Morton & Morton
Design Services, PLLC

Count Number: 10-08011

County: Dare

City: Kill Devil Hills

Division: 01

Morton & Morton
Design Sevices, PLLC
Traffic Engineering

12-Hour Count Volume: 30,056 vehicles

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

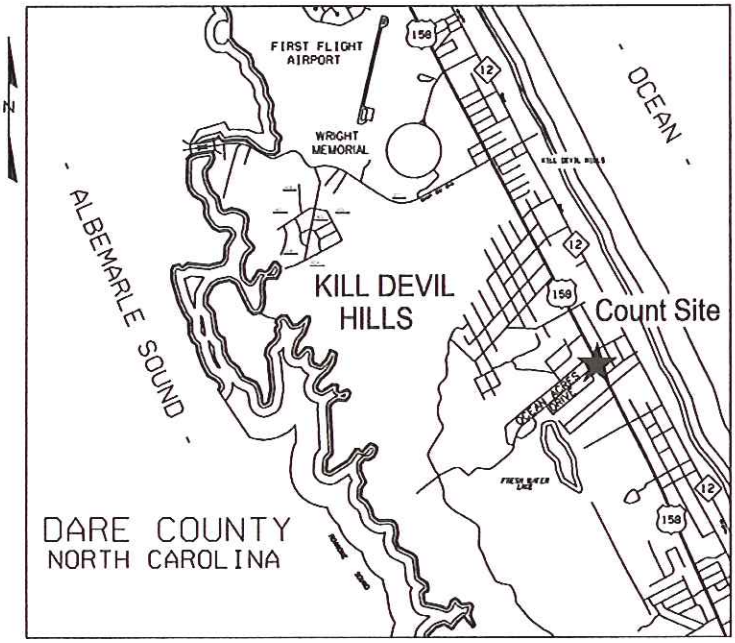
Count Date	Count Time	Weather Conditions
Sunday, May 30, 2010	6:00 A.M. to 7:00 P.M.	Morning-Sunny, Afternoon-Sunny Hot Evening-Sunny Warm

Comments

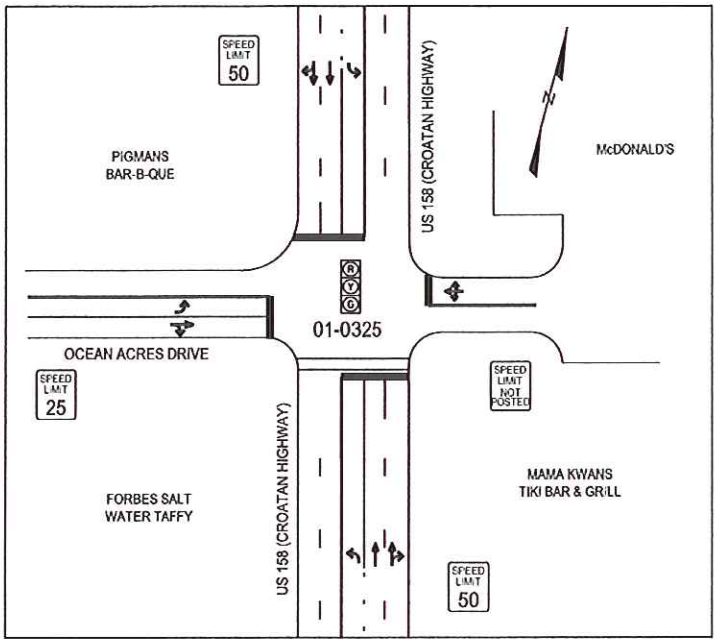
1 School was not in session
2 Pedestrian movements are tabulated under the approach that they cross
3 Counted by: Jeanell Morton
William Dudley
4 Data Processor: Donald Morton
5 Break Times: 2:30 to 3:00 P.M.
6 Interpolated values for these intervals
7 Scheduled Break: 9:00 to 10:00 A.M.
8 Signalized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

Morton & Morton
Design Services, PLLC

Count Number 10-08011
County Dare
City Kill Devil Hills
Division 01

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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Design Services, PLLC

Count Number 10-08011
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City Kill Devil Hills
Division 01

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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Design Services, PLLC

Count Number 10-08011
County Dare
City Kill Devil Hills
Division 01

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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File Name : 10-08011
Site Code : 00008011
Start Date : 5/30/2010
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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	3	45	0	0	0	0	0	1	0	41	4	1	0	1	0	0	2	94	96
06:15 AM	4	59	0	0	3	0	2	0	0	48	4	0	3	0	0	0	0	123	123
06:30 AM	3	73	0	0	1	1	0	1	0	52	9	0	3	0	0	0	1	142	143
06:45 AM	7	92	1	0	3	0	6	0	1	64	5	0	4	1	2	2	2	186	188
Total	17	269	1	0	7	1	8	2	1	205	22	1	10	2	2	2	5	545	550
07:00 AM	3	72	1	0	3	0	4	0	0	98	8	0	3	0	1	0	0	193	193
07:15 AM	8	80	2	0	3	0	0	0	1	80	11	0	3	0	4	0	0	192	192
07:30 AM	14	133	1	0	6	0	1	0	4	103	8	0	2	1	4	1	1	277	278
07:45 AM	7	139	1	1	6	0	3	2	1	119	12	2	5	0	1	2	7	294	301
Total	32	424	5	1	18	0	8	2	6	400	39	2	13	1	10	3	8	956	964
08:00 AM	11	142	2	0	3	0	1	0	1	128	11	0	2	0	5	0	0	306	306
08:15 AM	7	178	7	0	6	0	4	0	4	153	18	0	4	2	2	3	3	385	388
08:30 AM	13	191	3	0	6	0	3	1	4	160	11	2	6	1	10	2	5	408	413
08:45 AM	9	265	6	1	6	0	1	1	3	208	19	1	5	3	4	1	4	529	533
Total	40	776	18	1	21	0	9	2	12	649	59	3	17	6	21	6	12	1628	1640
*** BREAK ***																			
10:00 AM	6	404	6	1	10	1	3	1	4	249	20	1	5	1	6	2	5	715	720
10:15 AM	10	415	8	0	4	0	3	2	4	308	22	2	5	2	15	5	9	796	805
10:30 AM	6	474	12	0	10	0	2	0	2	333	18	2	2	0	6	3	5	865	870
10:45 AM	6	433	5	0	5	2	5	0	6	322	9	0	14	1	14	0	0	822	822
Total	28	1726	31	1	29	3	13	3	16	1212	69	5	26	4	41	10	19	3198	3217
11:00 AM	7	418	8	0	6	1	2	0	8	292	15	0	7	0	4	1	1	768	769
11:15 AM	6	400	12	0	8	0	5	0	1	332	7	0	9	1	4	1	1	785	786
11:30 AM	12	400	13	0	5	0	3	1	9	292	12	0	13	1	15	0	1	775	776
11:45 AM	7	394	4	0	8	1	4	0	14	358	10	1	12	0	10	1	2	822	824
Total	32	1612	37	0	27	2	14	1	32	1274	44	1	41	2	33	3	5	3150	3155
12:00 PM	7	312	6	0	4	1	2	0	15	374	9	0	14	1	9	0	0	754	754
12:15 PM	5	402	4	2	7	3	2	0	21	372	17	0	16	1	13	0	2	863	865
12:30 PM	6	349	3	2	4	1	4	3	7	339	6	5	18	0	11	0	10	748	758
12:45 PM	4	311	8	0	4	1	3	0	14	352	13	0	8	6	6	0	0	730	730
Total	22	1374	21	4	19	6	11	3	57	1437	45	5	56	8	39	0	12	3095	3107
01:00 PM	15	349	8	0	3	0	0	0	8	316	17	0	19	0	11	1	1	746	747
01:15 PM	8	285	11	0	4	0	7	0	8	325	11	0	13	1	16	3	3	689	692
01:30 PM	5	394	7	1	6	1	3	2	12	304	11	0	12	0	8	2	5	763	768
01:45 PM	7	290	6	1	6	2	2	0	9	345	9	0	11	0	9	2	3	696	699
Total	35	1318	32	2	19	3	12	2	37	1290	48	0	55	1	44	8	12	2894	2906
02:00 PM	10	378	11	0	5	0	4	1	6	324	8	2	15	1	9	5	8	771	779
02:15 PM	4	299	12	1	8	0	1	0	12	343	14	0	5	3	7	0	1	708	709
02:30 PM	6	303	11	1	6	0	3	0	12	335	13	0	9	2	9	0	1	709	710
02:45 PM	8	307	10	1	4	1	3	0	11	327	12	0	11	1	11	0	1	706	707
Total	28	1287	44	3	23	1	11	1	41	1329	47	2	40	7	36	5	11	2894	2905

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Start Date : 5/30/2010
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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	10	311	9	1	2	2	5	0	11	319	11	0	15	0	13	0	1	708	709
03:15 PM	9	301	8	0	8	1	4	2	7	373	9	5	15	1	16	2	9	752	761
03:30 PM	4	336	6	3	2	0	4	1	11	341	9	3	14	1	14	6	13	742	755
03:45 PM	9	340	10	0	2	1	1	3	14	382	7	4	12	1	11	0	7	790	797
Total	32	1288	33	4	14	4	14	6	43	1415	36	12	56	3	54	8	30	2992	3022
04:00 PM	9	301	10	2	7	0	5	0	12	392	13	1	14	1	17	1	4	781	785
04:15 PM	4	358	11	3	7	1	6	1	14	346	4	0	5	2	9	3	7	767	774
04:30 PM	6	282	11	0	3	1	3	1	7	341	10	0	6	1	8	3	4	679	683
04:45 PM	11	318	7	2	3	1	3	0	7	361	11	1	8	1	6	0	3	737	740
Total	30	1259	39	7	20	3	17	2	40	1440	38	2	33	5	40	7	18	2964	2982
05:00 PM	2	321	7	1	4	0	2	0	6	369	7	0	10	0	10	1	2	738	740
05:15 PM	7	279	14	0	1	1	3	0	5	387	10	0	7	0	8	0	0	722	722
05:30 PM	6	300	4	0	2	2	0	4	4	302	5	6	17	3	19	1	11	664	675
05:45 PM	9	279	5	0	4	1	2	0	7	374	9	0	7	1	5	2	2	703	705
Total	24	1179	30	1	11	4	7	4	22	1432	31	6	41	4	42	4	15	2827	2842
06:00 PM	5	299	10	0	2	1	0	1	3	370	15	3	11	1	6	0	4	723	727
06:15 PM	4	306	8	0	4	0	2	0	6	422	9	0	9	2	11	0	0	783	783
06:30 PM	5	289	12	0	5	1	1	0	7	374	7	0	9	1	9	2	2	720	722
06:45 PM	7	305	6	1	2	0	8	1	10	323	12	1	8	0	6	0	3	687	690
Total	21	1199	36	1	13	2	11	2	26	1489	43	4	37	4	32	2	9	2913	2922
Grand Total	341	13711	327	25	221	29	135	30	333	13572	521	43	425	47	394	58	156	30056	30212
Apprch %	2.4	95.4	2.3		57.4	7.5	35.1		2.3	94.1	3.6		49.1	5.4	45.5				
Total %	1.1	45.6	1.1		0.7	0.1	0.4		1.1	45.2	1.7		1.4	0.2	1.3		0.5	99.5	

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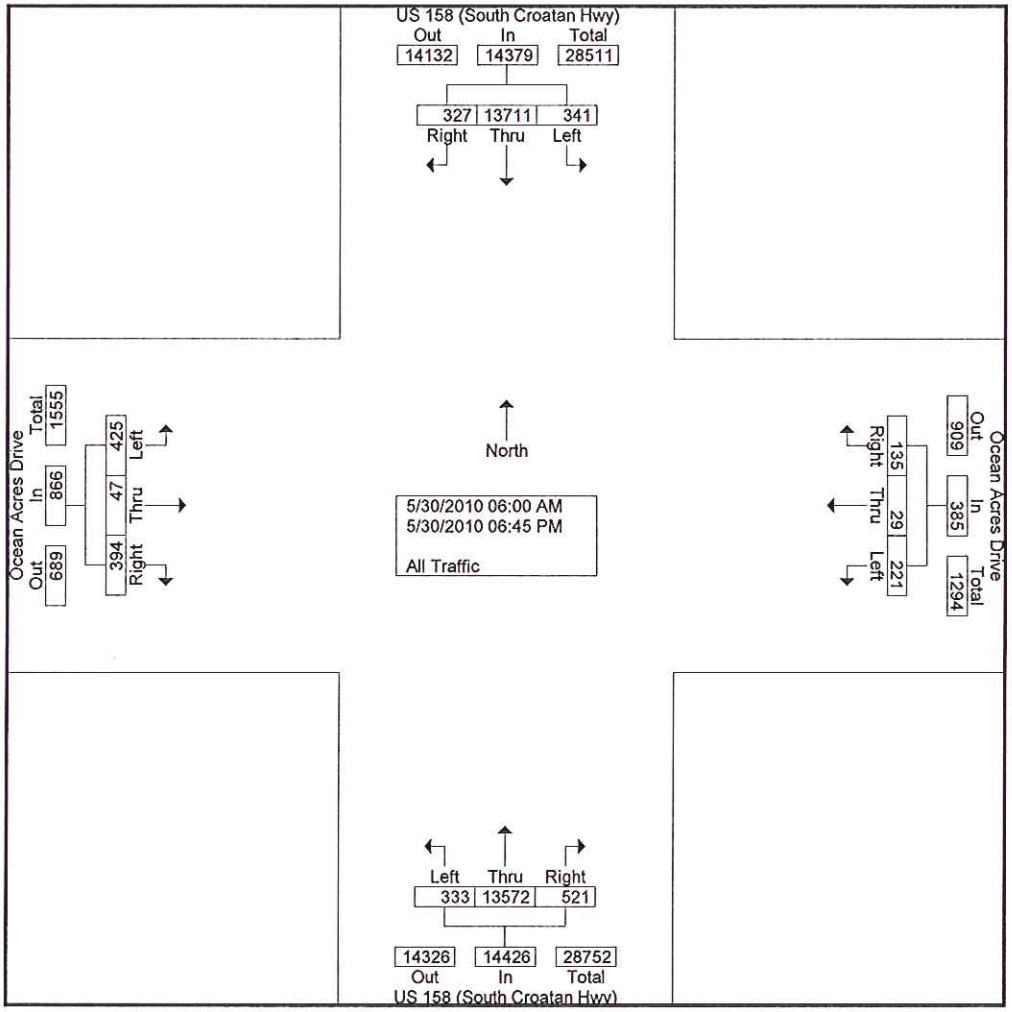
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total



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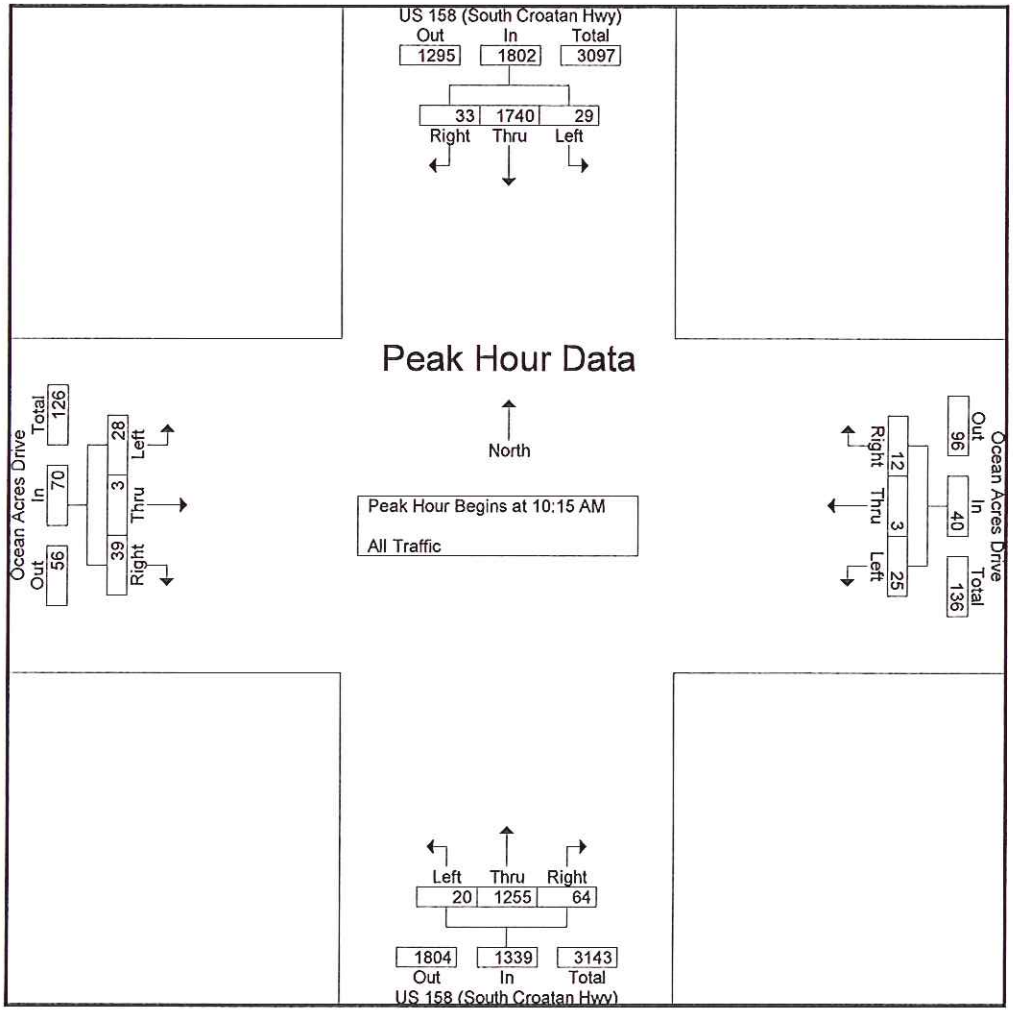
	US 158 (South Croatan Hwy) Southbound				Ocean Acres Drive Westbound				US 158 (South Croatan Hwy) Northbound				Ocean Acres Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:15 AM																	
10:15 AM	**10**	415	8	433	4	0	3	7	4	308	**22**	334	5	**2**	**15**	22	796
10:30 AM	6	**474**	**12**	**492**	**10**	0	2	**12**	2	**333**	18	**353**	2	0	6	8	**865**
10:45 AM	6	433	5	444	5	**2**	**5**	12	6	322	9	337	**14**	1	14	**29**	822
11:00 AM	7	418	8	433	6	1	2	9	**8**	292	15	315	7	0	4	11	768
Total Volume	29	1740	33	1802	25	3	12	40	20	1255	64	1339	28	3	39	70	3251
% App. Total	1.6	96.6	1.8		62.5	7.5	30		1.5	93.7	4.8		40	4.3	55.7		
PHF	.725	.918	.688	.916	.625	.375	.600	.833	.625	.942	.727	.948	.500	.375	.650	.603	.940



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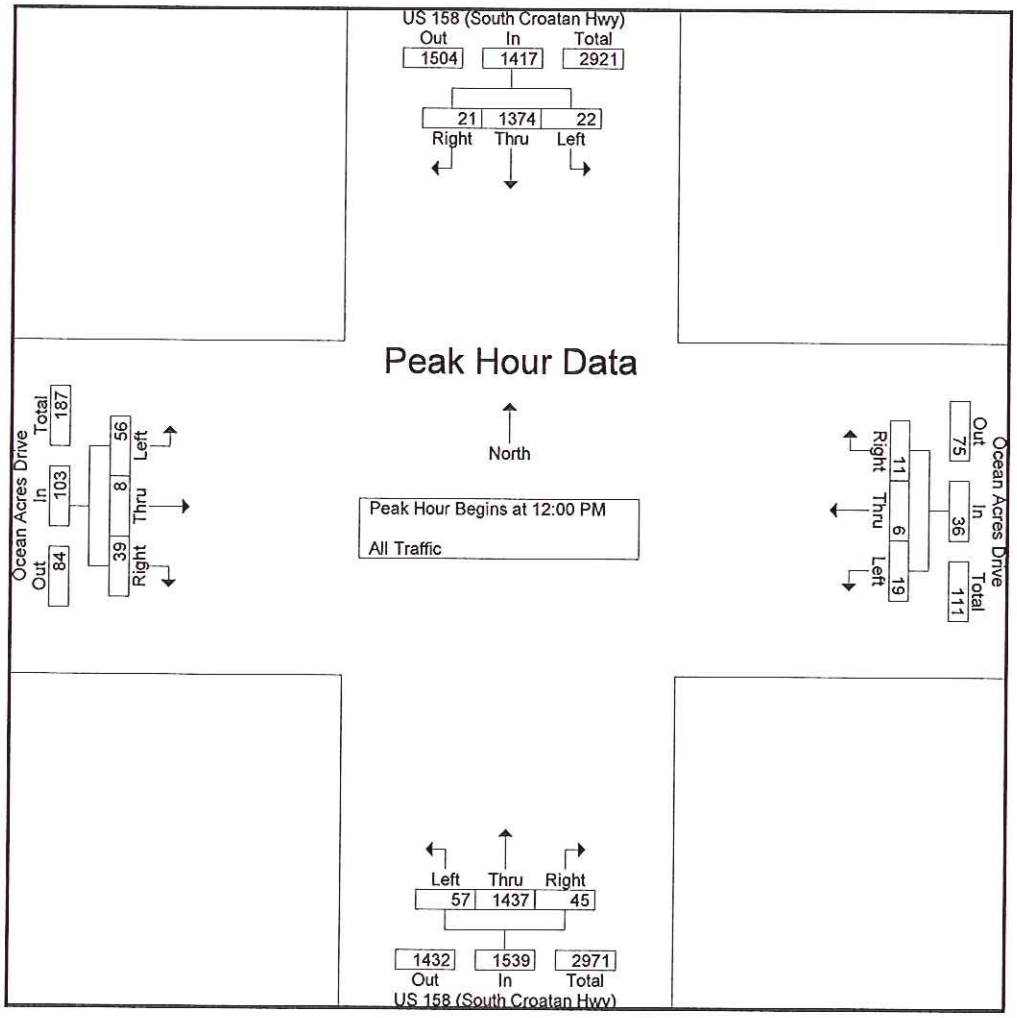
	US 158 (South Croatan Hwy) Southbound				Ocean Acres Drive Westbound				US 158 (South Croatan Hwy) Northbound				Ocean Acres Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 12:00 PM																	
12:00 PM	**7**	312	6	325	4	1	2	7	15	**374**	9	398	14	1	9	24	754
12:15 PM	5	**402**	4	**411**	**7**	**3**	2	**12**	**21**	372	**17**	**410**	16	1	**13**	**30**	**863**
12:30 PM	6	349	3	358	4	1	**4**	9	7	339	6	352	**18**	0	11	29	748
12:45 PM	4	311	**8**	323	4	1	3	8	14	352	13	379	8	**6**	6	20	730
Total Volume	22	1374	21	1417	19	6	11	36	57	1437	45	1539	56	8	39	103	3095
% App. Total	1.6	97	1.5		52.8	16.7	30.6		3.7	93.4	2.9		54.4	7.8	37.9		
PHF	.786	.854	.656	.862	.679	.500	.688	.750	.679	.961	.662	.938	.778	.333	.750	.858	.897