2016 MANAGED LANE ANNUAL REPORT



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District 7
Los Angeles and Ventura Counties

Division of Traffic Operations Office of System Performance Managed Lanes Branch

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COUNT DATA PROTOCOL DISCLOSURE

The 2016 Managed Lane Annual Report, formerly "High Occupancy Vehicle (HOV) Annual Report", is prepared by the Division of Traffic Operations, Office of System Performance, Managed Lanes Branch in Caltrans District 7. Manual count data (including vehicle volume, occupancy, and classification) were primarily collected from late September 2016 to mid-December 2016. Managed Lane (High Occupancy Vehicle and Express Lane) and General Purpose (GP) Lane data were collected by means of two to four person teams situated at freeway overpasses and pedestrian overcrossings.

Counts are typically performed on weekdays (Tuesday, Wednesday, and/or Thursday) from 6:30 am to 8:30 am in the morning and from 3:30 pm to 6:00 pm in the afternoon in the travel direction during peak traffic periods. One manual occupancy count is performed at each count location in the morning and afternoon. Counts were not taken when weather or unusual traffic conditions could be considered a factor, e.g. rain, fog, traffic accidents, etc. Days affected by holidays were also excluded from the count to factor out unusually higher occupancies from recreational travel.

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

Typically, GP lane volume, occupancy, and vehicle classification information are gathered in the travel direction during peak traffic period by sampling one lane for a pre-determined time, and then performing the same for all other lanes of the highway. For example, a freeway with three GP Lanes in each direction, is sampled at eight minutes per lane. The three sets of eight-minute data are then extrapolated to calculate a 30-minute all-lane volume, occupancy, and classification counts. Similarly, four GP lanes are counted at 6 minutes per lane for a total of 24 minutes and five GP lanes are counted at 5 minutes per lane for a total of 25 minutes.

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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ACKNOWLEDGEMENTS

The 2016 Managed Lane Annual Report is prepared by the Division of Traffic Operations, Office of System Performance, Managed Lanes Branch in Caltrans District 7. The information in this report encompasses all Managed Lanes in Los Angeles and Ventura Counties.

Approved by: Ali Zaghari, Deputy District Director Division of Traffic Operations	12/14/17 Date
Reviewed by: Homar Noroozi, Principal Transportation Engineer Division of Traffic Operations	12/11/2017 Date
Approval Recommended by: Shafiqul Islam Chief Office of System Performance	12/08/17 Date/
Prepared by: Dawn Helou, Chief Managed Lanes Branch	/Z/8//7 Date/

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

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EXECUTIVE SUMMARY

California Department of Transportation (Caltrans), District 7 covering Los Angeles and Ventura Counties has one of the most extensive Managed Lane (HOV and Express lane) systems in the country. Los Angeles and Ventura Counties Managed Lane system is part of a larger regional metropolitan system that serves the five counties of 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 District 7 are operated on a 24 hour basis except State Route 14 in Los Angeles County and Route 101 in Ventura County. With the exception of Route 10 (San Bernardino Freeway) Express Lanes (Alameda Street to Route 605) and Route 110 (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, issued by the Los Angeles County Metropolitan Transportation Authority (Metro).

Caltrans District 7 has added several hundred HOV lane-miles since the introduction of the first HOV lane facility in 1973 on Route 10 (San Bernardino Freeway). The current total inventory within Los Angeles and Ventura Counties consist of 557 lane-miles of Managed Lane facilities. It is comprised of 474 lane-miles of HOV lanes and 83 lane-miles of Express lanes.

Statewide, there are approximately 1500 lane-miles of HOV lanes and 210 lane-miles of Express lanes, excluding Route 91 Express Toll lanes in Orange and Riverside Counties (74 lane-miles). Route 91 Express Toll Lanes allow vehicles with 3 or more persons to travel toll free except when travelling eastbound, Monday through Friday between 4 p.m. and 6 p.m. During this time period, carpools of three or more receive a 50 percent discount on the posted toll.

A typical Managed Lane facility in District 7 accommodates an average of approximately 1500 vehicles per hour per lane or 3100 people per hour per lane, during the morning and afternoon highest 1-hour volume, with some carrying over 1600 vehicles per hour per lane. Approximately 412,000 vehicles or 855,000 people use the Managed Lanes system on a daily basis. On average, the highest 1-hour volume is 10%, and the highest 2-hour volume is 20% of the daily Managed Lane traffic volume. These volumes exceed the minimum volume of 800 vehicles per hour per lane or 1800 people per hour per lane, as prescribed in the 2016 *High-Occupancy Vehicle Guidelines for Planning, Design, and Operations*.

On average, vehicle occupancy during the morning and afternoon highest 1-hour HOV lane volume, excluding Route 10 and 110 Express lanes is 2.1 persons (2.0 persons with buses excluded). For Route 10 and 110 Express lanes, the average vehicle occupancy is 2.0 persons (1.3 persons with buses excluded). An average person-trip volume of a Managed Lane facility is twice than that of a General Purpose lane during peak hours (two General

EXECUTIVE SUMMARY

Purpose lanes carry an equal number of people in the Managed Lane). During the highest 1-hour peak volume, a typical Managed Lane facility carries 33% of the entire freeway's people in just 20% of the freeway's space, while an adjacent single general purpose lane carries 17% of the entire freeway's people in the same 20% space.

The average violation rate for HOV lane facilities in Los Angeles County is 3.3% of the total vehicles travelling in the HOV lanes during the highest 1-hour morning and afternoon peak volume. Proper signing, pavement delineation, and CHP enforcement have been important factors in keeping the violation rates below the suggested target rate of 10%.

Due to the increasingly high volume of vehicles using the Managed Lane system in District 7 during the morning and afternoon peak hours, some segments may be experiencing traffic congestion and are therefore identified as degraded HOV facilities. The "California High-Occupancy Vehicle Lane Degradation Determination Report" is prepared annually by Caltrans to report the performance of the Managed Lane network in California as required by the Federal Highway Administration (FHWA). Caltrans also prepares an annual Degradation Action Plan that discusses the causes of degradation and identifies remediation strategies to bring degraded facilities into compliance with federal requirements.

Metro developed the 2017 "Countywide ExpressLanes Strategic Plan" to guide development and funding of a system of Express Lanes for the County. The plan utilized traffic and revenue forecasts along with mobility criteria to guide phased (Tier 1-3) implementation of projects over a 25 year horizon.

Since 1992, the Managed Lane system in District 7 has been able to sustain growth in the number of two or more person carpools on freeways with Managed Lanes. By contrast, freeways without Managed Lanes have seen their total number of carpools remain relatively constant or decrease. One of the primary objectives of the Managed Lane system was to provide an incentive to rideshare, and therefore, increase the person-moving capacity of the freeway, which has been accomplished, according to the many years of data collection and analysis. Los Angeles County managed lane system serves approximately 412,000 vehicles or 855,000 people per day. When complete, Los Angeles and Ventura Counties will have approximately 700 lane-miles of Managed Lane facilities.

INTRODUCTION

District 7 Managed Lane system includes HOV lanes, 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. Table below is a summary of these components.

District 7 Managed Lane System		
High Occupancy Vehicle (HOV) lanes	474.0	lane-miles
Express lanes	82.8	lane-miles
Freeway-to-freeway Managed Lane direct connector ramps*	12	ramps
Direct Managed Lane entrance and exit ramps**	7	ramps
HOV on-ramp bypass lanes	356	ramps
Park and ride Lots	55	lots
Transit stations***	26	stations
* Route 5/170 (2), Route 5/14 (2), Route 57/60 (2), Route 110/105 (4) and Route 10/710 (2)		

^{**} Route 10 at Del Mar (2), Route 110 at Adams (1), Route 110 at 28th St (1), Route 110 at Harbor Gateway Transit Center (2) and Route 210 at Fair Oaks (1)

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 objective was to increase the person movement capacity of the freeway, reduce commute costs, and provide rideshare incentives. The system was designed to improve air quality, conserve energy, increase mobility and efficiency of all trips, and reduce congestion.

I-10 (San Bernardino Freeway) HOV lane corridor between downtown Los Angeles and El Monte, also known as the El Monte Busway, was the first HOV lane facility in Los Angeles County. The easterly segment opened in 1973 and the westerly segment was added to the system a year later. Originally designed as a bus only facility, carpools with three persons or more were allowed to use the facility beginning 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 November 2012, a one-year demonstration program began on the I-110 (Harbor Freeway) HOV lanes from Harbor Gateway Transit Center to Adams Boulevard which converted the HOV lanes to Express Lanes, allowing vehicles not meeting the minimum occupancy requirement to pay a toll for the use of the facility. In February 2013, the I-10 HOV lanes from Alameda Street to Route 605 were also converted to Express Lanes. In September 2014, Senate Bill 1298 (SB 1298) was approved, extending the authority to Los Angeles County Metropolitan Transportations 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.

^{***} Transit stations along Route 10, 105, 110, and 210 Managed Lane facilities.

INTRODUCTION

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 lanemiles 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 that period, the Route 105 (Century Freeway) and the Route 110 (Harbor Freeway) HOV lanes were completed. As of December 2016, Los Angeles and Ventura Counties had 557 lane-miles of Managed Lane facilities, which includes 474 lane-miles of HOV lanes and 83 lane-miles of Express Lanes (I-10 San Bernardino Freeway from Alameda Street to Route 605 and I-110 Harbor Freeway from Harbor Gateway Transit Center to Adams Boulevard).

With the exception of the I-10 San Bernardino (Alameda Street to Route 605) and I-110 Harbor Freeway Express Lanes, all HOV lanes within Los Angeles and Ventura counties require a minimum occupancy of two or more persons.

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

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 District 7 has been able to sustain growth in the number of two persons or more carpools on freeways with HOV lanes; By contrast, the freeways without HOV lanes have seen their total number of carpools remain relatively constant or decrease. Los Angeles County managed lane system serves approximately 412,000 vehicles or 855,000 people per day. When complete, Los Angeles and Ventura Counties will have approximately 700 lane-miles of Managed Lane facilities.

STATUS OF MANAGED LANE PROJECTS California Department of Transportation (Caltrans) - District 7 Managed Lane System

		Lane Sys				
ROUTE	EA		REEWAY CE		_	OPENING DATE
LA-10 17.0/27.9 Alameda to Baldwin Ave		EXISTING 11.0	CONSTRUCTION	DESIGN	PLANNING	MM/DD/YY (MM/YY) 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 BI (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 BI	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 LA-170 R14.5/R20.3 Rte 101/134 to Rte 5	120284 120274	5.0 5.8				10/02/95 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 BI		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 LA-605 R3.9/R10.8 South St to Telegraph Rd	115054 119394	11.3 6.9				03/0/7/97 04/02/97
LA-503 R3.9/R10.6 South St. to Telegraph Rd 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 BI	119981	2.8				09/08/97
LA-405 0.0/7.9 Orange Co Line to Rte 710	116874	7.7	İ			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 LA-605 R0.0/R3.9 Ora. Co Line to South St.	125604	10.3	 			09/23/99
LA-605 R0.0/R3.9 Ora. Co Line to South St. LA-405 31.9/38.6 Waterford to Rte 101/Ventura BI (SB Only)	1347U4 1667U4	3.9 6.7	-			03/2001 01/08/02
LA-14 44.0/R54.5 Escondido to Pearlblossom	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 BI 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 BI to Rte 90	1198U4	4.2				05/23/06
LA-14 R54.5R/R60.7 Pearlblossom to Avenue P-8	125204	6.2				08/18/06
LA-405 38.6/40.2 Ventura BI to Burbank BI (NB Only)	199624					10/11/06
LA-405 30.7/31.9 Santa Monica BI to Waterford (SB Only)	1257U4 195904	1.2				02/23/07 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 BI (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-110 9.8/20.7 Rte 91 to Adams BI (Convert HOV to Express Lane)						11/10/12
LA-5 Rte 5/14 HOV Direct Connector	168004	0.8				12/23/12
LA-10 17.0/27.9 Alameda St to Rte 605 (Convert HOV to Express Lane)	447074					02/23/13
LA-10 30.7/32.8 Rte 605 to 0.5 mi. west of Puente Ave LA-405 29.5/38.6 Rte 10 to Rte 101 (NB Only)	117074 120304	2.1				12/13/13 EB; 12/19/13 WB 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 N Fork Coyote Creek Bridge to Marquardt Ave (Seg 1)	215913		0.7			05/16 (Widening completed)
LA-5 2.1/2.7 Marquardt Ave to Shoemaker Ave	2159C3		0.6			12/17
LA-5 2.7/4.0 Shoemaker Ave to Silverbow Ave (Seg 3)	215933		1.3			07/18
LA-5 26.6/29.0 Rte 134 to Magnolia Blvd	121843		2.4			08/18
LA-10 32.8/37.5 0.5 mi. west of Puente Ave to Citrus St LA-5 4.0/5.8 Silverbow Ave to Day Rd (Seg 4)	1170U3 215943		1.8			04/19 04/19
LA-5 5.8/6.8 Day Rd to Rte 605 (Seg 5)	215943		1.0			09/19
LA-5 29.0/32.3 Magnolia Blvd to Hollywood Way	1218W3		3.3			12/19
LA-5 0.0/1.4 Orange Co Line to N Fork Coyote Creek Bridge (Seg 2)	215923		1.4			02/20
LA-10 37.5/42.4 Citrus St to Rte 57	1193U3		4.9			12/21
LA-14 R32.06/R60.7 n/o Via Princessa to Ave P-8 (Convert to Continuous Access)	3W4501					07/19
LA-5 R45.3/59.0 Rte 14 to Parker Rd	2332E1			13.7		09/20
LA-71 R0.7/R4.7 Rte 10 to SBD Co Line (Convert Expressway to Freeway)	210601			5.4		10/21
LA-605 R11.56/20.4 Slauson Ave to Rte 10 (Convert HOV to Express Lane)	3101U0		 			01/25
LA-605 R0.0/R7.65 Orange Co Line to Rte 105 (Convert HOV to Express Lane) LA-105 R1.8/R18.1 Rte 405 to Rte 605 (Convert HOV to Express Lane)	34080K 31450K		 			02/25
LA-605 R7.65/R11.56 Rte 105 to Slauson Ave (Convert HOV to Express Lane)	31450K 298210		 			05/25 08/25
LA-5 6.8/8.96 Rte 605 to Paramount Blvd	298210		 			08/25
LA-5 13.4/14.6 Eastern Ave to Rte 710	2159E0				1.2	04/27
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 / Palmdale Blvd to Avenue L					5.0	
LA-60 Rte 60/605 HOV Direct Connector					1.0	Non-programmed
LA-10 Rte 10/605 HOV Direct Connector					1.0	Non-programmed
LA-5 Rte 5/405 HOV Direct Connector					1.0	Non-programmed
LA-5 22.4/26.7 Rte 2 to Rte 134					4.3	Non-programmed
LA-5 18.4/22.4 Rte 10 to Rte 2					4.0	Non-programmed
LA-10 R5.5/14.8 Rte 405 to Rte 110					9.3	Non-programmed
LA-710 26.5/R32.7 Rte 10 to Rte 210	020090				2.7	
TOTAL CENTERLINE MILES		268.8	22.1	19.1	36.1	346.10
Contesting miles not shown for proposed Everged and conversion projects and continuous acc			•		•	

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Managed Lane Volumes

Route	Location	Post Mile (CA)	Direction	Count Date	Count Period		1-Hour Volum (vehicles)	e	Count Period		2-Hour Volum (vehicles)	ne	Occupancy	Violation Rate	Managed Lane ADT [#]	Managed Lane (vehi	e Corridor ADT [#]
					(1-Hour)	All **	2+ Carpools***	3+ Carpools***	(2-Hours)	All **	2+ Carpools***	3+ Carpools***	Requirement	(1-Hour)	(vehicles)	Actual	Average
	Peoria St	35.35	S/B N/B	11/17/2016 12/14/2016	7:00-8:00 A.M. 5:00-6:00 P.M.	1332 1029	1170 883	104 95	6:30-8:30 A.M. 4:00-6:00 P.M.	2491 1940	2176 1663	193 156		3.68% 3.60%	14410 12185	26595	
LA-5	Edgecliff Ave	40.88	S/B	11/1/2016	6:30-7:30 A.M.	1193	991	38	6:30-8:30 A.M.	2244	1803	83	2+	7.12%	10005	19972	23284
	Eugeeiiii Ave	40.00	N/B	11/1/2016	4:15-5:15 P.M.	1331	1133	121	4:00-6:00 P.M.	2572	2171	195		6.24%	9967	13372	
	Warwick Rd*	21.86	W/B	10/11/2016	7:00-8:00 A.M.	2365	561	159	6:30-8:30 A.M.	4499	998	285	3+ occ. (Peak Hours) - No Toll	-	10817	22048	
LA-10			E/B W/B	10/11/2016 10/18/2016	5:00-6:00 P.M. 6:30-7:30 A.M.	1348 3230	393 548	53 76	4:00-6:00 P.M. 6:30-8:30 A.M.	2549 6145	763 967	122 131	2+ occ. (Off Peak Hrs) - No Toll 2+ occ. (Peak Hrs) - Pay Toll	-	11231 11407		22181
•	Jackson Ave*	25.09	E/B	10/18/2016	4:15-5:15 P.M.	2637	456	111	4:00-6:00 P.M.	5228	895	205	Single occ. (All Hrs) - Pay Toll	-	10907	22314	
10.44	Calder Malley Bal	D20 C0	S/B	10/25/2016	6:30-7:30 A.M.	1110	1048	109	6:30-8:30 A.M.	1878	1754	177	2. (4 55 1.)	0.18%	13054	26420	26420
LA-14	Golden Valley Rd	R29.68	N/B	10/25/2016	4:15-5:15 P.M.	1355	1259	161	4:00-6:00 P.M.	2658	2476	281	2+ (1+ off peak)	1.11%	13074	26128	26128
LA-57	Pathfinder Rd	3.16	S/B	10/26/2016	7:30-8:30 A.M.	1359	1170	111	6:30-8:30 A.M.	2506	2189	200	2+	1.47%	15513	29305	29305
LA-37	ratililiaei Na	5.10	N/B	10/26/2016	3:45-4:45 P.M.	1241	1120	104	4:00-6:00 P.M.	2471	2192	206	21	1.13%	13792	29303	29303
	Barford Ave	16.54	W/B	10/20/2016	6:30-7:30 A.M.	1294	1034	72	6:30-8:30 A.M.	2348	1794	131		8.11%	15553	30837	
LA-60			E/B	10/20/2016	3:30-4:30 P.M.	1311	1123	100	4:00-6:00 P.M.	2380	2009	189	2+	8.01%	15284		30602
	Phillips Ranch Rd	R28.04	W/B E/B	11/16/2016 11/16/2016	7:00-8:00 A.M. 4:15-5:15 P.M.	1546 1363	1427 1286	116 109	6:30-8:30 A.M. 4:00-6:00 P.M.	2964 2658	2740 2524	214 211	-	0.45% 0.22%	15179 15188	30367	
			W/B	10/5/2016	6:30-7:30 A.M.	1496	1252	72	6:30-8:30 A.M.	2878	2365	161		4.95%	11316		
	Wilmington Ave	R9.16	E/B	10/5/2016	3:30-4:30 P.M.	1281	1096	144	4:00-6:00 P.M.	2502	2044	248		2.81%	11726	23042	
LA-91		,	W/B	10/6/2016	6:30-7:30 A.M.	1377	1077	96	6:30-8:30 A.M.	2594	1988	164	2+	4.43%	19442		29422
	Bloomfield / Artesia	R19.17 / R19.43	E/B	10/6/2016	4:45-5:45 P.M.	1449	1170	111	4:00-6:00 P.M.	2729	2230	226		4.76%	16359	35801	
CD 101	Dto 150 (Dincon Dd)	R0.63	N/B	11/3/2016	6:30-7:30 A.M.	648	578	36	6:30-8:30 A.M.	987	833	62	2. (1. off pools)	7.87%	Unavailable	Unavailable	
SB-101	Rte 150 (Rincon Rd)	KU.03	S/B	11/3/2016	4:00-5:00 P.M.	636	551	97	4:00-6:00 P.M.	1291	1111	127	2+ (1+ off peak)	9.59%	Unavailable	Ullavallable	
	Long Beach Blvd	R11.51	W/B	9/29/2016	6:30-7:30 A.M.	1218	1067	77	6:30-8:30 A.M.	2489	2141	152		0.49%	19920	36497	
LA-105	Long Beach Biva	111.51	E/B	9/29/2016	3:45-4:45 P.M.	1292	1096	112	4:00-6:00 P.M.	2553	2142	212	2+	1.16%	16577	30137	34358
	Lakewood Blvd	R15.76	W/B	10/4/2016	6:30-7:30 A.M.	1310	1016	52	6:30-8:30 A.M.	2534	1921	114	_	11.60%	16274	32219	
			E/B	10/4/2016	4:00-5:00 P.M.	1323	1013	141	4:00-6:00 P.M.	2296	1736	230	. (11.34%	15945		
LA-110	Slauson Ave *	17.98	N/B S/B	10/19/2016 10/19/2016	6:30-7:30 A.M. 4:30-5:30 P.M.	3065 3656	761 938	116 144	6:30-8:30A.M. 4:00-6:00 P.M.	5867 7084	1382 1743	180 242	2+ occ. (All Hrs) - No Toll Single occ. (All Hrs) - Pay Toll	-	34551 34384	68935	68935
			W/B	12/8/2016	6:30-7:30 A.M.	814	785	65	6:30-8:30 A.M.	1551	1473	112		0.25%	4841		
	Porter Ranch Dr	R3.86	E/B	12/8/2016	4:30-5:30 P.M.	1316	1263	113	4:00-6:00 P.M.	2548	2446	210	1	0.53%	4102	8943	
LA-118	Decede Divid	DE 04	W/B	10/27/2016	7:00-8:00 A.M.	1452	1377	102	6:30-8:30 A.M.	2687	2562	196	2+	0.14%	7199	15240	12142
	Reseda Blvd	R5.81	E/B	10/27/2016	4:45-5:45 P.M.	1579	1494	137	4:00-6:00 P.M.	3007	2852	250		0.70%	8141	15340	
	Pass Ave	1.82	W/B	11/15/2016	6:30-7:30 A.M.	969	837	61	6:30-8:30A.M.	1615	1401	95		4.23%	10926	20647	
LA-134	1 435 7 1 1 2	1.02	W/B	11/15/2016	5:00-6:00 P.M.	1206	1062	82	4:00-6:00 P.M.	2288	2019	148	2+	1.66%	9721 ##	20047	21062
	Jackson St	R7.41	W/B	11/2/2016	7:30-8:30 A.M.	1263	1064	105	6:30-8:30 A.M.	2297	1959	194		0.55%	10762	21476	
			E/B	11/2/2016	3:45-4:45 P.M.	1171	979	87	4:00-6:00 P.M.	2168	1801	163		8.03%	10714		
LA-170	Sherman Way	R18.27	S/B N/B	10/13/2016 10/13/2016	6:30-7:30 A.M. 4:30-5:30 P.M.	1226 832	1109 732	81 71	6:30-8:30 A.M. 4:00-6:00 P.M.	2271 1569	1962 1387	147 131	2+	0.24% 0.36%	7886 6959	14845	14845
			W/B	12/1/2016	7:00-8:00 A.M.	1252	1065	59	6:30-8:30 A.M.	2320	1956	115		4.47%	12434		
	Wilson Ave	R26.57	E/B	12/1/2016	3:45-4:45 P.M.	1383	1221	99	4:00-6:00 P.M.	2565	2255	185	1	4.70%	13931	26365	
LA-210	c 10:	520.42	W/B	10/12/2016	7:15-8:15 A.M.	1353	1113	96	6:30-8:30 A.M.	2558	2129	185	2+	0.30%	17832	254.42	30754
	Second St	R39.12	E/B	10/12/2016	4:15-5:15 P.M.	1551	1353	154	4:00-6:00 P.M.	2988	2603	268	1	0.39%	17310	35142	
	Temple Ave	4.33	N/B	12/13/2016	6:30-7:30 A.M.	1651	1225	78	6:30-8:30 A.M.	3244	2299	171		2.97%	19921	37301	
	Temple Ave	4.55	S/B	12/13/2016	5:00-6:00 P.M.	1555	1255	171	4:00-6:00 P.M.	3057	2436	287		1.22%	17380	37301	
	Normandie Ave	13.81	N/B	12/14/2016	7:30-8:30 A.M.	1334	992	118	6:30-8:30 A.M.	2443	1824	213		4.20%	16992	32613	
LA-405	- · · · · · ·		S/B	9/27/2016	3:30-4:30 P.M.	1272	1056	118	4:00-6:00 P.M.	2567	2026	219	2+	0.94%	15621		32753
	Skirball Center Dr	36.72	S/B	12/15/2016	7:30-8:30 A.M.	1587	1254 1299	107 134	6:30-8:30 A.M. 4:00-6:00 P.M.	3069 2760	2479	220 189		3.59% 3.94%	19733 18081	37814	
}			N/B S/B	11/30/2016 11/29/2016	3:30-4:30 P.M. 6:30-7:30 A.M.	1523 947	778	55 55	4:00-6:00 P.M. 6:30-8:30 A.M.	1805	2248 1435	189	1	3.94% 4.75%	18081 10246		1
	Burbank Blvd	40.28	N/B	11/29/2016	5:00-6:00 P.M.	1406	1267	96	4:00-6:00 P.M.	2747	2458	198	1	0.57%	13038	23284	
	D D	D4.6.11	S/B	9/28/2016	6:30-7:30 A.M.	1342	1160	88	6:30-8:30 A.M.	2638	2289	164	_	0.30%	18514	25-22	25-22
LA-605	Beverly Blvd	R14.41	N/B	12/7/2016	3:45-4:45 P.M.	1527	1403	101	4:00-6:00 P.M.	2867	2630	204	2+	0.52%	17285	35799	35799
					AM 1-Hr Volume (total)****	21862	15080	1306	AM 2-Hr Volume (total)****	40894	27605	2373			Total Vehicles / Day***	*	411568
					PM 1-Hr Volume (total)****	21971	15733	1692	PM 2-Hr Volume (total)****	42208	29908	3023	1		Total People / Day****	,	855180

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 2.0 persons (1.3 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. Traffic volume (incl. ADT data) represents the number of vehicles passing a given point on the roadway in a given time period.

^{*} Express Lane facility [2 lanes in each direction (except EB Warwick Rd-single lane)]. Existing HOV lane facilities 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, white/green decal vehicles and single occupant vehicles.

^{***} Volume for carpools and vanpools only.

^{****} Average volume used for HOV/Express lane facilities with more than one count location.

[#] Source: Performance Measurement System (PeMS). Average Daily Traffic (ADT) data for September 26th - October 28th, 2016 (Tuesday - Thursday) in the viscinity of the count location, if available.
ADT data for eastbound Route 134 near Pass Ave.

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

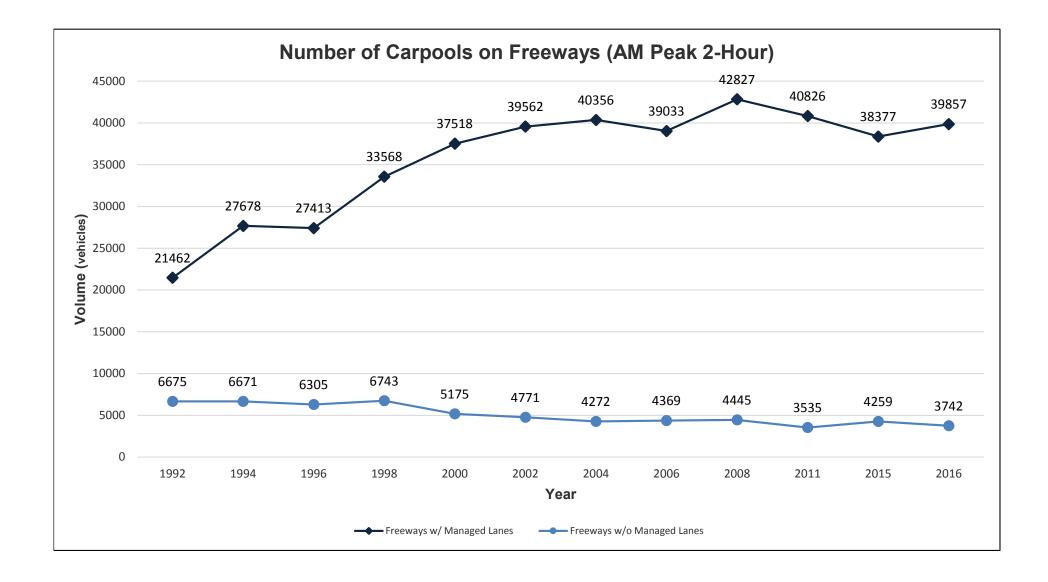
			Opening							M Peal			,						_				k 2-Hou		,	,		
Ro	ute	Total Length (Lane-Miles)	Date (Initial Segment)	Location	_		Nui	nber o	t Carpo	ols in I	Manag	ed Lan	es (vehi	cles)			_		10	tal Nur	nber of	Carpo	ols on	Freewa	l y (vehic	les)		r
		(Lane-wiles)	(illidai Segillent)		Base Year 1992	1994	1996	1998	2000	2002	2004	2006	2008	2011	2015	2016	Base Year 1992	1994	1996	1998	2000	2002	2004	2006	2008	2011	2015	2016
	5	26.6	Apr-08	Edgecliff Ave	-	-	-	-	-	-	-	-	1635	1555	1462	2003	-	-	-	-	-	-	-	-	2138	1874	1667	2446
	10 *	43.5 (Express Lane)	Jan-73	Warwick Rd	2312	1849	1139	1475	1683	1762	2155	1922	1669	1534	1594	1370	2362	2294	1219	1550	1768	1817	2275	2290	1749	1609	3438	2843
	10	15.4 (HOV Lane)	Jaii-73	Jackson Ave	1722	1722	1879	1430	1870	2074	2284	2366	2365	2170	1306	1342	<u>1812</u>	1812	1969	1476	1895	2119	2379	2466	2395	2190	2454	2362
	14	72.2	May-98	Golden Valley Rd	-	-	-	1491	2099	2184	1995	2111	2270	2335	2089	1800	1290	1834	1174	1971	2718	2503	2370	2471	2964	2931	2554	2420
	57	10.8	Aug-97	Pathfinder Rd	-	-		1615	2006	2168	2216	1939	2386	2458	2419	2390	1420	1660	1315	2360	2271	2478	2641	2394	2981	2738	3144	2785
	60	35.3	Feb-99	Phillips Ranch Rd	-	-	-	-	2548	2657	2373	2232	2858	2860	2362	2871	945	945	945	1121	2843	3262	2988	2902	3793	3920	2807	3336
	91	26.4	Jun-85	Wilmington Ave	-	1120	1952	2209	2679	2361	2431	2466	2466	2805	2603	2645	2185	2875	2777	3079	3599	3191	2936	3031	3031	3370	3248	3350
	31	20.4	Juli-05	Bloomfield	-	-	1449	1622	1838	2654	2654	2353	2506	2106	2367	2354	2105	1580	2504	2557	2663	3184	3184	2968	3061	2666	3132	2849
Lanes	105	32	Oct-93	Lakewood Blvd	-	1674	2232	2134	2402	2370	2305	2202	2220	2320	1948	2116	-	2642	2787	2629	2942	2843	2718	2645	2858	2748	2358	2296
	105	32	OC1-93	Long Beach Blvd	-	2444	2679	2908	2893	2931	2789	2497	2695	2634	2306	2337	-	3010	3395	3242	3294	3246	2984	2767	3055	2799	2587	2550
gec	110 *	38.8 (Express Lane)	Jun-96	Slauson Ave	-	-	3084	5199	6427	5699	6330	5835	5273	5476	1942	1693	2585	3110	4144	5754	6992	6334	6880	6080	5935	6051	2842	2663
Managed	118	21.7	Mar-97	Reseda Blvd	-	-	-	1004	1197	1905	2222	2060	1682	1851	2030	2639	1519	1391	1220	1909	1597	3235	3207	3115	3626	2883	3591	4227
W/ M	110	21.7	War-97	Porter Ranch Dr	-	-	-	946	793	1068	1342	1310	1131	1006	1261	1525	1264	1628	1283	1836	2013	1813	2077	2100	2016	1636	2206	2518
Ś	134	24	Mar-96	Jackson St	-	-	810	1260	1146	1356	1376	1451	1295	1360	1550	2225	2165	2320	2540	3075	1961	2571	1986	2801	2495	1855	2458	3138
wa	134	24	Oct-95	Pass Ave	-	-	1016	1017	1071	1572	1473	1422	1314	1458	1374	1506	1760	2195	1721	1722	2041	2457	2258	2042	2279	2458	2027	2161
Freeway	170	11.7	Feb-96	Sherman Way	-	-	1102	1334	1503	1415	1755	1793	1960	1770	1974	2205	1650	2150	2137	2454	2303	3210	3560	3473	2900	2790	3174	3176
-	210	55	Dec-93	Second St	-	2338	2721	2775	2608	2648	2789	2771	2598	2687	2527	2424	2215	3833	3801	3460	3158	3058	3289	3301	3308	3447	3272	3250
	210	33	Dec-33	Wilson Ave	-	2186	<u>1807</u>	<u>1807</u>	1926	1860	2040	1978	1720	1757	1715	2173	3390	3392	3667	3667	2958	2952	2964	2770	2980	2465	2661	3533
	405	96.1	Oct-96	Burbank Blvd	-	-	1529	1851	1576	2361	2136	2234	1949	2058	1585	1595	1495	2115	2084	2581	1901	3291	2931	2704	2709	2558	2091	2001
	405	90.1	Apr-93	Normandie Ave	-	1021	1578	2034	2638	2616	2267	2455	2186	2635	2470	2234	<u>2311</u>	<u>2311</u>	2238	2294	3073	2676	2882	2765	2856	3050	2858	2923
	605	40.6	Apr-97	Beverly Blvd	-	-		949	2369	2323	2422	2395	2352	1940	2563	2540	<u>1280</u>	<u>1280</u>	1095	2369	2959	2548	2882	2830	2907	2655	2998	3030
			Total**		2017	8248	14582	22824	30112	31215	32223	31049	32632	32585	28129	29745	21462	27678	27413	33568	37518	39562	40356	39033	42827	40826	38377	39857
		Percent Ch	ange From Bas	e Year		-								5255				29%	28%	56%	75%	84%	88%	82%	100%	90%	79%	86%
- «	2			Trentway													2070	1235	1235	1679	1791	1416	1455	1023	1190	734	985	865
Lane	101			Encino													2140	3036	2574	2507	2004	2489	1502	1916	1975	1472	1882	1487
naged	710			Gage												2465	2400	2496	2558	1380	866	1315	1430	1280	1329	1393	1390	
w/o Ma	-		Total													2.00	2.00	2.00		.000	555	.5.5	55	.200	.023	.000	.000	
ways 1															6675	6671	6305	6743	5175	4771	4272	4369	4445	3535	4259	3742		
Free		Percent Ch	ange From Bas	e Year													-	0%	-6%	1%	-22%	-29%	-36%	-35%	-33%	-47%	-36%	-44%

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⁾ Average volume is used for each facility with more than one count location.

⁽³⁾ Existing HOV lane facilities 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 (incl. 2 or more occ. white/green decal vehicles and trucks), Vanpools and Buses. All other volumes are Carpools (incl. 2 or more occ. white/green decal vehicles and trucks) and Vanpools.



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

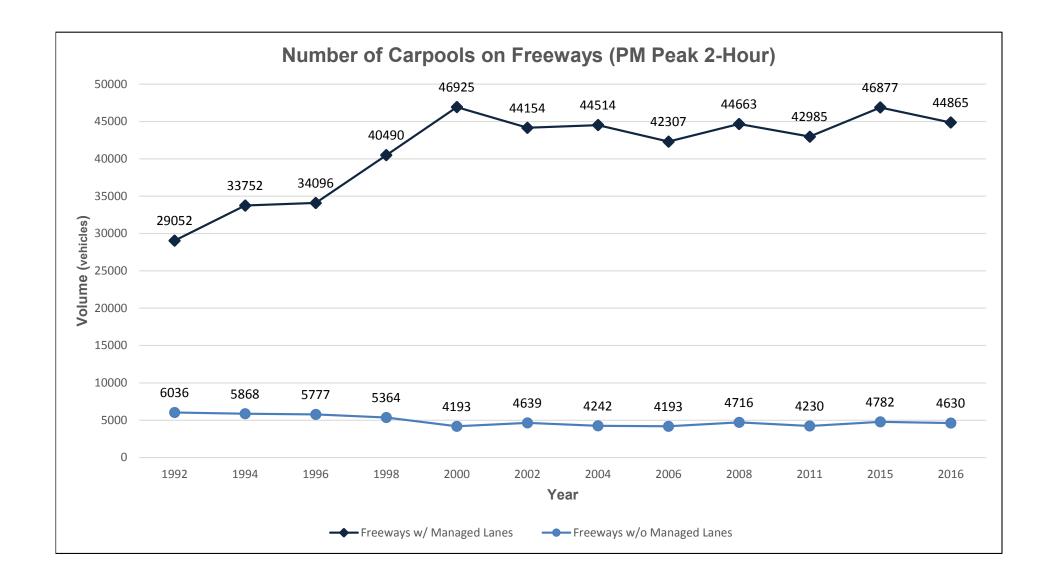
B	oute	Total Longth	Opening Date	Location			NI	mhar a	-	M Peal		ur ed Land	00 (-11					To	tal Nun	-		k 2-Hoເ ols on		w /	1\		
K	oute	Total Length (Lane-Miles)	(Initial Segment)	Location	Base Year 1992	1994	1996	1998	2000	2002	2004	2006	2008	2011	2015	2016	Base Year 1992	1994	1996	1998	2000	2002	2004	2006	2008	2011	2015	2016
	5	26.6	Apr-08	Edgecliff Ave	-	-	-	-	-	-	-	-	1017	943	2098	2322	-	-	-	-	-	-	-	-	1621	1614	3098	2902
	10 *	43.5 (Express Lane)	Jan-73	Warwick Rd	1956	1789	1858	1878	2194	2102	2596	2343	2280	1245	1139	1052	2550	2377	2113	2100	2739	2902	3236	3103	2920	1750	3214	2888
	10	15.4 (HOV Lane)	Jan-73	Jackson Ave	<u>1972</u>	<u>1972</u>	1709	1575	1926	2290	1686	1867	2284	2114	961	1156	2322	2322	1834	1740	2476	2960	2266	2662	2960	2939	2630	2942
	14	72.2	May-98	Golden Valley Rd	-	-	-	1828	2047	2080	2336	2225	2127	2027	2691	2529	1768	1460	1834	3088	3292	2568	2775	2654	2885	2623	3327	3148
	57	10.8	Aug-97	Pathfinder Rd	-	-		1590	2397	2196	2626	1863	2251	2394	2355	2336	2305	2505	1475	2815	3427	3151	2866	2925	2926	2799	2725	2856
	60	35.3	Feb-99	Phillips Ranch Rd	-	-		-	2434	2352	2126	1654	2273	2610	2372	2587	<u>1369</u>	<u>1369</u>	1369	1901	3509	3637	2871	2564	3448	3765	3257	3357
	91	26.4	Jun-85	Wilmington Ave	2683	1125	2657	2378	2669	2242	1993	<u>2104</u>	2104	3033	2554	2288	4653	2975	2881	3828	3754	3392	3068	<u>2879</u>	2879	3373	3392	2764
	5	20.4	3uii-03	Artesia	-	-	1926	1432	2617	<u>2904</u>	2904	2008	2720	2763	2603	2492	2655	2110	3821	3252	3837	3989	<u>3989</u>	2723	3850	3493	3398	3341
Lanes	105	32	Oct-93	Lakewood Blvd	-	1757	2105	2055	2127	2320	2630	2343	2147	2315	2355	1892	-	3145	2776	3053	3031	3059	3421	3101	2908	2919	3259	2436
La	100	32	001-93	Long Beach Blvd	-	2176	2637	2517	2543	2555	2521	2453	2497	2423	2384	2343	-	3541	3425	3297	3402	3151	3114	3188	3210	3038	3109	2913
Managed	110 *	38.8 (Express Lane)	Jun-96	Slauson Ave	-	-	2788	3904	4997	4677	5285	5064	4257	4546	2325	1970	3270	<u>3270</u>	4708	5544	6332	5902	6515	6379	5128	5611	4831	4063
ana	118	21.7	Mar-97	Reseda Blvd	-	-	-	779	1478	1761	2314	2174	2071	1756	2820	2931	<u>1609</u>	<u>1609</u>	1811	2054	3218	3166	3139	3679	3291	3001	4081	4095
№	-	21.7	IWIGI-57	Porter Ranch Dr	-	-	-	751	1315	1818	1950	1966	1317	1427	1914	2507	1984	2126	1789	2301	3090	3233	2800	2876	2917	2247	2637	3168
	134	24	Mar-96	Jackson St	-	-	1200	1547	1931	1553	1785	1653	1648	1508	1969	1967	3020	2420	2555	3717	3046	3093	3005	2718	2848	2698	3084	3011
ewa.	104	2-7	Oct-95	Pass Ave	-	-	1068	1075	1411	1337	1416	1294	1226	1177	1590	2202	1955	2445	2488	2320	2716	2287	2446	2639	3051	2602	2893	2937
Freeways	170	11.7	Feb-96	Sherman Way	-	-	868	1007	998	978	1697	1217	1218	915	1477	1514	1915	2025	2023	2437	2038	1963	2572	2102	2013	2110	2913	2889
	210	55	Dec-93	Second St	-	2451	2422	2691	2824	2646	3194	2924	3026	2482	2986	2826	3150	4686	4002	3906	4539	3840	4044	3854	4226	3422	3910	3541
	2.0		20000	Wilson Ave	-	2209	2524	2603	3245	2450	2715	2536	2278	2130	2390	2391	3432	4759	4816	5273	5459	4406	4137	3616	4174	3102	4144	4045
	405	96.1	Oct-96	Burbank Blvd	-	-	1141	1558	2306	2271	2259	2261	2830	2714	2542	2606	2705	3215	2856	3568	3746	3096	3364	4076	3975	3589	3648	3546
	400	56.1	Apr-93	Normandie Ave	-	<u>1536</u>	<u>1536</u>	2049	2717	2783	2283	2194	2596	2618	2302	2403	2205	2205	2816	3559	4087	3998	3018	3149	3671	3518	3033	2956
	605	40.6	Apr-97	Beverly Blvd	-	-	=	1286	3092	2957	3496	2676	2517	3157	2855	2793	2305	3155	2695	2721	3757	3647	4391	3551	3202	3617	3510	3358
			Total**		4647	8838	15048	22059	31617	30756	33689	29759	31172	31445	31428	31579	29052	33752	34096	40490	46925	44154	44514	42307	44663	42985	46877	44865
		Percent Ch	ange From Bas	e Year													-	16%	17%	39%	62%	52%	53%	46%	54%	48%	61%	54%
saues	2			Trentway												2052	2052	1873	2015	1214	1922	1050	1247	1416	1306	1882	1997	
ged La	101			Encino											3984	3816	3904	3349	2978	2717	3192	2946	3300	2924	2900	2633		
Mana	710			Gage												-	-	-	-	-	-	-	-	-	-	<u> </u>		
vays w/o			Total														6036	5868	5777	5364	4193	4639	4242	4193	4716	4230	4782	4630
Freew		Percent Ch	ange From Bas	e Year														-3%	-4%	-11%	-31%	-23%	-30%	-31%	-22%	-30%	-21%	-23%

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⁾ Average volume is used for each facility with more than one count location.

⁽³⁾ Existing HOV lane facilities 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 (incl. 2 or more occ. white/green decal vehicles and trucks), Vanpools and Buses. All other volumes are Carpools (incl. 2 or more occ. white/green decal vehicles and trucks) and Vanpools.



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 \$490 (includes 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.

Source: California Department of Motor Vehicles (DMV), California Vehicle Code www.dmv.ca.gov California Courts (Judicial Council of California), Uniform Bail and Penalty Schedule www.courts.ca.gov

rev. 3/2017

HOV LANE DEGRADATION

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 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 High-Occupancy Vehicle Lane Degradation Determination Report" is prepared annually by the California Department of Transportation (Caltrans) headquarters to report the performance of the high-occupancy vehicle (HOV) network in California as required by federal regulations. A separate "California High-Occupancy Vehicle Lane Degradation Action Plan" is also prepared which 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 periods 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. In 2015, an unlimited number of decals were available for ILEVs, and up to 85,000 decals were available for plug-in hybrid vehicles. As of December 31, 2015, 25849 decals (24,920 in Los Angeles County and an additional 929 in Ventura County) were issued for ILEVs and 26,649 decals (25,004 in Los Angeles County and an additional 1,645 in Ventura County) for plug-in hybrid vehicles in District 7. Statewide, 94,760 ILEV and 85,000 plug-in-hybrid vehicle 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 (HOT) 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 2015, HOV lane facilities statewide carried over 318 million vehicle miles traveled (VMT) during the morning peak commute hour (8:00 a.m. to 9:00 a.m.), and 387 million VMT during the evening peak commute hour (5:00 p.m. to 6:00 p.m.). These high levels of traffic demand and the current threshold for degradation presents challenges for California to achieve the federal performance standard requirement. Annual data shows an overall increase in congestion on the freeway system in the latter half of the year, particularly after school begins in the late summer. These trends suggest that recurrent congestion or other factors could cause degradation. Analysis suggests that factors contributing to degradation include:

HOV LANE DEGRADATION

- Recurrent congestion on the State Highway System.
- 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 maneuvers from vehicles attempting to enter or exit the HOV lanes. A
 research study is being conducted to determine methodology for optimizing the most
 effective locations for ingress and egress locations on limited access control HOV
 lanes.
- Traffic disruptions on the highways due to severe weather or traffic incidents, both in and adjacent to HOV lanes. Caltrans plans to initiate a research study to develop a methodology for systematically identifying such occurrences and exclude the freeway segments from degradation analysis. The effort would involve research to coordinate, gather, and analyze data from Caltrans and other agencies such as the California Highway Patrol.
- · Occupancy violations in the HOV lane.

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 Infrastructure: Various short-term and long-term HOV infrastructure improvements are planned to mitigate degradation. These include auxiliary lanes, HOV lane gap closure projects, HOV lane extensions, or interchange modifications. Some projects were underway in 2015, 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.

In the case of long-term projects, such as those exceeding a three-year construction time, Caltrans also proposes deferral of the operational evaluation until full construction completion to allow traffic to normalize. Long-term construction projects

HOV LANE DEGRADATION

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) or Express lanes. HOT lanes allow additional flexibility in transportation demand management of the Managed lanes by control of access by eligible vehicles. These improvements should result in improved vehicle detection, motorist compliance, and improved throughput. The addition of alternative transportation mode choices such as light rail mass transit will help to remediate demand.

In the future, Caltrans may consider increasing minimum occupancy of select HOV lanes to mitigate degradation. At this time, Caltrans is not prohibiting exempted vehicles such as inherently low-emission vehicles (ILEVs) from the HOV lanes. To determine the distribution of vehicle occupancy and classifications, including exempted vehicles, traffic counts were conducted in the fall of 2016 and additional counts are planned for spring of 2017. 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 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.

Caltrans reviewed the data to analyze possible causes of degradation and developed an action plan to bring degraded HOV facilities into compliance within 180 days. Since degradation tends to increase in the second half of the year, Caltrans and the Federal Highway Administration have agreed that action will be taken only on facilities identified as degraded in the second half of 2015. Evaluation of remediation strategies suggests Caltrans is making progress in improving operational performance. 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: 2015 California High-Occupancy Vehicle Lane Degradation Determination Report (December 1, 2016)

2015 California High-Occupancy Vehicle Lane Degradation Action Plan (December 1, 2016)

RAMP METERING AND HOV BYPASS LANES

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. Thirty-three (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 improve travel time reliability for all modes, reduce peak period travel times and delay through implementing operational strategies that also reduce congestion and increase safety on the 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 stopand-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.

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
Washington & Fairfax*	10	9.3	Washington Blvd. & Genesee Ave	Los Angeles
United Meth Church*	10	36.5	718 S. Azusa Ave.	West Covina
United Meth Church*	10	37.0	437 W. San Bernardino Rd.	Covina
Newhall-East Lot	14	27.1	SE Corner of Newhall Ave and Route 14	Santa Clarita
Newhall-West Lot	14	27.1	23397 Sierra Hwy	Santa Clarita
Golden Valley (3 Sections)	14	30	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
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		Rte 101 @ Borchard Rd/475 Rancho Conejo	Thousand Oaks
Pleasant Valley		7.0	Rte 101 @ Pleasant Valley Rd./Santa Rosa Rd.	Camarillo
Las Posas Rd.	101	12.3	Rte 101 @ Las Posas Rd/690 Ventura Blvd	Camarillo
Kanan Rd. (Southeast Lot)	101	15.7	Rte 101/Kanan & 29165 Roadside (SE)	Agoura Hills
Aviation	101	35.1	Rte 105 @ Aviation	
	105	2.2	-	El Segundo Hawthorne
Hawthorne (3 Sections)	105	3.7	Rte 105 @ Hawthorne Boulevard	
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	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 (2 Sections)	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 Sections)	110	15.8	Rte 110 @ Manchester Avenue	Los Angeles
Slauson (Opened 1997),(2 Sections)	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
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. 03/2017

CLEAN AIR VEHICLE (CAV) DECALS-MANAGED 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.

The fee for a clean air vehicle decal is \$22.

For more information or to find out if your vehicle qualifies, visit the California Air Resources Board's (ARB) website: 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). Vehicles that meet these requirements are certified pure zero emission vehicles (100% battery electric and hydrogen fuel cell), liquefied petroleum gas (LPG) and compressed natural gas (CNG).
- 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



A vehicle that meets California's Enhanced Advanced Technology Partial Zero-Emissions (Enhanced AT PZEV) or Transitional Zero-Emission (TZEV) standards for exhaust emissions. Vehicles that meet these requirements are usually plug-in Hybrids.

The Governor signed SB 838 on September 13, 2016, removing the statutory limit and allowing DMV to issue additional Green Decals.

CLEAN AIR VEHICLE (CAV) DECALS-MANAGED LANE USAGE

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.

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

Source: California Department of Motor Vehicles (DMV) www.dmv.ca.gov

MANAGED LANE LEGISLATION

- 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 182nd 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 (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.

MANAGED LANE LEGISLATION

- 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.
- <u>Senate Bill 853 (SB 853)</u> 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 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 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.
- <u>Senate Bill 838 (SB 838)</u> was approved by the Governor on September 13, 2016. This bill removes the
 maximum number of green clean air vehicle decals that the California Department of Motor Vehicles (DMV)
 is authorized to issue.
- Assembly Bill 2542 (AB 2542) was approved by the Governor on September 23, 2016. This bill would
 require the department or a regional transportation planning agency, when submitting a capacity-increasing
 project or a major street or highway lane realignment project to the commission for approval, to demonstrate
 that reversible lanes were considered for the project

METRO EXPRESS LANES

Metro Express Lanes was a one-year demonstration program overseen by Metro, Caltrans and several other mobility partners that had 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 included 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.

Metro Express Lanes was primarily funded with a \$210 million congestion reduction demonstration grant from the U.S. Department of Transportation.

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

Metro Express Lanes features include:

Express Lanes

- 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

METRO EXPRESS LANES

Bicycles

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

Parking

LA Express Park

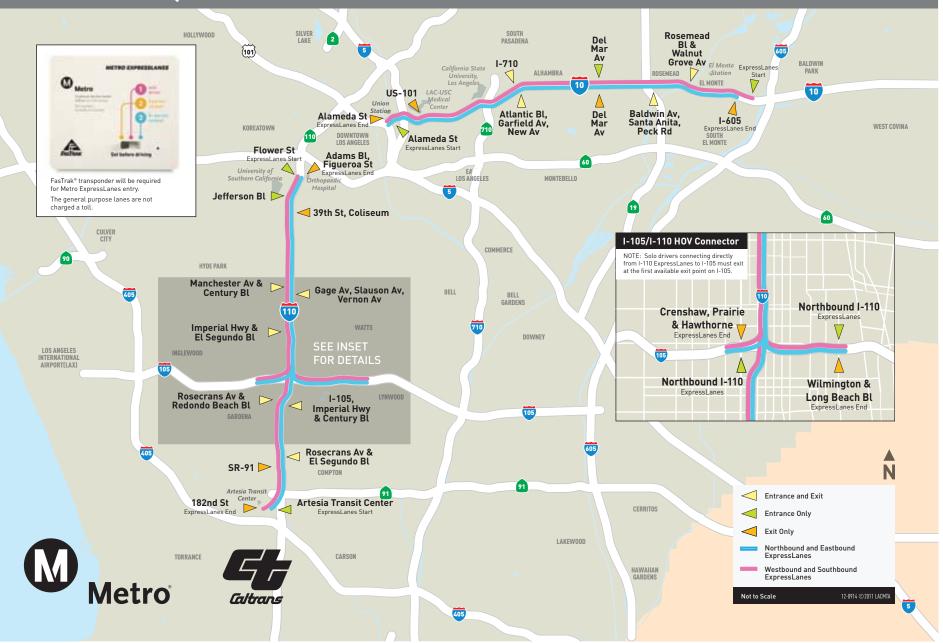
Update

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.

Source: Los Angeles County Metropolitan Transportation Authority [www.metro.net]

METRO EXPRESSLANES

FasTrak® Entry and Exit Locations



COUNTYWIDE EXPRESSLANES STRATEGIC PLAN

The Countywide ExpressLanes Strategic Plan was prepared for Metro (Los Angeles County Metropolitan Transportation Authority) by WSP|Parsons Brinckerhoff. The strategic plan establishes a vision for Metro to deliver a system of Express Lanes for Los Angeles County using a network approach to maximize regional benefits. It identifies the most promising Express Lane corridors and potential funding sources needed to implement the plan. The Metro Countywide ExpressLanes Strategic Plan was prepared as an extension of Southern California Association of Governments (SCAG's) Express Travel Choices Phase II Study-Regional Express/HOT Lanes Implementation Plan and Concept of Operations. The Metro Strategic Plan is consistent with the analysis methodology used in the SCAG study to estimate the potential mobility benefits and revenue generated by Express Lane projects. This approach ensured that the Metro Countywide ExpressLanes Strategic Plan is consistent with the SCAG regional study and minimized duplication of effort.

The primary objectives of *Metro's Countywide ExpressLanes Strategic Plan* are to:

- Identify and recommend potential corridors that can benefit from HOV to High Occupancy Toll (HOT) or Express Lane conversion
- Develop a resource plan for existing and future Express Lane corridors
- Respond to degraded HOV facilities across Los Angeles County as well as transportation needs which have outpaced traditional revenue sources
- Provide recommendations regarding tiers of projects, phasing, planning-level costs and revenue forecasts, and a timetable for implementation
- Provide a high-level assessment of vehicle occupancy requirements on existing and planned HOV/Express Lane facilities

The Countywide ExpressLanes Strategic Plan screened all planned, in construction, and existing carpool lanes in Los Angeles to assess the potential benefits and costs of conversion to ExpressLanes operation. The individual corridors included in the Strategic Plan were evaluated using a two-phased screening process assessing their mobility benefits and financial feasibility.

The screening process utilized the SCAG Regional Travel Demand model and the Rapid Toll Optimization Model (RapidTOM) to quantify the mobility benefits of potential ExpressLanes based on available capacity in the HOT lanes, congestion in the general purpose lanes (GPLs), and the value of time savings by using the HOT lanes. This analysis also provided a general indication of the financial feasibility of an Express Lane.

The corridors were ranked according to their mobility and financial feasibility score and then qualitative factors were applied including connectivity with other Express Lane corridors, transit benefits, funding availability, and the potential ability to accommodate two Express Lanes in each direction. Project segments in Tier 1 had the highest combined mobility and financial screening scores and tended to exhibit the most robust forecasts of traffic and revenue. Segments in Tiers 2 and 3 exhibited comparatively lower screening results and, as such, tended to have less robust traffic and revenue performance.

COUNTYWIDE EXPRESSLANES STRATEGIC PLAN

Recognizing that the implementation of a Countywide ExpressLanes network would require substantial investment and time to plan and construct, it was assumed that the individual segments comprising the network would be implemented in tiers approximately ten-years apart as follows:

- Tier 1 near-term (within 5-10 years)
- Tier 2 mid-term (within 15 years)
- Tier 3 longer-term (within 25 years)

Following the identification of the three project tiers, a preliminary, high level ExpressLanes Resource Plan was prepared to estimate the cost of the strategic plan projects and identify existing and potential funding sources.

The analysis led to the recommendation to develop a 621 lane-mile Express Lane network, mostly comprised of single lane facilities but dual lane facilities are preferred where right-of-way allows. The proposed Express Lane network is shown in Figure 1 and is made up of the existing I-110 and I-10 ExpressLanes and the Tier 1, 2, and 3 projects.

Some of the proposed ExpressLanes projects are funded through Measure M. For projects without identified funding, staff will attempt to secure other sources of funding including bonds, Transportation Infrastructure Financing and Innovation Act (TIFIA) loans, grants, and net toll revenue loans from other ExpressLanes within the County if permitted.

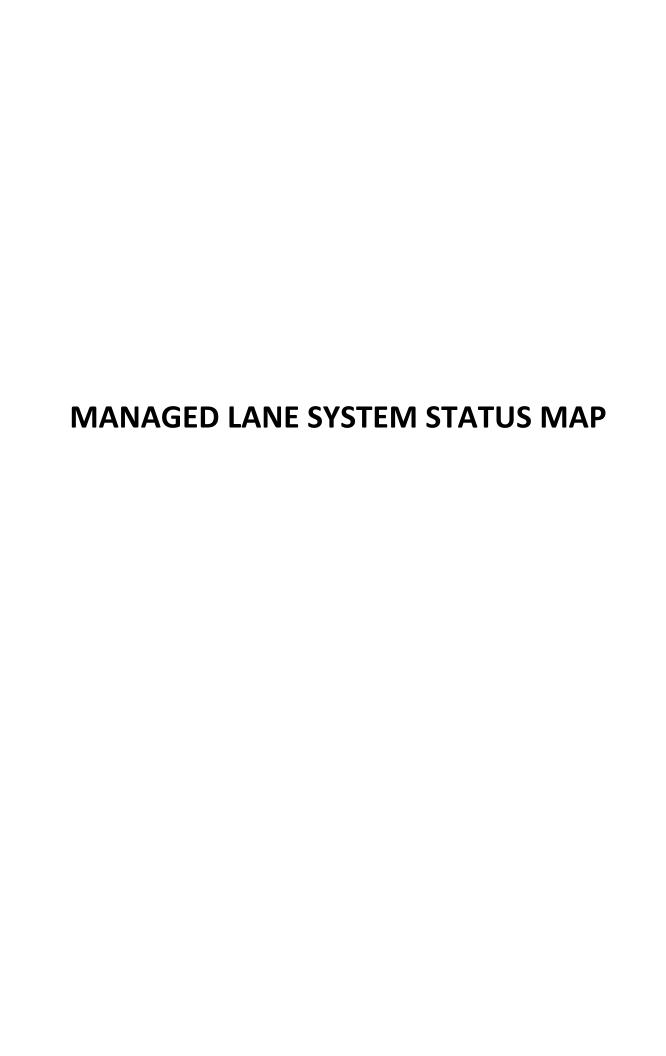
In order to move forward with a system of Express Lanes in Los Angeles County, Metro will submit Tier 1 projects as a network to the California Transportation Commission to request tolling authority for those corridors; begin planning studies for Tier 1 projects to analyze the mobility benefits, cost, and right-of-way requirements of single and dual ExpressLanes, prepare traffic and revenue studies, develop preliminary concept of operations reports, and prepare a comprehensive financial plan. In addition, Metro will conduct a detailed analysis to identify locations and configurations of HOV direct connectors.

Source: Los Angeles County Metropolitan Transportation Authority – Countywide ExpressLanes Strategic Plan (Prepared by: WSP | Parsons Brinckerhoff - January 6, 2017)

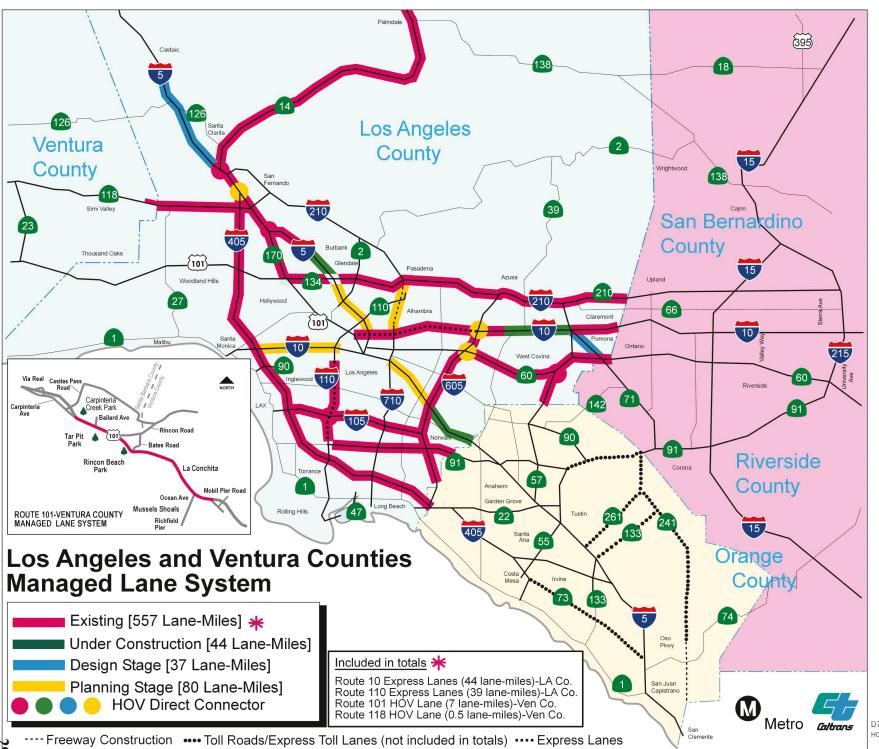
http://libraryarchives.metro.net/DB_Attachments/170111_Strategic_Plan_with_Appendices.pdf



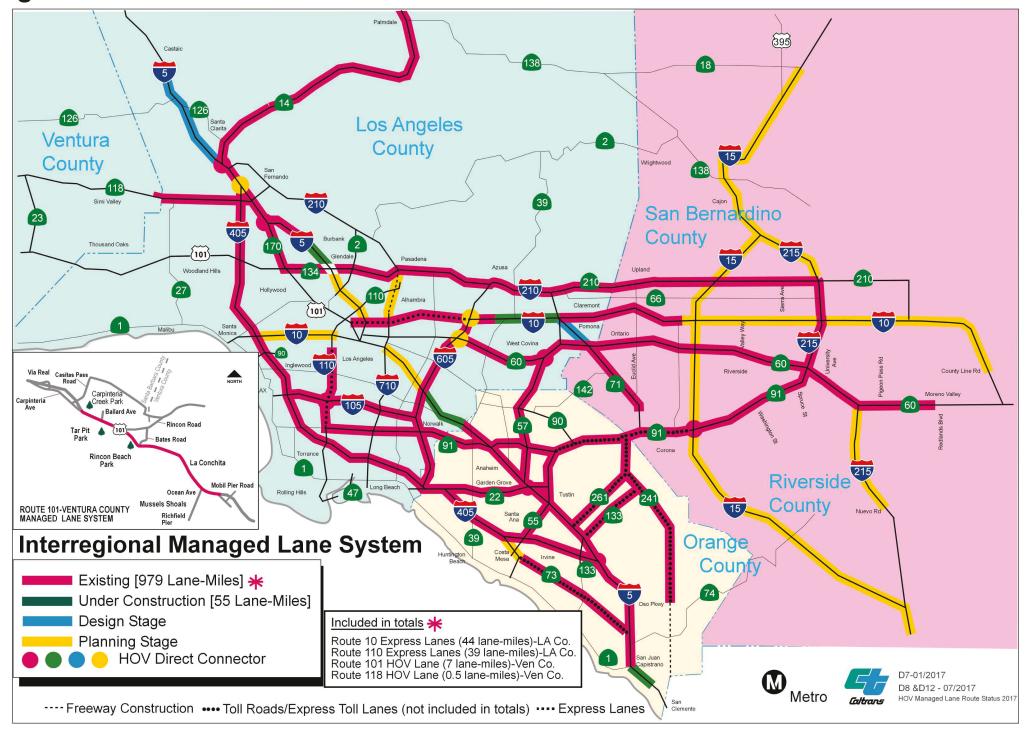
Figure 1: Los Angeles County Strategic Buildout Express Lanes Network



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D7-01/2017 HOV Managed Lane Route Status 2017





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FACT SHEET

ROUTE 5 GOLDEN STATE FREEWAY

Description Postmile (CA) (begin/end) Length

Hollywood Way to Antelope Valley Freeway (Route 14)
Antelope Valley Freeway (Route 14) to Hollywood Way

Antelope Valley Freeway (Route 14) to Hollywood Way

R45.43 / 32.19

13.2 lane-miles (Northbound)

13.4 lane-miles (Southbound)

26.6 lane-miles (Total)

Project Limits: Date of Opening:

Hollywood Way to Route 118

Route 5/170 HOV lane direct connector

Route 118 to Route 14

April 2008

Route 5/14 HOV lane direct connector

December 2012

1-Hour HOV Lane Volume:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Peoria St	35.35	Southbound	11/17/2016	7:00 – 8:00 A.M.	1332 vehicles
Peoria St	35.35	Northbound	12/14/2016	5:00 – 6:00 P.M.	1029 vehicles
Edgecliff Ave	40.88	Southbound	11/1/2016	6:30 – 7:30 A.M.	1193 vehicles
Edgecliff Ave	40.88	Northbound	11/1/2016	4:15 – 5:15 P.M.	1331 vehicles

Park and Ride Lots:

Lot Name	<u>Route</u>	Postmile (CA)	<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>	Number of I/E	Location
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
 - o 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

	Operation on R		1 1 4	5 115			
Co. Rte. Dir.	LA 5			5 NB			
Location	PEC		PEORIA				
Post Mile	35.			35.35			
Date	11/1		12/14/16				
Occupancy Requirement		+ AM HOV		2 + PM HOV PM HOV			
	AM HOV Peak 1-Hour	Peak 2-Hour	Pili HOV Peak 1-Hour	Pw HOV Peak 2-Hour			
	7:00 - 8:00	6:30-8:30	17:00 - 18:00	16:00-18:00			
Himb Occurancy Vahiala			17.00 - 10.00	10.00-10.00			
High Occupancy Vehicle	<u> </u>		000	1000			
Carpools (Vehicles with 2-5 occupants only)	1165	2164	863	1633			
Vanpools	5	12	20	30			
Buses	7	11	6	16			
Motorcycles (MC's)	22	41	30	42			
Single Occupant Vehicles	49	80	37	88			
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	22	50	29	52			
Green Decal Vehicles (Plug-in Hybrids)	62	133	44	79			
Total Vehicles in HOV Lane	1332	2491	1029	1940			
2 person carpool volume in HOV lane (vehicles)	1066	1983	788	1508			
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1170	2176	883	1664			
3 person carpool volume in HOV lane (vehicles)	89	164	68	110			
3 or more (3+) person carpool volume in HOV Lane (veh.)*	104	193	95	156			
	People Summary						
People in Carpools (Vehicles with 2-5 occupants only)	2441	4528	1811	3412			
People in Vanpools	30	72	120	180			
People in Buses	160	270	210	550			
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	155	304	140	261			
Total HOV Lane People	2786	5174	2281	4403			
General Purpose	(GP) Lane Sum	mary†					
Number of General Purpose Lanes	4	•	4				
General Purpose Lane Vehicles**	5501	10399	6390	12349			
General Purpose Vehicles per Lane**	1375	2600	1598	3087			
General Purpose Lane People**	5966	11169	7535	14254			
General Purpose People per Lane**	1492	2792	1884	3563			
Freewa	y Summary						
Total Freeway Vehicles	6833	12890	7419	14289			
Total Freeway People	8752	16343	9816	18657			
Percent of Total Freeway Vehicles in HOV Lane	19.49%	19.33%	13.87%	13.58%			
Percent of Total Freeway Vehicles per General Purpose Lane	20.13%	20.17%	21.53%	21.61%			
Percent of Total Freeway People in HOV Lane	31.83%	31.66%	23.24%	23.60%			
Percent of Total Freeway People per General Purpose Lane	17.04%	17.09%	19.19%	19.10%			
	rpool Summary		10.1070	10.1070			
2+ Carpool volume in GP Lanes (vehicles)*	435	725	1025	1725			
2+ Percent Carpools in GP Lanes	7.91%	6.97%	16.04%	13.97%			
3+ Carpool Volume in GP Lanes (vehicles)*	7.91%	40	85	13.97%			
3+ Percent Carpools in GP Lanes	0.45%	0.38%	1.33%	1.09%			
	e Occupancy	0.0070	1.55 /0	1.03/0			
, and the second	2.09	2.00	2.22	2.27			
HOV Lane Average Occupancy (people) General Purpose Lane Average Occupancy (people)	2.09 1.08	2.08 1.07	1.18	2.27 1.15			
	ane Violation	1.07	1.10	1.10			
		0.040/	2.000/	A E 40/			
HOV Lane Violation (percentage)	3.68%	3.21%	3.60%	4.54%			
	imber of GP Lane		4.04	4.04			
Equivalent number of GP Lanes needed to carry HOV people 1.87 1.85 1.21 1.24							

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/Plug-in Hybrids and trucks.

CALTRANS - DISTRICT 7 HOV Lane Operation on Route 5

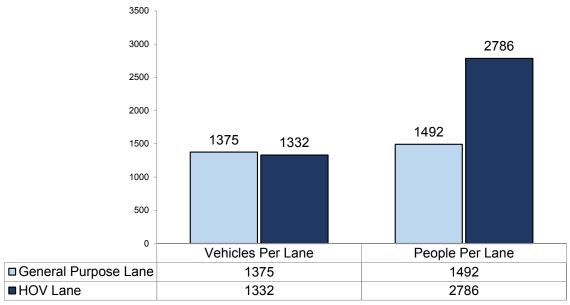
	Operation on R				
Co. Rte. Dir.	LA 5		LA 5 NB		
Location	EDGECLIFF		EDGECLIFF		
Post Mile	40.		40.		
Date	11/0		11/01/16		
Occupancy Requirement	2 +		2 +		
	AM HOV	AM HOV	PM HOV	PM HOV	
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour	
Hink On surray su Valida	6:30 - 7:30	6:30-8:30	16:15 - 17:15	16:00-18:00	
High Occupancy Vehicle	<u> </u>		1400	0400	
Carpools (Vehicles with 2-5 occupants only)	984	1790	1103	2123	
Vanpools	7	13	30	48	
Buses	10	18	10	23	
Motorcycles (MC's)	22	47	37	64	
Single Occupant Vehicles	85 46	176	83	163	
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	16 69	52	21 47	54 97	
Green Decal Vehicles (Plug-in Hybrids)	1193	148	1331	2572	
Total Vehicles in HOV Lane		2244			
2 person carpool volume in HOV lane (vehicles)	953	1720	1012	1976	
2 or more (2+) person carpool volume in HOV Lane (veh.)*	991	1803	1133	2171	
3 person carpool volume in HOV lane (vehicles)	27	57	72	120	
3 or more (3+) person carpool volume in HOV Lane (veh.)*	38	83	121	195	
	People Summary			4.405	
People in Carpools (Vehicles with 2-5 occupants only)	2005	3665	2320	4425	
People in Vanpools	42	78	180	288	
People in Buses	291	560	400	920	
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	192	423	188	378	
Total HOV Lane People	2530	4726	3088	6011	
General Purpose			I 3		
Number of General Purpose Lanes General Purpose Lane Vehicles**	4830	9444	4555	8949	
General Purpose Vehicles per Lane**	1610	3148	1518	2983	
General Purpose Lane People**	5055	9973	4948	9708	
General Purpose People per Lane**	1685	3324	1649	3236	
		3324	1043	3230	
	y Summary	44000	E000	44504	
Total Freeway Vehicles	6023	11688	5886	11521	
Total Freeway People	7585	14699	8036	15719	
Percent of Total Freeway Vehicles in HOV Lane	19.81%	19.20%	22.61%	22.32%	
Percent of Total Freeway Vehicles per General Purpose Lane	26.73%	26.93%	25.80%	25.89%	
Percent of Total Freeway People in HOV Lane	33.36%	32.15%	38.43%	38.24%	
Percent of Total Freeway People per General Purpose Lane	22.21%	22.62%	20.52%	20.59%	
GP Lane Ca	rpool Summary	t			
2+ Carpool volume in GP Lanes (vehicles)*	210	443	313	580	
2+ Percent Carpools in GP Lanes	4.35%	4.69%	6.86%	6.48%	
3+ Carpool Volume in GP Lanes (vehicles)*	11	30	61	100	
3+ Percent Carpools in GP Lanes	0.23%	0.32%	1.34%	1.12%	
Average	e Occupancy		•		
HOV Lane Average Occupancy (people)	2.12	2.11	2.32	2.34	
General Purpose Lane Average Occupancy (people)	1.05	1.06	1.09	1.08	
HOV La	ane Violation	-			
HOV Lane Violation (percentage)	7.12%	7.84%	6.24%	6.34%	
	mber of GP Lane		·		
Equivalent number of GP Lanes needed to carry HOV people	1.50	1.42	1.87	1.86	
, I i i i i i i i i i i i i i i i i i i		·-			

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.

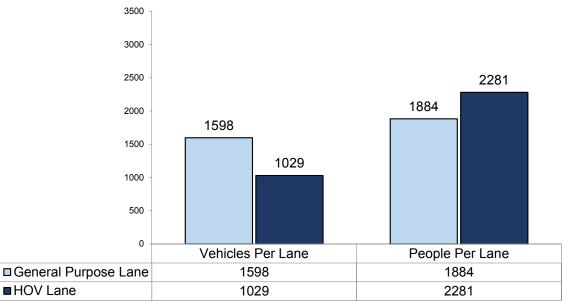
[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-5-S/B at Peoria St (Postmile 35.35)
Date/Time: 11-17-2016 / 7:00 AM - 8:00 AM

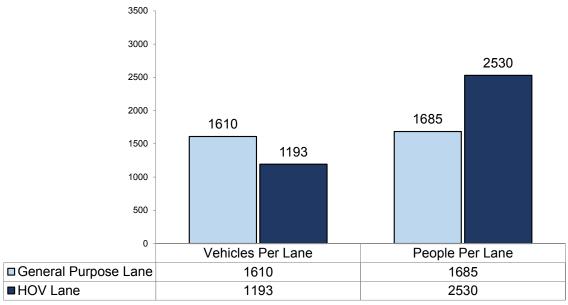


Location: LA-5-N/B at Peoria St (Postmile 35.35)
Date/Time: 12-14-2016 / 5:00 PM - 6:00 PM

 $^{^{\}star}$ 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.

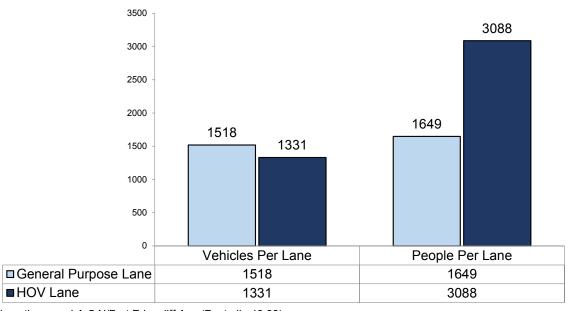
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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



Location: LA-5-S/B at Edgecliff Ave (Postmile 40.88)

Date/Time: 11-1-2016 / 6:30 AM - 7:30 AM



Location: LA-5-N/B at Edgecliff Ave (Postmile 40.88)

Date/Time: 11-1-2016 / 4:15 PM - 5:15 PM

 $^{^{\}star}$ 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.

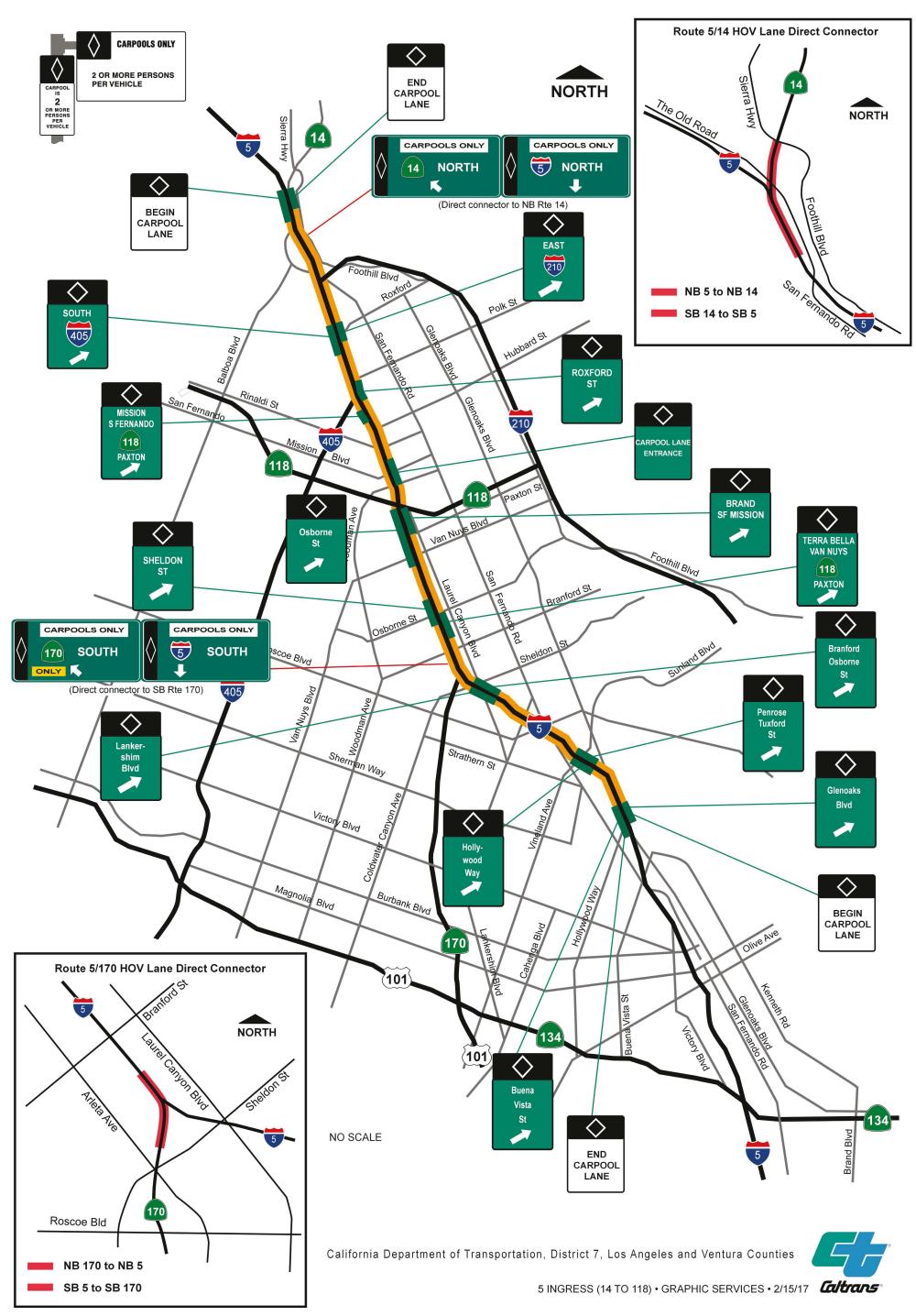
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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

CALIFORNIA 5

GOLDEN STATE FREEWAY HOV LANE

Hollywood Way to Antelope Valley Freeway (Rte 14)





FACT SHEET

ROUTE 10 SAN BERNARDINO FREEWAY

<u>Description</u>	Postmile (CA) (begin/end)	<u>Length</u>
Alameda St to San Gabriel River Freeway (Route 605) San Gabriel River Freeway (Route 605) to Alameda St (EXPRESS LANE)	10S 16.968 / 30.944 31.296 / 10S 16.968	21.9 lane-miles (Eastbound) 22.3 lane-miles (Westbound) 44.2 lane-miles (Total)
San Gabriel River Fwy (Rte 605) to 0.6 mi west of Puente Av Orange Freeway (Route 57) to San Bernardino County Line San Bernardino County Line to Orange Freeway (Route 57) 0.5 mi west of Puente Ave to San Gabriel River Fwy (Rte 605 (HOV LANE)	42.413 / 48.265 48.265 / 42.89	1.8 lane-miles (Eastbound) 5.9 lane-miles (Eastbound) 5.4 lane-miles (Westbound) 1.6 lane-miles (Westbound) 14.7 lane-miles (Total)

Project Limits: Date of Opening:

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

April 1990

February 1975

January 1973

February 2005

December 2013

November 2003

1-Hour Express Lane Volume:

<u>Count Location</u> <u>Postmile (CA)</u> <u>Direction</u> <u>Date</u> <u>Time</u>	
Warwick Rd 21.86 Eastbound 10/11/2016 5:00 – 6 Jackson Ave 25.09 Westbound 10/18/2016 6:30 – 7	8:00 A.M. 2365* vehicles 6:00 P.M. 1348 vehicles 7:30 A.M. 3230* vehicles 5:15 P.M. 2637* 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	<u>City</u>
St John's Church**	10	5.8	11000 National Blvd	Los Angeles
Washington & Fairfax**	10	9.3	Washington BI & 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):

<u>Direction</u>	Number of I/E	<u>Location</u>
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 (Alameda St to Rte 605) converted to Express Lane operation. Tolling began February 23, 2013.

CALTRANS - DISTRICT 7

Express Lane Operation on Route 10

Co. Rte. Dir.	LA 10			10 EB			
Location	WAR\		WARWICK				
Post Mile	21.			21.86			
Date	10/1		10/1				
Toll Free Occupancy Requirement	3		3				
	AM Express	AM Express	PM Express	PM Express			
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour			
	7:00 - 8:00	6:30-8:30	17:00 - 18:00	16:00-18:00			
	Vehicle Summa						
Carpools (Vehicles with 2-5 occupants only)	546	971	363	682			
Vanpools	15	27	30	81			
Buses	60	123	72	126			
Motorcycles (MC's)	40	78	29	80			
Single Occupant Vehicles	1583	3051	757	1417			
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	56	110	50	83			
Green Decal Vehicles (Plug-in Hybrids)	65	139	47	80			
Total Vehicles in Express Lane	2365	4499	1348	2549			
2 person carpool volume in Express lane (vehicles)	402	713	340	641			
2 or more (2+) person carpool volume in Express Lane (veh.)*	561	998	393	763			
3 person carpool volume in Express lane (vehicles)	130	234	21	35			
3 or more (3+) person carpool volume in Express Lane (veh.)*	159	285	53	122			
Express Lane	People Summa	iry					
People in Carpools (Vehicles with 2-5 occupants only)	1252	2226	751	1411			
People in Vanpools	90	162	180	486			
People in Buses	2340	4660	2230	3790			
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	1744	3378	883	1660			
Total Express Lane People	5426	10426	4044	7347			
General Purpose	(GP) Lane Sum	mary†					
Number of General Purpose Lanes	4		4				
General Purpose Lane Vehicles**	6951	13199	5693	11201			
General Purpose Vehicles per Lane**	1738	3300	1423	2800			
General Purpose Lane People**	7920	15008	6871	13429			
General Purpose People per Lane**	1980	3752	1718	3357			
Freewa	y Summary						
Total Freeway Vehicles	9316	17698	7041	13750			
Total Freeway People	13346	25434	10915	20776			
Percent of Total Freeway Vehicles in Express Lane	25.39%	25.42%	19.15%	18.54%			
Percent of Total Freeway Vehicles per General Purpose Lane	18.65%	18.64%	20.21%	20.37%			
Percent of Total Freeway People in Express Lane	40.66%	40.99%	37.05%	35.36%			
Percent of Total Freeway People per General Purpose Lane	14.84%	14.75%	15.74%	16.16%			
· · · · · · · · · · · · · · · · · · ·	rpool Summary						
2+ Carpool volume in GP Lanes (vehicles)*	806	1473	994	1836			
2+ Percent Carpools in GP Lanes	11.60%	11.16%	17.46%	16.39%			
3+ Carpool Volume in GP Lanes (vehicles)*	66	103	89	136			
3+ Percent Carpools in GP Lanes	0.95%	0.78%	1.56%	1.22%			
Average	e Occupancy						
Express Lane Average Occupancy (people)	2.29	2.32	3.00	2.88			
General Purpose Lane Average Occupancy (people)	1.14	1.14	1.21	1.20			
Equivalent Number of GP Lanes							
Equivalent number of GP Lanes needed to carry Express lane people		2.78	2.35	2.19			
2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2							

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.

Note: Express lane data shown is for 2-lanes in the westbound direction and 1-lane in the eastbound direction.

[†]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/Plug-in Hybrids and trucks.

CALTRANS - DISTRICT 7

Express Lane Operation on Route 10

Co. Rte. Dir.	LA 10		LA 10 EB	
Location	JACK		JACKSON	
Post Mile	25.		25.09	
Date	10/1			8/16
Toll Free Occupancy Requirement	AM Express	+ AM Express	PM Express	+ PM Express
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	6:30 - 7:30	6:30-8:30	16:15 - 17:15	16:00-18:00
Express Lane	Vehicle Summa	ary		
Carpools (Vehicles with 2-5 occupants only)	527	937	397	796
Vanpools	21	30	59	99
Buses	67	146	53	120
Motorcycles (MC's)	50	105	57	114
Single Occupant Vehicles	2470	4698	2001	3959
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	39	103	30	62
Green Decal Vehicles (Plug-in Hybrids)	56	126	40	78
Total Vehicles in Express Lane	3230	6145	2637	5228
2 person carpool volume in Express lane (vehicles)	472	836	347	691
2 or more (2+) person carpool volume in Express Lane (veh.)*		967	458	896
3 person carpool volume in Express lane (vehicles)	46	79	37	78
3 or more (3+) person carpool volume in Express Lane (veh.)*	76	131	111	205
	People Summa			
People in Carpools (Vehicles with 2-5 occupants only)	1121	2007	862	1731
People in Vanpools	126	180	354	594
People in Buses	2089	4660	1552	3410
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	2615	5032	2128	4213
Total Express Lane People	5951	11879	4896	9948
General Purpose			1	4
Number of General Purpose Lanes	4005			40004
General Purpose Lane Vehicles**	4835	9393	6125	12084
General Purpose Vehicles per Lane**	1209	2348 10523	1531	3021
General Purpose Lane People** General Purpose People per Lane**	5380 1345	2631	7156 1789	14115 3529
	y Summary	2031	1709	3029
Total Freeway Vehicles	8065	15538	8762	17312
Total Freeway People	11331	22402	12052	24063
Percent of Total Freeway Vehicles in Express Lane	40.05%	39.55%	30.10%	30.20%
Percent of Total Freeway Vehicles per General Purpose Lane	14.99%	15.11%	17.48%	17.45%
Percent of Total Freeway People in Express Lane	52.52%	53.03%	40.62%	41.34%
Percent of Total Freeway People per General Purpose Lane	11.87%	11.74%	14.84%	14.66%
	rpool Summary			1=00
2+ Carpool volume in GP Lanes (vehicles)*	495	1020	896	1786
2+ Percent Carpools in GP Lanes	10.24%	10.86%	14.63%	14.78%
3+ Carpool Volume in GP Lanes (vehicles)*	40	90	101	196
3+ Percent Carpools in GP Lanes	0.83%	0.96%	1.65%	1.62%
y .	e Occupancy	1.00	1.00	1.00
Express Lane Average Occupancy (people) General Purpose Lane Average Occupancy (people)	1.84 1.11	1.93 1.12	1.86 1.17	1.90 1.17
General Fulpose Lane Average Occupancy (people)	1.11	1.12	1.17	1.17
Equivalent No.	imbor of CD Land	26		
·	mber of GP Lane 4.42	es 4.52	774	2.82
Equivalent number of GP Lanes needed to carry Express lane people	4.42	4.02	2.74	2.02

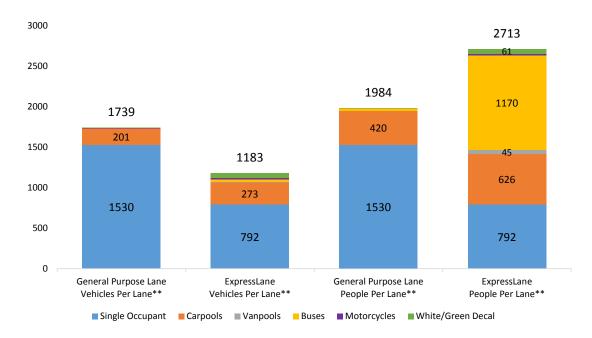
Peak 1-hour & peak 2-hour totals are based on the highest volume during the following peak period counts: 6:30-8:30 & 15:30-18:00.

Note: Two (2) Express lanes at this count location (each direction). Express lane data shown is for 2 lanes.

[†]The peak hour of the general purpose lane may vary from the peak hour of the Express lane.

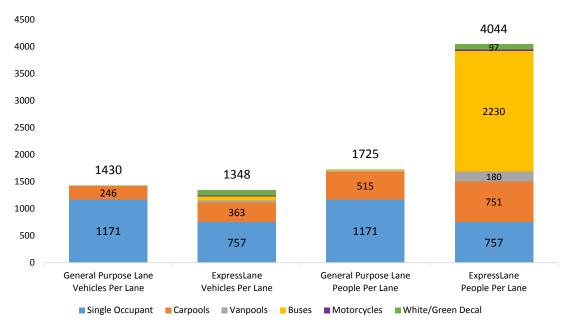
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-10-W/B at Warwick Rd (Postmile 21.86)

Date/Time: 10-11-2016 / 7:00 AM - 8:00 AM



Location: LA-10-E/B at Warwick Rd (Postmile 21.86)

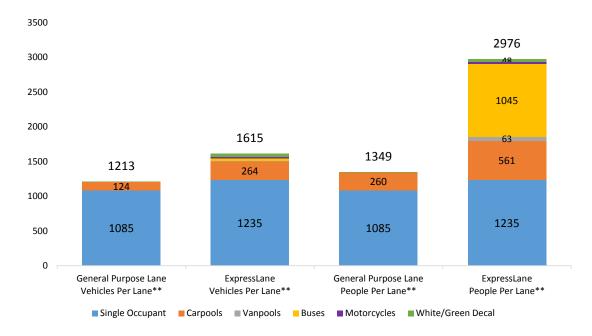
Date/Time: 10-11-2016 / 5:00 PM - 6:00 PM

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.

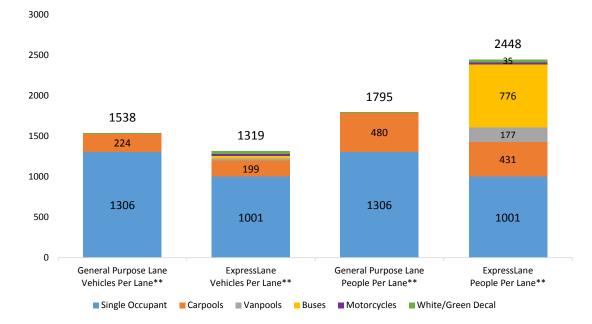
^{*} Data is based on the highest 1-hour volume during the following peak period counts. 6:30-8:30 A.M. & 3:30-6:00 P.M.

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



Location: LA-10-W/B at Jackson Ave (Postmile 25.09)

Date/Time: 10-18-2016 / 6:30 AM - 7:30 AM



Location: LA-10-E/B at Jackson Ave (Postmile 25.09)

Date/Time: 10-18-2016 / 4:15 PM - 5:15 PM

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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.

^{*} 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.

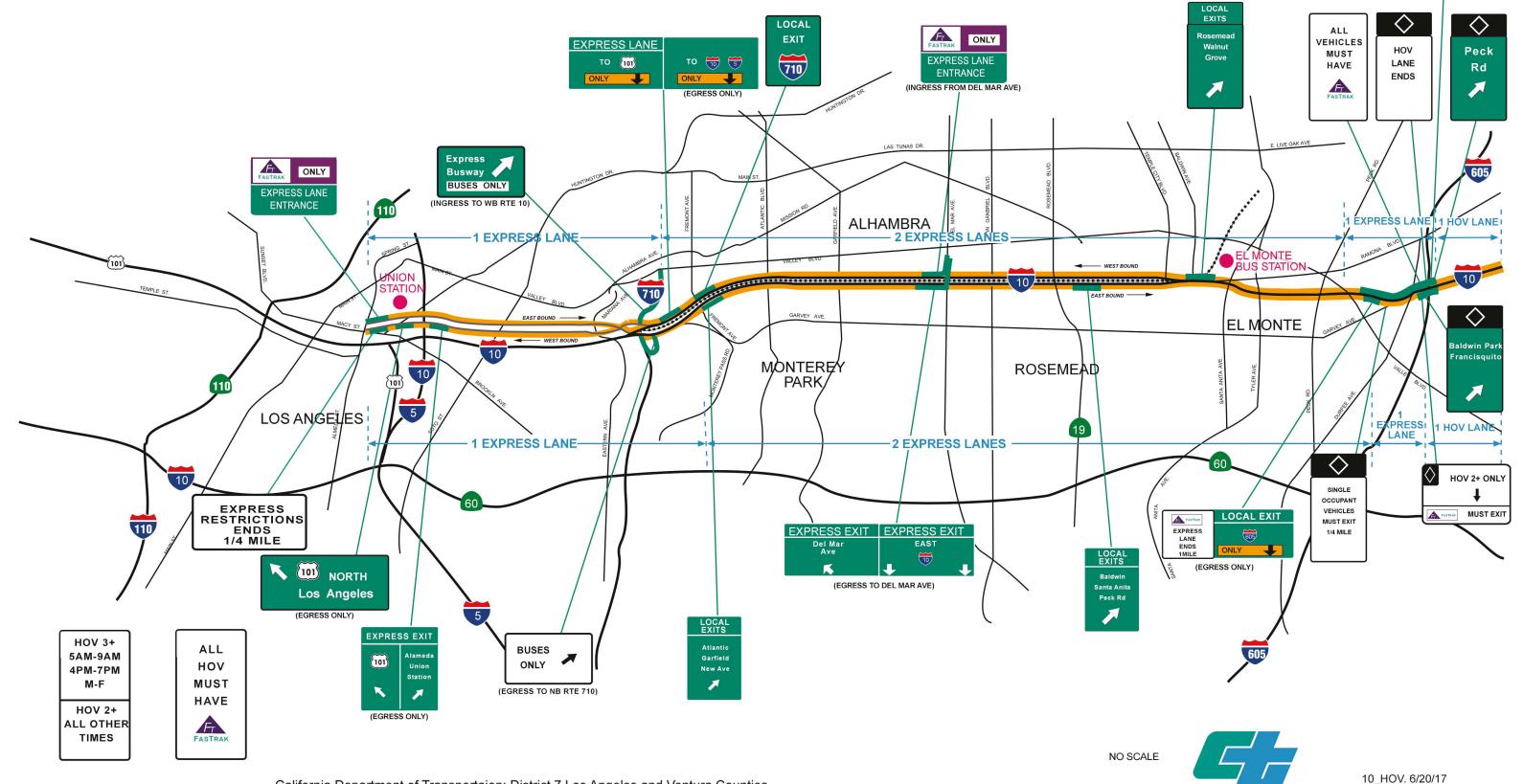
^{**} Two (2) Express Lanes (each direction) at this count location. Data shown represents equivalent volume on one (1) Express Lane.

INTERSTATE CALIFORNIA

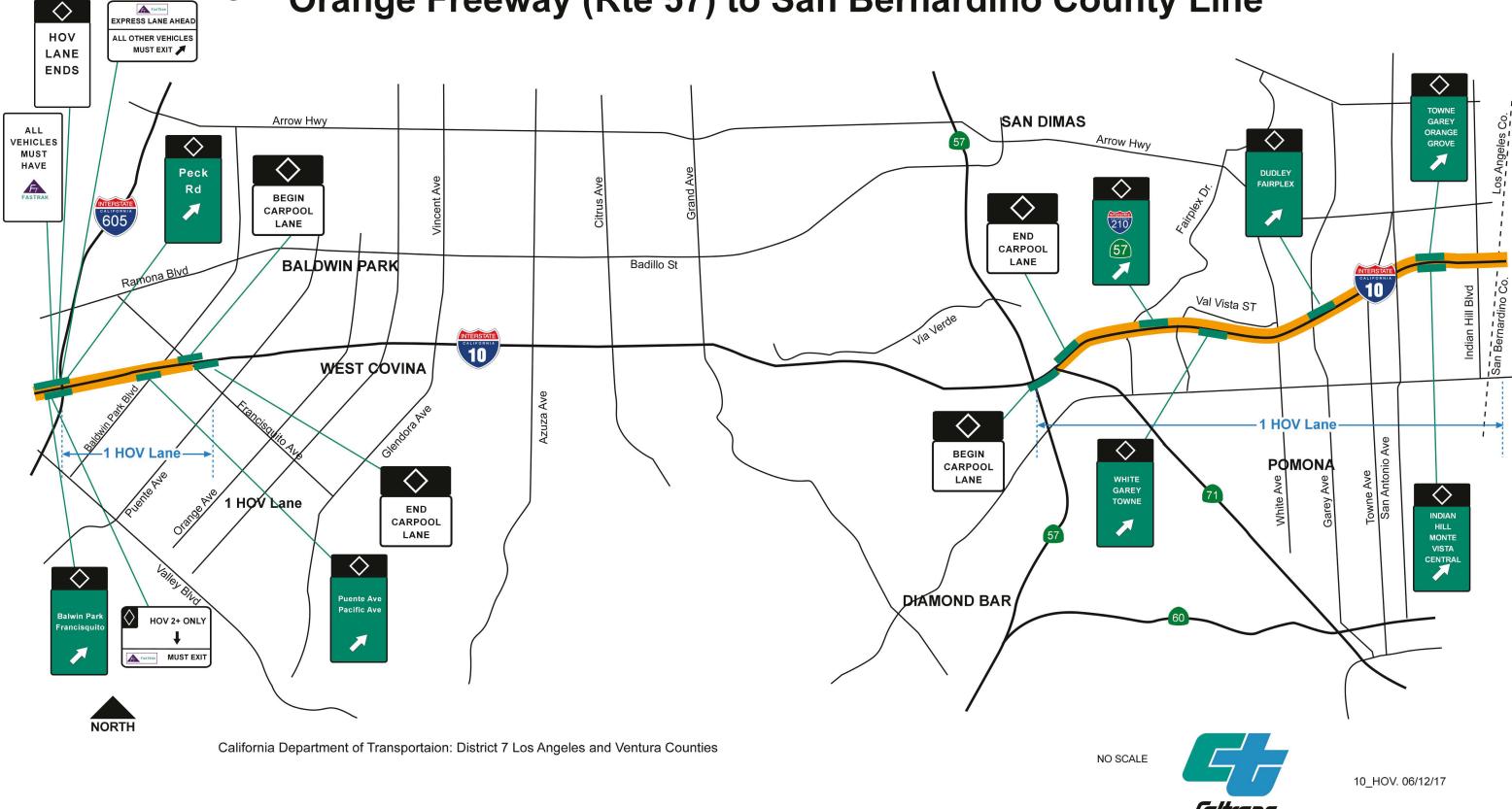
SAN BERNARDINO FREEWAY EXPRESS LANE Alameda St. to San Gabriel River Freeway (Rte 605)







SAN BERNARDINO FREEWAY HOV LANE San Gabriel River Freeway (Rte 605) to Puente Ave and Orange Freeway (Rte 57) to San Bernardino County Line





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 (Ave Q) R24.99 / R60.076 Avenue P-8 to Golden State Freeway (Route 5) R60.685 / R24.99

R24.99 / R60.076 35.8 lane-miles (Northbound) R60.685 / R24.99 36.5 lane-miles (Southbound)

72.3 lane-miles (Total)

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 Avenue Q (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:

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

Park and Ride Lots:

<u>Lot Name</u>	<u>Route</u>	Postmile (CA)	<u>Lot Address</u>	<u>City</u>
Newhall – East Lot Newhall – West Lot	14 14	27.1 27.1	SE Corner of Newhall/Rte 14 23397 Sierra Hwy	Santa Clarita Santa Clarita
Golden Valley (3 sections)	14	30.0	Rte 14 at Golden Valley Rd	Santa Clarita
Pearblossom Ave S & Geiger Ave	14 14	54.2 58.2	Rte 14 at Sierra Hwy Ave S & Geiger St	LA Co, Acton 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>	Number of I/E	Location
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

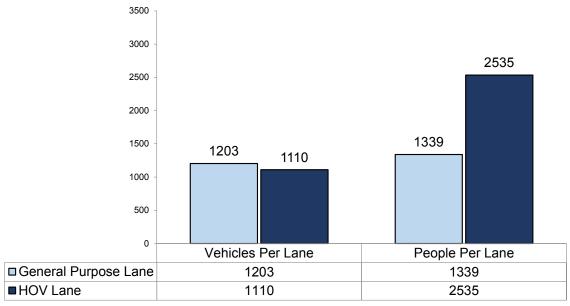
HOV Lane				
Co. Rte. Dir.	LA 14		LA 14 NB	
Location	GOLDEN		GOLDEN VALLEY	
Post Mile	29.		29.68	
Date	10/2		10/25/16	
Occupancy Requirement	2		2 +	
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
Hink On surray su Valida	6:30 - 7:30	6:30-8:30	16:15 - 17:15	16:00-18:00
High Occupancy Vehicle	<u> </u>		1170	0040
Carpools (Vehicles with 2-5 occupants only)	1030	1735	1179	2349
Vanpools	18	19	80	127
Buses	10	14	7	13
Motorcycles (MC's)	31	59	47	92
Single Occupant Vehicles	2 7	5	15	24
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	/ 12	12	9 18	19 34
Green Decal Vehicles (Plug-in Hybrids)		34		
Total Vehicles in HOV Lane	1110	1878	1355	2658
2 person carpool volume in HOV lane (vehicles)	939	1577	1098	2195
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1048	1754	1259	2476
3 person carpool volume in HOV lane (vehicles)	88	150	72	140
3 or more (3+) person carpool volume in HOV Lane (veh.)*	109	177	161	281
	People Summary			1000
People in Carpools (Vehicles with 2-5 occupants only)	2154	3636	2448	4866
People in Vanpools	108	114	480	762
People in Buses	221	260	220	370
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	52	110	89	169
Total HOV Lane People	2535	4120	3237	6167
General Purpose			1 0	
Number of General Purpose Lanes	3040		3	
General Purpose Lane Vehicles**	3610	6863	4611	9036
General Purpose Vehicles per Lane**	1203	2288	1537	3012
General Purpose Lane People** General Purpose People per Lane**	4018 1339	7578 2526	4963 1654	9798
		2020	1004	3266
	y Summary	0=11		4.400.4
Total Freeway Vehicles	4720	8741	5966	11694
Total Freeway People	6553	11698	8200	15965
Percent of Total Freeway Vehicles in HOV Lane	23.52%	21.49%	22.71%	22.73%
Percent of Total Freeway Vehicles per General Purpose Lane	25.49%	26.17%	25.76%	25.76%
Percent of Total Freeway People in HOV Lane	38.69%	35.22%	39.48%	38.63%
Percent of Total Freeway People per General Purpose Lane	20.44%	21.59%	20.17%	20.46%
GP Lane Ca	rpool Summary	t		
2+ Carpool volume in GP Lanes (vehicles)*	380	620	374	619
2+ Percent Carpools in GP Lanes	10.53%	9.03%	8.11%	6.85%
3+ Carpool Volume in GP Lanes (vehicles)*	24	43	33	98
3+ Percent Carpools in GP Lanes	0.66%	0.62%	0.70%	1.08%
	e Occupancy		·	
HOV Lane Average Occupancy (people)	2.28	2.19	2.39	2.32
General Purpose Lane Average Occupancy (people)	1.11	1.10	1.08	1.08
	ane Violation			
HOV Lane Violation (percentage)	0.18%	0.27%	1.11%	0.90%
	imber of GP Lane		,	
Equivalent number of GP Lanes needed to carry HOV people	1.89	1.63	1.96	1.89
Equitation that most of or Edited fielded to early 110 v people	1.00	1.00	1.00	1.00

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.

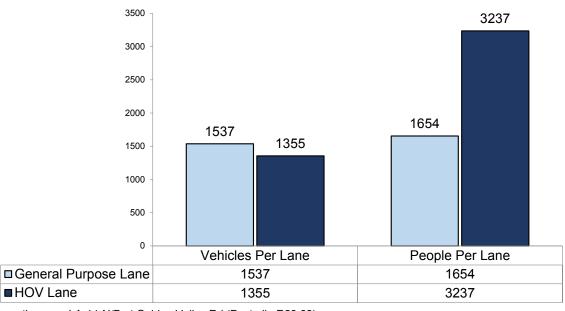
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-14-S/B at Golden Valley Rd (Postmile R29.68)

Date/Time: 10-25-2016 / 6:30 AM - 7:30 AM



Location: LA-14-N/B at Golden Valley Rd (Postmile R29.68)

Date/Time: 10-25-2016 / 4:15 PM - 5:15 PM

 $^{^{\}star}$ 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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.

ANTELOPE VALLEY FREEWAY HOV LANE LANE \Diamond Golden State Freeway (Rte 5) to Avenue P-8 PALMDALE AVE S AVE S SPRINGS BARREL **CARPOOLS ONLY CARPOOLS ONLY 2 OR MORE PERSONS** 2 OR MORE PERSONS SIERRA HWY PER VEHICLE 5-9AM • MON-FRI \Diamond 5AM - 9AM MON - FRI Northbound ESCONDIDO CYN RD Southbound AGUA DULCE CYN RD ANGELES FOREST HWY \Diamond Agua Dulce SAND CANYO SAND CYN RD Crown Valley Rd SOLEDAD CYN RD \Diamond SOLEDAD CANY SINGLE SOLEDAD CANYON OCCUPANT VEHICLES MUST EXIT Via Princessa **Route 5/14 HOV Lane Direct Connector** SOLEDAD CYN RD Saugus \Diamond SAND SINGLE OCCUPANT VEHICLES MUST EXIT NORTH SANTA CLARITA NO SCALE CARPOOL VIOLATION \$341 MINIMUM FINE ■ NB 5 to NB 14 SB 14 to SB 5 California Department of Transportation, District 7, Los Angeles and Ventura Counties District 7 Graphic Services • 14 HOVegres/ing update • 02/21/17

 \Diamond

210 EAST



FACT SHEET

ROUTE 57 ORANGE FREEWAY

Description Postmile (CA) (begin/end) Length

Orange County Line to Pomona Freeway (Route 60) Pomona Freeway (Route 60) to Orange County Line R0.00 / R4.518R R4.518L / R0.00

5.4 lane-miles (Northbound) 5.5 lane-miles (Southbound) 10.9 lane-miles (Total)

Project Limits: Date of Opening:

Orange County Line to Route 57/60 HOV lane direct connector August 1997 Route 57/60 HOV lane direct connector

February 2007

1-Hour HOV Lane Volume:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Pathfinder Rd	3.16	Southbound	10/26/2016	7:30 – 8:30 A.M.	1359 vehicles
Pathfinder Rd	3.16	Northbound	10/26/2016	3:45 – 4:45 P.M.	1241 vehicles

Park and Ride Lots:

Lot Name	Route	Postmile (CA)	Lot Address	<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>	Number of I/E	Location
Northbound Southbound	3 4	See Orange Freeway HOV Lane map (attached) See Orange Freeway HOV Lane map (attached)

HOV Lane Direct Connectors:

High Occupancy Vehicle (HOV) lane direct connector at Route 57/60 interchange.

- o Northbound Route 57 to eastbound Route 60
- o Westbound Route 60 to southbound Route 57

CALTRANS - DISTRICT 7

HOV Lane Operation on Route 57

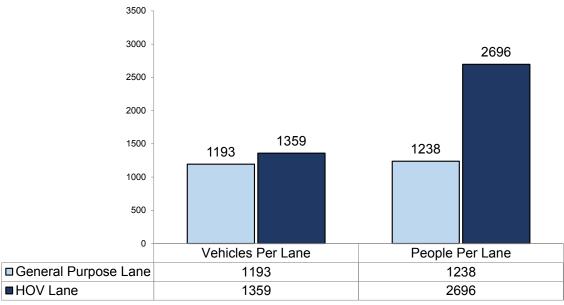
Co. Rte. Dir.	LA 57	7 SB	LA 5	57 NB
Location	PATHFINDER		PATHFINDER	
Post Mile	3.	16	3.16	
Date	10/2	6/16	10/2	6/16
Occupancy Requirement		+	2 +	
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	7:30 - 8:30	6:30-8:30	15:45 - 16:45	16:00-18:00
High Occupancy Vehicle				
Carpools (Vehicles with 2-5 occupants only)	1160	2168	1110	2171
Vanpools	10	21	10	21
Buses	2	2	3	2
Motorcycles (MC's)	45	94	54	110
Single Occupant Vehicles	20	20	14	23
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	50	75	18	50
Green Decal Vehicles (Plug-in Hybrids)	72	126	32	94
Total Vehicles in HOV Lane	1359	2506	1241	2471
2 person carpool volume in HOV lane (vehicles)	1059	1989	1016	1986
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1170	2189	1120	2192
3 person carpool volume in HOV lane (vehicles)	94	169	85	164
3 or more (3+) person carpool volume in HOV Lane (veh.)*	111	200	104	206
	People Summary	/		
People in Carpools (Vehicles with 2-5 occupants only)	2429	4526	2323	4549
People in Vanpools	60	126	60	126
People in Buses	20	20	90	50
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	187	315	118	277
Total HOV Lane People	2696	4987	2591	5002
General Purpose	(GP) Lane Sum	mary†		
Number of General Purpose Lanes	4	•	4	<u> </u>
General Purpose Lane Vehicles**	4770	9076	3665	6696
General Purpose Vehicles per Lane**	1193	2269	916	1674
General Purpose Lane People**	4950	9513	3986	7294
General Purpose People per Lane**	1238	2378	997	1823
Freewa	y Summary			
Total Freeway Vehicles	6129	11582	4906	9167
Total Freeway People	7646	14500	6577	12296
Percent of Total Freeway Vehicles in HOV Lane	22.17%	21.64%	25.30%	26.95%
Percent of Total Freeway Vehicles per General Purpose Lane	19.46%	19.59%	18.68%	18.26%
Percent of Total Freeway People in HOV Lane	35.26%	34.39%	39.39%	40.68%
Percent of Total Freeway People per General Purpose Lane	16.18%	16.40%	15.15%	14.83%
	rpool Summary			
2+ Carpool volume in GP Lanes (vehicles)*	160	395	275	520
2+ Percent Carpools in GP Lanes	3.35%	4.35%	7.50%	7.77%
3+ Carpool Volume in GP Lanes (vehicles)*	15	25	25	40
3+ Percent Carpools in GP Lanes	0.31%	0.28%	0.68%	0.60%
	e Occupancy	3.2070	3.00,0	3.0070
HOV Lane Average Occupancy (people)	1.98	1.99	2.09	2.02
General Purpose Lane Average Occupancy (people)	1.04	1.05	1.09	1.09
	ane Violation	1.00	1.00	1.00
HOV Lane Violation (percentage)	1.47%	0.80%	1.13%	0.93%
" " " " " " " " " " " " " " " " " " " "	umber of GP Lane		1.10/0	0.0070
·	2.18		2.60	2.74
Equivalent number of GP Lanes needed to carry HOV people	۷.10	2.10	2.00	4.14

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.

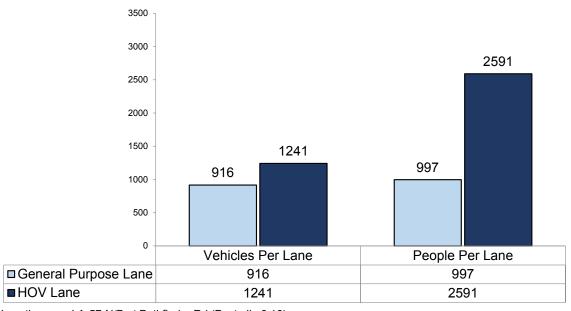
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-57-S/B at Pathfinder Rd (Postmile 3.16)

Date/Time: 10-26-2016 / 7:30 AM - 8:30 AM



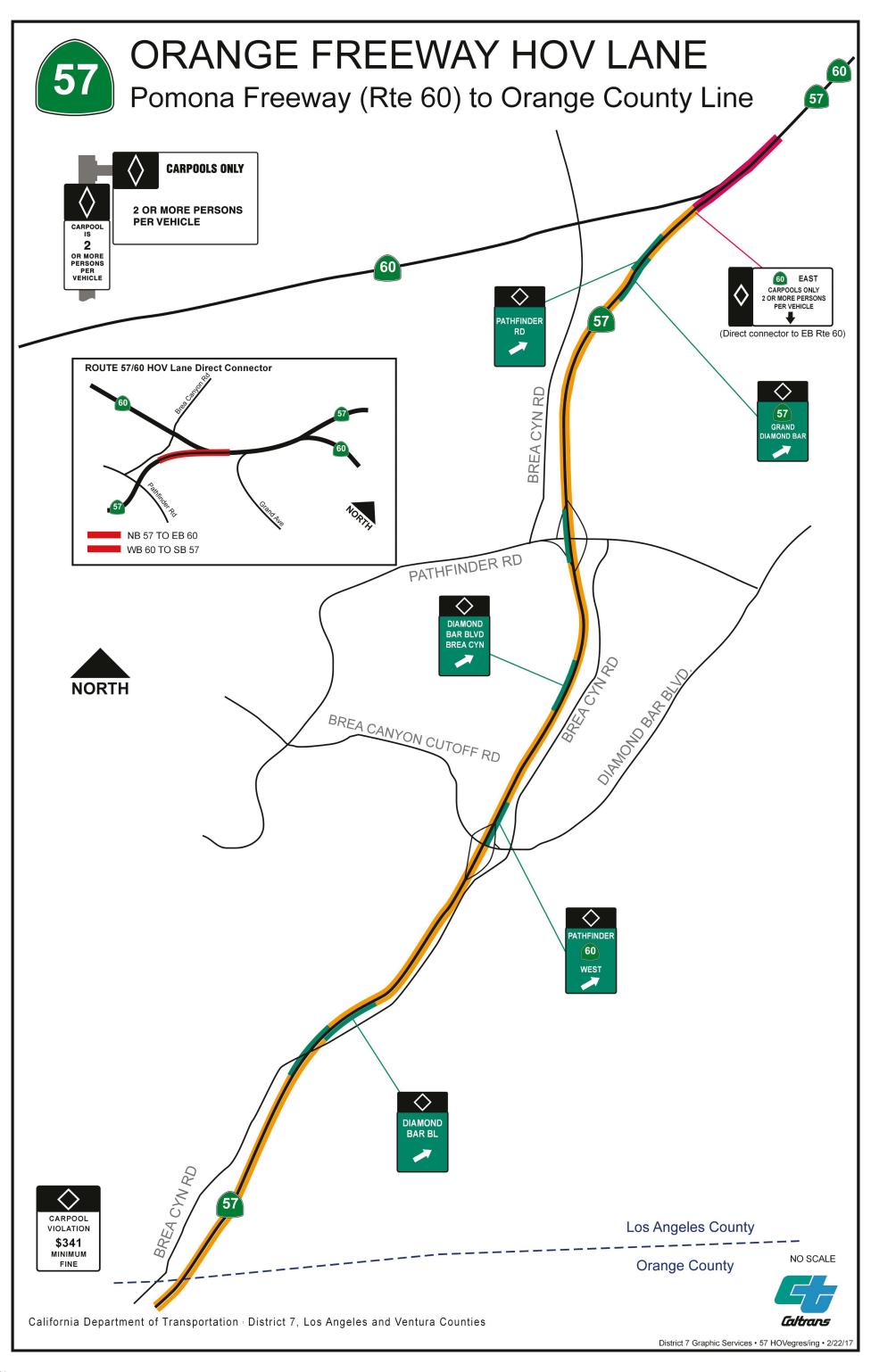
Location: LA-57-N/B at Pathfinder Rd (Postmile 3.16)

Date/Time: 10-26-2016 / 3:45 PM - 4:45 PM

 $^{^{\}star}$ 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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.





FACT SHEET

ROUTE 60 POMONA FREEWAY

Description Postmile (CA) (begin/end) Length

San Gabriel River Freeway (Route 605) to San Bernardino Co Line 11.79 / R30.456 San Bernardino County Line to 0.4 mi west of 7th Ave

R30.456 / 13.82

18.7 lane-miles (E/B) 16.6 lane-miles (W/B)

35.3 lane-miles (Total)

Project Limits:

Route 605 (E/B) / 0.4 mi west of 7th 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:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Barford Ave Barford Ave	16.54 16.54	Westbound Fastbound	10/20/2016 10/20/2016	6:30 – 7:30 A.M. 3:30 – 4:30 P.M.	1294 vehicles 1311 vehicles
Phillips Ranch Rd	R28.04	Westbound	11/16/2016	7:00 – 8:00 A.M.	1546 vehicles
Phillips Ranch Rd	R28.04	Eastbound	11/16/2016	4:15 – 5:15 P.M.	1363 vehicles

Park and Ride Lots:

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

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

<u>Direction</u>	Number of I/E	Location
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

Co. Rte. Dir.	LA 60		LA 6	0 EB
Location	BARF		BARFORD	
Post Mile	16.		16.54 10/20/16	
Date	10/2			
Occupancy Requirement	AM HOV	+ AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	6:30 - 7:30	6:30-8:30	15:30 - 16:30	16:00-18:00
High Occupancy Vehicle			10.00	10.00 10.00
Carpools (Vehicles with 2-5 occupants only)	1031	1791	1116	1979
Vanpools	3	3	7	30
Buses	9	26	6	23
Motorcycles (MC's)	29	58	31	49
Single Occupant Vehicles	105	246	105	177
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	60	100	13	36
Green Decal Vehicles (Plug-in Hybrids)	57	124	33	86
Total Vehicles in HOV Lane	1294		1311	2380
		2348	<u> </u>	
2 person carpool volume in HOV lane (vehicles)	963	1664	1023	1820
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1035	1795	1123	2009
3 person carpool volume in HOV lane (vehicles)	56	108	83	148
3 or more (3+) person carpool volume in HOV Lane (veh.)*	72	131	100	189
	People Summary			
People in Carpools (Vehicles with 2-5 occupants only)	2146	3734	2336	4130
People in Vanpools	18	18	42	180
People in Buses	340	880	220	770
People in CNG/EV/Plug-in Hybrd, Single Occ. Veh. and MC's	251	528	182	348
Total HOV Lane People	2755	5160	2780	5428
General Purpose	.` ′			
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	4169	7861	5705	11075
General Purpose Vehicles per Lane**	1042	1965	1426	2769
General Purpose Lane People**	4595	8553	6300	12273
General Purpose People per Lane**	1149	2138	1575	3068
Freewa	y Summary			
Total Freeway Vehicles	5463	10209	7016	13455
Total Freeway People	7350	13713	9080	17701
Percent of Total Freeway Vehicles in HOV Lane	23.69%	23.00%	18.69%	17.69%
Percent of Total Freeway Vehicles per General Purpose Lane	19.08%	19.25%	20.33%	20.58%
Percent of Total Freeway People in HOV Lane	37.48%	37.63%	30.62%	30.67%
Percent of Total Freeway People per General Purpose Lane	15.63%	15.59%	17.35%	17.33%
	rpool Summary		17.5570	17.5570
			405	1045
2+ Carpool volume in GP Lanes (vehicles)*	360	590	485	1015
2+ Percent Carpools in GP Lanes	8.64%	7.51%	8.50%	9.16%
3+ Carpool Volume in GP Lanes (vehicles)*	50	75	50	95
3+ Percent Carpools in GP Lanes	1.20%	0.95%	0.88%	0.86%
A				
· ·	e Occupancy	0.00	0.40	0.00
HOV Lane Average Occupancy (people)	2.13	2.20	2.12	2.28
HOV Lane Average Occupancy (people) General Purpose Lane Average Occupancy (people)	2.13 1.10	2.20 1.09	2.12 1.10	2.28 1.11
HOV Lane Average Occupancy (people) General Purpose Lane Average Occupancy (people) HOV La	2.13 1.10 ane Violation	1.09	1.10	1.11
HOV Lane Average Occupancy (people) General Purpose Lane Average Occupancy (people) HOV Lane Violation (percentage)	2.13 1.10 ane Violation 8.11%	1.09		
HOV Lane Average Occupancy (people) General Purpose Lane Average Occupancy (people) HOV La HOV Lane Violation (percentage)	2.13 1.10 ane Violation	1.09	1.10	1.11

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

^{*} Carpools and vanpools only.

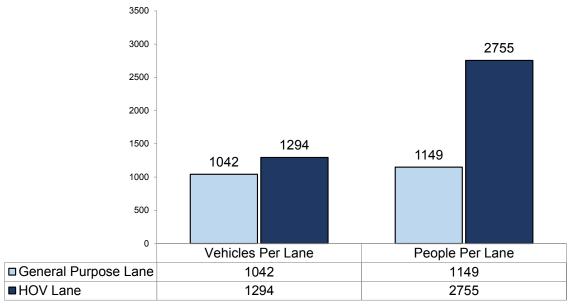
^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.

Co. Rte. Dir.	LA 60		ΙΛ 6	60 EB
Location	PHILLIPS		PHILLIPS RANCH	
Post Mile	28.		28.	
Date	11/1		11/1	
Occupancy Requirement	2		2	
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	7:00 - 8:00	6:30-8:30	16:15 - 17:15	16:00-18:00
High Occupancy Vehicle				
Carpools (Vehicles with 2-5 occupants only)	1423	2734	1281	2509
Vanpools	4	6	5	15
Buses	5	11	2	3
Motorcycles (MC's)	34	70	33	61
Single Occupant Vehicles	7	12	3	7
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	27	43	15	25
Green Decal Vehicles (Plug-in Hybrids)	46	88	24	38
Total Vehicles in HOV Lane	1546	2964	1363	2658
2 person carpool volume in HOV lane (vehicles)	1311	2526	1177	2313
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1427	2740	1286	2524
3 person carpool volume in HOV lane (vehicles)	105	195	96	181
3 or more (3+) person carpool volume in HOV Lane (veh.)*	116	214	109	211
	People Summary		109	211
			0074	5229
People in Carpools (Vehicles with 2-5 occupants only)	2966	5690	2674	
People in Vanpools	24	36	30	90
People in Buses	141	320	50	60
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	114	213	75	131
Total HOV Lane People	3245	6259	2829	5510
General Purpose	(GP) Lane Sum	mary†		
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	4723	9048	5873	11696
General Purpose Vehicles per Lane**	1181	2262	1468	2924
General Purpose Lane People**	5023	9573	6403	12571
General Purpose People per Lane**	1256	2393	1601	3143
Freewa	y Summary			
Total Freeway Vehicles	6269	12012	7236	14354
Total Freeway People	8268	15832	9232	18081
Percent of Total Freeway Vehicles in HOV Lane	24.66%	24.68%	18.84%	18.52%
Percent of Total Freeway Vehicles per General Purpose Lane	18.83%	18.83%	20.29%	20.37%
Percent of Total Freeway People in HOV Lane	39.25%	39.54%	30.65%	30.47%
Percent of Total Freeway People per General Purpose Lane	15.19%	15.12%	17.34%	17.38%
	rpool Summary	t		
2+ Carpool volume in GP Lanes (vehicles)*	265	465	543	770
2+ Percent Carpools in GP Lanes	5.61%	5.14%	9.24%	6.58%
3+ Carpool Volume in GP Lanes (vehicles)*	35	55	21	80
3+ Percent Carpools in GP Lanes	0.74%	0.61%	0.36%	0.68%
Average	e Occupancy			
HOV Lane Average Occupancy (people)	2.10	2.11	2.08	2.07
General Purpose Lane Average Occupancy (people)	1.06	1.06	1.09	1.07
	ane Violation			
HOV Lane Violation (percentage)	0.45%	0.40%	0.22%	0.26%
\(\frac{1}{2}\)	imber of GP Lane		J.22/0	3.2070
Equivalent number of GP Lanes needed to carry HOV people	2.58	2.62	1.77	1.75
Equivalent number of Gr. Lanes needed to carry not people	2.00	2.02	1.77	1.70

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

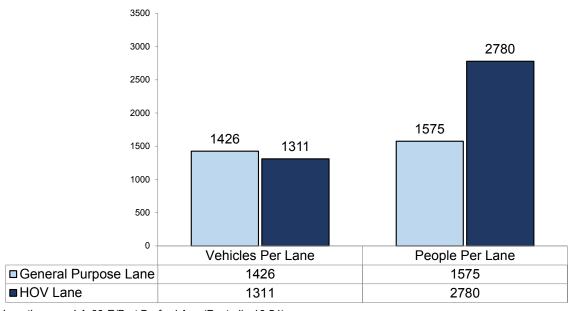
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-60-W/B at Barford Ave (Postmile 16.54)

Date/Time: 10-20-2016 / 6:30 AM - 7:30 AM



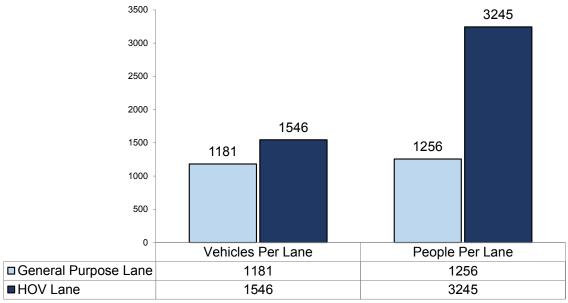
Location: LA-60-E/B at Barford Ave (Postmile 16.54)

Date/Time: 10-20-2016 / 3:30 PM - 4:30 PM

 $^{^{\}star}$ 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.

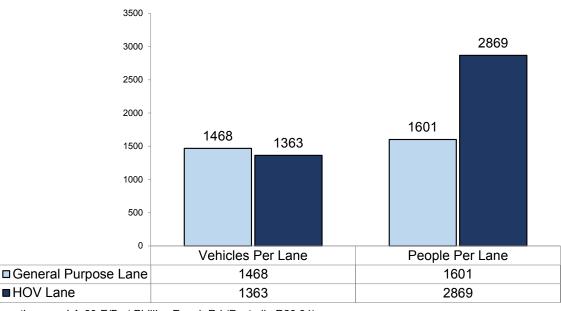
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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



Location: LA-60-W/B at Phillips Ranch Rd (Postmile R28.04)

Date/Time: 11-16-2016 / 7:00 AM - 8:00 AM



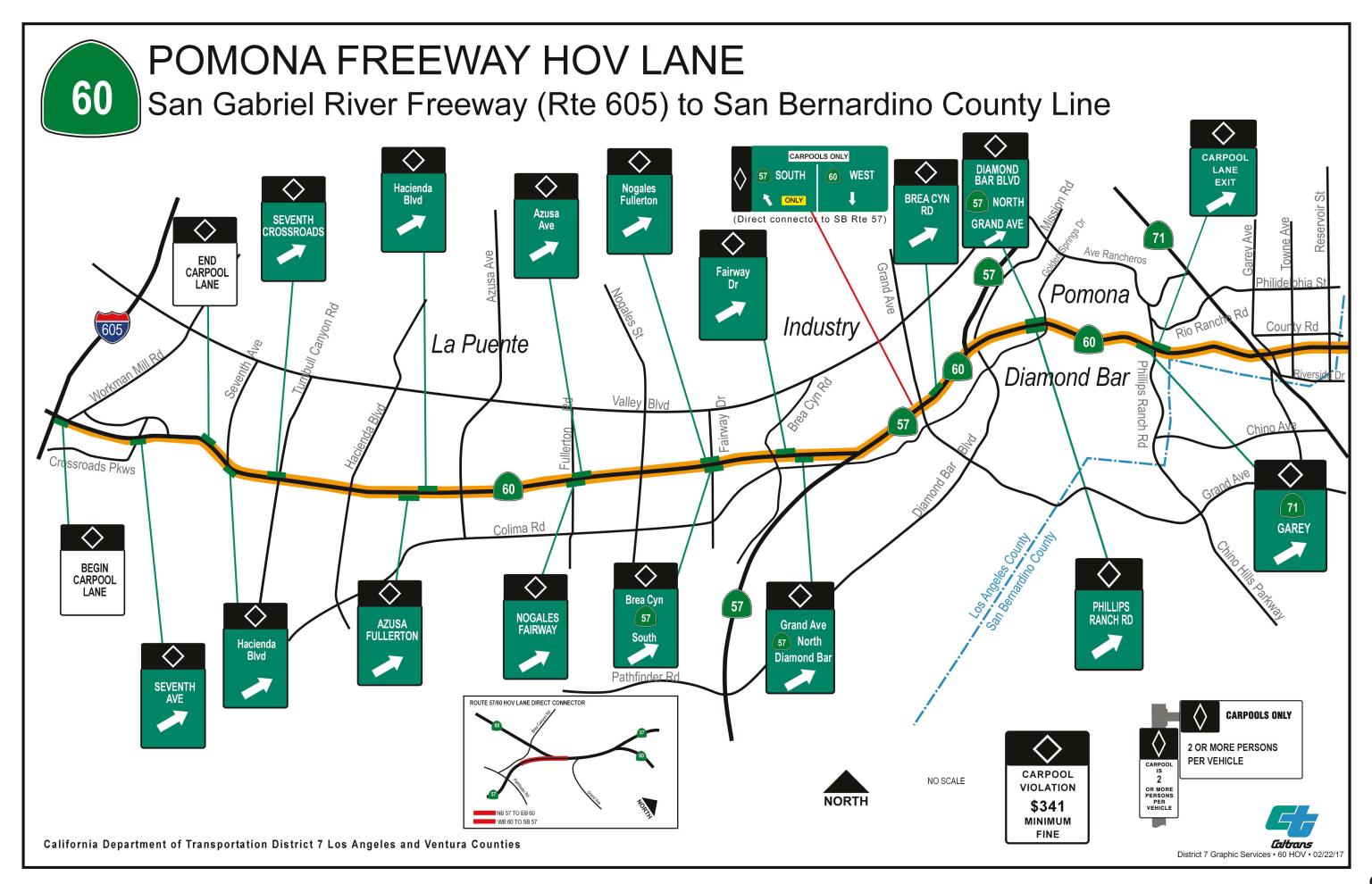
Location: LA-60-E/B at Phillips Ranch Rd (Postmile R28.04)

Date/Time: 11-16-2016 / 4:15 PM - 5:15 PM

 $^{^{\}star}$ 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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.





FACT SHEET

ROUTE 91 ARTESIA FREEWAY

Description

Harbor Freeway (Route 110) to Orange County Line Orange County Line to Central Ave

Postmile (CA) (begin/end)

R6.559 / R20.741 R20.741 / R8.532 Length

14.2 lane-miles (Eastbound) 12.2 lane-miles (Westbound) 26.4 lane-miles (Total)

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:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Wilmington Ave	R9.16	Westbound	10/5/2016	6:30 – 7:30 A.M.	1496 vehicles
Wilmington Ave	R9.16	Eastbound	10/5/2016	3:30 – 4:30 P.M.	1281 vehicles
Bloomfield Ave	R19.17	Westbound	10/6/2016	6:30 – 7:30 A.M.	1377 vehicles
Artesia Blvd	R19.43	Eastbound	10/6/2016	4:45 – 5:45 P.M.	1449 vehicles

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

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

	Operation on R			
Co. Rte. Dir.	LA 9'			1 EB
Location	WILMIN		WILMIN	
Post Mile	9.		9.1	
Date	10/0		10/0	
Occupancy Requirement	2		2	
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	6:30 - 7:30	6:30-8:30	15:30 - 16:30	16:00-18:00
High Occupancy Vehicle				1000
Carpools (Vehicles with 2-5 occupants only)	1247	2349	1067	1983
Vanpools	5	16	29	61
Buses	2	6	9	17
Motorcycles (MC's)	47	78	35	89
Single Occupant Vehicles	74	149	36	108
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	53	115	30	93
Green Decal Vehicles (Plug-in Hybrids)	68	165	75	151
Total Vehicles in HOV Lane	1496	2878	1281	2502
2 person carpool volume in HOV lane (vehicles)	1180	2204	952	1796
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1252	2365	1096	2044
3 person carpool volume in HOV lane (vehicles)	58	127	93	150
3 or more (3+) person carpool volume in HOV Lane (veh.)*	72	161	144	248
HOV Lane F	eople Summary	,		
People in Carpools (Vehicles with 2-5 occupants only)	2572	4865	2276	4198
People in Vanpools	30	96	174	366
People in Buses	30	150	310	540
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	242	507	176	441
Total HOV Lane People	2874	5618	2936	5545
General Purpose	(GP) Lane Sum	mary†		
Number of General Purpose Lanes	4		4	ļ
General Purpose Lane Vehicles**	6488	12560	3931	7254
General Purpose Vehicles per Lane**	1622	3140	983	1813
General Purpose Lane People**	6893	13325	4216	7820
General Purpose People per Lane**	1723	3331	1054	1955
Freewa	y Summary			
Total Freeway Vehicles	7984	15438	5212	9756
Total Freeway People	9767	18943	7152	13365
Percent of Total Freeway Vehicles in HOV Lane	18.74%	18.64%	24.58%	25.65%
Percent of Total Freeway Vehicles per General Purpose Lane	20.32%	20.34%	18.86%	18.59%
Percent of Total Freeway People in HOV Lane	29.43%	29.66%	41.05% 14.74%	41.49%
Percent of Total Freeway People per General Purpose Lane	17.64%	17.59%	14.74%	14.63%
	rpool Summary			
2+ Carpool volume in GP Lanes (vehicles)*	365	705	225	476
2+ Percent Carpools in GP Lanes	5.63%	5.61%	5.72%	6.57%
3+ Carpool Volume in GP Lanes (vehicles)*	30	50	45	66
3+ Percent Carpools in GP Lanes	0.46%	0.40%	1.14%	0.91%
Ş	Occupancy			
HOV Lane Average Occupancy (people)	1.92	1.95	2.29	2.22
General Purpose Lane Average Occupancy (people)	1.06	1.06	1.07	1.08
	ane Violation			
HOV Lane Violation (percentage)	4.95%	5.18%	2.81%	4.32%
	mber of GP Lane			
Equivalent number of GP Lanes needed to carry HOV people	1.67	1.69	2.79	2.84

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

^{*} Carpools and vanpools only.

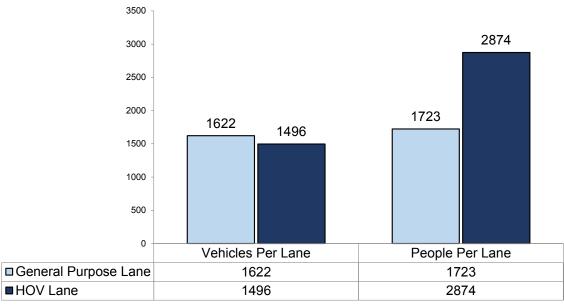
^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.

	Operation on R			
Co. Rte. Dir.	LA 9'			91 EB
Location	BLOOM	/IFIELD	ARTI	
Post Mile	19.	17	19.43	
Date	10/0	6/16	10/0	6/16
Occupancy Requirement	2	+	2	+
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	6:30 - 7:30	6:30-8:30	16:45 - 17:45	16:00-18:00
High Occupancy Vehicle	(HOV) Lane Veh	icle Summary		
Carpools (Vehicles with 2-5 occupants only)	1059	1962	1133	2158
Vanpools	18	26	37	72
Buses	6	20	12	22
Motorcycles (MC's)	46	87	48	99
Single Occupant Vehicles	61	133	69	116
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	75	137	60	101
Green Decal Vehicles (Plug-in Hybrids)	112	229	90	161
Total Vehicles in HOV Lane	1377	2594	1449	2729
2 person carpool volume in HOV lane (vehicles)	981	1824	1059	2004
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1077	1988	1170	2230
3 person carpool volume in HOV lane (vehicles)	65	119	60	124
3 or more (3+) person carpool volume in HOV Lane (veh.)*	96	164	111	226
	People Summary		111	220
People in Carpools (Vehicles with 2-5 occupants only)	2210	4082	2358	4512
People in Vanpools	108	156	2336	432
People in Buses	180	630	291	650
1 :				
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	294 2792	586 5454	267 3138	477 6071
Total HOV Lane People			3130	0071
General Purpose Number of General Purpose Lanes	(GP) Lane Sum			1
General Purpose Lane Vehicles**	4948	9448	5556	10518
General Purpose Vehicles per Lane**	1237	2362	1389	2629
General Purpose Lane People**				
	5256 1314	9988	6059	11476 2869
General Purpose People per Lane**		2497	1515	2009
	y Summary			
Total Freeway Vehicles	6325	12042	7005	13247
Total Freeway People	8048	15442	9197	17547
Percent of Total Freeway Vehicles in HOV Lane	21.77%	21.54%	20.68%	20.60%
Percent of Total Freeway Vehicles per General Purpose Lane	19.56%	19.61%	19.83%	19.85%
Percent of Total Freeway People in HOV Lane	34.69%	35.32%	34.12%	34.60%
Percent of Total Freeway People per General Purpose Lane	16.33%	16.17%	16.47%	16.35%
GP Lane Carpool Summary†				
2+ Carpool volume in GP Lanes (vehicles)*	279	495	448	849
2+ Percent Carpools in GP Lanes	5.63%	5.24%	8.05%	8.07%
3+ Carpool Volume in GP Lanes (vehicles)*	19	30	38	79
3+ Percent Carpools in GP Lanes	0.38%	0.32%	0.67%	0.75%
	e Occupancy	0.0270	0.0170	0.1070
HOV Lane Average Occupancy (people)	2.03	2.10	2.17	2.22
General Purpose Lane Average Occupancy (people)	1.06	1.06	1.09	1.09
	ane Violation	1.00	1.00	1.00
HOV Lane Violation (percentage)	4.43%	5.13%	4.76%	4.25%
" " " " " " " " " " " " " " " " " " " "			4./0%	4.23%
	imber of GP Lane		0.07	0.40
Equivalent number of GP Lanes needed to carry HOV people	2.12	2.18	2.07	2.12

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

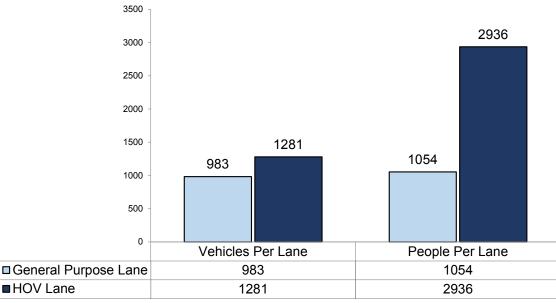
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-91-W/B at Wilmington Ave (Postmile R9.16)

Date/Time: 10-5-2016 / 6:30 AM - 7:30 AM



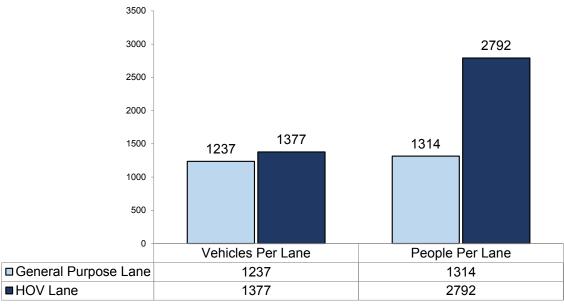
Location: LA-91-E/B at Wilmington Ave (Postmile R9.16)

Date/Time: 10-5-2016 / 3:30 PM - 4:30 PM

 $^{^{\}star}$ 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.

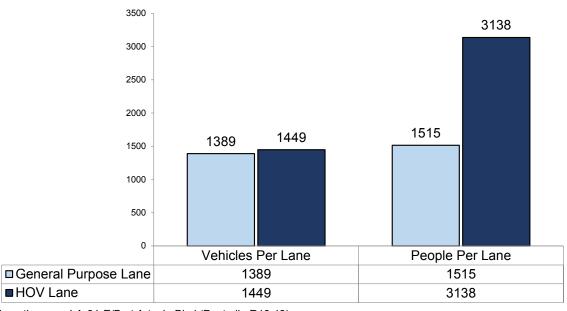
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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



Location: LA-91-W/B at Bloomfield Ave (Postmile R19.17)

Date/Time: 10-6-2016 / 6:30 AM - 7:30 AM



Location: LA-91-E/B at Artesia Blvd (Postmile R19.43)

Date/Time: 10-6-2016 / 4:45 PM - 5:45 PM

 $^{^{\}star}$ 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.

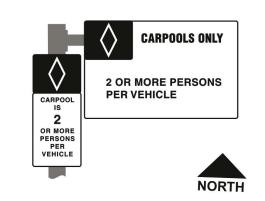
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

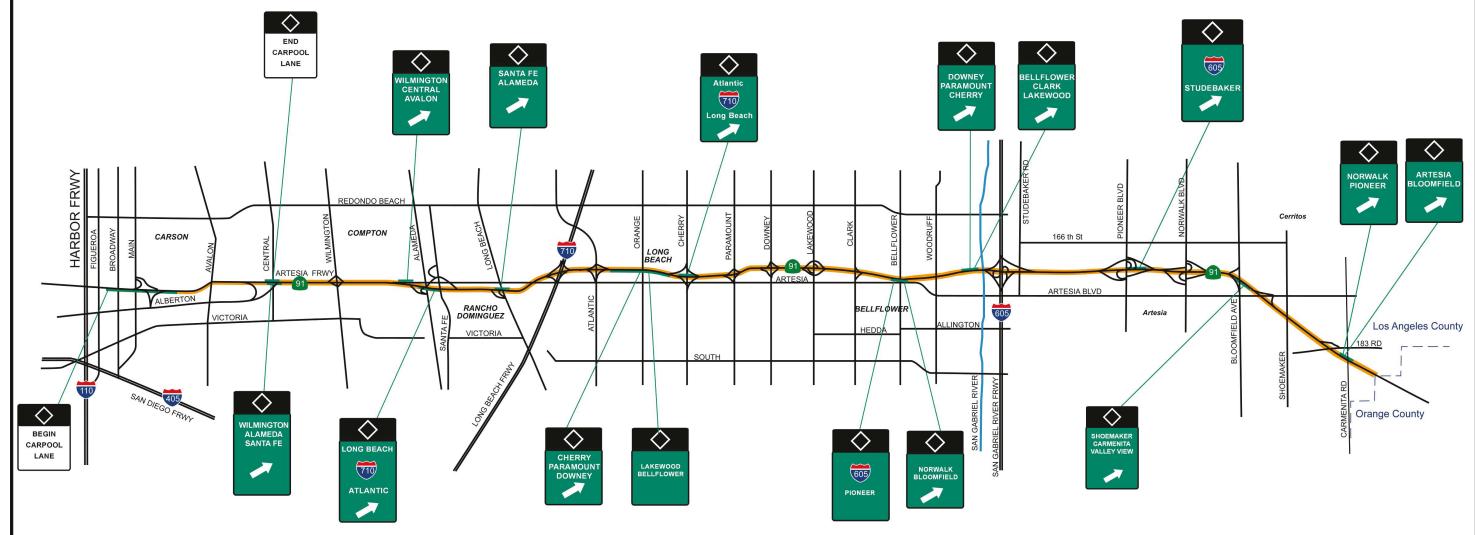
Note 2: Volume includes carpools, vanpools, buses, motorcycles, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.



ARTESIA FREEWAY HOV LANE

Harbor Freeway (Rte110) to Orange County Line







California Department of Transportation District 7 Los Angeles and Ventura Counties

NO SCALE

District 7 Graphic Services •91 HOVegres/ing • 2/09/17



FACT SHEET

ROUTE 101 (Ventura County) VENTURA FREEWAY

<u>Description</u> <u>Postmile (CA) (begin/end)</u> <u>Length</u>

0.1 mile north of Mobile Pier Rd to Santa Barbara Co Line VEN R39.89 / VEN R43.622 3.6 lane-miles (Northbound) Santa Barbara Co Line to 0.4 mile north of Mobile Pier Rd VEN R43.622 / VEN R40.197 3.3 lane-miles (Southbound)

6.9 lane-miles (Total)

Project Limits: Date of Opening:

0.1 mile (N/B) / 0.4 mile (S/B) north of Mobile Pier Rd to Santa Barbara Co Line March 2015

1-Hour HOV Lane Volume:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Rte 150 (Rincon Rd)	SB 0.63	Northbound	11/03/2016	6:30 – 7:30 A.M.	648 vehicles
Rte 150 (Rincon Rd)	SB 0.63	Southbound	11/03/2016	4:00 - 5:00 P.M.	636 vehicles

Park and Ride Lots:

Lot Name	<u>Route</u>	Postmile (CA)	<u>Lot Address</u>	<u>City</u>
Kanan Rd – SE Lot	LA-101	35.1	Rte 101/Kanan & 29165 Roadside	Agoura Hills
Borchard Rd	VEN-101	7	Rte 101 at Borchard Rd/475 Rancho Conjeo	Thousand Oaks
Pleasant Valley	VEN-101	12.3	Rte 101 at Pleasant Valley Rd/Santa Rosa Rd	Camarillo
Las Posas Rd	VEN-101	15.7	Rte 101 at Las Posas Rd/690 Ventura Blvd	Camarillo

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

Location

Direction	Nulliber of I/E	Location
Northbound Southbound	Continuous Access Continuous Access	See Ventura Freeway HOV Lane map (attached) See Ventura Freeway HOV Lane map (attached)

Additional Information:

Number of I/C

Direction

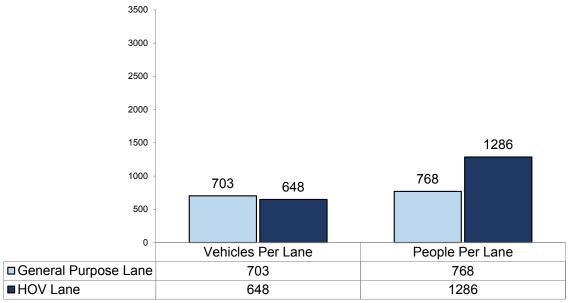
Continuous access and part-time HOV lane facility. 2 or more persons per vehicle required in the HOV lane during peak periods (Monday through Friday 6 a.m. – 9 a.m. and 3 p.m. – 6 p.m.). HOV lane continues into Santa Barbara County for an additional 1.02 lane-miles in the northbound direction and 1.92 lane-miles in the southbound direction. Santa Barbara County portion of the HOV lane is not included in total HOV lane miles stated above.

	Operation on R				
Co. Rte. Dir.	SB 10		SB 10	_	
Location	150 (RIN	,	150 (RIN	,	
Post Mile	0.6		0.63		
Date	11/0		11/03/16		
Occupancy Requirement	2		2		
	AM HOV	AM HOV	PM HOV	PM HOV	
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour	
	6:30 - 7:30	6:30-8:30	16:00 - 17:00	16:00-18:00	
High Occupancy Vehicle	· ,				
Carpools (Vehicles with 2-5 occupants only)	574	828	546	1105	
Vanpools	4	5	5	6	
Buses	0	4	6	16	
Motorcycles (MC's)	13	23	11	22	
Single Occupant Vehicles	51	117	61	126	
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	2	3	2	4	
Green Decal Vehicles (Plug-in Hybrids)	4	7	5	12	
Total Vehicles in HOV Lane	648	987	636	1291	
2 person carpool volume in HOV lane (vehicles)	540	769	454	984	
2 or more (2+) person carpool volume in HOV Lane (veh.)*	576	831	551	1111	
3 person carpool volume in HOV lane (vehicles)	26	50	75	97	
3 or more (3+) person carpool volume in HOV Lane (veh.)*	36	62	97	127	
	People Summary		-		
People in Carpools (Vehicles with 2-5 occupants only)	1192	1726	1204	2361	
People in Vanpools	24	30	30	36	
People in Buses	0	40	200	600	
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	70	150	79	164	
Total HOV Lane People	1286	1946	1513	3161	
General Purpose (GP) Lane Summary†					
Number of General Purpose Lanes	2		2)	
General Purpose Lane Vehicles**	1405	2755	2473	4821	
General Purpose Vehicles per Lane**	703	1378	1236	2411	
General Purpose Lane People**	1535	3000	2890	5681	
General Purpose People per Lane**	768	1500	1445	2841	
Freeway Summary					
Total Freeway Vehicles		3742	3109	6112	
·	2053				
Total Freeway People	2821	4946	4403	8842	
Percent of Total Freeway Vehicles in HOV Lane	31.56%	26.38%	20.46%	21.12%	
Percent of Total Freeway Vehicles per General Purpose Lane	34.22%	36.81%	39.77%	39.44%	
Percent of Total Freeway People in HOV Lane	45.59%	39.34%	34.36%	35.75%	
Percent of Total Freeway People per General Purpose Lane	27.21%	30.33%	32.82%	32.13%	
GP Lane Ca	rpool Summary	†			
2+ Carpool volume in GP Lanes (vehicles)*	123	235	303	610	
2+ Percent Carpools in GP Lanes	8.72%	8.53%	12.23%	12.65%	
3+ Carpool Volume in GP Lanes (vehicles)*	8	10	28	60	
3+ Percent Carpools in GP Lanes	0.53%	0.36%	1.11%	1.24%	
·	e Occupancy				
HOV Lane Average Occupancy (people)	1.98	1.97	2.38	2.45	
General Purpose Lane Average Occupancy (people)	1.09	1.09	1.17	1.18	
HOV Lane Violation					
HOV Lane Violation (percentage)	7.87%	11.85%	9.59%	9.76%	
	imber of GP Lane		0.0070	5.7070	
Equivalent number of GP Lanes needed to carry HOV people	1.68	1.30	1.05	1.11	
Equivalent number of GF Lanes needed to carry nov people	1.00	1.30	1.00	1.11	

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

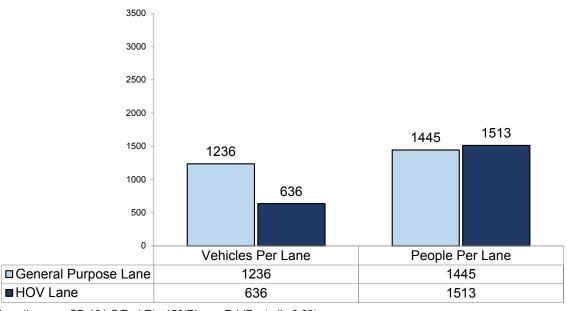
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: SB-101-N/B at Rte 150/Rincon Rd (Postmile 0.63)

Date/Time: 11-3-2016 / 6:30 AM - 7:30 AM



Location: SB-101-S/B at Rte 150/Rincon Rd (Postmile 0.63)

Date/Time: 11-3-2016 / 4:00 PM - 5:00 PM

 $^{^{\}star}$ 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.

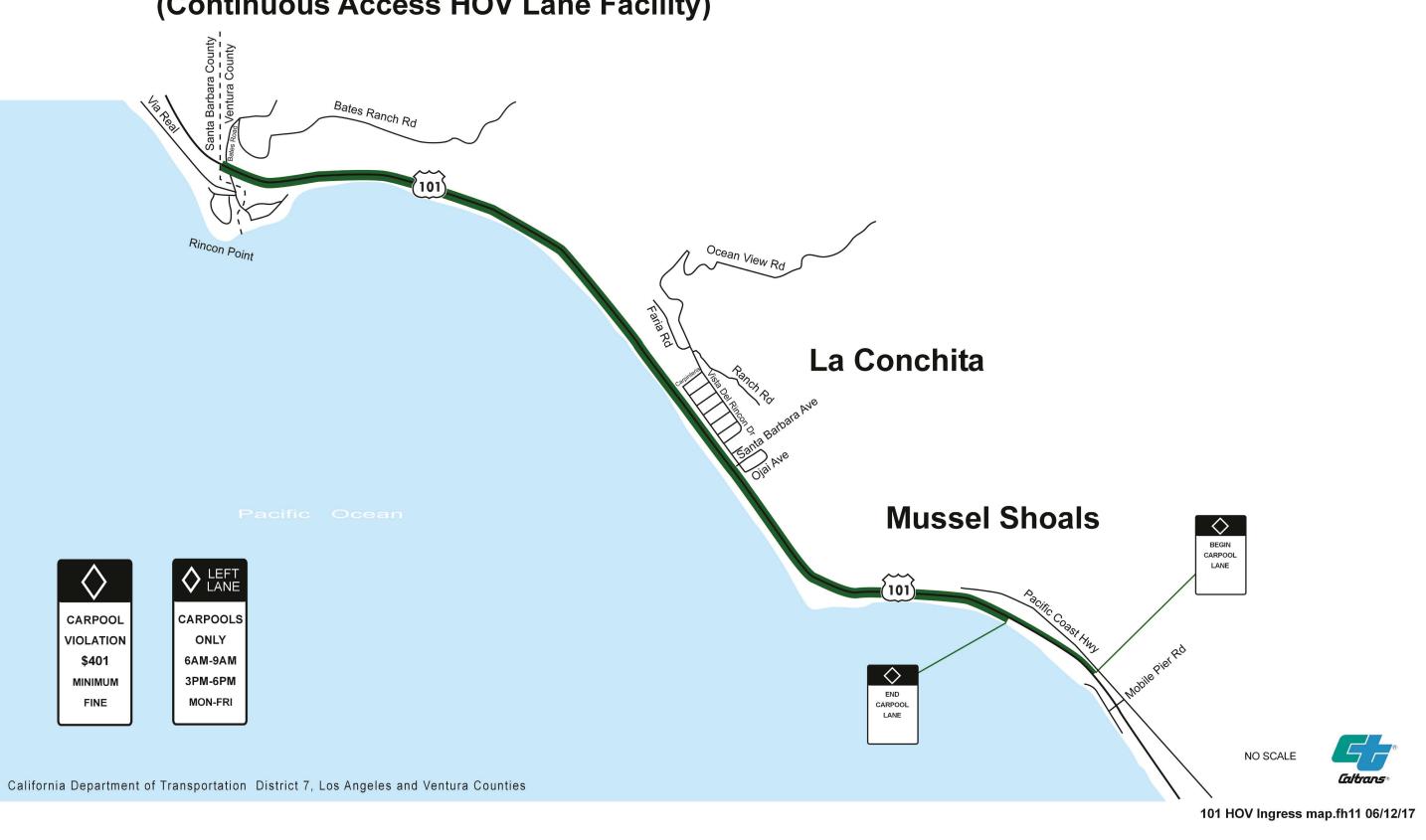
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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

(101)

VENTURA FREEWAY HOV LANE

Mobile Pier Rd to Santa Barbara County Line (Continuous Access HOV Lane Facility)





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
Studebaker Rd to San Diego Freeway (Route 405)

R18.14 / R2.42

16.3 lane-miles (Eastbound)

15.7 lane-miles (Westbound)

32.0 lane-miles (Total)

Project Limits: Date of Opening:

Route 405 to Studebaker Rd October 1993

1-Hour HOV Lane Volume:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Long Beach Blvd	R11.51	Westbound	9/29/2016	6:30 – 7:30 A.M.	1218 vehicles
Long Beach Blvd	R11.51	Eastbound	9/29/2016	3:45 – 4:45 P.M.	1292 vehicles
Lakewood Blvd	R15.76	Westbound	10/4/2016	6:30 - 7:30 P.M.	1310 vehicles
Lakewood Blvd	R15.76	Eastbound	10/4/2016	4:00 - 5:00 P.M.	1323 vehicles

Park and Ride Lots:

Lot Name	Route	Postmile (CA)	Lot Address	<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	10.0	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 (2 sections)	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>	Number of I/E	<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.

- 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

Co. Rte. Dir.	LA 10		LA 10	05 EB	
			_		
Location	LONG I		LONG E		
Post Mile	11.		11.		
Date	09/2		09/29		
Occupancy Requirement		+ 	2 DM HOV		
	AM HOV Peak 1-Hour	AM HOV Peak 2-Hour	PM HOV Peak 1-Hour	PM HOV Peak 2-Hour	
	6:30 - 7:30	6:30-8:30	15:45 - 16:45	16:00-18:00	
High Occupancy Vahiala			15.45 - 10.45	10.00-10.00	
High Occupancy Vehicle			4070	0007	
Carpools (Vehicles with 2-5 occupants only)	1052	2123	1070	2097	
Vanpools	15	18	26	45	
Buses	5	13	3	11	
Motorcycles (MC's)	58	122	91	166	
Single Occupant Vehicles	6	17	15	33	
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	36	81	34	90	
Green Decal Vehicles (Plug-in Hybrids)	46	115	53	111	
Total Vehicles in HOV Lane	1218	2489	1292	2553	
2 person carpool volume in HOV lane (vehicles)	990	1989	984	1930	
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1067	2141	1096	2142	
3 person carpool volume in HOV lane (vehicles)	57	119	73	137	
3 or more (3+) person carpool volume in HOV Lane (veh.)*	77	152	112	212	
HOV Lane F	People Summary	/			
People in Carpools (Vehicles with 2-5 occupants only)	2171	4396	2239	4393	
People in Vanpools	90	108	156	270	
People in Buses	160	260	80	260	
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	146	335	193	400	
Total HOV Lane People	2567	5099	2668	5323	
•	General Purpose (GP) Lane Summary†				
Number of General Purpose Lanes	3		3	3	
General Purpose Lane Vehicles**	2516	4959	3899	7640	
General Purpose Vehicles per Lane**	839	1653	1300	2547	
General Purpose Lane People**	2678	5235	4210	8278	
General Purpose People per Lane**	893	1745	1403	2759	
Freeway Summary					
Total Freeway Vehicles	3734	7448	5191	10193	
·					
Total Freeway People	5245	10334	6878	13601	
Percent of Total Freeway Vehicles in HOV Lane	32.62%	33.42%	24.89%	25.05%	
Percent of Total Freeway Vehicles per General Purpose Lane	22.46%	22.19%	25.04%	24.98%	
Percent of Total Freeway People in HOV Lane	48.95%	49.34%	38.79%	39.14%	
Percent of Total Freeway People per General Purpose Lane	17.02%	16.89%	20.40%	20.29%	
GP Lane Carpool Summary†					
2+ Carpool volume in GP Lanes (vehicles)*	114	213	285	570	
2+ Percent Carpools in GP Lanes	4.52%	4.29%	7.31%	7.46%	
3+ Carpool Volume in GP Lanes (vehicles)*	16	25	26	64	
3+ Percent Carpools in GP Lanes	0.65%	0.50%	0.67%	0.83%	
Average Occupancy					
HOV Lane Average Occupancy (people)	2.11	2.05	2.07	2.08	
General Purpose Lane Average Occupancy (people)	1.06	1.06	1.08	1.08	
	ane Violation	1.00	1.00	1.00	
HOV Lane Violation (percentage)	0.49%	0.68%	1.16%	1.29%	
			1.1070	1.4370	
	ımber of GP Lane		4.00	4.00	
Equivalent number of GP Lanes needed to carry HOV people	2.88	2.92	1.90	1.93	

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

^{*} Carpools and vanpools only.

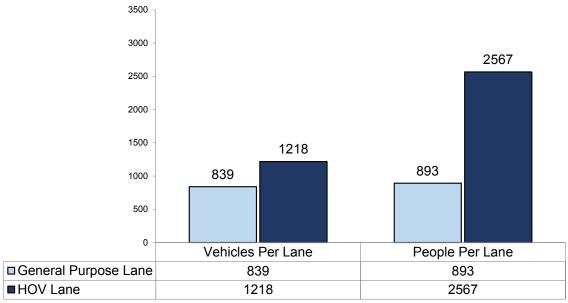
^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.

	Operation on R				
Co. Rte. Dir.	LA 10		LA 10		
Location	LAKEV		LAKEV		
Post Mile	15.		15.76		
Date	10/0		10/04/16		
Occupancy Requirement	2		2		
	AM HOV	AM HOV	PM HOV	PM HOV	
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour	
Hink On surray su Valida	6:30 - 7:30	6:30-8:30	16:00 - 17:00	16:00-18:00	
High Occupancy Vehicle	<u> </u>		055	1000	
Carpools (Vehicles with 2-5 occupants only)	1012	1913	955	1668	
Vanpools	4	8	58	68	
Buses	13	24	3	7	
Motorcycles (MC's)	55 450	118	65	125	
Single Occupant Vehicles	152	276	150	272	
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	25 49	67 128	36 56	56 100	
Green Decal Vehicles (Plug-in Hybrids)					
Total Vehicles in HOV Lane	1310	2534	1323	2296	
2 person carpool volume in HOV lane (vehicles)	964	1807	872	1506	
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1016	1921	1013	1736	
3 person carpool volume in HOV lane (vehicles)	43	92	74	138	
3 or more (3+) person carpool volume in HOV Lane (veh.)*	52	114	141	230	
	People Summary	3		0.500	
People in Carpools (Vehicles with 2-5 occupants only)	2077	3949	2005	3528	
People in Vanpools	24	48	348	408	
People in Buses	450	770	80	210	
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	281	589	307	553	
Total HOV Lane People	2832	5356	2740	4699	
General Purpose			I 3	•	
Number of General Purpose Lanes General Purpose Lane Vehicles**	4388 4388	8499	3833	7615	
General Purpose Vehicles per Lane**	1463	2833	1278	2538	
General Purpose Lane People**	4496	8698	4163	8245	
General Purpose People per Lane**	1499	2899	1388	2748	
Freeway Summary					
		44000	E1E0	0011	
Total Freeway Vehicles	5698	11033	5156	9911	
Total Freeway People	7328	14054	6903	12944	
Percent of Total Freeway Vehicles in HOV Lane	22.99%	22.97%	25.66%	23.17%	
Percent of Total Freeway Vehicles per General Purpose Lane	25.67%	25.68%	24.78%	25.61%	
Percent of Total Freeway People in HOV Lane	38.64%	38.11%	39.70%	36.30%	
Percent of Total Freeway People per General Purpose Lane	20.45%	20.63%	20.10%	21.23%	
GP Lane Ca	rpool Summary	t			
2+ Carpool volume in GP Lanes (vehicles)*	101	180	289	544	
2+ Percent Carpools in GP Lanes	2.31%	2.12%	7.53%	7.14%	
3+ Carpool Volume in GP Lanes (vehicles)*	8	19	26	64	
3+ Percent Carpools in GP Lanes	0.17%	0.22%	0.68%	0.84%	
Average	e Occupancy				
HOV Lane Average Occupancy (people)	2.16	2.11	2.07	2.05	
General Purpose Lane Average Occupancy (people)	1.02	1.02	1.09	1.08	
HOV Lane Violation					
HOV Lane Violation (percentage)	11.60%	10.89%	11.34%	11.85%	
	ımber of GP Lane		·		
Equivalent number of GP Lanes needed to carry HOV people	1.89	1.85	1.97	1.71	
. ,					

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

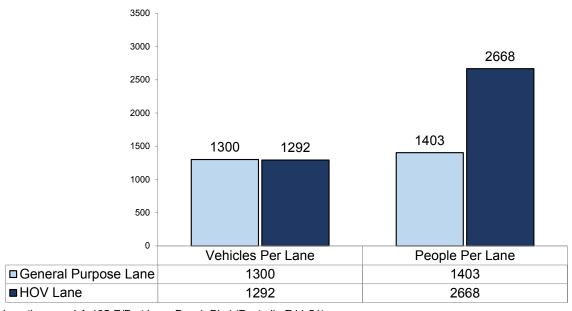
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-105-W/B at Long Beach Blvd (Postmile R11.51)

Date/Time: 9-29-2016 / 6:30 AM - 7:30 AM



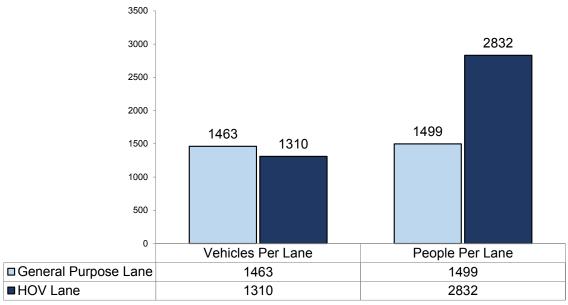
Location: LA-105-E/B at Long Beach Blvd (Postmile R11.51)

Date/Time: 9-29-2016 / 3:45 PM - 4:45 PM

 $^{^{\}star}$ 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.

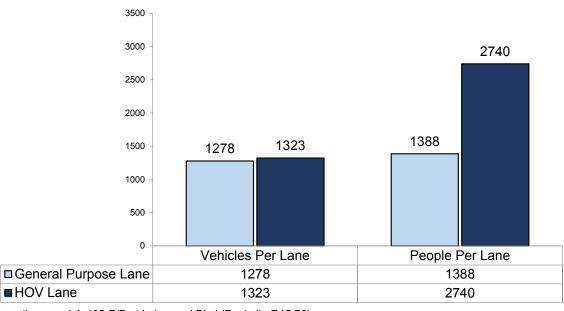
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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



Location: LA-105-W/B at Lakewood Blvd (Postmile R15.76)

Date/Time: 10-4-2016 / 6:30 AM - 7:30 AM



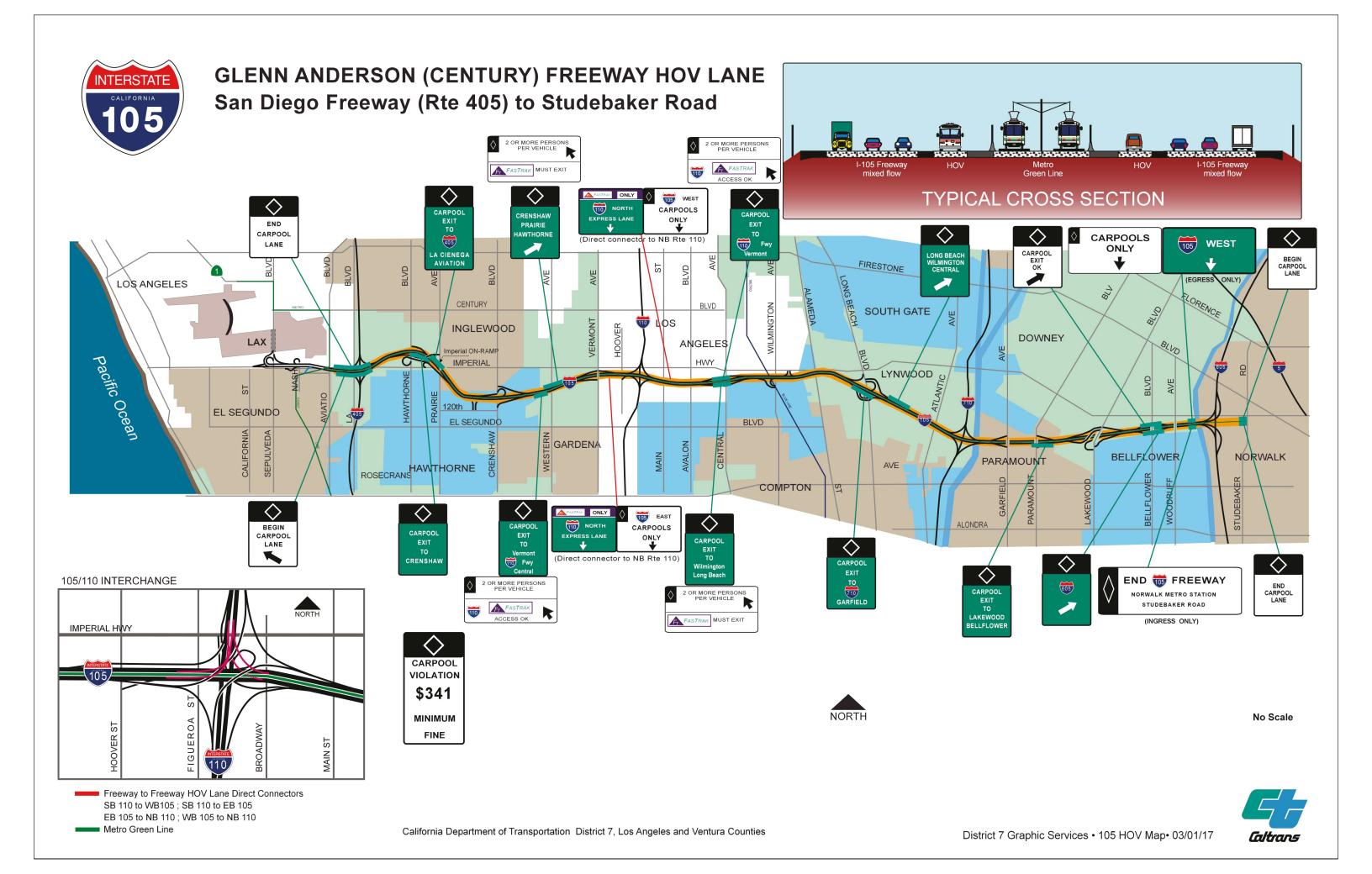
Location: LA-105-E/B at Lakewood Blvd (Postmile R15.76)

Date/Time: 10-4-2016 / 4:00 PM - 5:00 PM

 $^{^{\}star}$ 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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.





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
Flower St / 28th St to Harbor Gateway Transit Center
20.249 / 10.57
19.7 lane-miles (Northbound)
19.6 lane-miles (Southbound)
20.249 / 10.57
38.7 lane-miles (Total)

Project Limits: Date of Opening:

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

1-Hour Express Lane Volume:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Slauson Ave Slauson Ave	17.98 17.98	Northbound Southbound			3065* vehicles 3656* 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	<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	l Wilmington
Carson	110	6.8	Route 110 at Carson St	Los Angeles
Artesia	110	9.8	Route 110 at Route 91, 182nd 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>	Number of I/E	<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.
 - o 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:

- Direct Express Lane access at 182nd Street / Harbor Gateway Transit Center (Entrance from 182nd Street / Harbor Gateway Transit Center to northbound Route 110 Express Lanes; Exit from southbound Route 110 Express Lanes to 182nd Street / Harbor Gateway Transit Center).
- Direct Express Lane access at Flower Street / 28th Street (Entrance from Flower Street / 28th Street to southbound Route 110 Express Lanes).
- Direct Express Lane access at Adams Boulevard (Exit from northbound Route 110 Express Lanes to Adams Boulevard).
- Facility converted to Express Lane operation. Tolling began November 10, 2012.

CALTRANS - DISTRICT 7

Express Lane Operation on Route 110 Co. Rte. Dir. 110 110 SB LA LA Location **SLAUSON** SI AUSON Post Mile 17.98 17.98 Date 10/19/16 10/19/16 Toll Free Occupancy Requirement 2 + 2 AM Express AM Express PM Express PM Express Peak 1-Hour Peak 2-Hour Peak 1-Hour Peak 2-Hour 6:30-8:30 16:30 - 17:30 16:00-18:00 6:30 - 7:30 **Express Lane Vehicle Summary** Carpools (Vehicles with 2-5 occupants only) 925 1722 751 1365 Vanpools 10 17 13 21 Buses 29 38 64 62 Motorcycles (MC's) 103 122 49 61 Single Occupant Vehicles 4071 4992 2108 2532 White Decal Vehicles (Electric Veh. & Compressed Natural Gas) 42 89 43 75 Green Decal Vehicles (Plug-in Hybrids) 76 160 44 88 Total Vehicles in Express Lane 3065 5867 3656 7084 2 person carpool volume in Express lane (vehicles) 645 1202 794 1501 2 or more (2+) person carpool volume in Express Lane (veh.)* 761 1382 938 1743 3 person carpool volume in Express lane (vehicles) 85 128 107 183 3 or more (3+) person carpool volume in Express Lane (veh.) 116 180 144 242 **Express Lane People Summary** People in Carpools (Vehicles with 2-5 occupants only) 3711 1635 2936 2009 People in Vanpools 60 102 78 126 People in Buses 2460 1004 2100 1275 People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's 2275 4423 2680 5277 4974 9561 6042 11574 Total Express Lane People General Purpose (GP) Lane Summary† Number of General Purpose Lanes 4 7480 General Purpose Lane Vehicles** 3881 6374 12601 General Purpose Vehicles per Lane** 970 1870 1593 3150 General Purpose Lane People* 4511 8610 7644 15208 General Purpose People per Lane* 1128 2153 1911 3802 Freeway Summary Total Freeway Vehicles 6946 13347 10030 19685 9485 26782 Total Freeway People 18171 13686 Percent of Total Freeway Vehicles in Express Lane 44.12% 43.96% 36.45% 35.99% Percent of Total Freeway Vehicles per General Purpose Lane 13.97% 14.01% 15.89% 16.00% Percent of Total Freeway People in Express Lane 52.44% 52.62% 44.15% 43.22% Percent of Total Freeway People per General Purpose Lane 11.89% 11.85% 13.96% 14.20% **GP Lane Carpool Summary**† 2+ Carpool volume in GP Lanes (vehicles)* 540 970 951 2093 2+ Percent Carpools in GP Lanes 13.91% 12.97% 14.92% 16.61% 3+ Carpool Volume in GP Lanes (vehicles)* 135 181 328 75 3+ Percent Carpools in GP Lanes 1.93% 1.80% 2.84% 2.60% Average Occupancy Express Lane Average Occupancy (people) 1.63 1.65 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.

Equivalent Number of GP Lanes

1.16

4.41

1.15

4.44

1.20

3.16

1.21

3.04

General Purpose Lane Average Occupancy (people)

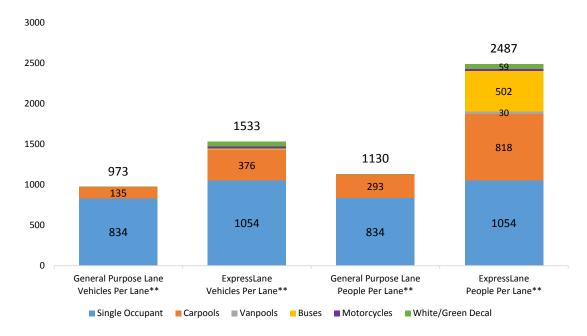
Equivalent number of GP Lanes needed to carry Express lane people

Note: Two (2) Express lanes at this count location (each direction). Express lane data shown is for 2 lanes.

[†]The peak hour of the general purpose lane may vary from the peak hour of the Express lane.

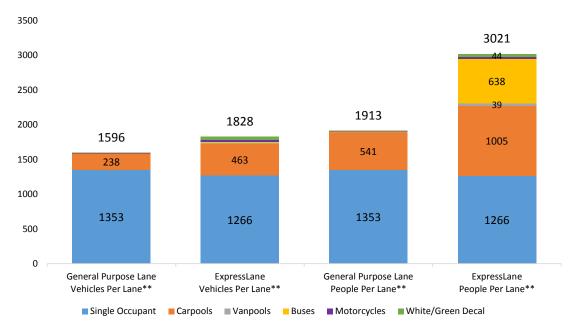
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-110-N/B at Slauson Ave (Postmile 17.98)

Date/Time: 10-19-2016 / 6:30 AM - 7:30 AM



Location: LA-110-S/B at Slauson Ave (Postmile 17.98)

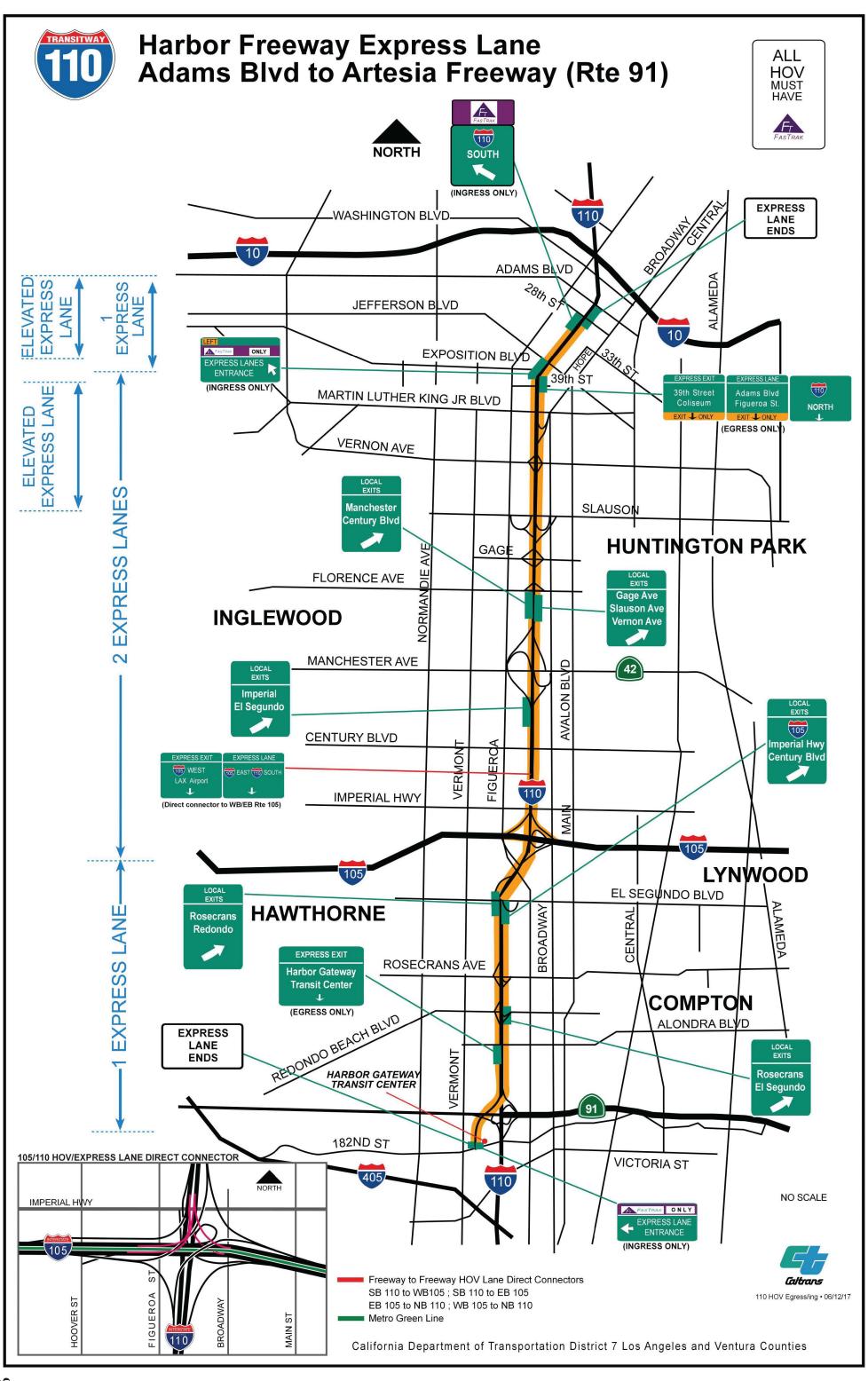
Date/Time: 10-19-2016 / 4:30 PM - 5:30 PM

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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant veh.

 $^{^{\}star}$ 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.





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 Golden State Freeway (Route 5) to 0.3 mi west of Rocky Peak Rd R10.82 / R0.00 (LA Co)

Project Limits: Date of Opening:

0.1 miles east of Ventura County Line to Rte 5 (Eastbound)

March 1997

Rte 5 to 0.3 miles west of Rocky Peak Rd (Westbound)

March 1997

1-Hour HOV Lane Volume:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Porter Ranch Dr	R3.86	Westbound	12/8/2016	6:30 – 7:30 A.M.	814 vehicles
Porter Ranch Dr	R3.86	Eastbound	12/8/2016	4:30 - 5:30 P.M.	1316 vehicles
Reseda Blvd	R5.81	Westbound	10/27/2016	7:00 – 8:00 A.M.	1452 vehicles
Reseda Blvd	R5.81	Eastbound	10/27/2016	4:45 – 5:45 P.M.	1579 vehicles

Park and Ride Lots:

Lot Name	Route	Postmile (CA)	Lot Address	<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>	Number of I/E	<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 11		LA 11	18 EB
Location	PORTER	RANCH	PORTER RANCH	
Post Mile	3.8	36	3.86	
Date	12/0	8/16	12/08/16	
Occupancy Requirement		+	2	
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	6:30 - 7:30	6:30-8:30	16:30 - 17:30	16:00-18:00
High Occupancy Vehicle				
Carpools (Vehicles with 2-5 occupants only)	785	1472	1250	2424
Vanpools	0	1	13	22
Buses	0	0	3	4
Motorcycles (MC's)	8	22	17	25
Single Occupant Vehicles	2	4	7	12
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	2	8	11	26
Green Decal Vehicles (Plug-in Hybrids)	17	44	15	35
Total Vehicles in HOV Lane	814	1551	1316	2548
2 person carpool volume in HOV lane (vehicles)	720	1361	1150	2236
2 or more (2+) person carpool volume in HOV Lane (veh.)*	785	1473	1263	2446
3 person carpool volume in HOV lane (vehicles)	62	104	95	177
3 or more (3+) person carpool volume in HOV Lane (veh.)*	65	112	113	210
	People Summary	1		
People in Carpools (Vehicles with 2-5 occupants only)	1638	3062	2606	5049
People in Vanpools	0	6	78	132
People in Buses	0	0	50	70
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	29	78	50	98
Total HOV Lane People	1667	3146	2784	5349
General Purpose	(GP) Lane Sum	mary†		
Number of General Purpose Lanes	4		4	
General Purpose Lane Vehicles**	6099	11660	4940	9351
General Purpose Vehicles per Lane**	1525	2915	1235	2338
General Purpose Lane People**	6860	12923	5401	10211
General Purpose People per Lane**	1715	3231	1350	2553
Freewa	y Summary			
Total Freeway Vehicles	6913	13211	6256	11899
Total Freeway People	8527	16069	8185	15560
Percent of Total Freeway Vehicles in HOV Lane	11.78%	11.74%	21.04%	21.41%
Percent of Total Freeway Vehicles per General Purpose Lane	22.06%	22.06%	19.74%	19.65%
Percent of Total Freeway People in HOV Lane	19.55%	19.58%	34.01%	34.38%
Percent of Total Freeway People per General Purpose Lane	20.11%	20.11%	16.50%	16.41%
	rpool Summary		10.0070	10.1170
2+ Carpool volume in GP Lanes (vehicles)*	551	993	351	661
2+ Percent Carpools in GP Lanes	9.04%	8.51%	7.11%	7.07%
3+ Carpool Volume in GP Lanes (vehicles)*	9.04%	78	31	7.07%
3+ Percent Carpools in GP Lanes	0.76%	0.66%	0.63%	0.71%
	e Occupancy	0.00%	0.03%	U.1 170
HOV Lane Average Occupancy (people)		2.02	2.42	2.10
General Purpose Lane Average Occupancy (people)	2.05 1.12	2.03 1.11	2.12 1.09	2.10 1.09
	ane Violation	1.11	1.08	1.05
		0.200/	0.520/	0.470/
HOV Lane Violation (percentage)	0.25%	0.26%	0.53%	0.47%
	imber of GP Lane		0.00	0.40
Equivalent number of GP Lanes needed to carry HOV people	0.97	0.97	2.06	2.10

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

^{*} Carpools and vanpools only.

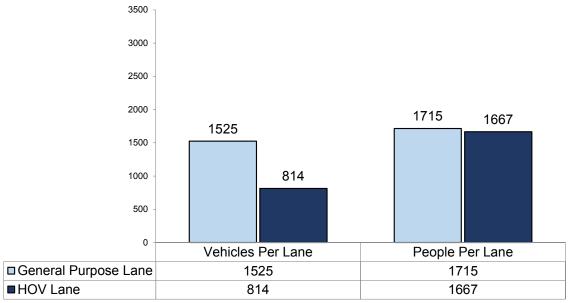
^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.

Co. Rte. Dir.	LA 11		LA 11	8 EB
Location	RES		RESEDA	
Post Mile	5.8		5.81 10/27/16	
Date	10/2			
Occupancy Requirement	AM HOV	+ AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	7:00 - 8:00	6:30-8:30	16:45 - 17:45	16:00-18:00
High Occupancy Vehicle			10.40	10.00 10.00
Carpools (Vehicles with 2-5 occupants only)	1370	2551	1478	2825
Vanpools	7	11	16	27
Buses	3	4	3	3
Motorcycles (MC's)	23	41	30	53
	2	3	11	20
Single Occupant Vehicles	11	17	17	20 29
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	36		24	
Green Decal Vehicles (Plug-in Hybrids)		60		50
Total Vehicles in HOV Lane	1452	2687	1579	3007
2 person carpool volume in HOV lane (vehicles)	1275	2366	1357	2602
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1377	2562	1494	2852
3 person carpool volume in HOV lane (vehicles)	90	174	109	205
3 or more (3+) person carpool volume in HOV Lane (veh.)*	102	196	137	250
	People Summary			
People in Carpools (Vehicles with 2-5 occupants only)	2840	5298	3091	5893
People in Vanpools	42	66	96	162
People in Buses	12	10	51	70
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	72	121	82	152
Total HOV Lane People	2966	5495	3320	6277
General Purpose	` '			
Number of General Purpose Lanes	5		4	
General Purpose Lane Vehicles**	9056	17401	6589	13071
General Purpose Vehicles per Lane**	1811	3480	1647	3268
General Purpose Lane People**	10088	19141	7219	14400
General Purpose People per Lane**	2018	3828	1805	3600
Freewa	y Summary			
Total Freeway Vehicles	10508	20088	8168	16078
Total Freeway People	13054	24636	10539	20677
Percent of Total Freeway Vehicles in HOV Lane	13.82%	13.38%	19.33%	18.70%
Percent of Total Freeway Vehicles per General Purpose Lane	17.24%	17.32%	20.17%	20.32%
Percent of Total Freeway People in HOV Lane	22.72%	22.30%	31.50%	30.36%
Percent of Total Freeway People per General Purpose Lane	15.46%	15.54%	17.12%	17.41%
	rpool Summary		11.12/0	17.71/0
2+ Carpool volume in GP Lanes (vehicles)*	944		624	1164
2+ Carpool volume in GP Lanes (venicles) 2+ Percent Carpools in GP Lanes		1588 9.12%	621 9.43%	1164
2+ Percent Carpools in GP Lanes 3+ Carpool Volume in GP Lanes (vehicles)*	10.43% 62	106	9.43%	8.90% 109
3+ Percent Carpools in GP Lanes	0.69%	0.61%	0.57%	0.83%
		0.0170	0.57 70	0.03%
9	e Occupancy	2.05	0.40	2.00
HOV Lane Average Occupancy (people) General Purpose Lane Average Occupancy (people)	2.04 1.11	2.05 1.10	2.10 1.10	2.09 1.10
		1.10	1.10	1.10
	ane Violation	0.440/	0.700/	0.070/
HOV Lane Violation (percentage)	0.14%	0.11%	0.70%	0.67%
•	ımber of GP Lane		101	4
Equivalent number of GP Lanes needed to carry HOV people	1.47	1.44	1.84	1.74

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

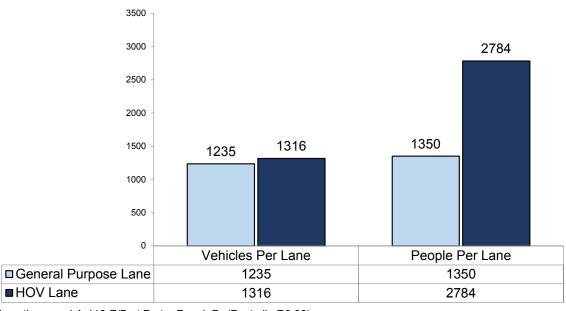
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-118-W/B at Porter Ranch Dr (Postmile R3.86)

Date/Time: 12-8-2016 / 6:30 AM - 7:30 AM



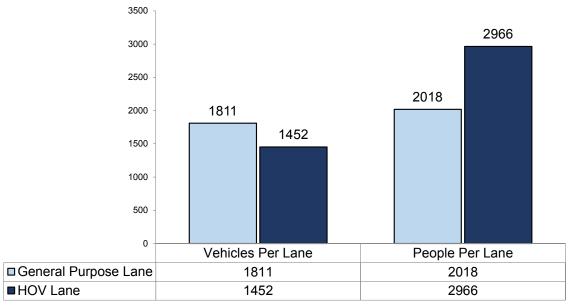
Location: LA-118-E/B at Porter Ranch Dr (Postmile R3.86)

Date/Time: 12-8-2016 / 4:30 PM - 5:30 PM

 $^{^{\}star}$ 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.

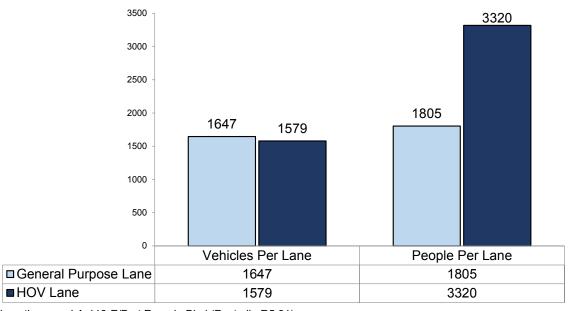
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

Note 2: Volume includes carpools, vanpools, buses, motorcycles, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant veh.



Location: LA-118-W/B at Reseda Bvd (Postmile R5.81)

Date/Time: 10-27-2016 / 7:00 AM - 8:00 AM



Location: LA-118-E/B at Reseda Blvd (Postmile R5.81) Date/Time: 10-27-2016 / 4:45 PM - 5:45 PM

 $^{^{\}star}$ 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.

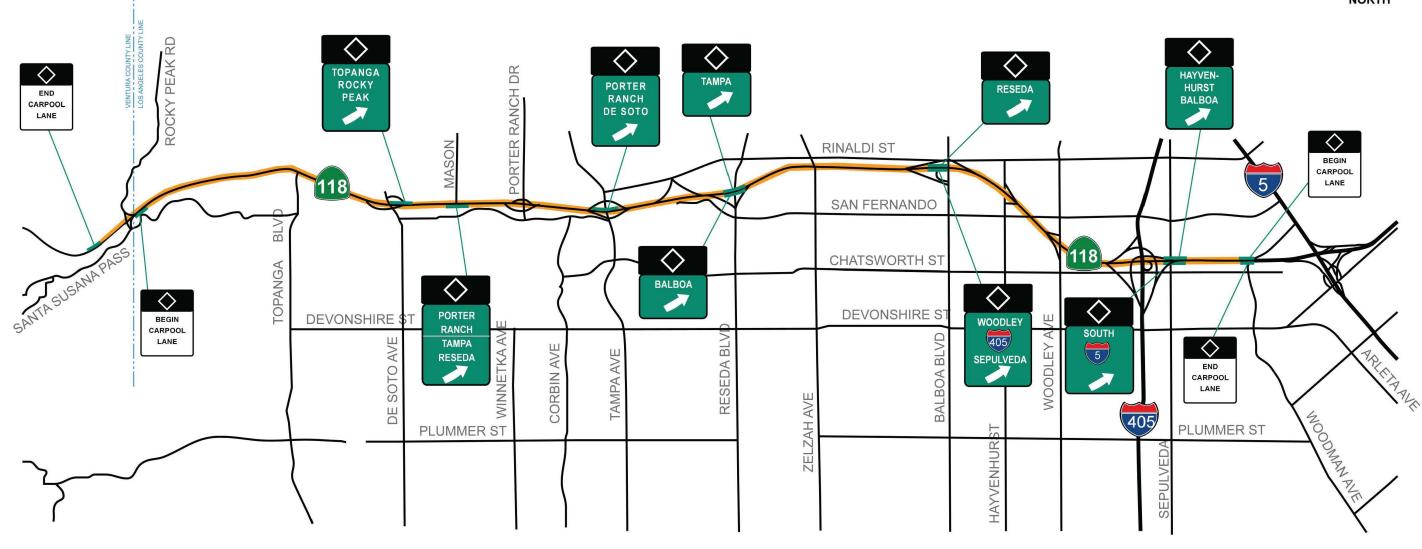
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

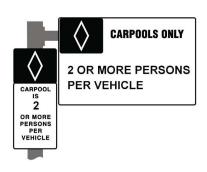
Note 2: Volume includes carpools, vanpools, buses, motorcycles, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant veh.

118

RONALD REAGAN FREEWAY HOV LANE Ventura County Line to Golden State Freeway (Rte 5)







CARPOOL VIOLATION \$341 MINIMUM FINE



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



FACT SHEET

ROUTE 134 VENTURA FREEWAY

Description

Hollywood Fwy (Rte 170/101) to Golden State Fwy (Rte 5) Golden State Fwy (Rte 5) to Foothill Freeway (Route 210) Foothill Freeway (Route 210) to Golden State Fwy (Rte 5) Golden State Fwy (Rte 5) to 0.1 mi west of Cahuenga Blvd

Postmile (CA) (begin/end) Length

Date of Opening:

October 1995

March 1996

August 1996

0.225 / R5.26R R5.70 / R13.341 R13.341 / R6.15 4.89 / 0.72 5.0 lane-miles (Eastbound))
7.6 lane-miles (Eastbound))
7.2 lane-miles (Westbound))
4.2 lane-miles (Westbound)
24.0 lane-miles (Total)

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)

1-Hour HOV Lane Volume:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Pass Ave	1.82	Westbound	11/15/2016	6:30 – 7:30 A.M.	969 vehicles
Pass Ave	1.82	Westbound	11/15/2016	5:00 - 6:00 P.M.	1206 vehicles
Jackson St	R7.41	Westbound	11/2/2016	7:30 - 8:30 A.M.	1263 vehicles
Jackson St	R7.41	Eastbound	11/2/2016	3:45 - 4:45 P.M.	1171 vehicles

Park and Ride Lots:

Lot Name	Route	Postmile (CA)	<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>	Number of I/E	<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 13	4 WB	LA 13	34 WB
Location	PA	SS	PASS	
Post Mile	1.8	32	1.82	
Date	11/1		11/15/16	
Occupancy Requirement		+	2	
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	6:30 - 7:30	6:30-8:30	17:00 - 18:00	16:00-18:00
High Occupancy Vehicle			1000	00.17
Carpools (Vehicles with 2-5 occupants only)	832	1395	1062	2017
Vanpools	5	6	0	2
Buses	0	1	5	7
Motorcycles (MC's)	28	45	19	36
Single Occupant Vehicles	41	63	20	43
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	26 27	39	49 51	78 105
Green Decal Vehicles (Plug-in Hybrids)	37	66	51	105
Total Vehicles in HOV Lane	969	1615	1206	2288
2 person carpool volume in HOV lane (vehicles)	776	1306	980	1871
2 or more (2+) person carpool volume in HOV Lane (veh.)*	837	1401	1062	2019
3 person carpool volume in HOV lane (vehicles)	53	84	78	137
3 or more (3+) person carpool volume in HOV Lane (veh.)*	61	95	82	148
	People Summary			1100
People in Carpools (Vehicles with 2-5 occupants only)	1723	2884	2210	4189
People in Vanpools	30	36	0	12
People in Buses	0	0	180	260
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	132	213 3133	139	262
Total HOV Lane People	1885		2529	4723
General Purpose				
Number of General Purpose Lanes	4000		5440	
General Purpose Lane Vehicles**	4800	8781	5449	10495
General Purpose Vehicles per Lane**	1200	2195	1362	2624
General Purpose Lane People** General Purpose People per Lane**	5300 1325	9496	5885	11296
· · · · ·		2374	1471	2824
	y Summary			
Total Freeway Vehicles	5769	10396	6655	12783
Total Freeway People	7185	12629	8414	16019
Percent of Total Freeway Vehicles in HOV Lane	16.80%	15.53%	18.12%	17.90%
Percent of Total Freeway Vehicles per General Purpose Lane	20.80%	21.12%	20.47%	20.53%
Percent of Total Freeway People in HOV Lane	26.24%	24.81%	30.06%	29.48%
Percent of Total Freeway People per General Purpose Lane	18.44%	18.80%	17.49%	17.63%
GP Lane Ca	rpool Summary	†		
2+ Carpool volume in GP Lanes (vehicles)*	460	655	395	735
2+ Percent Carpools in GP Lanes	9.58%	7.46%	7.25%	7.00%
3+ Carpool Volume in GP Lanes (vehicles)*	35	50	30	50
3+ Percent Carpools in GP Lanes	0.73%	0.57%	0.55%	0.48%
Average	e Occupancy			
HOV Lane Average Occupancy (people)	1.95	1.94	2.10	2.06
General Purpose Lane Average Occupancy (people)	1.10	1.08	1.08	1.08
HOV La	ane Violation			
HOV Lane Violation (percentage)	4.23%	3.90%	1.66%	1.88%
" " " " " " " " " " " " " " " " " " " "	mber of GP Lane		-	
Equivalent number of GP Lanes needed to carry HOV people	1.42	1.32	1.72	1.67
, Park .				

[†]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/Plug-in Hybrids and trucks.

CALTRANS - DISTRICT 7

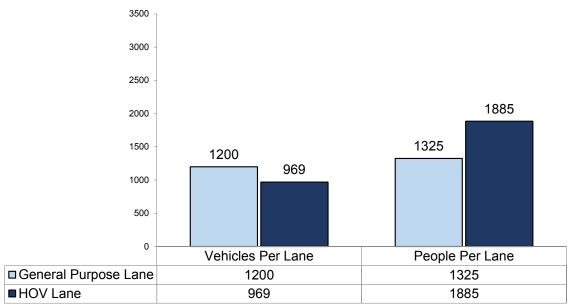
HOV Lane Operation on Route 134

Co. Rte. Dir.	LA 13	4 WB	LA 13	B4 EB
Location	JACK		JACKSON	
Post Mile	7.4		7.41	
Date	11/0		11/02/16	
Occupancy Requirement		+	2	
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	7:30 - 8:30	6:30-8:30	15:45 - 16:45	16:00-18:00
High Occupancy Vehicle	(HOV) Lane Veh	icle Summary		
Carpools (Vehicles with 2-5 occupants only)	1051	1931	972	1769
Vanpools	13	28	7	32
Buses	3	3	5	4
Motorcycles (MC's)	23	58	29	53
Single Occupant Vehicles	7	11	94	144
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	80	126	35	86
Green Decal Vehicles (Plug-in Hybrids)	86	140	29	80
Total Vehicles in HOV Lane	1263	2297	1171	2168
2 person carpool volume in HOV lane (vehicles)	959	1765	892	1638
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1064	1959	979	1801
3 person carpool volume in HOV lane (vehicles)	85	155	65	108
3 or more (3+) person carpool volume in HOV Lane (veh.)*	105	194	87	163
HOV Lane F	eople Summary			
People in Carpools (Vehicles with 2-5 occupants only)	2203	4041	2046	3702
People in Vanpools	78	168	42	192
People in Buses	70	70	110	100
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	196	335	187	363
Total HOV Lane People	2547	4614	2385	4357
General Purpose	(GP) Lane Sum	mary†		
Number of General Purpose Lanes	4		4	1
General Purpose Lane Vehicles**	7800	15241	6841	13619
General Purpose Vehicles per Lane**	1950	3810	1710	3405
General Purpose Lane People**	8384	16334	7548	15035
General Purpose People per Lane**	2096	4083	1887	3759
Freewa	y Summary			
Total Freeway Vehicles	9063	17538	8012	15787
Total Freeway People	10931	20948	9933	19392
Percent of Total Freeway Vehicles in HOV Lane	13.94%	13.10%	14.62%	13.73%
Percent of Total Freeway Vehicles per General Purpose Lane	21.52%	21.73%	21.35%	21.57%
Percent of Total Freeway People in HOV Lane	23.30%	22.03%	24.01%	22.47%
Percent of Total Freeway People in 110 Lane Percent of Total Freeway People per General Purpose Lane	19.17%	19.49%	19.00%	19.38%
	rpool Summary		19.00 /0	19.50 /0
	•		400	1011
2+ Carpool volume in GP Lanes (vehicles)*	480	913	490	1044
2+ Percent Carpools in GP Lanes	6.15%	5.99%	7.16%	7.66%
3+ Carpool Volume in GP Lanes (vehicles)*	35 0.45%	73	55 0.80%	99
3+ Percent Carpools in GP Lanes	e Occupancy	0.48%	0.0070	0.73%
HOV Lane Average Occupancy (people)	2.02	2.04	2.04	2.01
General Purpose Lane Average Occupancy (people)	1.07	2.01 1.07	2.04 1.10	2.01 1.10
	ane Violation	1.07	1.10	1.10
	0.55%	0.400/	0.000/	6.64%
HOV Lane Violation (percentage)		0.48%	8.03%	0.04%
	ımber of GP Lane		1.00	4.40
Equivalent number of GP Lanes needed to carry HOV people	1.22	1.13	1.26	1.16

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

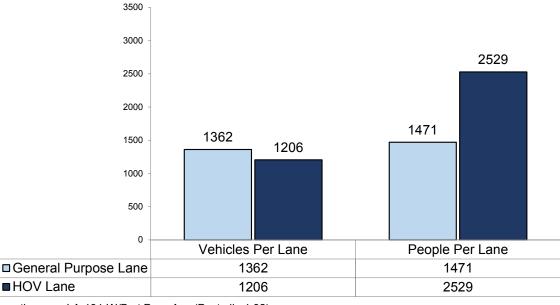
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-134-W/B at Pass Ave (Postmile 1.82)

Date/Time: 11-15-2016 / 6:30 AM - 7:30 AM



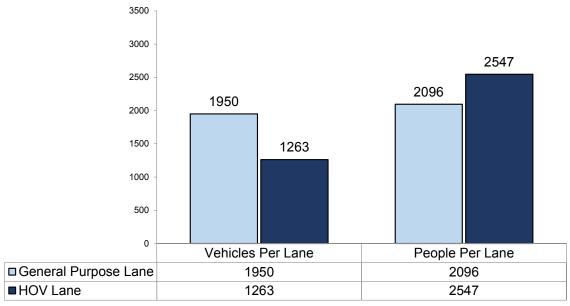
Location: LA-134-W/B at Pass Ave (Postmile 1.82)

Date/Time: 11-15-2016 / 5:00 PM - 6:00 PM

 $^{^{\}star}$ 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.

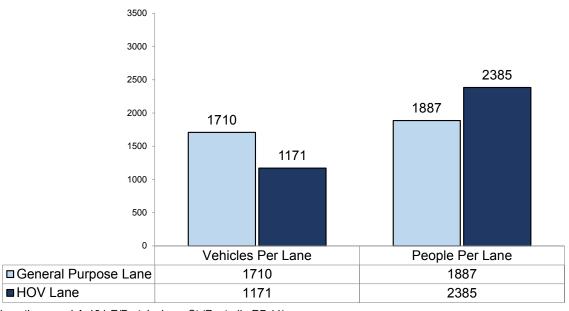
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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



Location: LA-134-W/B at Jackson St (Postmile R7.41)

Date/Time: 11-2-2016 / 7:30 AM - 8:30 AM



Location: LA-134-E/B at Jackson St (Postmile R7.41)

Date/Time: 11-2-2015 / 3:45 PM - 4:45 PM

 $^{^{\}star}$ 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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.

VENTURA FREEWAY HOV LANE Ventura Freeway (Rte 101) to Foothill Freeway (Rte 210) **CARPOOLS ONLY 2 OR MORE PERSONS** PER VEHICLE 2 OR MORE PERSONS PER VEHICLE CARPOOL BRAND CENTRAL PACIFIC **NORTH** BEGIN END 5 CARPOOL LANE BURBANK BLVD BURBANK **VAN NUYS GLENDALE** PASADENA NORTH HOLLYWOOD ORANGE GROVE **GLENDALE** BROADWAY STUDIO CITY 101 LOS ANGELES RIVER **EAGLE ROCK** COLORADO GIFFITH PA SHERMAN OAKS UNIVERSAL CITY HEVY CHASSE DR YOSEMITE \Diamond \Diamond BEGIN BEGIN END GLENDALE CARPOOL CARPOOL LAKE AVE HILL AVE FIGUEROA ST CARPOOL **VIOLATION** \$341 California Department of Transportation District 7, Los Angeles and Ventura Counties MINIMUM FINE District 7 Graphic Services • 134 HOVegres/ing • 03/02/17



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)
Golden State Fwy (Rte 5) to Ventura Fwy (Rte 101/134)
R20.22 / R14.50

R14.50 / R20.28
R20.22 / R14.50

S.9 lane-miles (Northbound)
11.9 lane-miles (Total)

Project Limits: Date of Opening:

Ventura Freeway (Rte 101/134) to Golden State Fwy (Rte 5) February 1996

1-Hour HOV Lane Volume:

Count Location Postmile (CA) Direction Date Time Volume Sherman Way R18.27 Southbound 10/13/2016 6:30 – 7:30 A.M. 1226 vehicles Sherman Way R18.27 Northbound 10/13/2016 4:30 – 5:30 P.M. 832 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):

DirectionNumber of I/ELocationNorthbound2See Hollywood Freeway HOV Lane map (attached)Southbound2See 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

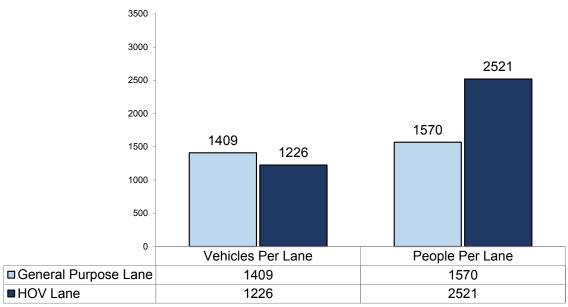
HOV Lane Operation on Route 170

Co. Rte. Dir.	LA 17			70 NB
Location	SHERMA		SHERMAN WAY	
Post Mile	18.		18.27	
Date	10/1	3/16	10/13/16	
Occupancy Requirement		+	2	
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
III I O Wallate	6:30 - 7:30	6:30-8:30	16:30 - 17:30	16:00-18:00
High Occupancy Vehicle			704	4070
Carpools (Vehicles with 2-5 occupants only)	1100	1949	721	1370
Vanpools	9	13	11	17
Buses	7	11	2	5
Motorcycles (MC's)	24	43	26	44
Single Occupant Vehicles	3 26	12 79	3 23	6
White Decal Vehicles (Electric Veh. & Compressed Natural Gas) Green Decal Vehicles (Plug-in Hybrids)	57	79 164	23 46	49 78
Total Vehicles in HOV Lane	1226	2271 1815	832	1569
2 person carpool volume in HOV lane (vehicles) 2 or more (2+) person carpool volume in HOV Lane (veh.)*	1028 1109	1962	661 732	1256 1387
3 person carpool volume in HOV lane (vehicles)	70	129	732 56	106
3 or more (3+) person carpool volume in HOV Lane (veh.)*	81	147	71	131
			7 1	131
People in Carpools (Vehicles with 2-5 occupants only)	People Summary		1506	2862
People in Carpools (venicles with 2-5 occupants only) People in Vanpools	2274	4037	1506 66	
People in Buses	54 83	78 100	40	102 70
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	110	298	98	70 177
Total HOV Lane People	2521	4513	1710	3211
General Purpose			1710	JZ 1 1
Number of General Purpose Lanes	(GF) Lane Sun	-	4	1
General Purpose Lane Vehicles**	5636	10484	5505	10545
General Purpose Vehicles per Lane**	1409	2621	1376	2636
General Purpose Lane People**	6281	11653	6494	12195
General Purpose People per Lane**	1570	2913	1623	3049
	y Summary			
Total Freeway Vehicles	6862	12755	6337	12114
·				
Total Freeway People	8802	16166	8204	15406
Percent of Total Freeway Vehicles in HOV Lane	17.87%	17.81%	13.13%	12.95%
Percent of Total Freeway Vehicles per General Purpose Lane	20.53%	20.55%	21.72%	21.76%
Percent of Total Freeway People in HOV Lane	28.64%	27.92%	20.84%	20.84%
Percent of Total Freeway People per General Purpose Lane	17.84%	18.02%	19.79%	19.79%
	rpool Summary			10==
2+ Carpool volume in GP Lanes (vehicles)*	556	971	834	1375
2+ Percent Carpools in GP Lanes	9.87%	9.26%	15.15%	13.04%
3+ Carpool Volume in GP Lanes (vehicles)*	61 1.09%	101	69	140
3+ Percent Carpools in GP Lanes		0.97%	1.25%	1.33%
<u> </u>	e Occupancy	4.00	0.00	0.05
HOV Lane Average Occupancy (people)	2.06	1.99	2.06	2.05
General Purpose Lane Average Occupancy (people)	1.11	1.11	1.18	1.16
	ane Violation	0.500/	0.000/	0.000/
HOV Lane Violation (percentage)	0.24%	0.53%	0.36%	0.38%
	imber of GP Lane		4.05	4.05
Equivalent number of GP Lanes needed to carry HOV people	1.61	1.55	1.05	1.05

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

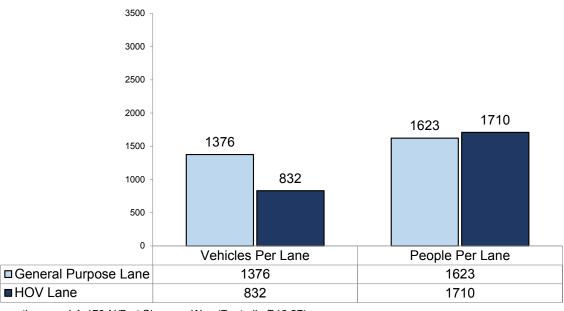
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-170-S/B at Sherman Way (Postmile R18.27)

Date/Time: 10-13-2016 / 6:30 AM - 7:30 AM



Location: LA-170-N/B at Sherman Way (Postmile R18.27)

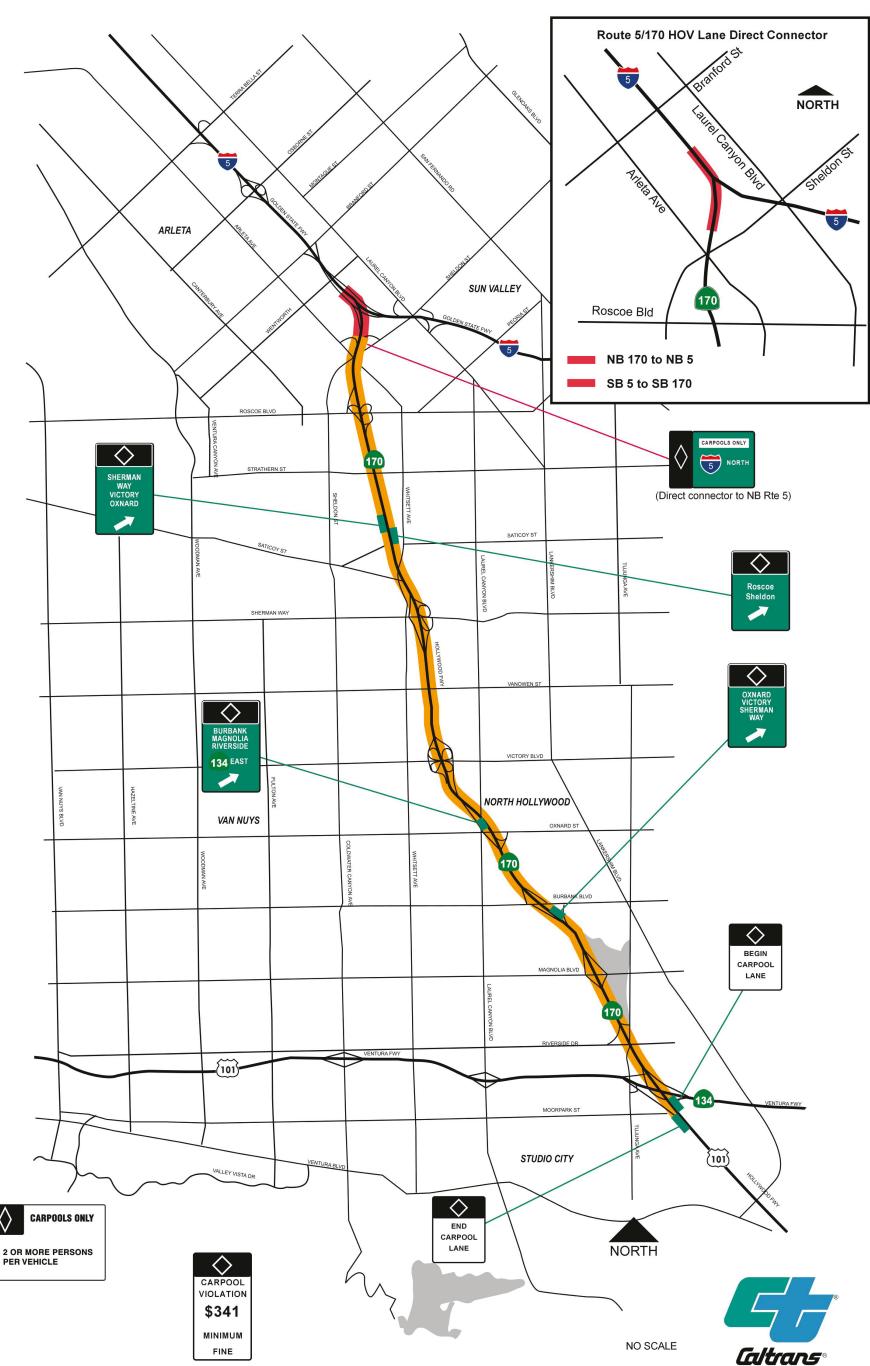
Date/Time: 10-13-2016 / 4:30 PM - 5:30 PM

 $^{^{\}star}$ 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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.

HOLLYWOOD FREEWAY HOV LANE Ventura Freeway (Rte 134) to Golden State Freeway (Rte 5)



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



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 R2 San Bernardino County Line to Ventura Freeway (Route 134)

R25.238 / R52.150 R52.150 / R25.238 27.4 lane-miles (Eastbound) 27.2 lane-miles (Westbound) 54.6 lane-miles (Total)

Project Limits: Date of Opening:

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 May 1996 December 1993 September 1997 November 2002

1-Hour HOV Lane Volume:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Wilson Ave	R26.57	Westbound	12/1/2016	7:00 – 8:00 A.M.	1252 vehicles
Wilson Ave	R26.57	Eastbound	12/1/2016	3:45 – 4:45 P.M.	1383 vehicles
Second St	R39.12	Westbound	10/12/2016	7:15 – 8:15 A.M.	1353 vehicles
Second St	R39.12	Eastbound	10/12/2016	4:15 – 5:15 P.M.	1551 vehicles

Park and Ride Lots:

Lot Name	Route	Postmile (CA)	Lot Address	<u>City</u>
Paxton	210	6.0	12501 Foothill Blvd at 210 & Paxton	Pacoima
Lowell Sierra Madre Blvd	210 210	16.1 29.4	Route 210 at 3930 Lowell Ave Sierra Madre Blvd at Route 210	Glendale Pasadena
Citrus College*	210	40.6	1000 Foothill Blvd	Glendora
Grand Ave Lone Hill	210 210	41.5 44.2	628 W Baseline Rd at Grand Ave Route 210 at Lone Hill Ave	Glendora Glendora
LONGTIM	210	TT. 4	Noute 2 To at Lone I IIII AVC	Ciciladia

^{*}privately owned lot

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

<u>Direction</u>	Number of I/E	<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 21	0 WB	LA 21	IO EB		
Location	WILSON		WILSON			
Post Mile	26.57		26.57			
Date	12/01/16		12/0	1/16		
Occupancy Requirement		2 +		+		
	AM HOV	AM HOV	PM HOV	PM HOV		
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour		
	7:00 - 8:00	6:30-8:30	15:45 - 16:45	16:00-18:00		
High Occupancy Vehicle						
Carpools (Vehicles with 2-5 occupants only)	1058	1937	1195	2205		
Vanpools	7	19	26	50		
Buses	2	2	5	11		
Motorcycles (MC's)	32	62	39	70		
Single Occupant Vehicles	56	83	65	93		
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	39	86	26	48		
Green Decal Vehicles (Plug-in Hybrids)	58	131	27	88		
Total Vehicles in HOV Lane	1252	2320	1383	2565		
2 person carpool volume in HOV lane (vehicles)	1006	1841	1122	2070		
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1065	1956	1221	2255		
3 person carpool volume in HOV lane (vehicles)	47	86	50	96		
3 or more (3+) person carpool volume in HOV Lane (veh.)*	59	115	99	185		
HOV Lane F	People Summary	/				
People in Carpools (Vehicles with 2-5 occupants only)	2176	3985	2495	4599		
People in Vanpools	42	114	156	300		
People in Buses	50	50	140	270		
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	185	362	157	299		
Total HOV Lane People	2453	4511	2948	5468		
General Purpose (GP) Lane Summary†						
Number of General Purpose Lanes	5	•	5			
General Purpose Lane Vehicles**	9104	17306	8798	16937		
General Purpose Vehicles per Lane**	1821	3461	1760	3387		
General Purpose Lane People**	10038	18946	9727	18836		
General Purpose People per Lane**	2008	3789	1945	3767		
Freewa	y Summary					
Total Freeway Vehicles	10356	19626	10181	19502		
Total Freeway People	12491	23457	12675	24304		
Percent of Total Freeway Vehicles in HOV Lane	12.09%	11.82%	13.58%	13.15%		
Percent of Total Freeway Vehicles per General Purpose Lane	17.58%	17.64%	17.28%	17.37%		
Percent of Total Freeway People in HOV Lane	19.64%	19.23%	23.26%	22.50%		
Percent of Total Freeway People per General Purpose Lane	16.07%	16.15%	15.35%	15.50%		
	rpool Summary		10.0070			
2+ Carpool volume in GP Lanes (vehicles)*	764	1360	800	1654		
2+ Percent Carpools in GP Lanes	8.40%	7.86%	9.10%	9.76%		
3+ Carpool Volume in GP Lanes (vehicles)*	92	142	74	124		
3+ Percent Carpools in GP Lanes	1.01%	0.82%	0.85%	0.73%		
	e Occupancy	0.0270	0.0070	0.1070		
HOV Lane Average Occupancy (people)	1.96	1.94	2.13	2.13		
General Purpose Lane Average Occupancy (people)	1.10	1.09	1.11	1.11		
	ane Violation	1.00	1.11	1.11		
HOV Lane Violation (percentage)	4.47%	3.58%	4.70%	3.63%		
" ",	umber of GP Lane		1 .1∪/0	J.UJ /0		
·			1 50	1 15		
Equivalent number of GP Lanes needed to carry HOV people	1.22	1.19	1.52	1.45		

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

^{*} Carpools and vanpools only.

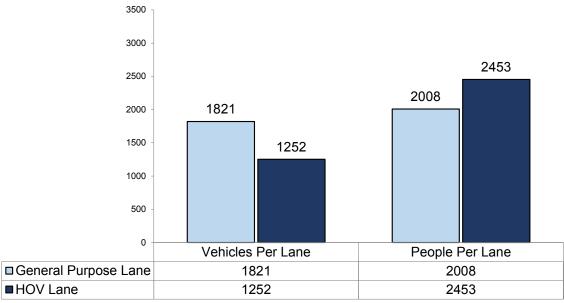
^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.

	Operation on R			
Co. Rte. Dir.	LA 210 WB LA 210			
Location	2ND ST.		2ND ST.	
Post Mile	39.12		39.	
Date		10/12/16		2/16
Occupancy Requirement	2		2	
	AM HOV	AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
Hink On surray su Valida	7:15 - 8:15	6:30-8:30	16:15 - 17:15	16:00-18:00
High Occupancy Vehicle	<u> </u>		1204	0520
Carpools (Vehicles with 2-5 occupants only)	1101	2104	1301	2530
Vanpools	12	25	52	73
Buses	3	6	0	3
Motorcycles (MC's)	58	122	79	149
Single Occupant Vehicles	4	6	6	10
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	59 116	106	33 80	64
Green Decal Vehicles (Plug-in Hybrids)		189		159
Total Vehicles in HOV Lane	1353	2558	1551	2988
2 person carpool volume in HOV lane (vehicles)	1017	1944	1199	2335
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1113	2129	1353	2603
3 person carpool volume in HOV lane (vehicles)	78	149	90	174
3 or more (3+) person carpool volume in HOV Lane (veh.)*	96	185	154	268
	People Summary		0747	5070
People in Carpools (Vehicles with 2-5 occupants only)	2292	4379	2717	5279
People in Vanpools	72	150	312	438
People in Buses	120	160	0	70
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	237 2721	423	198	382
Total HOV Lane People		5112	3227	6169
General Purpose Number of General Purpose Lanes	(GP) Lane Sum			
General Purpose Lane Vehicles**	6115	11700	5293	10570
General Purpose Vehicles per Lane**	1529	2925	1323	2643
General Purpose Lane People**	6556	12646	5816	11415
General Purpose People per Lane**	1639	3162	1454	2854
	y Summary	0102	1404	2004
Total Freeway Vehicles	7468	14258	6844	13558
·				
Total Freeway People	9277	17758	9043	17584
Percent of Total Freeway Vehicles in HOV Lane	18.12%	17.94%	22.66%	22.04%
Percent of Total Freeway Vehicles per General Purpose Lane	20.47%	20.51%	19.33%	19.49%
Percent of Total Freeway People in HOV Lane	29.33%	28.79%	35.68%	35.08%
Percent of Total Freeway People per General Purpose Lane	17.67%	17.80%	16.08%	16.23%
GP Lane Ca	rpool Summary	t		
2+ Carpool volume in GP Lanes (vehicles)*	415	826	451	715
2+ Percent Carpools in GP Lanes	6.79%	7.06%	8.53%	6.76%
3+ Carpool Volume in GP Lanes (vehicles)*	20	46	41	75
3+ Percent Carpools in GP Lanes	0.33%	0.40%	0.78%	0.71%
Average	e Occupancy			
HOV Lane Average Occupancy (people)	2.01	2.00	2.08	2.06
General Purpose Lane Average Occupancy (people)	1.07	1.08	1.10	1.08
HOV La	ane Violation			
HOV Lane Violation (percentage)	0.30%	0.23%	0.39%	0.33%
	ımber of GP Lane		·	
Equivalent number of GP Lanes needed to carry HOV people	1.66	1.62	2.22	2.16
. , , , , , , , , , , , , , , , , , , ,				

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

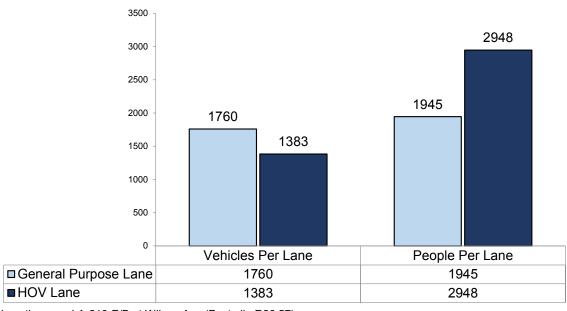
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-210-W/B at Wilson Ave (Postmile R26.57)

Date/Time: 12-1-2016 / 7:00 AM - 8:00 AM



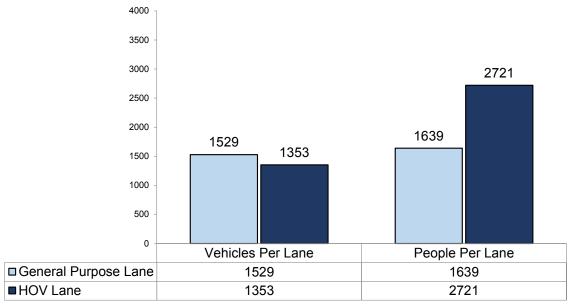
Location: LA-210-E/B at Wilson Ave (Postmile R26.57)

Date/Time: 12-1-2016 / 3:45 PM - 4:45 PM

 $^{^{\}star}$ 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.

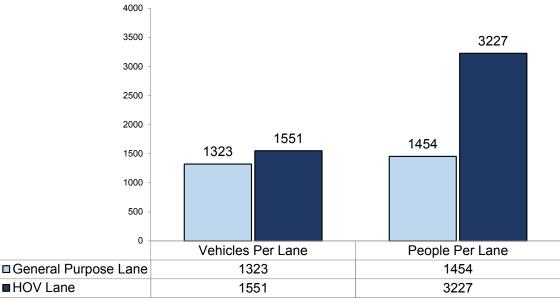
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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



Location: LA-210-W/B at Second St (Postmile R39.12)

Date/Time: 10-12-2016 / 7:15 AM - 8:15 AM



Location: LA-210-E/B at Second St (Postmile R39.12)

Date/Time: 10-12-2016 / 4:15 PM - 5:15 PM

 $^{^{\}star}$ 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.

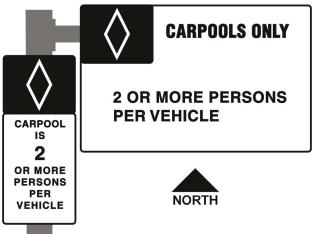
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

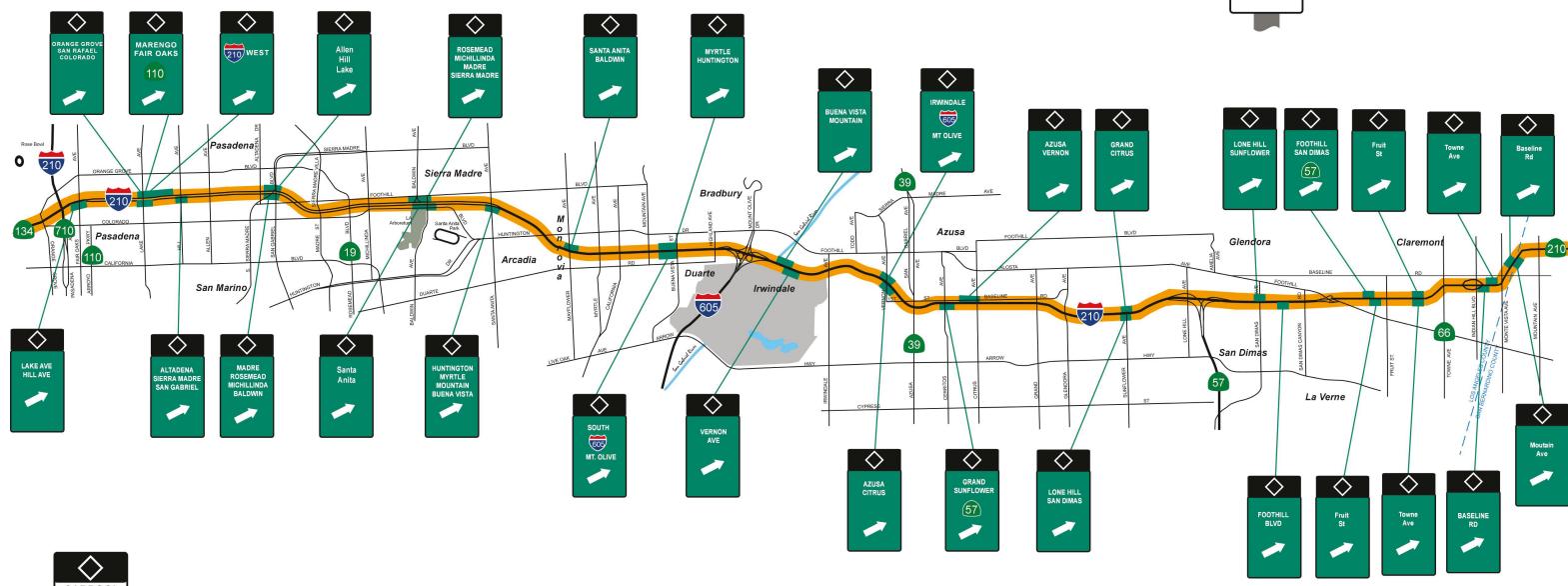
Note 2: Volume includes carpools, vanpools, buses, motorcycles, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.



FOOTHILL FREEWAY HOV LANE

Ventura Freeway (Rte 134) to San Bernardino County Line







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





FACT SHEET

ROUTE 405 SAN DIEGO FREEWAY

Description Postmile (CA) (begin/end) Length

Orange County Line to Golden State Freeway (Route 5) 0.00 / 48.585 48.4 lane-miles (Northbound) Golden State Freeway (Route 5) to Orange County Line 47.855 / 0.00 47.7 lane-miles (Southbound) 96.1 lane-miles (Total)

Project Limits:

Orange County Line to Long Beach Freeway (Route 710) Long Beach Freeway (Route 710) to Harbor Freeway (Route 110) Harbor Freeway (Route 110) to 120th St **April 1993** 120th St to Century Blvd Century Blvd to Marina Freeway (Route 90)

Marina Freeway (Route 90) to Santa Monica Freeway (Route 10)

Santa Monica Freeway (Route 10) to Santa Monica Blvd (Southbound)

Santa Monica Blvd to Waterford St (Southbound)

Waterford St to Ventura Freeway (Route 101) (Southbound)

Santa Monica Fwy (Rte 10) to Ventura Bl/Ventura Fwy (Rte 101) (Northbound)

Ventura Blvd/Ventura Freeway (Rte 101) to Burbank Blvd (Northbound)

Burbank Blvd to Golden State Freeway (Route 5) (Northbound)

Ventura Freeway (Route 101) to Golden State Freeway (Route 5) (Southbound) October 1996

Date of Opening:

February 1998 October 1998 January 1994 May 2006 November 2009 November 2009 August 2007 January 2012 May 2014 October 2006 October 1996

1-Hour HOV Lane Volume:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Temple Ave	4.33	Northbound	12/13/2016	6:30 – 7:30 A.M.	1651 vehicles
Temple Ave	4.33	Southbound	12/13/2016	5:00 - 6:00 P.M.	1555 vehicles
Normandie Ave	13.81	Northbound	12/14/2016	7:30 - 8:30 A.M.	1334 vehicles
Normandie Ave	13.81	Southbound	9/27/2016	3:30 - 4:30 P.M.	1272 vehicles
Skirball Center Dr	36.72	Southbound	12/15/2016	7:30 - 8:30 A.M.	1587 vehicles
Skirball Center Dr	36.72	Northbound	11/30/2016	3:30 - 4:30 P.M.	1523 vehicles
Burbank Blvd	40.28	Southbound	11/29/2016	6:30 - 7:30 A.M.	947 vehicles
Burbank Blvd	40.28	Northbound	11/29/2016	5:00 - 6:00 P.M.	1406 vehicles

Park and Ride Lots:

Route Postmile (CA) Lot Address City Lot Name

Skirball and Mulholland 405 Route 405 at 2350 Skirball Center Dr Los Angeles 36.7

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

<u>Direction</u>	Number of I/E	Location
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 40	5 NB	LA 40)5 SB	
Location	TEMPLE			TEMPLE	
Post Mile	4.33		4.3	33	
Date	12/13/16			3/16	
Occupancy Requirement	2 +		2		
	AM HOV	AM HOV	PM HOV	PM HOV	
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour	
	6:30 - 7:30	6:30-8:30	17:00 - 18:00	16:00-18:00	
High Occupancy Vehicle		icle Summary			
Carpools (Vehicles with 2-5 occupants only)	1216	2277	1214	2362	
Vanpools	9	22	41	74	
Buses	3	16	10	17	
Motorcycles (MC's)	35	84	53	95	
Single Occupant Vehicles	49	123	19	96	
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	118	253	68	142	
Green Decal Vehicles (Plug-in Hybrids)	221	469	150	271	
Total Vehicles in HOV Lane	1651	3244	1555	3057	
2 person carpool volume in HOV lane (vehicles)	1147	2128	1084	2149	
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1225	2299	1255	2436	
3 person carpool volume in HOV lane (vehicles)	54	124	124	193	
3 or more (3+) person carpool volume in HOV Lane (veh.)*	78	171	171	287	
	People Summary				
People in Carpools (Vehicles with 2-5 occupants only)	2520	4734	2566	4965	
People in Vanpools	54	132	246	444	
People in Buses	120	390	370	620	
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	423	929	290	604	
Total HOV Lane People	3117	6185	3472	6633	
General Purpose	<u> </u>				
Number of General Purpose Lanes	5				
General Purpose Lane Vehicles**	7679	14899	8543	16595	
General Purpose Vehicles per Lane**	1536	2980	1709	3319	
General Purpose Lane People**	8207	15961	9365	18071	
General Purpose People per Lane**	1641	3192	1873	3614	
	y Summary				
Total Freeway Vehicles	9330	18143	10098	19652	
Total Freeway People	11324	22146	12837	24704	
Percent of Total Freeway Vehicles in HOV Lane	17.70%	17.88%	15.40%	15.56%	
Percent of Total Freeway Vehicles per General Purpose Lane	16.46%	16.42%	16.92%	16.89%	
Percent of Total Freeway People in HOV Lane	27.53%	27.93%	27.05%	26.85%	
Percent of Total Freeway People per General Purpose Lane	14.49%	14.41%	14.59%	14.63%	
GP Lane Ca	rpool Summary	†			
2+ Carpool volume in GP Lanes (vehicles)*	480	954	722	1313	
2+ Percent Carpools in GP Lanes	6.25%	6.40%	8.46%	7.91%	
3+ Carpool Volume in GP Lanes (vehicles)*	42	90	74	119	
3+ Percent Carpools in GP Lanes	0.55%	0.60%	0.87%	0.72%	
, and the second	e Occupancy				
HOV Lane Average Occupancy (people)	1.89	1.91	2.23	2.17	
General Purpose Lane Average Occupancy (people)	1.07	1.07	1.10	1.09	
	ane Violation				
HOV Lane Violation (percentage)	2.97%	3.79%	1.22%	3.14%	
· · · · · · · · · · · · · · · · · · ·	ımber of GP Lane				
Equivalent number of GP Lanes needed to carry HOV people	1.90	1.94	1.85	1.84	
Peak 1 hour & neak 2 hour totals are based on the highest volume	1 . 0 6 11 .		1 0000000	15.00.10.00	

[†]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/Plug-in Hybrids and trucks.

	Operation on R				
Co. Rte. Dir.	LA 405 NB LA			405 SB	
Location	NORMANDIE		NORMANDIE		
Post Mile	13.81		13.		
Date		12/14/16		7/16	
Occupancy Requirement	2		2		
	AM HOV	AM HOV	PM HOV	PM HOV	
	Peak 1-Hour 7:30 - 8:30	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour	
Himb Occurrency Vehicle		6:30-8:30	15:30 - 16:30	16:00-18:00	
High Occupancy Vehicle	<u> </u>		1000	1020	
Carpools (Vehicles with 2-5 occupants only)	978	1784	1009	1939	
Vanpools	14	40	47	87	
Buses	7	11	3	3	
Motorcycles (MC's)	36 50	62	41	136	
Single Occupant Vehicles	56 70	137	12	25	
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	73	137	70	155	
Green Decal Vehicles (Plug-in Hybrids)	170	272	90	222	
Total Vehicles in HOV Lane	1334	2443	1272	2567	
2 person carpool volume in HOV lane (vehicles)	875	1612	938	1807	
2 or more (2+) person carpool volume in HOV Lane (veh.)*	993	1825	1056	2026	
3 person carpool volume in HOV lane (vehicles)	90	146	61	116	
3 or more (3+) person carpool volume in HOV Lane (veh.)*	118	213	118	219	
	People Summary				
People in Carpools (Vehicles with 2-5 occupants only)	2076	3773	2101	4026	
People in Vanpools	84	240	282	522	
People in Buses	170	260	70	40	
People in CNG/EV/Plug-in Hybrd, Single Occ. Veh. and MC's	335	608	213	538	
Total HOV Lane People	2665	4881	2666	5126	
General Purpose	(GP) Lane Sum	mary†			
Number of General Purpose Lanes	4		4		
General Purpose Lane Vehicles**	5653	10331	4418	8385	
General Purpose Vehicles per Lane**	1413	2583	1104	2096	
General Purpose Lane People**	6088	11165	4768	8996	
General Purpose People per Lane**	1522	2791	1192	2249	
	y Summary				
Total Freeway Vehicles	6987	12774	5690	10952	
Total Freeway People	8753	16046	7434	14122	
Percent of Total Freeway Vehicles in HOV Lane	19.09%	19.12%	22.36%	23.44%	
Percent of Total Freeway Vehicles per General Purpose Lane	20.23%	20.22%	19.41%	19.14%	
Percent of Total Freeway People in HOV Lane	30.45%	30.42%	35.86%	36.30%	
Percent of Total Freeway People per General Purpose Lane	17.39%	17.40%	16.03%	15.93%	
3 1 1	rpool Summary	t			
2+ Carpool volume in GP Lanes (vehicles)*	370	689	301	553	
2+ Percent Carpools in GP Lanes	6.55%	6.67%	6.82%	6.59%	
3+ Carpool Volume in GP Lanes (vehicles)*	40	94	21	28	
3+ Percent Carpools in GP Lanes	0.71%	0.91%	0.48%	0.33%	
	e Occupancy	0.0170	0.1070	0.0070	
HOV Lane Average Occupancy (people)	2.00	2.00	2.10	2.00	
General Purpose Lane Average Occupancy (people)	1.08	1.08	1.08	1.07	
	ane Violation				
HOV Lane Violation (percentage)	4.20%	5.61%	0.94%	0.97%	
	ımber of GP Lane		U.UT /0	0.01 /0	
Equivalent number of GP Lanes needed to carry HOV people	1.75	1.75	2.24	2.28	
Equivalent number of GF Lanes needed to carry nov people	1.70	1./ ປ	Z.Z 4	2.20	

[†]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/Plug-in Hybrids and trucks.

	LA 40		ΙΛ 40	NE ND
Co. Rte. Dir.			LA 405 NB SKIRBALL	
Location	SKIRBALL		36.72	
Post Mile	36.72			
Date	12/15/16		11/3	
Occupancy Requirement	AM HOV	+ AM HOV	PM HOV	PM HOV
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour
	7:30 - 8:30	6:30-8:30	15:30 - 16:30	16:00-18:00
High Occupancy Vehicle			10.00	10.00 10.00
Carpools (Vehicles with 2-5 occupants only)	1241	2450	1272	2185
Vanpools	13	29	27	63
Buses	32	49	14	31
Motorcycles (MC's)	45	90	56	148
Single Occupant Vehicles	45 57	108	60	101
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	60	102	37	94
Green Decal Vehicles (Plug-in Hybrids)	139	241	57	138
Total Vehicles in HOV Lane	1587		1523	2760
		3069		
2 person carpool volume in HOV lane (vehicles)	1147	2259	1165	2059
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1254	2479	1299	2248
3 person carpool volume in HOV lane (vehicles)	86	149	84	103
3 or more (3+) person carpool volume in HOV Lane (veh.)*	107	220	134	189
	People Summary			4504
People in Carpools (Vehicles with 2-5 occupants only)	2585	5150	2679	4524
People in Vanpools	78	174	162	378
People in Buses	982	1600	460	1080
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	301	541	210	481
Total HOV Lane People	3946	7465	3511	6463
General Purpose	<u>, ` </u>			
Number of General Purpose Lanes	5		5	
General Purpose Lane Vehicles**	7266	14005	7310	14350
General Purpose Vehicles per Lane**	1453	2801	1462	2870
General Purpose Lane People**	7842	15234	8126	16192
General Purpose People per Lane**	1568	3047	1625	3238
	y Summary			
Total Freeway Vehicles	8853	17074	8833	17110
Total Freeway People	11788	22699	11637	22655
Percent of Total Freeway Vehicles in HOV Lane	17.93%	17.97%	17.24%	16.13%
Percent of Total Freeway Vehicles per General Purpose Lane	16.41%	16.41%	16.55%	16.77%
Percent of Total Freeway People in HOV Lane	33.47%	32.89%	30.17%	28.53%
Percent of Total Freeway People per General Purpose Lane	13.31%	13.42%	13.97%	14.29%
	rpool Summary			
2+ Carpool volume in GP Lanes (vehicles)*	516	1062	738	1668
2+ Percent Carpools in GP Lanes	7.10%	7.58%	10.10%	11.62%
3+ Carpool Volume in GP Lanes (vehicles)*	54	102	66	138
3+ Percent Carpools in GP Lanes	0.74%	0.73%	0.90%	0.96%
	e Occupancy	5 0 / 0	5.5570	0.0070
HOV Lane Average Occupancy (people)	2.49	2.43	2.31	2.34
General Purpose Lane Average Occupancy (people)	1.08	1.09	1.11	1.13
1 7 1 7	ane Violation			0
HOV Lane Violation (percentage)	3.59%	3.52%	3.94%	3.66%
0 /	ımber of GP Lane		J.J7/0	J.00 /0
Equivalent number of GP Lanes needed to carry HOV people	2.52	2.45	2.16	2.00
Equivalent number of Gr. Lanes needed to carry 110 v people	2.02	2. 4 0	۷.۱۷	2.00

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

^{*} Carpools and vanpools only.

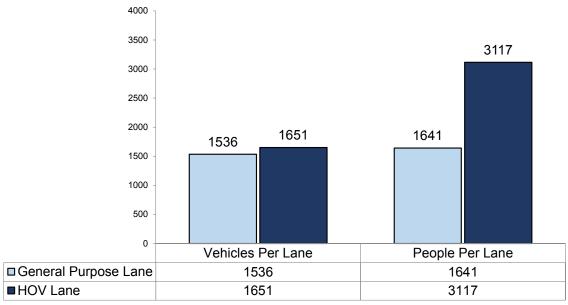
^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.

Co. Rte. Dir.	LA 40		LA 40	E ND	
			LA 405 NB BURBANK		
Location		BURBANK		40.28	
Post Mile	40.28				
Date		11/29/16		9/16	
Occupancy Requirement		+	2		
	AM HOV	AM HOV	PM HOV	PM HOV	
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour	
	6:30 - 7:30	6:30-8:30	17:00 - 18:00	16:00-18:00	
High Occupancy Vehicle	(HOV) Lane Veh				
Carpools (Vehicles with 2-5 occupants only)	774	1425	1234	2392	
Vanpools	4	10	33	66	
Buses	7	13	2	6	
Motorcycles (MC's)	38	97	46	89	
Single Occupant Vehicles	45	100	8	46	
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	23	45	32	45	
Green Decal Vehicles (Plug-in Hybrids)	56	115	51	103	
Total Vehicles in HOV Lane	947	1805	1406	2747	
2 person carpool volume in HOV lane (vehicles)	723	1319	1171	2260	
2 or more (2+) person carpool volume in HOV Lane (veh.)*	778	1435	1267	2458	
3 person carpool volume in HOV lane (vehicles)	40	90		116	
			56		
3 or more (3+) person carpool volume in HOV Lane (veh.)*	55	116	96	198	
	People Summary		0.700	1001	
People in Carpools (Vehicles with 2-5 occupants only)	1614	2978	2539	4934	
People in Vanpools	24	60	198	396	
People in Buses	260	470	80	240	
People in CNG/EV/Plug-in Hybrid, Single Occ. Veh. and MC's	162	357	137	283	
Total HOV Lane People	2060	3865	2954	5853	
General Purpose	(GP) Lane Sum	mary†			
Number of General Purpose Lanes	4	1	4		
General Purpose Lane Vehicles**	2415	4519	5025	9698	
General Purpose Vehicles per Lane**	604	1130	1256	2424	
General Purpose Lane People**	2738	5188	5581	11024	
General Purpose People per Lane**	684	1297	1395	2756	
Freewa	y Summary				
Total Freeway Vehicles	3362	6324	6431	12445	
·					
Total Freeway People	4798	9053	8535	16877	
Percent of Total Freeway Vehicles in HOV Lane	28.17%	28.54%	21.86%	22.07%	
Percent of Total Freeway Vehicles per General Purpose Lane	17.96%	17.86%	19.53%	19.48%	
Percent of Total Freeway People in HOV Lane	42.94%	42.70%	34.61%	34.68%	
Percent of Total Freeway People per General Purpose Lane	14.27%	14.33%	16.35%	16.33%	
GP Lane Ca	rpool Summary	†			
2+ Carpool volume in GP Lanes (vehicles)*	196	406	390	940	
2+ Percent Carpools in GP Lanes	8.13%	8.99%	7.76%	9.69%	
3+ Carpool Volume in GP Lanes (vehicles)*	16	36	35	75	
3+ Percent Carpools in GP Lanes	0.67%	0.80%	0.70%	0.77%	
·	e Occupancy				
HOV Lane Average Occupancy (people)	2.18	2.14	2.10	2.13	
General Purpose Lane Average Occupancy (people)	1.13	1.15	1.11	1.14	
	ane Violation	0			
HOV Lane Violation (percentage)	4.75%	5.54%	0.57%	1.67%	
			0.37 %	1.07 %	
	ımber of GP Lane		0.40	0.40	
Equivalent number of GP Lanes needed to carry HOV people	3.01	2.98	2.12	2.12	

[†]The peak hour of the general purpose lane may vary from the peak hour of the HOV lane.

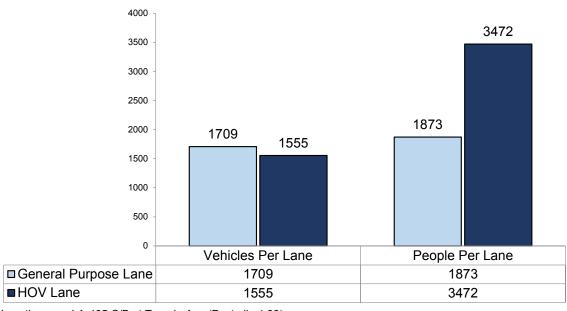
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-405-N/B at Temple Ave (Postmile 4.33)

Date/Time: 12-13-2016 / 6:30 AM - 7:30 AM



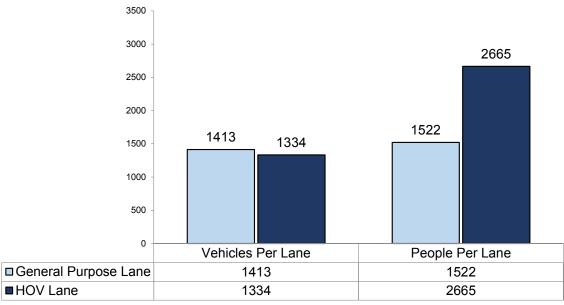
Location: LA-405-S/B at Temple Ave (Postmile 4.33)

Date/Time: 12-13-2016 / 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.

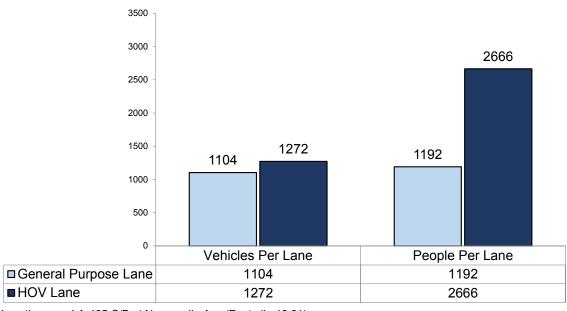
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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



Location: LA-405-N/B at Normandie Ave (Postmile 13.81)

Date/Time: 12-14-2016 / 7:30 AM - 8:30 AM



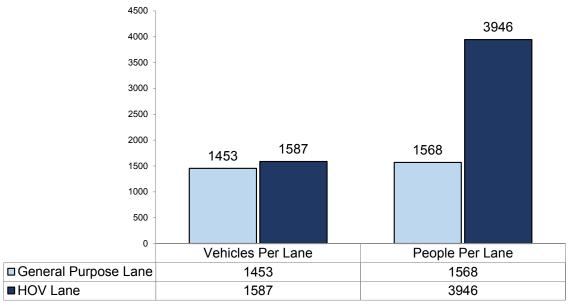
Location: LA-405-S/B at Normandie Ave (Postmile 13.81)

Date/Time: 9-27-2016 / 3:30 PM - 4:30 PM

 $^{^{\}star}$ 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.

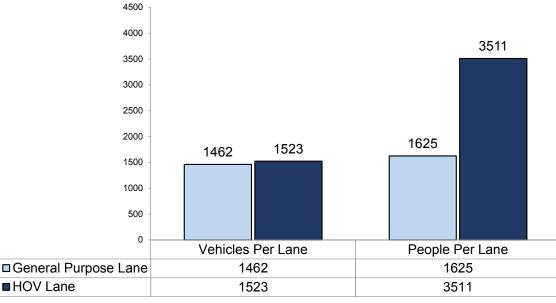
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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



Location: LA-405-S/B at Skirball Center Dr (Postmile 36.72)

Date/Time: 12-15-2016 / 7:30 AM - 8:30 AM



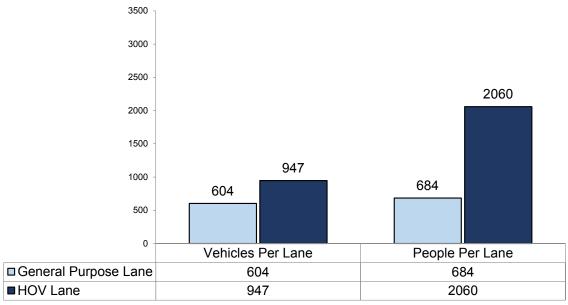
Location: LA-405-N/B at Skirball Center Dr (Postmile 36.72)

Date/Time: 11-30-2016 / 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.

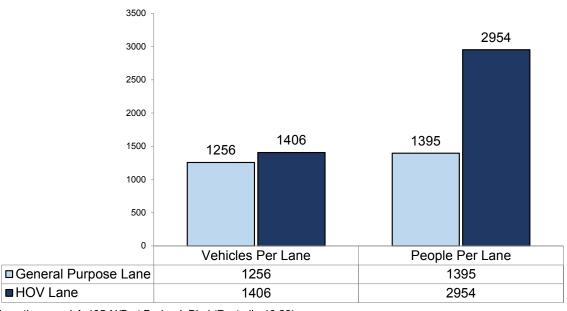
Note 1: Time indicated is for the HOV lane, peak 1-hour of the general purpose lane may be different.

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



Location: LA-405-S/B at Burbank Blvd (Postmile 40.28)

Date/Time: 11-29-2016 / 6:30 AM - 7:30 AM



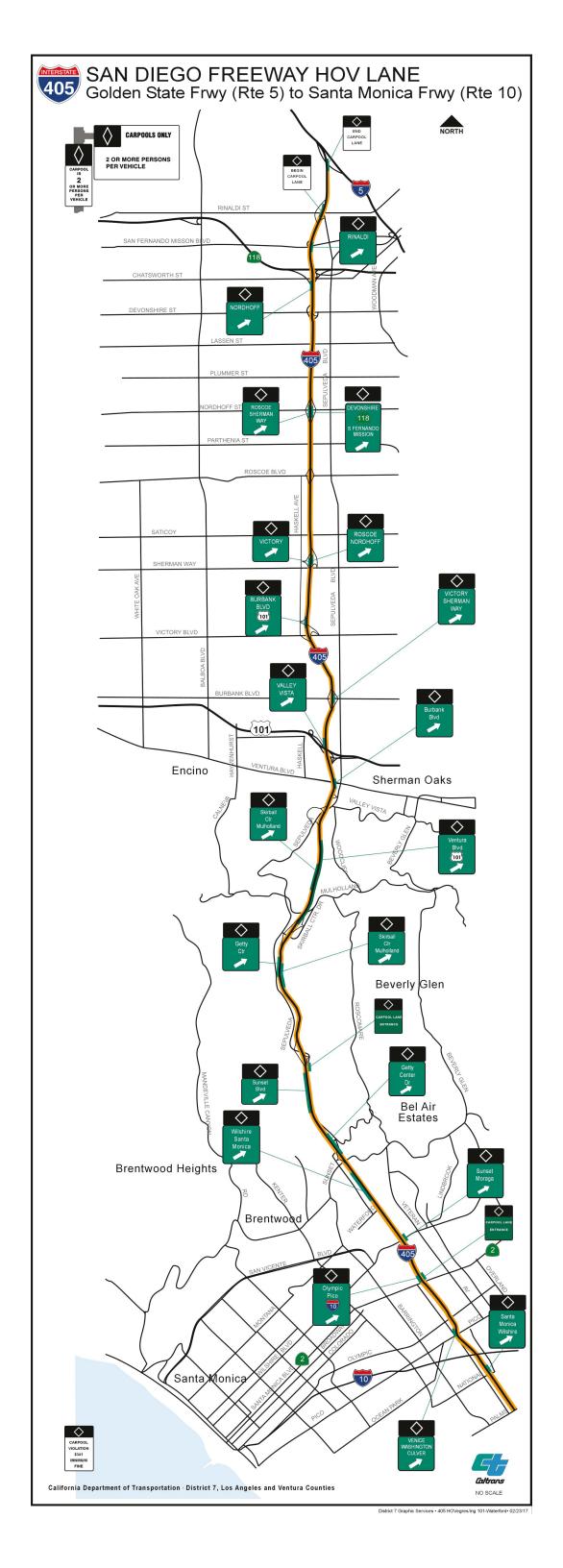
Location: LA-405-N/B at Burbank Blvd (Postmile 40.28)

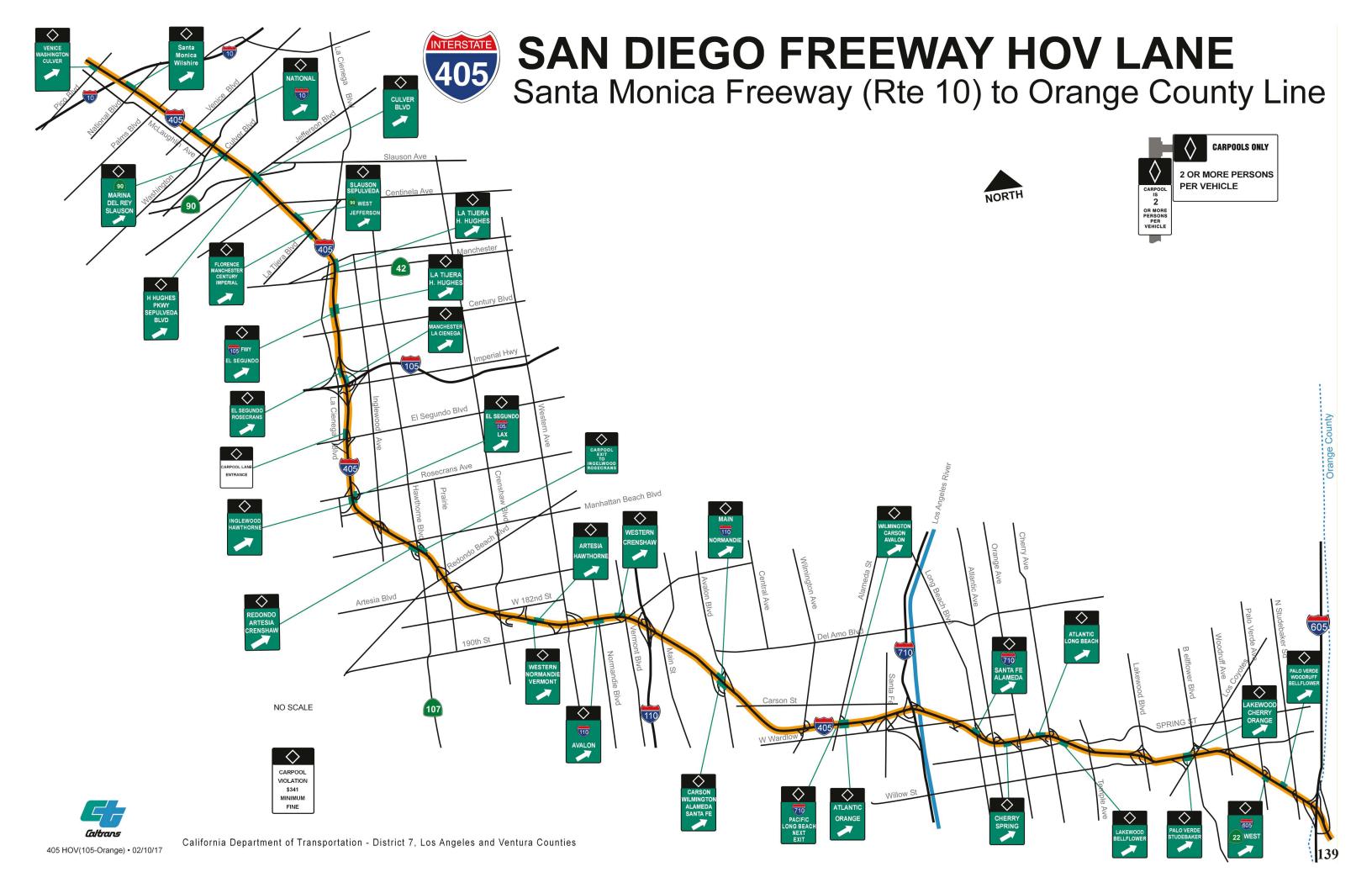
Date/Time: 11-29-2016 / 5:00 PM - 6:00 PM

 $^{^{\}star}$ 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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.







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) San Bernardino Freeway (Rte 10) to Orange County Line

R0.00 / R19.838 20.712 / R0.00 19.8 lane-miles (Northbound) 20.7 lane-miles (Southbound) 40.5 lane-miles (Total)

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:

Count Location	Postmile (CA)	<u>Direction</u>	<u>Date</u>	<u>Time</u>	<u>Volume</u>
Beverly Blvd	R14.41	Southbound	9/28/2016	6:30 – 7:30 A.M.	1342 vehicles
Beverly Blvd	R14.41	Northbound	12/7/2016	3:45 – 4:45 P.M.	1527 vehicles

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

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

CALTRANS - DISTRICT 7

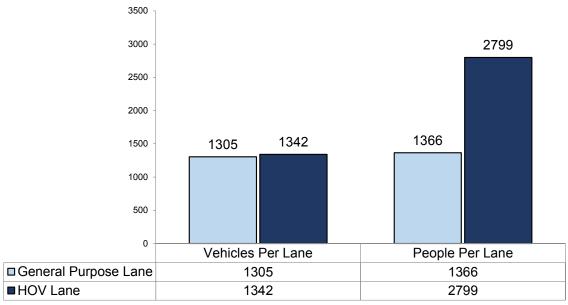
HOV Lane Operation on Route 605

Co. Rte. Dir.	LA 60	5 SB	LA 60)5 NB	
Location	BEVE		BEVE		
Post Mile	14.		14.		
Date	09/2				
Occupancy Requirement		+	12/07/16 2 +		
Occupancy Requirement	AM HOV	AM HOV	PM HOV	PM HOV	
	Peak 1-Hour	Peak 2-Hour	Peak 1-Hour	Peak 2-Hour	
	6:30 - 7:30	6:30-8:30	15:45 - 16:45	16:00-18:00	
High Occupancy Vehicle			10.40 10.40	10.00 10.00	
Carpools (Vehicles with 2-5 occupants only)	1155	2275	1382	2567	
		14		63	
Vanpools	5		21		
Buses	10	14	0	0	
Motorcycles	48	75	46	63	
Single Occupant Vehicles	4	9	8	11	
White Decal Vehicles (Electric Veh. & Compressed Natural Gas)	57	106	28	60	
Green Decal Vehicles (Plug-in Hybrids)	63	145	42	103	
Total Vehicles in HOV Lane	1342	2638	1527	2867	
2 person carpool volume in HOV lane (vehicles)	1072	2125	1302	2426	
2 or more (2+) person carpool volume in HOV Lane (veh.)*	1160	2289	1403	2630	
3 person carpool volume in HOV lane (vehicles)	79	141	73	131	
3 or more (3+) person carpool volume in HOV Lane (veh.)*	88	164	101	204	
HOV Lane	People Summary	/			
People in Carpools (Vehicles with 2-5 occupants only)	2397	4709	2852	5286	
People in Vanpools	30	84	126	378	
People in Buses	200	280	0	0	
People in CNG/EV/Plug-in Hybrd, Single Occ. Veh. and MC's	172	335	124	237	
Total HOV Lane People	2799	5408	3102	5901	
General Purpose	(GP) Lane Sum	mary†			
Number of General Purpose Lanes		1	4	1	
General Purpose Lane Vehicles**	5219	10285	5599	10933	
General Purpose Vehicles per Lane**	1305	2571	1400	2733	
General Purpose Lane People**	5464	10795	5954	11651	
General Purpose People per Lane**	1366	2699	1488	2913	
	ay Summary				
Total Freeway Vehicles	6561	12923	7126	13800	
Total Freeway People	8263	16203	9056	17552	
Percent of Total Freeway Vehicles in HOV Lane	20.45%	20.41%	21.43%	20.78%	
Percent of Total Freeway Vehicles per General Purpose Lane	19.89%	19.90%	19.64%	19.81%	
Percent of Total Freeway People in HOV Lane	33.87%	33.38%	34.25%	33.62%	
Percent of Total Freeway People per General Purpose Lane	16.53%	16.66%	16.44%	16.60%	
GP Lane Carpool Summary†					
2+ Carpool volume in GP Lanes (vehicles)*	240	490	335	565	
2+ Percent Carpools in GP Lanes	4.60%	4.76%	5.98%	5.17%	
3+ Carpool Volume in GP Lanes (vehicles)*	5	20	20	85	
3+ Percent Carpools in GP Lanes	0.10%	0.19%	0.36%	0.78%	
	e Occupancy	•			
HOV Lane Average Occupancy (people)	•	2.05	2.03	2.06	
	2.09				
General Purpose Lane Average Occupancy (people)	1.05	1.05	1.06	1.07	
General Purpose Lane Average Occupancy (people)	1.05		1.06	1.07	
General Purpose Lane Average Occupancy (people) HOV L	1.05 ane Violation	1.05			
General Purpose Lane Average Occupancy (people) HOV L HOV Lane Violation (percentage)	1.05 ane Violation 0.30%	0.34%	1.06 0.52%	0.38%	
General Purpose Lane Average Occupancy (people) HOV L HOV Lane Violation (percentage)	1.05 ane Violation	0.34%			

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.

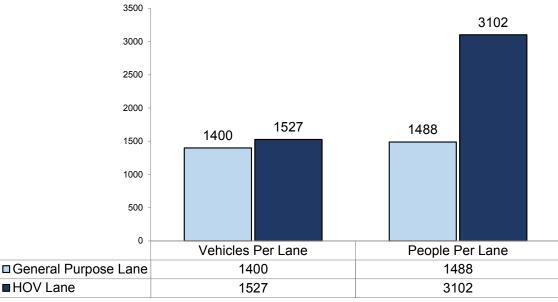
^{*} Carpools and vanpools only.

^{**} Single occupant vehicles, carpools, vanpools, buses, motorcycles, CNG/EV/Plug-in Hybrids and trucks.



Location: LA-605-S/B at Beverly Blvd (Postmile R14.41)

Date/Time: 9-28-2016 / 6:30 AM - 7:30 AM



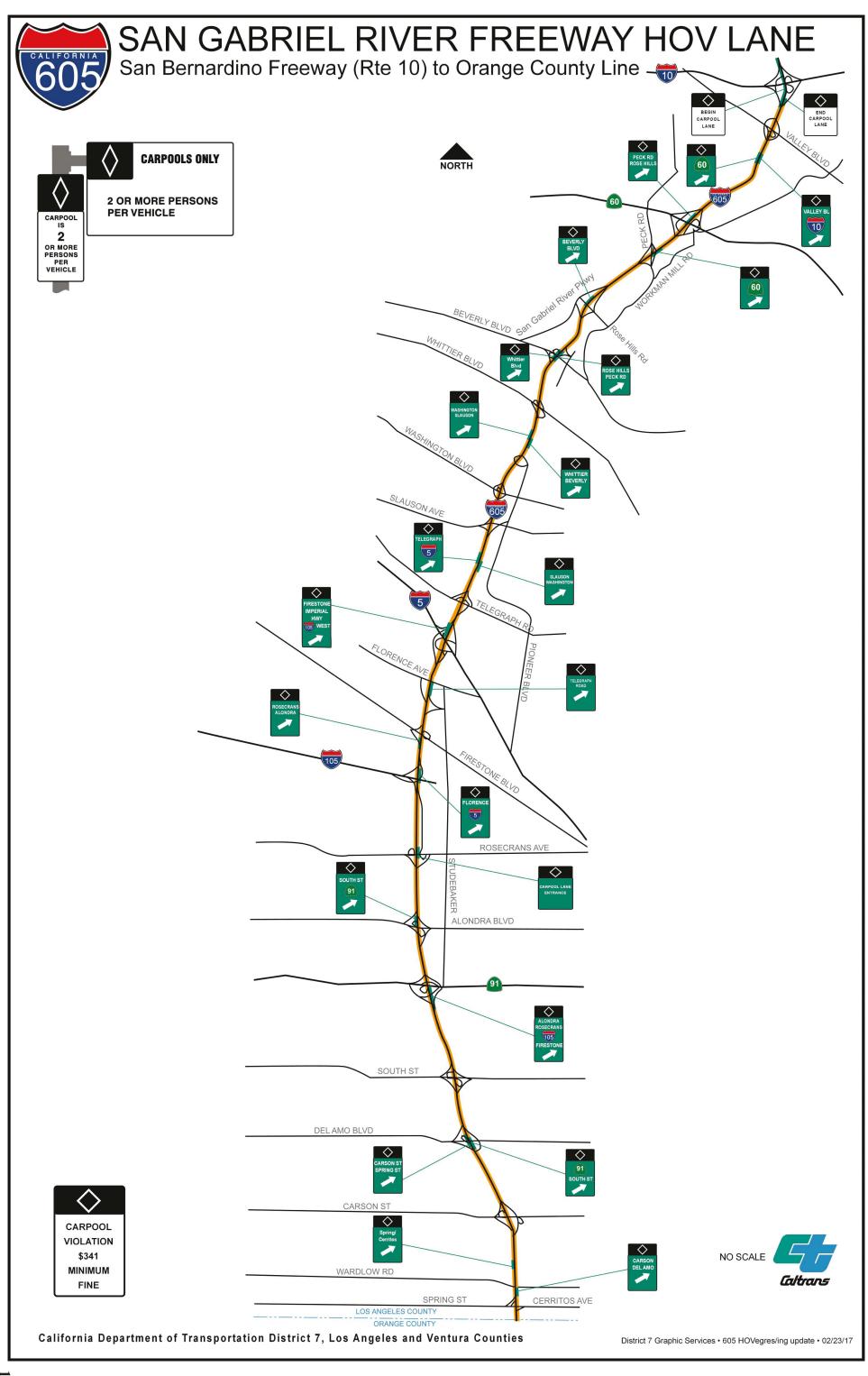
Location: LA-605-N/B at Beverly Blvd (Postmile R14.41)

Date/Time: 12-7-2016 / 3:45 PM - 4:45 PM

 $^{^{\}star}$ 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, white/green decal veh., 3-axle trucks (general purpose lane only) and single occupant vehicles.



STATEWIDE HOV AND EXPRESS LANE INVENTORY

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Statewide HOV and Express Lane Inventory

		Existing	
District	Region	HOV Lane (In-mi)	Express Lane (In-mi)
3	Sacramento	116.7	
4	San Francisco Bay Area	446.0	47.7
5	Santa Barbara	2.9	
7	Los Angeles	474.0	82.8
8	San Bernardino / Riverside	194.4	33.4**
10	Stockton	13.9	
11	San Diego	31.0	80.2
12	Orange County	220.3	40.2*
	TOTAL	1499.2	284.3

^{*} 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.

^{**} Route 91 HOV lane (between Orange Co Line to I-15) was converted to Express Toll Lane on March 20, 2017. Vehicles with 3 or more persons travel toll free except when traveling eastbound, Monday through Friday between 4pm and 6pm. During this time period, carpools of three or more receive a 50 percent discount on the posted toll. Eligible carpools (3+) with a valid FasTrak account and a properly mounted transponder must drive in the dedicated HOV 3+ lane when approaching the toll gantries in each section of the Express Toll Lanes at both Orange and Riverside County toll locations to receive the discount.

(Source: 91expresslanes.com)