

I-5, Santa Ana Freeway

Northbound (AM)

Los Alisos Boulevard, 18.0

Typical data for November, 2005

VEHICLES	PEAK PERIOD		PEAK HOUR	
	6:30-9:00 AM		7:00-8:00 AM	7:30-8:30 AM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	3138	968	1416	338
Buses	24	23	7	15
Vans	84	128	39	68
Trucks ⁽¹⁾	---	795	---	330
Motorcycles	146	53	71	23
Low Emission Vehicles	92	---	49	---
Single Occ.	76	26468	33	10733
TOTAL	3560	28435	1615	11507

PERSONS	PEAK PERIOD		PEAK HOUR	
	6:30-9:00 AM		7:00-8:00 AM	7:30-8:30 AM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	6559	1958	2968	690
Buses	480	450	140	300
Vans	504	765	234	405
Trucks ⁽¹⁾	---	795	---	330
Motorcycles	146	53	71	23
Low Emission Vehicles	92	---	49	---
Single Occ.	76	26468	33	10733
TOTAL	7857	30489	3495	12481

RATES	PEAK PERIOD		PEAK HOUR	
	6:30-9:00 AM		7:00-8:00 AM	7:30-8:30 AM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.21 persons/vehicle		2.16 persons/vehicle	
Mixed Flow Occupancy Rate	1.07 persons/vehicle		1.08 persons/vehicle	
Violation Rate ⁽²⁾ (HOV Lane)	2.13%		2.04%	

NOTES:

(1) *Mixed Flow Lanes Only*

(2) *Violation Rate = $\frac{\text{no. of violators in HOV lane} \times 100\%}{\text{total no. of vehicles in HOV lane}}$*

(3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Southbound (PM)

Los Alisos Boulevard, 18.0

Typical data for November, 2005

VEHICLES	PEAK PERIOD		PEAK HOUR	
	3:00-5:30 PM		4:30-5:30 PM	4:00-5:00 PM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	3173	2385	1449	991
Buses	21	8	4	0
Vans	63	23	23	0
Trucks ⁽¹⁾	---	383	---	128
Motorcycles	106	30	61	15
Low Emission Vehicles	69	---	39	---
Single Occ.	61	23040	24	9645
TOTAL	3493	25869	1600	10779

PERSONS	HOV Lane		Mixed Flow Lanes	
	3:00-5:30 PM		4:30-5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	6570	4845	2975	2003
Buses	420	150	80	0
Vans	378	135	138	0
Trucks ⁽¹⁾	---	383	---	128
Motorcycles	106	30	61	15
Low Emission Vehicles	69	---	39	---
Single Occ.	61	23040	24	9645
TOTAL	7604	28583	3317	11791

RATES	HOV Lane		Mixed Flow Lanes	
	3:00-5:30 PM		4:30-5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.18 persons/vehicle		2.07 persons/vehicle	
Mixed Flow Occupancy Rate	1.10 persons/vehicle		1.09 persons/vehicle	
Violation Rate ⁽²⁾ (HOV Lane)	1.75%		1.50%	

NOTES:

- (1) *Mixed Flow Lanes Only*
- (2) $Violation\ Rate = \frac{no.\ of\ violators\ in\ HOV\ lane\ x\ 100\%}{total\ no.\ of\ vehicles\ in\ HOV\ lane}$
- (3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Southbound (AM)

Tustin Ranch Road, R28.3

Typical data for November, 2005

VEHICLES	PEAK PERIOD		PEAK HOUR	
	6:30-9:00 AM		6:30-7:30 AM	6:30-7:30 AM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	3135	2412	1464	1266
Buses	11	12	5	0
Vans	13	222	6	0
Trucks ⁽¹⁾	---	1428	---	498
Motorcycles	41	48	18	24
Low Emission Vehicles	40	---	20	---
Single Occ.	47	18612	24	7632
TOTAL	3287	22734	1537	9420

PERSONS	HOV Lane		Mixed Flow Lanes	
	6:30-9:00 AM		6:30-7:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	6357	5034	2968	2664
Buses	220	240	100	0
Vans	78	1332	36	0
Trucks ⁽¹⁾	---	1428	---	498
Motorcycles	41	48	18	24
Low Emission Vehicles	40	---	20	---
Single Occ.	47	18612	24	7632
TOTAL	6783	26694	3166	10818

RATES	HOV Lane		Mixed Flow Lanes	
	6:30-9:00 AM		6:30-7:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.06 persons/vehicle		2.06 persons/vehicle	
Mixed Flow Occupancy Rate	1.17 persons/vehicle		1.15 persons/vehicle	
Violation Rate ⁽²⁾ (HOV Lane)	1.43%		1.56%	

NOTES:

(1) *Mixed Flow Lanes Only*

(2) $Violation\ Rate = \frac{no.\ of\ violators\ in\ HOV\ lane\ x\ 100\%}{total\ no.\ of\ vehicles\ in\ HOV\ lane}$

(3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Northbound (PM)

Tustin Ranch Road, R28.3

Typical data for November, 2005

VEHICLES	PEAK PERIOD		PEAK HOUR	
	3:00-5:30 PM		3:15-4:15 PM	4:30-5:30 PM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	3390	2484	1435	1206
Buses	34	30	13	12
Vans	17	198	9	174
Trucks ⁽¹⁾	---	804	---	450
Motorcycles	72	36	21	18
Low Emission Vehicles	31	---	12	---
Single Occ.	10	17094	5	7320
TOTAL	3554	20646	1495	9180

PERSONS	HOV Lane		Mixed Flow Lanes	
	3:00-5:30 PM		3:15-4:15 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	6836	5190	2890	2532
Buses	680	600	260	240
Vans	102	1188	54	1044
Trucks ⁽¹⁾	---	804	---	450
Motorcycles	72	36	21	18
Low Emission Vehicles	31	---	12	---
Single Occ.	10	17094	5	7320
TOTAL	7731	24912	3242	11604

RATES	HOV Lane		Mixed Flow Lanes	
	3:00-5:30 PM		3:15-4:15 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.18 persons/vehicle		2.17 persons/vehicle	
Mixed Flow Occupancy Rate	1.21 persons/vehicle		1.26 persons/vehicle	
Violation Rate ⁽²⁾ (HOV Lane)	0.28%		0.33%	

NOTES:

(1) *Mixed Flow Lanes Only*

(2) $Violation\ Rate = \frac{no.\ of\ violators\ in\ HOV\ lane\ x\ 100\%}{total\ no.\ of\ vehicles\ in\ HOV\ lane}$

(3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Southbound (AM)

Main Street, 33.1

Typical data for November, 2005

VEHICLES	PEAK PERIOD		PEAK HOUR	
	6:30-9:00 AM		7:00-8:00 AM	8:00-9:00 AM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	3207	1185	1346	458
Buses	16	38	3	15
Vans	38	323	15	158
Trucks ⁽¹⁾	---	1118	---	458
Motorcycles	122	45	52	23
Low Emission Vehicles	78	---	29	---
Single Occ.	3	18848	1	8070
TOTAL	3464	21557	1446	9182

PERSONS	PEAK PERIOD		PEAK HOUR	
	6:30-9:00 AM		7:00-8:00 AM	8:00-9:00 AM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	6518	2715	2743	1058
Buses	320	750	60	300
Vans	228	1935	90	945
Trucks ⁽¹⁾	---	1118	---	458
Motorcycles	122	45	52	23
Low Emission Vehicles	78	---	29	---
Single Occ.	3	18848	1	8070
TOTAL	7269	25411	2975	10854

RATES	PEAK PERIOD		PEAK HOUR	
	6:30-9:00 AM		7:00-8:00 AM	8:00-9:00 AM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.10 persons/vehicle		2.06 persons/vehicle	
Mixed Flow Occupancy Rate	1.18 persons/vehicle		1.18 persons/vehicle	
Violation Rate ⁽²⁾ (HOV Lane)	0.09%		0.07%	

NOTES:

(1) *Mixed Flow Lanes Only*

(2) $Violation\ Rate = \frac{no.\ of\ violators\ in\ HOV\ lane \times 100\%}{total\ no.\ of\ vehicles\ in\ HOV\ lane}$

(3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Northbound (PM)

Main Street, 33.1

Typical data for November, 2005

VEHICLES	PEAK PERIOD 3:00-5:30 PM		PEAK HOUR	
	HOV Lane	Mixed Flow Lanes	3:15-4:15 PM HOV Lane	4:30-5:30 PM Mixed Flow Lanes
Carpools	3031	1920	1397	846
Buses	13	30	4	24
Vans	10	438	5	192
Trucks ⁽¹⁾	---	996	---	384
Motorcycles	80	84	40	24
Low Emission Vehicles	39	---	25	---
Single Occ.	73	21324	40	8640
TOTAL	3246	24792	1511	10110

PERSONS	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	6138	4302	2835	1890
Buses	260	600	80	480
Vans	60	2628	30	1152
Trucks ⁽¹⁾	---	996	---	384
Motorcycles	80	84	40	24
Low Emission Vehicles	39	---	25	---
Single Occ.	73	21324	40	8640
TOTAL	6650	29934	3050	12570

RATES	HOV Lane		Mixed Flow Lanes	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.05 persons/vehicle		2.02 persons/vehicle	
Mixed Flow Occupancy Rate		1.21 persons/vehicle		1.24 persons/vehicle
Violation Rate ⁽²⁾ (HOV Lane)		2.25%		2.65%

NOTES:

(1) *Mixed Flow Lanes Only*

(2) $Violation\ Rate = \frac{no.\ of\ violators\ in\ HOV\ lane\ x\ 100\%}{total\ no.\ of\ vehicles\ in\ HOV\ lane}$

(3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Southbound (AM)

Harbor Boulevard 37.4

Typical data for November, 2005

VEHICLES	PEAK PERIOD		PEAK HOUR	
	6:30-9:00 AM		6:45-7:45 AM	6:30-7:30 AM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	2807	810	1453	325
Buses	17	40	4	10
Vans	75	5	36	5
Trucks ⁽¹⁾	---	945	---	345
Motorcycles	92	10	43	0
Low Emission Vehicles	35	---	20	---
Single Occ.	5	16110	3	6855
TOTAL	3031	17920	1559	7540

PERSONS	HOV Lane		Mixed Flow Lanes	
	6:30-9:00 AM		6:45-7:45 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	5671	1650	2940	665
Buses	340	800	80	200
Vans	450	30	216	30
Trucks ⁽¹⁾	---	945	---	345
Motorcycles	92	10	43	0
Low Emission Vehicles	35	---	20	---
Single Occ.	5	16110	3	6855
TOTAL	6593	19545	3302	8095

RATES	HOV Lane		Mixed Flow Lanes	
	6:30-9:00 AM		6:45-7:45 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.18 persons/vehicle		2.12 persons/vehicle	
Mixed Flow Occupancy Rate	1.09 persons/vehicle		1.07 persons/vehicle	
Violation Rate ⁽²⁾ (HOV Lane)	0.16%		0.19%	

NOTES:

(1) *Mixed Flow Lanes Only*

(2) $Violation\ Rate = \frac{no.\ of\ violators\ in\ HOV\ lane\ x\ 100\%}{total\ no.\ of\ vehicles\ in\ HOV\ lane}$

(3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Northbound (PM)

Harbor Boulevard 37.4

Typical data for November, 2005

VEHICLES	PEAK PERIOD		PEAK HOUR	
	3:00-5:30 PM		4:30-5:30 PM	4:00-5:00 PM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	3552	530	1795	45
Buses	11	20	3	20
Vans	2	20	2	0
Trucks ⁽¹⁾	---	790	---	235
Motorcycles	64	5	37	0
Low Emission Vehicles	21	---	7	---
Single Occ.	9	17635	3	7465
TOTAL	3659	19000	1847	7765

PERSONS	HOV Lane		Mixed Flow Lanes	
	3:00-5:30 PM		4:30-5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	7336	1085	3636	90
Buses	220	400	60	400
Vans	12	120	12	0
Trucks ⁽¹⁾	---	790	---	235
Motorcycles	64	5	37	0
Low Emission Vehicles	21	---	7	---
Single Occ.	9	17635	3	7465
TOTAL	7662	20035	3755	8190

RATES	HOV Lane		Mixed Flow Lanes	
	3:00-5:30 PM		4:30-5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.09 persons/vehicle		2.03 persons/vehicle	
Mixed Flow Occupancy Rate	1.05 persons/vehicle		1.05 persons/vehicle	
Violation Rate ⁽²⁾ (HOV Lane)	0.25%		0.16%	

NOTES:

(1) *Mixed Flow Lanes Only*

(2) $Violation\ Rate = \frac{no.\ of\ violators\ in\ HOV\ lane\ x\ 100\%}{total\ no.\ of\ vehicles\ in\ HOV\ lane}$

(3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Southbound (AM)

Broadway St. 38.7

Typical data for November, 2005

VEHICLES	PEAK PERIOD		PEAK HOUR	
	6:30-9:00 AM		7:15-8:15 AM	6:30-7:30 AM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	3280	900	1455	294
Buses	32	42	13	12
Vans	44	6	11	0
Trucks ⁽¹⁾	---	582	---	192
Motorcycles	87	18	34	18
Low Emission Vehicles	52	30	31	---
Single Occ.	11	16284	7	7116
TOTAL	3506	17862	1551	7632

PERSONS	HOV Lane		Mixed Flow Lanes	
	6:30-9:00 AM		6:30-7:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	6615	1848	2941	606
Buses	640	840	260	240
Vans	264	36	66	0
Trucks ⁽¹⁾	---	582	---	192
Motorcycles	87	18	34	18
Low Emission Vehicles	52	30	31	---
Single Occ.	11	16284	7	7116
TOTAL	7669	19638	3339	8172

RATES	HOV Lane		Mixed Flow Lanes	
	6:30-9:00 AM		6:30-7:30 AM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.19 persons/vehicle		2.15 persons/vehicle	
Mixed Flow Occupancy Rate	1.10 persons/vehicle		1.07 persons/vehicle	
Violation Rate ⁽²⁾ (HOV Lane)	0.31%		0.45%	

NOTES:

(1) *Mixed Flow Lanes Only*

(2) $Violation\ Rate = \frac{no.\ of\ violators\ in\ HOV\ lane\ x\ 100\%}{total\ no.\ of\ vehicles\ in\ HOV\ lane}$

(3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Northbound (PM)

Broadway St. 38.7

Typical data for November, 2005

VEHICLES	PEAK PERIOD		PEAK HOUR	
	3:00-5:30 PM		4:30-5:30 PM	4:30-5:30 PM
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	2844	1986	1306	540
Buses	15	90	4	30
Vans	3	30	3	0
Trucks ⁽¹⁾	---	918	---	306
Motorcycles	71	30	37	12
Low Emission Vehicles	24	---	7	---
Single Occ.	16	19998	6	8814
TOTAL	2973	23052	1363	9702

PERSONS	HOV Lane		Mixed Flow Lanes	
	3:00-5:30 PM		4:30-5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Carpools	5815	4200	2645	1104
Buses	300	1800	80	600
Vans	18	180	18	0
Trucks ⁽¹⁾	---	918	---	306
Motorcycles	71	30	37	12
Low Emission Vehicles	24	---	7	---
Single Occ.	16	19998	6	8814
TOTAL	6244	27126	2793	10836

RATES	HOV Lane		Mixed Flow Lanes	
	3:00-5:30 PM		4:30-5:30 PM	
	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
HOV Lane Occupancy Rate	2.10 persons/vehicle		2.05 persons/vehicle	
Mixed Flow Occupancy Rate	1.18 persons/vehicle		1.12 persons/vehicle	
Violation Rate ⁽²⁾ (HOV Lane)	0.54%		0.44%	

NOTES:

(1) *Mixed Flow Lanes Only*

(2) $Violation\ Rate = \frac{no.\ of\ violators\ in\ HOV\ lane\ x\ 100\%}{total\ no.\ of\ vehicles\ in\ HOV\ lane}$

(3) *Carpool Lane Only*

I-5, Santa Ana Freeway

Western Avenue, 43.7

Typical data for November, 2005

		SOUTHBOUND		NORTHBOUND	
		Peak Period	Peak Hour	Peak Period	Peak Period
		6:30-9:00	6:30-7:30	3:00-5:30 PM	4:30-5:30 PM
		AM	AM	PM	PM
VEHICLES	Carpools	2696	1283	2055	710
	Buses	26	4	25	10
	Vans	30	15	25	15
	Trucks	746	326	750	275
	Motorcycles	68	30	60	25
	Single Occ.	9169	4020	7965	3510
	TOTAL	12735	5678	10880	4545
PERSONS	Carpools	5453	2610	4295	1440
	Buses	525	75	500	200
	Vans	180	90	150	90
	Trucks	746	326	750	275
	Motorcycles	68	30	60	25
	Single Occ.	9169	4020	7965	3510
	TOTAL	16141	7151	13720	5540
RATES	Peak Period Occupancy Rate	1.27 persons/vehicle		1.26 persons/vehicle	
	Peak Hour Occupancy Rate	1.26 persons/vehicle		1.22 persons/vehicle	