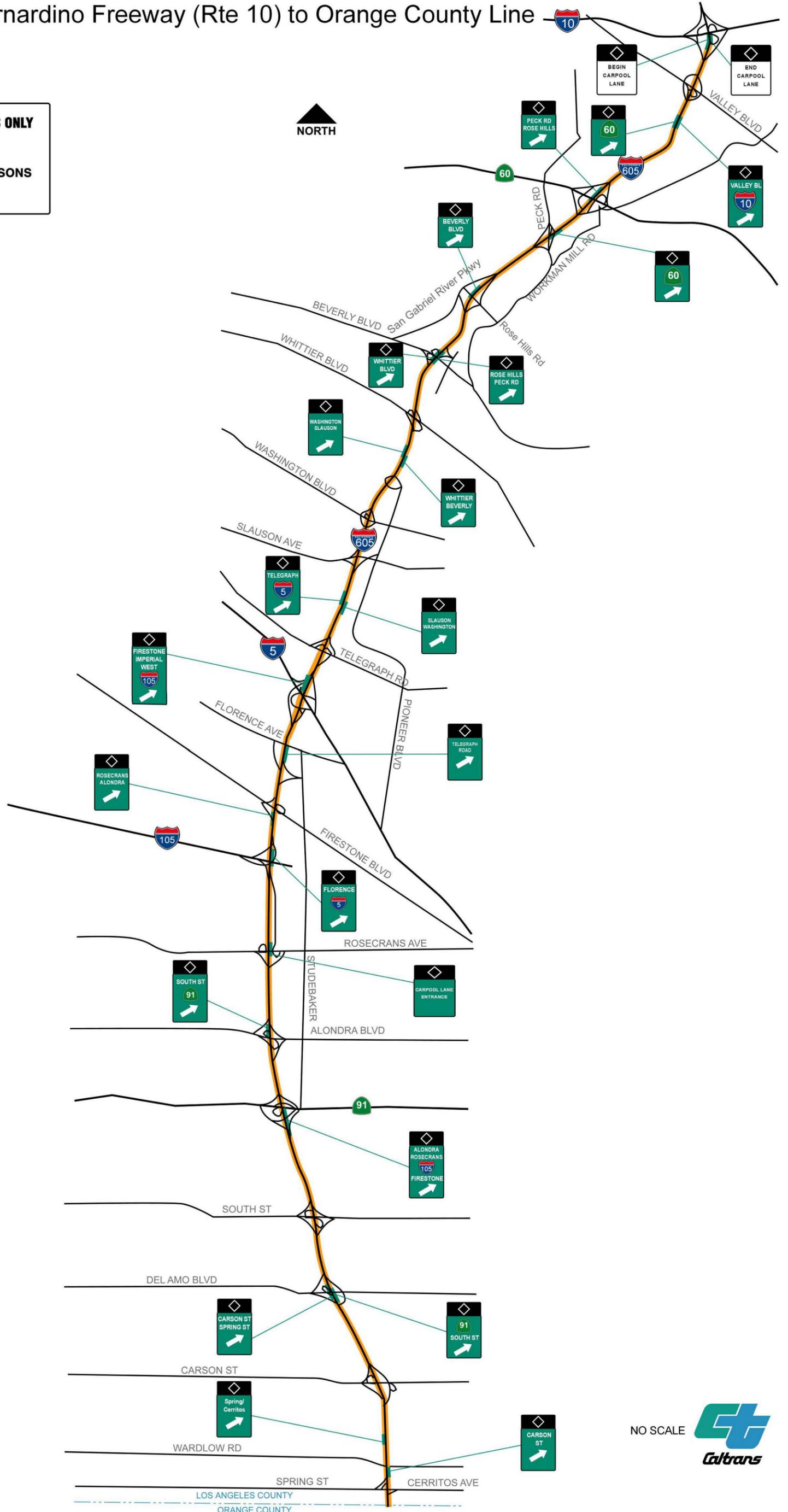
San Bernardino Freeway (Rte 10) to Orange County Line



**CARPOOLS ONLY**

**2 OR MORE PERSONS PER VEHICLE**

CARPOOL IS **2** OR MORE PERSONS PER VEHICLE



**CARPOOL VIOLATION**  
\$341  
MINIMUM FINE

NO SCALE

## Statewide HOV and Express Lane Inventory

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District	Region	Existing	
		HOV Lane (In-mi)	Express Lane (In-mi)
3	Sacramento	98.8	---
4	San Francisco Bay Area	443.7	20.9
5	Santa Barbara	2.9	---
7	Los Angeles / Ventura	474.7	82.2
8	San Bernardino / Riverside	201.6	---
10	Stockton	---	---
11	San Diego	36.8	80.2
12	Orange County	218.0	40.2*

\* Route 91 Express lane toll policy was amended in May 2003 to allow carpoolers with 3 or more persons to ride for free during most hours. The exception is Monday through Friday from 4pm - 6pm in the eastbound direction when 3+ carpoolers pay 50 percent of the posted toll.

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