

**APPENDIX 21-7 (R)**  
**Beacon Lakes Vehicle Classification Counts**

**Revised April 2008**

Vehicle Classification Study at Beacon Lakes  
Beacon Countyline DRI

Day 1 - July 31, 2007										
Time	NW 25 Street East of Beacon Lakes East Driveway			NW 25 Street West of Beacon Lakes West Driveway			Vehicles to/from Beacon Lakes			% Trucks
	Cars	Trucks	Total	Cars	Trucks	Total	Cars	Trucks	Total	
12:00 AM	23	13	36	6	7	13	17	6	23	26.1%
1:00 AM	7	11	18	6	10	16	1	1	2	50.0%
2:00 AM	9	12	21	9	12	21	0	0	0	0.0%
3:00 AM	11	13	24	7	11	18	4	2	6	33.3%
4:00 AM	17	15	32	16	14	30	1	1	2	50.0%
5:00 AM	38	29	67	19	29	48	19	0	19	0.0%
6:00 AM	169	108	277	74	92	166	95	16	111	14.4%
7:00 AM	229	163	392	79	144	223	150	19	169	11.2%
8:00 AM	264	194	458	57	152	209	207	42	249	16.9%
9:00 AM	165	206	371	60	157	217	105	49	154	31.8%
10:00 AM	145	208	353	79	151	230	66	57	123	46.3%
11:00 AM	138	201	339	63	145	208	75	56	131	42.7%
12:00 PM	231	180	411	70	138	208	161	42	203	20.7%
1:00 PM	244	182	426	87	132	219	157	50	207	24.2%
2:00 PM	218	129	347	54	79	133	164	50	214	23.4%
3:00 PM	221	63	284	60	31	91	161	32	193	16.6%
4:00 PM	157	84	241	69	31	100	88	53	141	37.6%
5:00 PM	206	53	259	51	16	67	155	37	192	19.3%
6:00 PM	167	22	189	28	4	32	139	18	157	11.5%
7:00 PM	88	15	103	18	1	19	70	14	84	16.7%
8:00 PM	55	12	67	9	1	10	46	11	57	19.3%
9:00 PM	42	14	56	11	2	13	31	12	43	27.9%
10:00 PM	37	8	45	8	1	9	29	7	36	19.4%
11:00 PM	39	7	46	11	0	11	28	7	35	20.0%
<b>TOTAL</b>			<b>4,862</b>			<b>2,311</b>		<b>582</b>	<b>2,551</b>	<b>22.8%</b>
Day 2 - August 1, 2007										
Time	NW 25 Street East of Beacon Lakes East Driveway			NW 25 Street West of Beacon Lakes West Driveway			Vehicles to/from Beacon Lakes			% Trucks
	Cars	Trucks	Total	Cars	Trucks	Total	Cars	Trucks	Total	
12:00 AM	20	3	23	5	1	6	15	2	17	11.8%
1:00 AM	7	0	7	4	0	4	3	0	3	0.0%
2:00 AM	7	7	14	5	3	8	2	4	6	66.7%
3:00 AM	6	0	6	6	0	6	0	0	0	0.0%
4:00 AM	21	0	21	16	0	16	5	0	5	0.0%
5:00 AM	42	27	69	17	23	40	25	4	29	13.8%
6:00 AM	174	105	279	77	101	178	97	4	101	4.0%
7:00 AM	197	185	382	62	153	215	135	32	167	19.2%
8:00 AM	229	204	433	61	170	231	168	34	202	16.8%
9:00 AM	198	212	410	68	161	229	130	51	181	28.2%
10:00 AM	163	225	388	60	174	234	103	51	154	33.1%
11:00 AM	165	227	392	60	173	233	105	54	159	34.0%
12:00 PM	192	206	398	56	155	211	136	51	187	27.3%
1:00 PM	253	191	444	69	126	195	184	65	249	26.1%
2:00 PM	241	142	383	55	98	153	186	44	230	19.1%
3:00 PM	226	69	295	82	33	115	144	36	180	20.0%
4:00 PM	149	71	220	40	18	58	109	53	162	32.7%
5:00 PM	195	32	227	49	6	55	146	26	172	15.1%
6:00 PM	166	28	194	32	11	43	134	17	151	11.3%
7:00 PM	85	19	104	13	6	19	72	13	85	15.3%
8:00 PM	55	16	71	9	1	10	46	15	61	24.6%
9:00 PM	41	4	45	12	2	14	29	2	31	6.5%
10:00 PM	51	13	64	11	1	12	40	12	52	23.1%
11:00 PM	21	4	25	5	3	8	16	1	17	5.9%
<b>TOTAL</b>			<b>4,894</b>			<b>2,293</b>		<b>571</b>	<b>2,601</b>	<b>22.0%</b>
Average of the two days										
Time	NW 25 Street East of Beacon Lakes East Driveway			NW 25 Street West of Beacon Lakes West Driveway			Vehicles to/from Beacon Lakes			% Trucks
	Cars	Trucks	Total	Cars	Trucks	Total	Cars	Trucks	Total	
12:00 AM	22	8	30	6	4	10	16	4	20	20.0%
1:00 AM	7	6	13	5	5	10	2	1	3	20.0%
2:00 AM	8	10	18	7	8	15	1	2	3	66.7%
3:00 AM	9	7	15	7	6	12	2	1	3	33.3%
4:00 AM	19	8	27	16	7	23	3	1	4	14.3%
5:00 AM	40	28	68	18	26	44	22	2	24	8.3%
6:00 AM	172	107	279	76	97	172	96	10	106	9.4%
7:00 AM	213	174	387	71	149	219	143	26	168	15.2%
8:00 AM	247	199	446	59	161	220	188	38	226	16.9%
9:00 AM	182	209	391	64	159	223	118	50	168	29.9%
10:00 AM	154	217	371	70	163	232	85	54	139	39.0%
11:00 AM	152	214	366	62	159	221	90	55	145	37.9%
12:00 PM	212	193	405	63	147	210	149	47	195	23.8%
1:00 PM	249	187	435	78	129	207	171	58	228	25.2%
2:00 PM	230	136	365	55	89	143	175	47	222	21.2%
3:00 PM	224	66	290	71	32	103	153	34	187	18.2%
4:00 PM	153	78	231	55	25	79	99	53	152	35.0%
5:00 PM	201	43	243	50	11	61	151	32	182	17.3%
6:00 PM	167	25	192	30	8	38	137	18	154	11.4%
7:00 PM	87	17	104	16	4	19	71	14	85	16.0%
8:00 PM	55	14	69	9	1	10	46	13	59	22.0%
9:00 PM	42	9	51	12	2	14	30	7	37	18.9%
10:00 PM	44	11	55	10	1	11	35	10	44	21.6%
11:00 PM	30	6	36	8	2	10	22	4	26	15.4%
<b>TOTAL</b>			<b>4,878</b>			<b>2,302</b>		<b>577</b>	<b>2,576</b>	<b>22.4%</b>

Adjustment Factor for Heavy Vehicles:  
 $f_{HV} = 1 / (1 + 0.35(1.5 - 1)) = 0.85$   
 As calculated from equation 21-4 in page 21-7 of the HCM 2000