Morton & Morton
Design Services, PLLC

Count Number: 10-08009
County: Dare
City: Kill Devil Hills
Division: 01

Morton & Morton
Design Sevices, PLLC
Traffic Engineering

12-Hour Count Volume: 29,062 vehicles

Intersection: US 158 (South Croatan Highway) at Neptune Drive

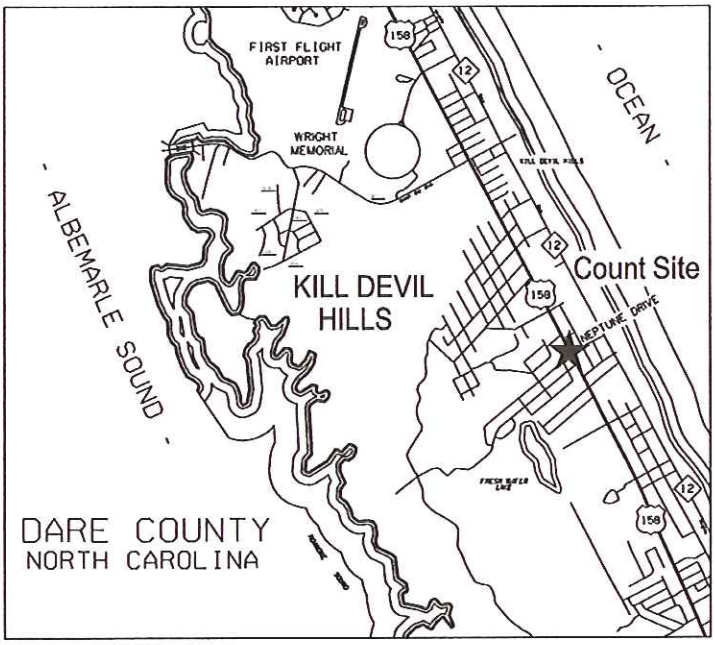
Count Date	Count Time	Weather Conditions
Monday, May 31, 2010	6:00 A.M. to 7:00 P.M.	Morning-Sunny, Afternoon-Sunny Hot Evening-Sunny Warm

Comments

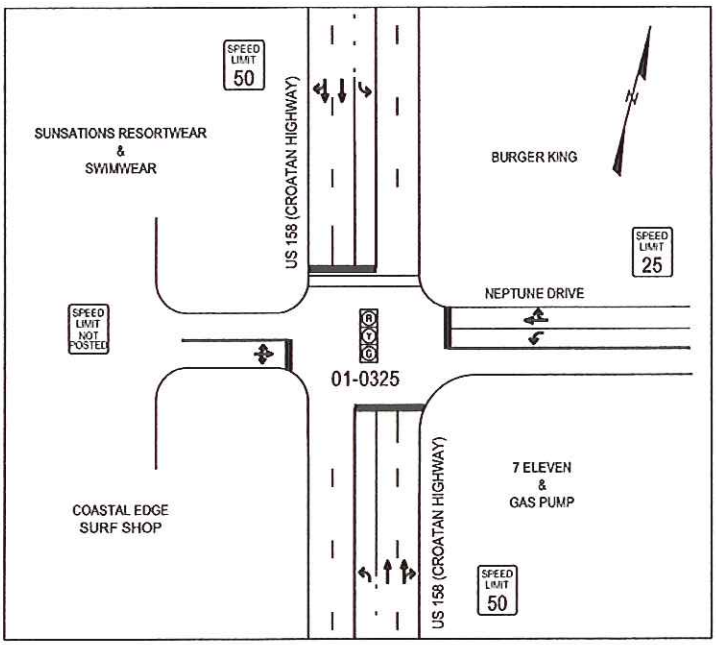
1 School was not in session
2 Pedestrian movements are tabulated under the approach that they cross
3 Counted by: Anthony Dudley
Linsey Morton
4 Data Processor: Donald Morton
5 Break Times: 2:30 to 3:00 P.M.
6 Interpolated values for these intervals
7 Scheduled Break: 9:00 to 10:00 A.M.
8 Signalized intersection left turn treatments

Southbound	Protected/Permitted
Westbound	Permitted
Northbound	Protected/Permitted
Eastbound	Permitted

9 Traffic Signal Inventory No.: 01-0325



Vicinity Map



Intersection Sketch

9121 Anson Way, Suite 101 Raleigh, NC 27615 Phone 919-882-6066 Fax 919-256-7609

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Count Number 10-08009
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City Kill Devil Hills
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Intersection US 158 (South Croatan Hwy) at Neptune Drive

US 158 Northbound – Looking North toward Neptune Drive

US 158 Northbound – Looking South away from Neptune Drive

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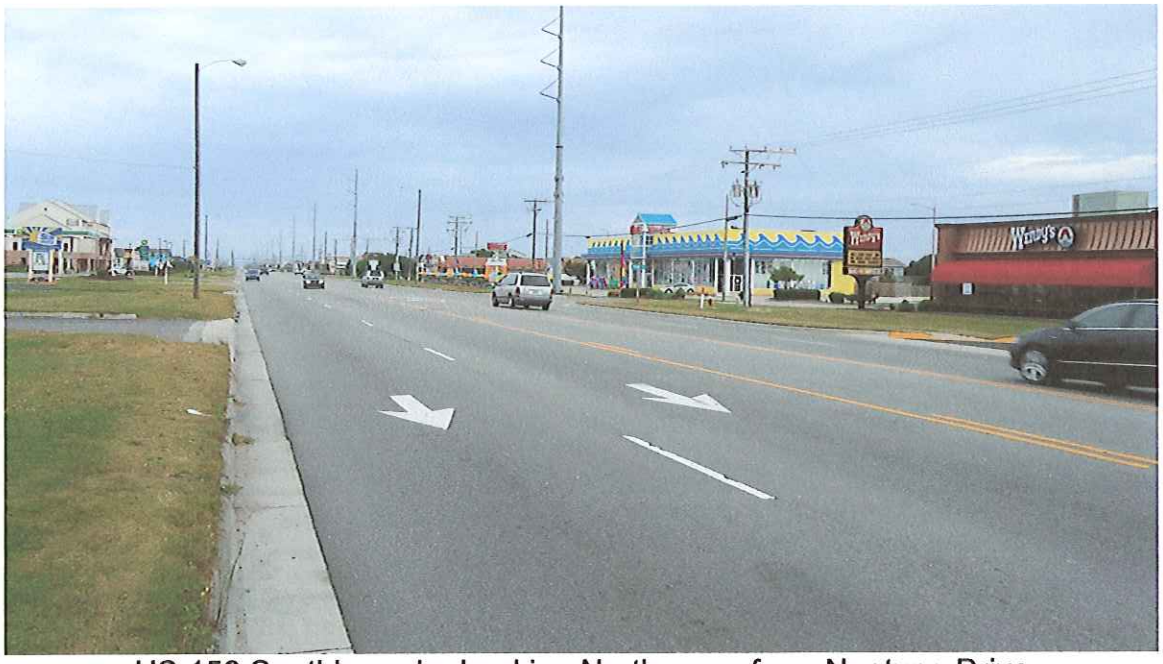
Intersection US 158 (South Croatan Hwy) at Neptune Drive

US 158 Southbound – Looking South toward Neptune Drive



US 158 Southbound – Looking North away from Neptune Drive

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Count Number 10-08009
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City Kill Devil Hills
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Intersection US 158 (South Croatan Hwy) at Neptune Drive

Neptune Drive Eastbound – Looking East toward US 158

Neptune Drive Eastbound – Looking West away from US 158

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Intersection US 158 (South Croatan Hwy) at Neptune Drive

Neptune Drive Westbound – Looking West toward US 158

Neptune Drive Westbound – Looking East away from US 158

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File Name : 10-08009
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Groups Printed- All Traffic

	US 158 (South Croatan Hwy) Southbound				Neptune Drive Westbound				US 158 (South Croatan Hwy) Northbound				Neptune Drive Eastbound						
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	2	53	0	0	2	0	2	0	0	29	1	0	0	0	0	1	1	89	90
06:15 AM	3	54	0	2	2	0	7	0	0	57	2	0	0	0	0	0	2	125	127
06:30 AM	10	81	0	0	3	0	8	0	0	77	1	0	0	0	0	0	0	180	180
06:45 AM	4	117	0	0	2	0	2	0	0	84	3	0	0	0	0	2	2	212	214
Total	19	305	0	2	9	0	19	0	0	247	7	0	0	0	0	3	5	606	611
07:00 AM	1	86	0	0	5	0	3	0	0	100	3	0	0	0	0	0	0	198	198
07:15 AM	5	108	1	0	2	0	6	0	0	126	3	0	0	0	0	0	0	251	251
07:30 AM	6	124	0	2	3	0	11	0	0	114	2	0	0	0	0	1	3	260	263
07:45 AM	8	141	0	0	18	0	12	2	0	144	3	0	0	0	0	1	3	326	329
Total	20	459	1	2	28	0	32	2	0	484	11	0	0	0	0	2	6	1035	1041
08:00 AM	8	148	0	0	16	0	18	0	0	160	7	0	0	0	0	0	0	357	357
08:15 AM	8	192	1	0	19	0	12	0	0	192	6	0	0	0	0	0	0	430	430
08:30 AM	15	216	0	0	10	1	19	0	3	211	6	0	0	0	0	0	0	481	481
08:45 AM	5	265	1	0	19	0	22	1	1	255	5	0	2	0	0	0	1	575	576
Total	36	821	2	0	64	1	71	1	4	818	24	0	2	0	0	0	1	1843	1844
*** BREAK ***																			
10:00 AM	3	292	6	0	31	0	22	2	2	269	13	2	0	0	2	0	4	640	644
10:15 AM	13	336	5	0	31	1	36	0	3	349	17	0	4	0	4	0	0	799	799
10:30 AM	7	334	7	3	25	1	30	0	0	350	13	0	0	1	0	0	3	768	771
10:45 AM	14	353	10	0	34	3	24	5	4	387	8	4	3	2	2	0	9	844	853
Total	37	1315	28	3	121	5	112	7	9	1355	51	6	7	3	8	0	16	3051	3067
11:00 AM	20	340	2	2	39	3	33	2	2	347	13	0	5	1	3	4	8	808	816
11:15 AM	11	366	4	0	31	1	29	1	2	354	6	0	2	1	2	0	1	809	810
11:30 AM	10	322	5	0	29	1	19	1	2	395	5	0	4	1	4	0	1	797	798
11:45 AM	14	306	8	7	26	2	23	0	1	461	8	0	7	2	6	0	7	864	871
Total	55	1334	19	9	125	7	104	4	7	1557	32	0	18	5	15	4	17	3278	3295
12:00 PM	11	319	6	1	28	2	23	0	2	392	5	3	3	1	4	2	6	796	802
12:15 PM	7	348	5	3	28	1	24	0	0	403	12	0	2	0	3	0	3	833	836
12:30 PM	12	362	5	0	29	0	23	0	4	419	9	0	5	4	2	1	1	874	875
12:45 PM	2	260	6	0	19	2	22	0	2	403	13	0	8	0	2	0	0	739	739
Total	32	1289	22	4	104	5	92	0	8	1617	39	3	18	5	11	3	10	3242	3252
01:00 PM	12	288	3	2	20	1	29	1	3	369	6	0	4	1	3	3	6	739	745
01:15 PM	10	268	5	1	15	0	17	2	6	399	10	0	8	0	1	0	3	739	742
01:30 PM	8	309	5	0	22	0	21	1	4	408	9	1	2	1	0	0	2	789	791
01:45 PM	14	263	5	4	29	0	25	0	1	373	18	7	6	0	3	0	11	737	748
Total	44	1128	18	7	86	1	92	4	14	1549	43	8	20	2	7	3	22	3004	3026
02:00 PM	9	273	3	0	15	4	18	0	3	358	11	0	7	0	1	0	0	702	702
02:15 PM	8	233	2	2	27	2	28	2	4	320	10	2	7	1	4	1	7	646	653
02:30 PM	9	229	3	1	24	4	23	2	2	337	9	1	5	3	3	1	5	651	656
02:45 PM	10	224	4	0	20	5	18	2	0	355	9	0	4	3	2	0	2	654	656
Total	36	959	12	3	86	15	87	6	9	1370	39	3	23	7	10	2	14	2653	2667

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Groups Printed- All Traffic

	US 158 (South Croatan Hwy) Southbound				Neptune Drive Westbound				US 158 (South Croatan Hwy) Northbound				Neptune Drive Eastbound						
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
03:00 PM	11	219	5	0	17	7	13	2	0	372	8	0	2	5	1	0	2	660	662
03:15 PM	14	258	3	2	19	0	17	0	4	372	10	0	5	1	1	2	4	704	708
03:30 PM	6	264	4	0	13	1	17	0	1	371	14	0	6	0	2	0	0	699	699
03:45 PM	5	277	7	0	20	0	26	0	1	379	3	0	3	0	0	1	1	721	722
Total	36	1018	19	2	69	8	73	2	6	1494	35	0	16	6	4	3	7	2784	2791
04:00 PM	4	244	1	1	15	0	15	0	1	381	10	0	1	0	1	0	1	673	674
04:15 PM	8	229	7	0	25	0	15	2	4	353	5	2	0	0	0	0	4	646	650
04:30 PM	9	258	2	1	9	4	17	0	2	421	5	7	1	1	4	0	8	733	741
04:45 PM	14	233	4	0	19	3	18	2	1	343	16	0	2	1	2	0	2	656	658
Total	35	964	14	2	68	7	65	4	8	1498	36	9	4	2	7	0	15	2708	2723
05:00 PM	14	263	4	4	15	0	15	5	0	365	13	1	6	0	2	0	10	697	707
05:15 PM	9	217	0	0	22	1	14	1	2	381	11	0	1	0	2	0	1	660	661
05:30 PM	11	218	2	0	14	0	16	0	6	334	11	0	1	1	2	0	0	616	616
05:45 PM	7	244	1	0	16	0	27	0	0	329	8	0	3	0	1	0	0	636	636
Total	41	942	7	4	67	1	72	6	8	1409	43	1	11	1	7	0	11	2609	2620
06:00 PM	6	235	1	1	13	2	12	0	1	315	8	7	2	0	1	0	8	596	604
06:15 PM	5	174	2	0	10	0	14	0	0	312	4	0	2	0	0	0	0	523	523
06:30 PM	4	213	5	0	11	1	17	5	0	298	2	0	3	1	0	0	5	555	560
06:45 PM	3	203	2	6	20	0	8	0	0	323	14	0	2	0	0	0	6	575	581
Total	18	825	10	7	54	3	51	5	1	1248	28	7	9	1	1	0	19	2249	2268
Grand Total	409	11359	152	45	881	53	870	41	74	14646	388	37	128	32	70	20	143	29062	29205
Apprch %	3.4	95.3	1.3		48.8	2.9	48.2		0.5	96.9	2.6		55.7	13.9	30.4				
Total %	1.4	39.1	0.5		3	0.2	3		0.3	50.4	1.3		0.4	0.1	0.2		0.5	99.5	

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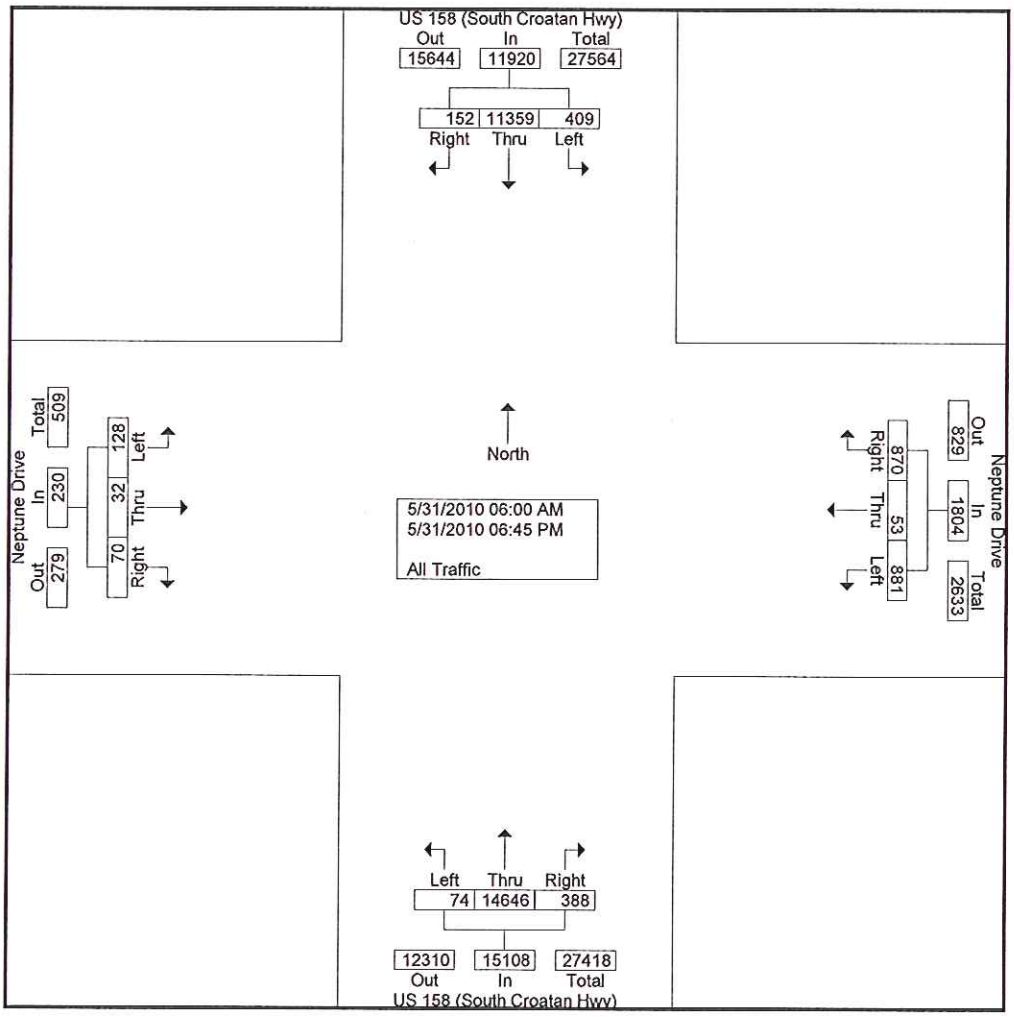
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total



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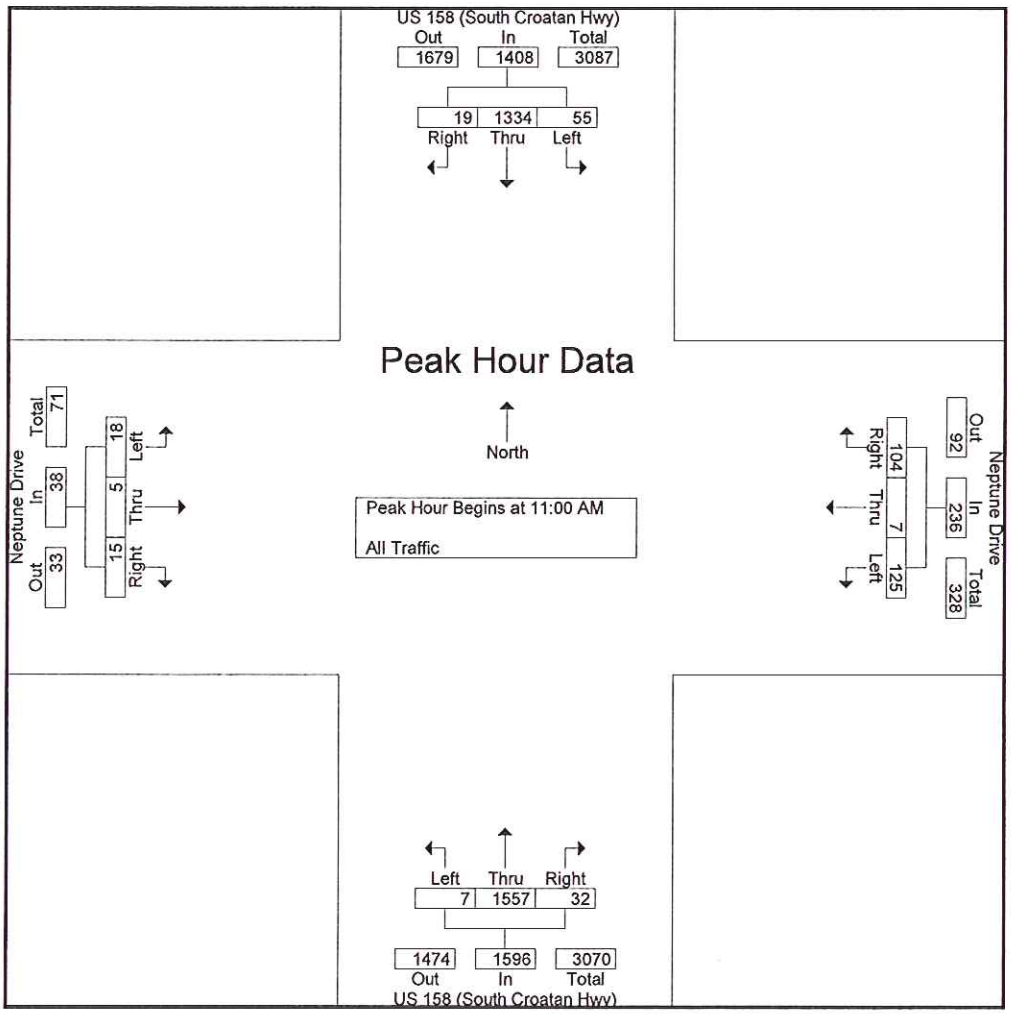
	US 158 (South Croatan Hwy) Southbound				Neptune Drive Westbound				US 158 (South Croatan Hwy) Northbound				Neptune Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 11:00 AM																	
11:00 AM	**20**	340	2	362	**39**	**3**	**33**	**75**	**2**	347	**13**	362	5	1	3	9	808
11:15 AM	11	**366**	4	**381**	31	1	29	61	2	354	6	362	2	1	2	5	809
11:30 AM	10	322	5	337	29	1	19	49	2	395	5	402	4	1	4	9	797
11:45 AM	14	306	**8**	328	26	2	23	51	1	**461**	8	**470**	**7**	**2**	**6**	**15**	**864**
Total Volume	55	1334	19	1408	125	7	104	236	7	1557	32	1596	18	5	15	38	3278
% App. Total	3.9	94.7	1.3		53	3	44.1		0.4	97.6	2		47.4	13.2	39.5		
PHF	.688	.911	.594	.924	.801	.583	.788	.787	.875	.844	.615	.849	.643	.625	.625	.633	.948



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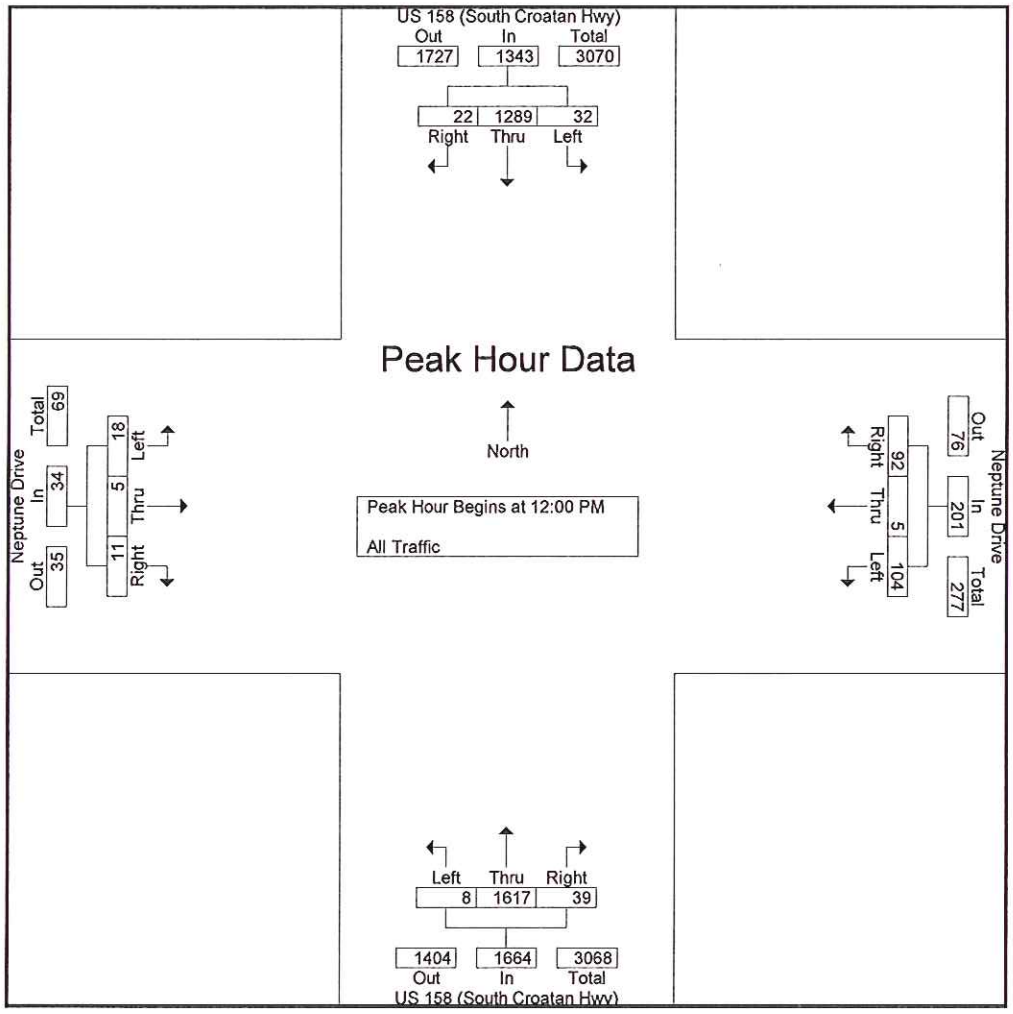
	US 158 (South Croatan Hwy) Southbound				Neptune Drive Westbound				US 158 (South Croatan Hwy) Northbound				Neptune Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 12:00 PM																	
12:00 PM	11	319	**6**	336	28	**2**	23	**53**	2	392	5	399	3	1	**4**	8	796
12:15 PM	7	348	5	360	28	1	**24**	53	0	403	12	415	2	0	3	5	833
12:30 PM	**12**	**362**	5	**379**	**29**	0	23	52	**4**	**419**	9	**432**	5	**4**	2	**11**	**874**
12:45 PM	2	260	6	268	19	2	22	43	2	403	**13**	418	**8**	0	2	10	739
Total Volume	32	1289	22	1343	104	5	92	201	8	1617	39	1664	18	5	11	34	3242
% App. Total	2.4	96	1.6		51.7	2.5	45.8		0.5	97.2	2.3		52.9	14.7	32.4		
PHF	.667	.890	.917	.886	.897	.625	.958	.948	.500	.965	.750	.963	.563	.313	.688	.773	.927