Morton & Morton
Design Services, PLLC

Count Number: 10-08012
County: Dare
City: Kill Devil Hills
Division: 01

Morton & Morton
Design Sevices, PLLC
Traffic Engineering

12-Hour Count Volume: 33,641 vehicles

Intersection: US 158 (South Croatan Highway) at Ocean Acres Drive

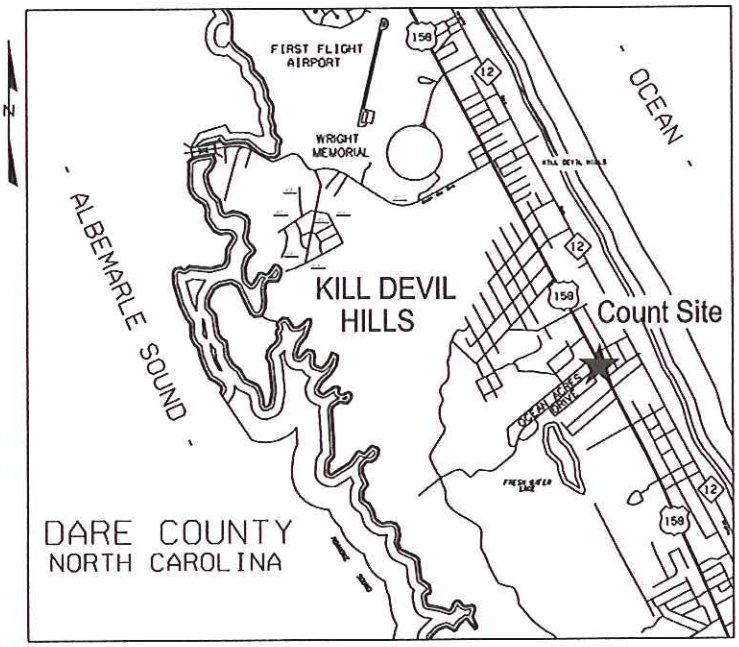
Count Date	Count Time	Weather Conditions
Saturday, May 29, 2010	6:00 A.M. to 7:00 P.M.	Morning-Mostly Cloudy, Afternoon-Partly Cloudy Evening-Partly Cloudy

Comments

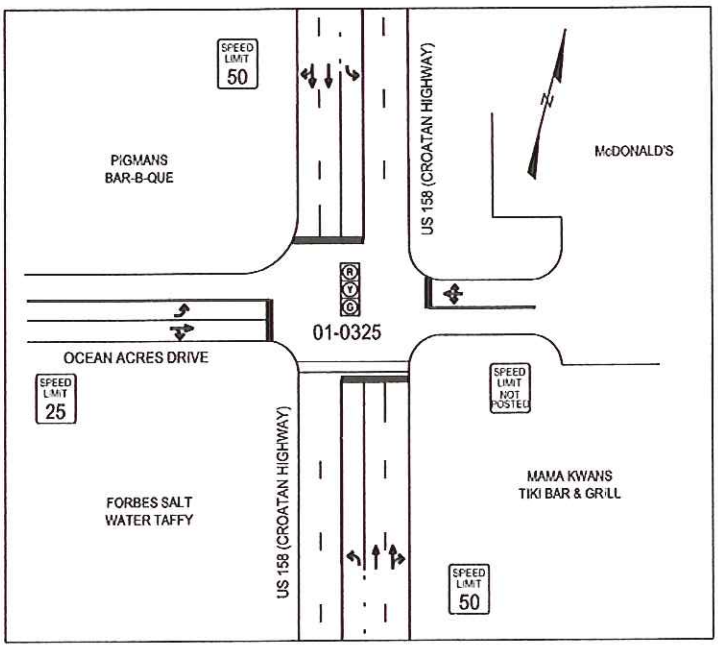
1 School was not in session
2 Pedestrian movements are tabulated under the approach that they cross
3 Counted by: Jeanell Morton
William Dudley
4 Data Processor: Donald Morton
5 Break Times: 2:30 to 3:00 P.M.
6 Interpolated values for these intervals
7 Scheduled Break: 9:00 to 10:00 A.M.
8 Signalized 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 10-08012
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Intersection US 158 (South Croatan Hwy) at Ocean Acres Drive

US 158 Northbound – Looking North toward Ocean Acres Drive

US 158 Northbound – Looking South away from Ocean Acres Drive

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Intersection US 158 (South Croatan Hwy) at Ocean Acres Drive

US 158 Southbound – Looking South toward Ocean Acres Drive

US 158 Southbound – Looking North away from Ocean Acres Drive

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Intersection US 158 (South Croatan Hwy) at Ocean Acres Drive

Ocean Acres Drive Eastbound – Looking East toward US 158

Ocean Acres Drive Eastbound – Looking West away from US 158

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Intersection US 158 (South Croatan Hwy) at Ocean Acres Drive

Ocean Acres Drive Westbound – Looking West toward US 158

Ocean Acres Drive Westbound – Looking East away from US 158

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Groups Printed- All Traffic

	US 158 (South Croatan Hwy) Southbound				Ocean Acres Drive Westbound				US 158 (South Croatan Hwy) Northbound				Ocean Acres 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	6	72	0	0	3	0	2	0	0	39	10	0	2	0	2	1	1	136	137
06:15 AM	6	58	0	0	4	0	0	1	0	53	3	0	5	0	1	1	2	130	132
06:30 AM	3	85	2	0	1	0	0	0	1	65	13	0	5	1	2	0	0	178	178
06:45 AM	4	138	1	0	2	0	2	1	1	76	7	0	2	1	1	1	2	235	237
Total	19	353	3	0	10	0	4	2	2	233	33	0	14	2	6	3	5	679	684
07:00 AM	2	99	0	0	5	1	1	0	0	89	12	0	1	0	3	0	0	213	213
07:15 AM	5	141	2	0	6	0	2	1	1	122	15	0	4	2	4	1	2	304	306
07:30 AM	11	125	4	0	2	1	6	0	4	132	13	0	11	0	3	0	0	312	312
07:45 AM	12	171	4	0	7	0	4	2	3	186	19	2	3	1	4	3	7	414	421
Total	30	536	10	0	20	2	13	3	8	529	59	2	19	3	14	4	9	1243	1252
08:00 AM	7	182	9	0	9	0	3	0	3	181	11	0	9	1	2	1	1	417	418
08:15 AM	13	211	3	0	5	1	9	1	4	224	19	1	6	1	3	3	5	499	504
08:30 AM	15	250	5	0	3	0	5	0	1	180	15	0	7	0	9	2	2	490	492
08:45 AM	19	296	8	1	12	1	4	2	6	266	23	0	6	2	11	4	7	654	661
Total	54	939	25	1	29	2	21	3	14	851	68	1	28	4	25	10	15	2060	2075
*** BREAK ***																			
10:00 AM	12	406	13	0	11	0	2	4	9	322	21	0	13	2	7	7	11	818	829
10:15 AM	15	394	8	0	9	0	3	0	7	334	23	0	16	1	14	1	1	824	825
10:30 AM	5	407	13	0	3	0	4	0	6	364	22	1	10	4	9	1	2	847	849
10:45 AM	4	427	8	0	4	2	8	0	16	341	12	0	10	1	16	0	0	849	849
Total	36	1634	42	0	27	2	17	4	38	1361	78	1	49	8	46	9	14	3338	3352
11:00 AM	14	450	11	0	5	1	3	0	8	383	10	2	7	2	7	0	2	901	903
11:15 AM	9	392	10	0	2	0	10	0	10	321	15	1	9	1	8	1	2	787	789
11:30 AM	7	453	12	0	6	2	3	1	8	403	10	3	9	2	7	0	4	922	926
11:45 AM	13	459	5	0	3	0	4	0	9	350	19	1	11	3	7	0	1	883	884
Total	43	1754	38	0	16	3	20	1	35	1457	54	7	36	8	29	1	9	3493	3502
12:00 PM	10	399	13	0	4	0	9	0	20	310	13	1	6	3	17	0	1	804	805
12:15 PM	10	420	7	0	10	2	4	1	9	397	9	2	21	1	16	1	4	906	910
12:30 PM	9	434	5	0	6	3	6	0	6	347	17	0	11	1	10	0	0	855	855
12:45 PM	7	389	8	0	7	3	7	0	11	331	18	0	10	7	11	0	0	809	809
Total	36	1642	33	0	27	8	26	1	46	1385	57	3	48	12	54	1	5	3374	3379
01:00 PM	5	453	9	0	4	3	4	0	9	364	14	2	14	2	12	0	2	893	895
01:15 PM	9	439	8	0	3	2	4	0	9	366	16	1	8	4	16	1	2	884	886
01:30 PM	5	425	6	0	5	5	6	1	10	335	14	2	14	1	7	0	3	833	836
01:45 PM	10	406	9	0	4	2	4	0	5	333	9	2	13	0	14	0	2	809	811
Total	29	1723	32	0	16	12	18	1	33	1398	53	7	49	7	49	1	9	3419	3428
02:00 PM	13	389	7	0	6	3	3	1	8	328	11	1	13	0	5	2	4	786	790
02:15 PM	7	418	11	0	10	2	2	0	4	365	11	0	13	1	7	0	0	851	851
02:30 PM	7	403	10	0	10	2	2	0	5	359	10	0	10	1	9	0	0	828	828
02:45 PM	7	387	10	0	9	1	3	0	6	353	9	1	8	1	10	0	1	804	805
Total	34	1597	38	0	35	8	10	1	23	1405	41	2	44	3	31	2	5	3269	3274

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Groups Printed- All Traffic

	US 158 (South Croatan Hwy) Southbound				Ocean Acres Drive Westbound				US 158 (South Croatan Hwy) Northbound				Ocean Acres 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	7	372	9	0	9	1	3	0	7	347	8	2	5	1	12	0	2	781	783
03:15 PM	4	380	6	0	5	2	1	2	11	329	12	3	8	0	8	2	7	766	773
03:30 PM	6	430	9	0	2	0	4	0	10	370	7	1	10	5	19	0	1	872	873
03:45 PM	7	453	7	1	4	2	2	0	9	372	7	2	9	0	13	0	3	885	888
Total	24	1635	31	1	20	5	10	2	37	1418	34	8	32	6	52	2	13	3304	3317
04:00 PM	4	439	6	0	3	1	1	1	13	328	7	3	11	1	7	0	4	821	825
04:15 PM	3	443	11	0	4	0	1	0	2	366	7	1	13	5	10	1	2	865	867
04:30 PM	7	447	10	0	6	1	2	0	8	323	9	2	13	3	11	0	2	840	842
04:45 PM	4	398	8	0	2	5	0	0	11	331	10	1	9	2	10	0	1	790	791
Total	18	1727	35	0	15	7	4	1	34	1348	33	7	46	11	38	1	9	3316	3325
05:00 PM	6	409	12	0	0	1	1	0	13	369	9	2	8	0	3	0	2	831	833
05:15 PM	3	369	6	0	1	0	0	0	13	346	2	2	7	0	7	1	3	754	757
05:30 PM	10	361	9	0	1	0	2	1	9	375	4	3	12	2	16	0	4	801	805
05:45 PM	8	376	7	0	2	0	1	0	22	325	5	4	14	0	5	0	4	765	769
Total	27	1515	34	0	4	1	4	1	57	1415	20	11	41	2	31	1	13	3151	3164
06:00 PM	5	331	14	0	1	0	3	0	12	340	9	0	10	0	10	0	0	735	735
06:15 PM	8	343	6	0	3	0	2	0	6	328	7	0	11	2	13	1	1	729	730
06:30 PM	8	385	12	0	9	1	4	0	16	321	7	3	10	0	5	0	3	778	781
06:45 PM	4	340	10	0	3	0	4	0	12	358	6	2	8	0	8	0	2	753	755
Total	25	1399	42	0	16	1	13	0	46	1347	29	5	39	2	36	1	6	2995	3001
Grand Total	375	16454	363	2	235	51	160	20	373	14147	559	54	445	68	411	36	112	33641	33753
Apprch %	2.2	95.7	2.1		52.7	11.4	35.9		2.5	93.8	3.7		48.2	7.4	44.5				
Total %	1.1	48.9	1.1		0.7	0.2	0.5		1.1	42.1	1.7		1.3	0.2	1.2		0.3	99.7	

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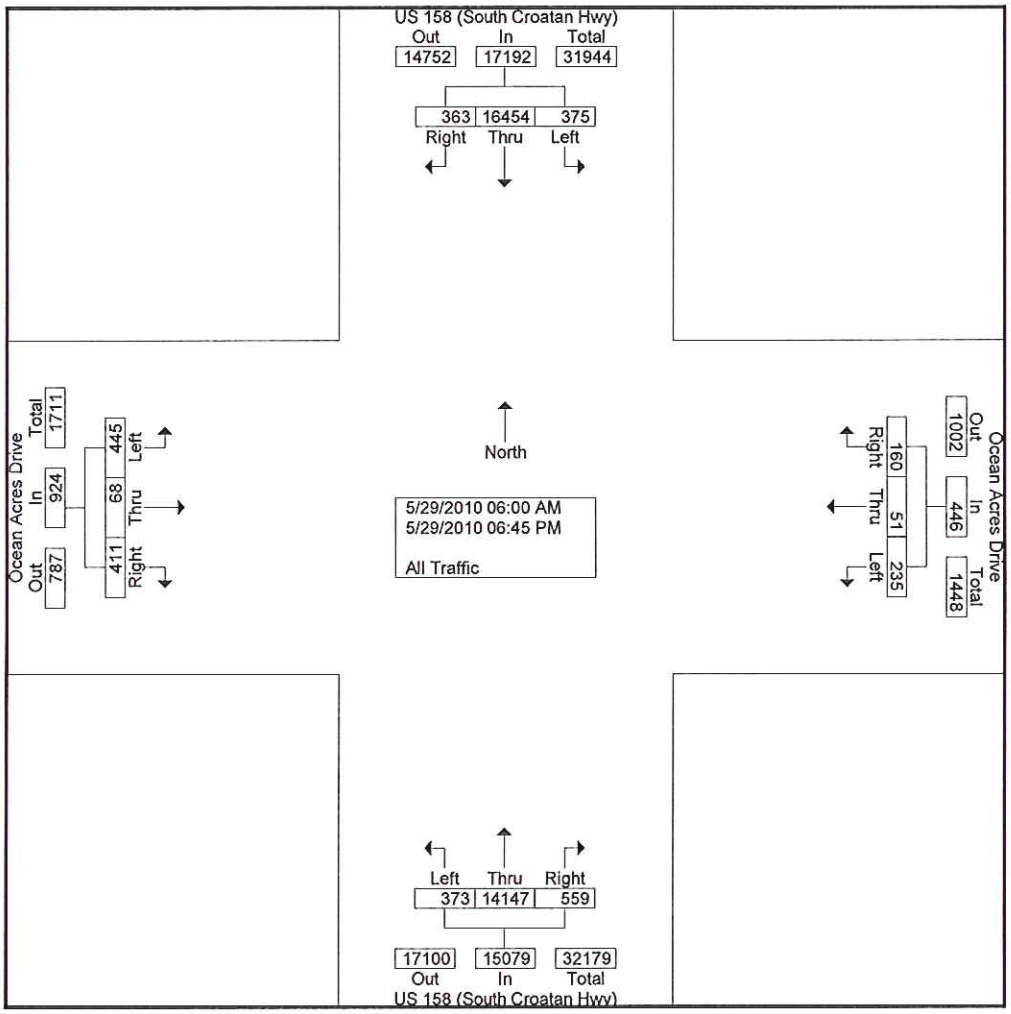
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total



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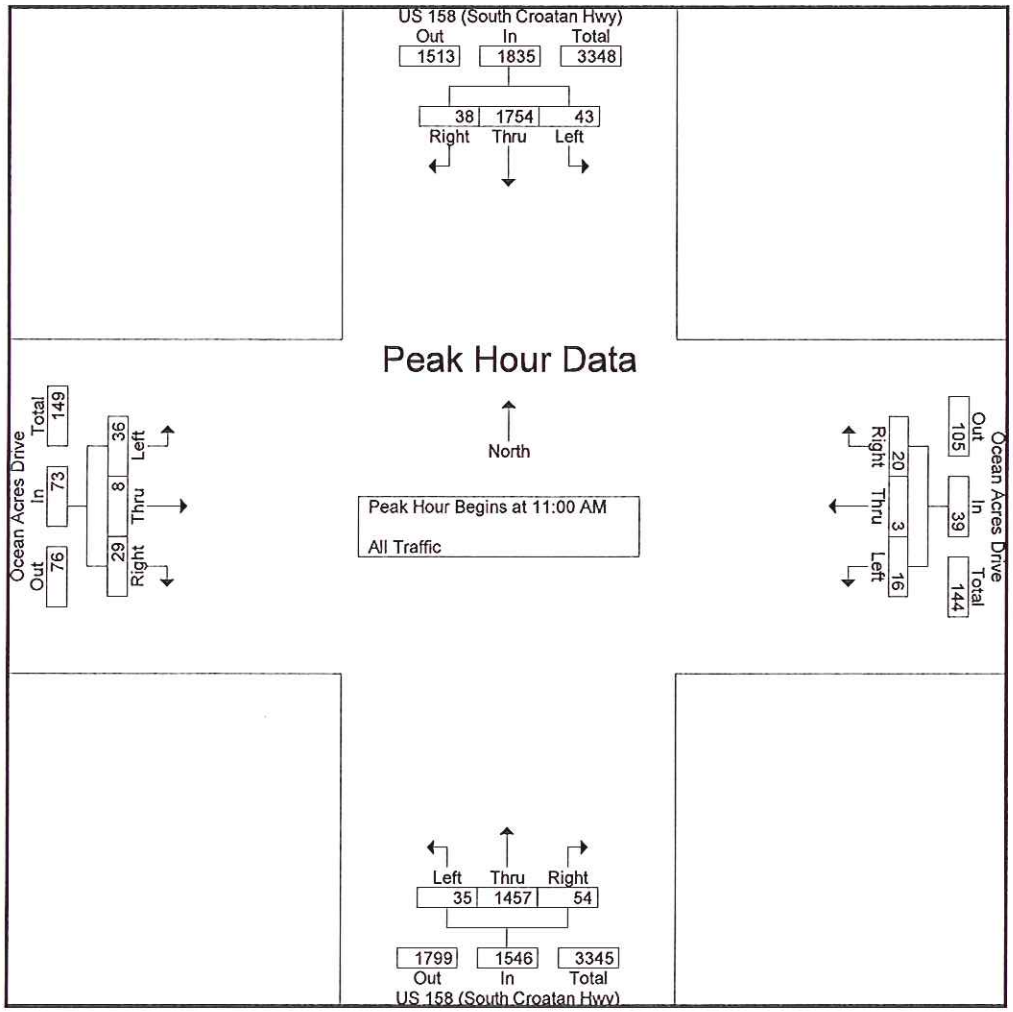
	US 158 (South Croatan Hwy) Southbound				Ocean Acres Drive Westbound				US 158 (South Croatan Hwy) Northbound				Ocean Acres Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 11:00 AM																	
11:00 AM	**14**	450	11	475	5	1	3	9	8	383	10	401	7	2	7	16	901
11:15 AM	9	392	10	411	2	0	**10**	**12**	**10**	321	15	346	9	1	**8**	18	787
11:30 AM	7	453	**12**	472	**6**	**2**	3	11	8	**403**	10	**421**	9	2	7	18	**922**
11:45 AM	13	**459**	5	**477**	3	0	4	7	9	350	**19**	378	**11**	**3**	7	**21**	883
Total Volume	43	1754	38	1835	16	3	20	39	35	1457	54	1546	36	8	29	73	3493
% App. Total	2.3	95.6	2.1		41	7.7	51.3		2.3	94.2	3.5		49.3	11	39.7		
PHF	.768	.955	.792	.962	.667	.375	.500	.813	.875	.904	.711	.918	.818	.667	.906	.869	.947



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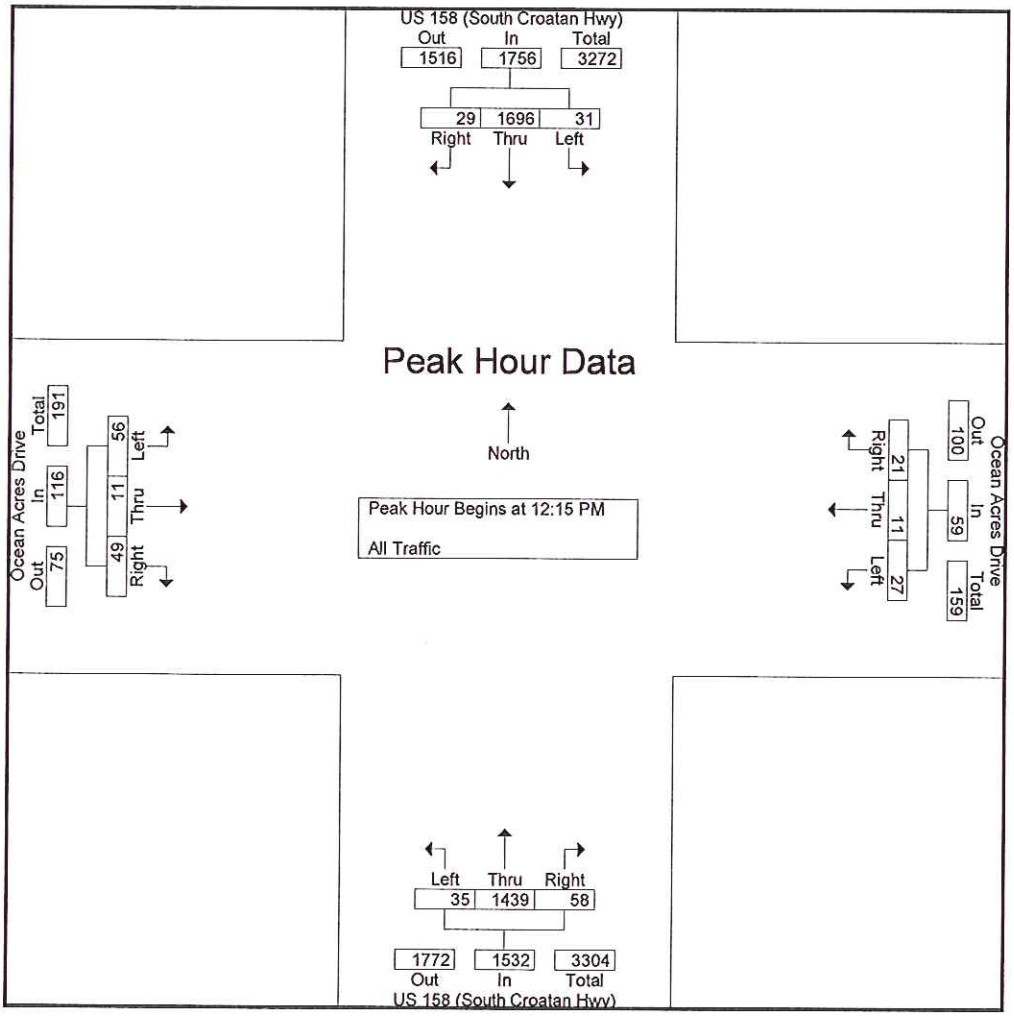
	US 158 (South Croatan Hwy) Southbound				Ocean Acres Drive Westbound				US 158 (South Croatan Hwy) Northbound				Ocean Acres Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 12:15 PM																	
12:15 PM	**10**	420	7	437	**10**	2	4	16	9	**397**	9	**415**	**21**	1	**16**	**38**	**906**
12:30 PM	9	434	5	448	6	**3**	6	15	6	347	17	370	11	1	10	22	855
12:45 PM	7	389	8	404	7	3	**7**	**17**	**11**	331	**18**	360	10	**7**	11	28	809
01:00 PM	5	**453**	**9**	**467**	4	3	4	11	9	364	14	387	14	2	12	28	893
Total Volume	31	1696	29	1756	27	11	21	59	35	1439	58	1532	56	11	49	116	3463
% App. Total	1.8	96.6	1.7		45.8	18.6	35.6		2.3	93.9	3.8		48.3	9.5	42.2		
PHF	.775	.936	.806	.940	.675	.917	.750	.868	.795	.906	.806	.923	.667	.393	.766	.763	.956