

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Bolsa Chica DATE: 9/5/2002 LOCATION: City of Huntington Beach
 E-W STREET: Warner Ave. DAY: THURSDAY PROJECT# 02-1128-001 P

LANES:	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL 1	NT 2	NR 0	SL 2	ST 1	SR 2	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	3	18	17	142	15	81	66	164	5	20	163	108	802
4:15 PM	6	17	17	150	15	94	68	168	5	23	168	102	833
4:30 PM	12	14	26	131	30	90	69	185	11	26	225	93	912
4:45 PM	14	16	29	142	24	114	78	207	8	23	248	100	1003
5:00 PM	11	17	27	133	21	121	75	214	10	25	256	90	1000
5:15 PM	12	18	33	128	22	133	80	193	7	24	240	102	992
5:30 PM	9	14	21	134	26	108	61	201	7	31	232	95	939
5:45 PM	10	16	26	114	23	103	70	186	9	27	212	91	887
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													

TOTAL VOLUMES =	NL 77	NT 130	NR 196	SL 1074	ST 176	SR 844	EL 567	ET 1518	ER 62	WL 199	WT 1744	WR 781	TOTAL 7368
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PM Peak Hr Begins at: 4:45 PM

PEAK VOLUMES =	46	65	110	537	93	476	294	815	32	103	976	387	3934
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CONTROL: Signalized;

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Graham St.

DATE: 9/4/2002

LOCATION: City of Huntington Beach

E-W STREET: Warner Ave.

DAY: WEDNESDAY

PROJECT# 02-1108-001 A

LANES:	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	1	1	1	1	.5	.5	1	2.5	.5	1	2.5	.5	
6:00 AM													
6:15 AM													
6:30 AM	43	27	5	11	15	12	6	151	25	1	132	12	440
6:45 AM	63	32	12	7	27	9	9	199	35	5	112	24	534
7:00 AM	58	30	8	7	21	10	15	209	33	4	128	25	548
7:15 AM	40	29	7	8	16	16	28	229	32	4	132	27	568
7:30 AM	55	27	12	13	23	23	20	220	29	7	150	21	600
7:45 AM	48	33	15	9	29	25	22	236	24	7	168	19	635
8:00 AM	35	25	8	12	24	14	17	230	21	10	142	15	553
8:15 AM	32	22	7	6	21	8	12	215	19	5	128	11	486
8:30 AM													
8:45 AM													
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													

TOTAL VOLUMES =	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	374	225	74	73	176	117	129	1689	218	43	1092	154	4364

AM Peak Hr Begins at: 7:15 AM

PEAK VOLUMES =	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	178	114	42	42	92	78	87	915	106	28	592	82	2356

CONTROL: Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Graham St. DATE: 9/4/2002 LOCATION: City of Huntington Beach
 E-W STREET: Warner Ave. DAY: WEDNESDAY PROJECT# 02-1108-001 P

LANES:	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	1	1	1	1	.5	.5	1	2.5	.5	1	2.5	.5	

1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	36	27	6	18	22	16	19	236	34	5	68	30	517
4:15 PM	47	24	3	21	27	19	19	256	38	7	75	31	567
4:30 PM	50	33	11	26	33	24	21	253	46	9	71	32	609
4:45 PM	58	38	1	14	25	24	14	304	51	5	280	22	836
5:00 PM	50	30	11	21	44	28	19	289	43	8	259	17	819
5:15 PM	50	31	7	26	39	18	16	289	57	16	272	25	846
5:30 PM	41	31	7	25	37	21	16	277	42	13	236	19	765
5:45 PM	32	28	6	17	30	22	12	251	40	11	245	18	712
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													

TOTAL VOLUMES =	NL 364	NT 242	NR 52	SL 168	ST 257	SR 172	EL 136	ET 2155	ER 351	WL 74	WT 1506	WR 194	TOTAL 5671
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PM Peak Hr Begins at: 445 PM

PEAK VOLUMES =	199	130	26	86	145	91	65	1159	193	42	1047	83	3266
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CONTROL Signalized

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Graham St. DATE: 9/4/2002 LOCATION: City of Huntington Beach
 E-W STREET: Glenstone Ave. DAY: WEDNESDAY PROJECT# 02-1108-002 A

LANES:	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:00 AM													
6:15 AM													
6:30 AM	0	50	2	7	11	1	4	0	2	0	1	8	86
6:45 AM	0	43	5	13	22	0	2	0	0	3	0	13	101
7:00 AM	0	58	3	38	48	0	5	0	3	3	0	16	174
7:15 AM	1	59	36	108	39	18	3	17	2	8	1	58	350
7:30 AM	1	57	40	74	45	26	7	32	4	21	1	105	413
7:45 AM	1	84	2	8	49	2	1	0	3	7	0	54	211
8:00 AM	3	73	4	2	49	0	1	0	1	3	0	10	146
8:15 AM	0	69	6	2	42	2	4	0	2	2	0	8	137
8:30 AM													
8:45 AM													
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													

TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES =	6	493	98	252	305	49	27	49	17	47	3	272	1618

AM Peak Hr Begins at: 700 AM

PEAK	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES =	3	258	81	228	181	46	16	49	12	39	2	233	1148

CONTROL: 4-Way Stop

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Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Graham St. DATE: 9/4/2002 LOCATION: City of Huntington Beach
 E-W STREET: Glenstone Ave. DAY: WEDNESDAY PROJECT# 02-1108-002 P

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
LANES:													
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM													
4:00 PM	1	69	1	9	67	1	1	0	0	3	0	11	163
4:15 PM	1	59	3	6	73	2	0	1	1	0	1	6	153
4:30 PM	6	65	1	6	67	2	3	0	0	0	0	5	155
4:45 PM	2	71	4	8	57	2	0	0	3	1	0	4	152
5:00 PM	2	77	4	8	72	7	0	0	0	2	0	5	177
5:15 PM	1	91	1	11	78	5	3	0	0	1	0	6	197
5:30 PM	1	88	2	7	90	3	1	0	2	1	0	6	201
5:45 PM	2	88	2	5	76	4	2	0	0	3	0	5	187
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													

TOTAL VOLUMES =	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	16	608	18	60	580	26	10	1	6	11	1	48	1385

PM Peak Hr Begins at: 500 PM

PEAK VOLUMES =	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	6	344	9	31	316	19	6	0	2	7	0	22	762

CONTROL: 4-Way Stop

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Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Graham St. DATE: 9/4/2002 LOCATION: City of Huntington Beach
 E-W STREET: Slater Ave. DAY: WEDNESDAY PROJECT# 02-1108-003 A

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
LANES:		1	0	0	1					1		1	
6:00 AM													
6:15 AM													
6:30 AM		33	9	12	0					2		30	86
6:45 AM		22	12	21	4					1		40	100
7:00 AM		40	7	50	4					8		37	146
7:15 AM		47	13	50	13					1		61	185
7:30 AM		47	28	74	14					6		63	232
7:45 AM		29	23	58	7					4		64	185
8:00 AM		34	6	43	11					6		63	163
8:15 AM		33	6	35	12					12		57	155
8:30 AM													
8:45 AM													
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM													
10:15 AM													
10:30 AM													
10:45 AM													
11:00 AM													
11:15 AM													
11:30 AM													
11:45 AM													

TOTAL VOLUMES =	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	0	285	104	343	65	0	0	0	0	40	0	415	1252

AM Peak Hr Begins at: 7:15 AM

PEAK VOLUMES =	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	0	157	70	225	45	0	0	0	0	17	0	251	765

CONTROL: 3-Way Stop (North, South & East)

Intersection Turning Movement

Prepared by: Southland Car Counters

N-S STREET: Graham St. DATE: 9/4/2002 LOCATION: City of Huntington Beach
 E-W STREET: Slater Ave. DAY: WEDNESDAY PROJECT# 02-1108-003 P

LANES:	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	1		0	0	1					1		1	
1:00 PM													
1:15 PM													
1:30 PM													
1:45 PM													
2:00 PM													
2:15 PM													
2:30 PM													
2:45 PM													
3:00 PM													
3:15 PM													
3:30 PM													
3:45 PM										15		50	178
4:00 PM		22	5	57	29					8		41	154
4:15 PM		17	9	50	29					11		62	169
4:30 PM		12	8	56	20					14		61	177
4:45 PM		21	8	53	20					14		75	181
5:00 PM		12	4	47	29					13		74	212
5:15 PM		21	10	58	36					9		71	200
5:30 PM		21	6	57	36					7		80	196
5:45 PM		15	4	53	37								
6:00 PM													
6:15 PM													
6:30 PM													
6:45 PM													

TOTAL VOLUMES =	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	0	141	54	431	236	0	0	0	0	91	0	514	1467

PM Peak Hr Begins at: 500 PM

PEAK VOLUMES =	0	69	24	215	138	0	0	0	0	43	0	300	789
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CONTROL: 3-Way Stop (North, South & East)

Average Daily Traffic Volumns

Prepared by: Southland Car Counters

Volumes for: Wednesday, September 04, 20City: Huntington Beach

Project #: 02-1107-002

Location: Graham St. & btwn. Glenstone & Slater

Client Ref #: 960404

AM Period	NB	SB	EB	WB	PM Period	NB	SB	EB	WB	
12:00-12:15	3	3			12:00-12:15	52	51			
12:15-12:30	0	4			12:15-12:30	40	47			
12:30-12:45	3	4			12:30-12:45	80	42			
12:45-1:00	3	9	4	15	12:45-1:00	63	235	55	195	
1:00-1:15	1	3			1:00-1:15	38	40			
1:15-1:30	2	2			1:15-1:30	42	40			
1:30-1:45	1	5			1:30-1:45	50	46			
1:45-2:00	1	5	2	12	1:45-2:00	47	177	46	172	
2:00-2:15	5	1			2:00-2:15	57	50			
2:15-2:30	0	2			2:15-2:30	59	56			
2:30-2:45	1	0			2:30-2:45	63	57			
2:45-3:00	0	6	1	4	2:45-3:00	59	238	67	230	
3:00-3:15	0	2			3:00-3:15	55	66			
3:15-3:30	2	1			3:15-3:30	58	69			
3:30-3:45	2	0			3:30-3:45	67	68			
3:45-4:00	2	6	2	5	3:45-4:00	72	252	63	266	
4:00-4:15	0	2			4:00-4:15	56	65			
4:15-4:30	3	0			4:15-4:30	70	60			
4:30-4:45	8	1			4:30-4:45	77	67			
4:45-5:00	6	17	0	3	4:45-5:00	73	276	75	267	
5:00-5:15	13	2			5:00-5:15	95	78			
5:15-5:30	11	3			5:15-5:30	93	114			
5:30-5:45	28	4			5:30-5:45	97	82			
5:45-6:00	28	80	3	12	5:45-6:00	104	389	100	374	
6:00-6:15	28	14			6:00-6:15	79	99			
6:15-6:30	42	15			6:15-6:30	62	92			
6:30-6:45	47	10			6:30-6:45	71	84			
6:45-7:00	53	170	19	58	6:45-7:00	73	285	91	366	
7:00-7:15	65	30			7:00-7:15	57	70			
7:15-7:30	71	57			7:15-7:30	53	66			
7:30-7:45	110	71			7:30-7:45	45	61			
7:45-8:00	82	328	71	229	7:45-8:00	32	187	50	247	
8:00-8:15	66	51			8:00-8:15	36	43			
8:15-8:30	79	48			8:15-8:30	45	37			
8:30-8:45	63	50			8:30-8:45	26	35			
8:45-9:00	64	272	46	195	8:45-9:00	28	135	31	146	
9:00-9:15	61	42			9:00-9:15	22	25			
9:15-9:30	50	48			9:15-9:30	27	26			
9:30-9:45	57	38			9:30-9:45	18	21			
9:45-10:00	47	215	35	163	9:45-10:00	18	85	11	83	
10:00-10:15	43	29			10:00-10:15	20	19			
10:15-10:30	52	41			10:15-10:30	14	25			
10:30-10:45	50	38			10:30-10:45	16	18			
10:45-11:00	44	189	29	137	10:45-11:00	12	62	11	72	
11:00-11:15	55	40			11:00-11:15	7	6			
11:15-11:30	51	50			11:15-11:30	3	6			
11:30-11:45	49	40			11:30-11:45	5	2			
11:45-12:00	51	206	49	179	11:45-12:00	2	17	10	24	
Total Vol.	1503	1012	0	0	2515	2338	2442	0	0	4780
Daily Totals						3841	3454	0	0	7295

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Average Daily Traffic Volumes

Prepared by: Southland Car Counters

Volumes for: Wednesday, September 04, 2000 City: Huntington Beach

Project #: 02-1107-001

Location: Graham St. & btwn. Warner & Glenstone

Client Ref #: 960404

AM Period	NB	SB	EB	WB	PM Period	NB	SB	EB	WB	
12:00-12:15	3	5			12:00-12:15	44	48			
12:15-12:30	0	3			12:15-12:30	71	56			
12:30-12:45	1	5			12:30-12:45	83	48			
12:45-1:00	4	8	6	19	12:45-1:00	64	262	50	212	
									474	
1:00-1:15	2	2			1:00-1:15	44	46			
1:15-1:30	1	2			1:15-1:30	57	46			
1:30-1:45	2	4			1:30-1:45	46	47			
1:45-2:00	0	5	4	12	1:45-2:00	52	199	59	198	
									397	
2:00-2:15	2	1			2:00-2:15	64	57			
2:15-2:30	4	3			2:15-2:30	61	58			
2:30-2:45	1	0			2:30-2:45	65	53			
2:45-3:00	0	7	1	5	2:45-3:00	63	253	79	247	
									500	
3:00-3:15	1	1			3:00-3:15	70	65			
3:15-3:30	2	2			3:15-3:30	72	84			
3:30-3:45	2	0			3:30-3:45	79	73			
3:45-4:00	1	6	1	4	3:45-4:00	74	295	100	322	
									617	
4:00-4:15	0	0			4:00-4:15	75	98			
4:15-4:30	2	1			4:15-4:30	79	79			
4:30-4:45	8	0			4:30-4:45	84	75			
4:45-5:00	10	20	0	1	4:45-5:00	82	320	81	332	
									652	
5:00-5:15	13	2			5:00-5:15	82	98			
5:15-5:30	8	3			5:15-5:30	98	90			
5:30-5:45	22	3			5:30-5:45	101	74			
5:45-6:00	33	76	3	11	5:45-6:00	98	379	76	330	
									709	
6:00-6:15	38	11			6:00-6:15	97	76			
6:15-6:30	40	13			6:15-6:30	74	87			
6:30-6:45	51	15			6:30-6:45	85	84			
6:45-7:00	47	176	23	62	6:45-7:00	88	344	82	329	
									673	
7:00-7:15	71	39			7:00-7:15	67	83			
7:15-7:30	86	111			7:15-7:30	55	91			
7:30-7:45	167	210			7:30-7:45	59	72			
7:45-8:00	191	515	111	471	7:45-8:00	44	225	53	289	
									514	
8:00-8:15	118	54			8:00-8:15	31	61			
8:15-8:30	99	50			8:15-8:30	59	44			
8:30-8:45	80	54			8:30-8:45	34	38			
8:45-9:00	79	376	43	201	8:45-9:00	29	153	36	181	
									334	
9:00-9:15	65	43			9:00-9:15	27	32			
9:15-9:30	53	46			9:15-9:30	29	24			
9:30-9:45	64	43			9:30-9:45	29	19			
9:45-10:00	57	239	42	174	9:45-10:00	21	106	18	92	
									199	
10:00-10:15	42	29			10:00-10:15	20	19			
10:15-10:30	51	39			10:15-10:30	16	20			
10:30-10:45	58	42			10:30-10:45	16	20			
10:45-11:00	49	200	34	144	10:45-11:00	13	65	15	74	
									135	
11:00-11:15	48	37			11:00-11:15	7	5			
11:15-11:30	60	52			11:15-11:30	5	7			
11:30-11:45	54	48			11:30-11:45	3	1			
11:45-12:00	53	215	46	183	11:45-12:00	5	20	10	23	
									42	
Total Vol.	1843	1287	0	0	3130	2621	2630	0	0	5251
Daily Totals						4464	3917	0	0	8381

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