DAVENPORT
TRANSPORTATION CONSULTING

Home Office:
305 West Fourth Street, Suite 2A (27101)
P.O. Box 4131, Winston-Salem, NC 27115-4131
Main: 336.744.1636 Fax: 336.458.9377

Count Number: 12-02175
Division: 1
County: Dare
City: Kitty Hawk

Intersection: US 158 (North Croatan Highway) at SR 1493/Welcome Center

13-hour traffic volume: 21,714

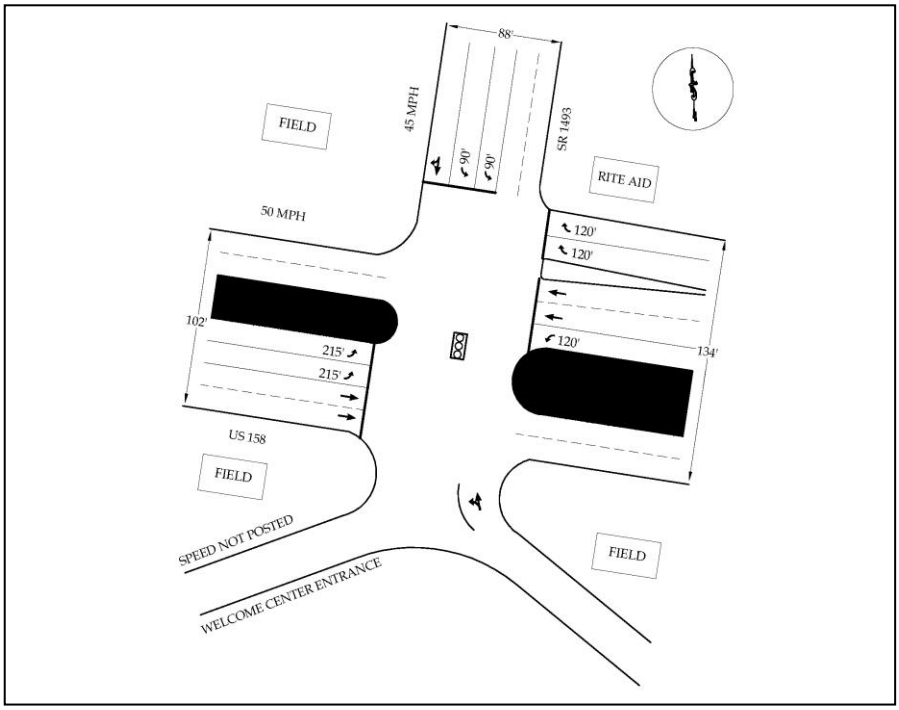
	Day 1
Count Date:	4/4/2012
Count Time:	6:00am-7:00pm
Weather Conditions:	Clear during the day, started raining at 6:00 pm
Milepost:	3.050
Precipitation %:	80%

Comments:

1. Counted By: L. Reid
2. Data Processor: C. Reich
3. Method Used: Jamar DB 400 Intersection Counter
4. Equipment Operating Properly: Yes
5. School in Session: No
6. Break Times: 4/4/2012, 3:45 pm to 4:00 pm, and 6:00 pm to 6:15 pm
7. Area Lighting Present: Yes
8. Traffic Control: Signal
9. Signal Cabinet Number: 01-0316
10. Signal Phases: 5 phase
11. Disabled Pedestrians: N/A
12. Construction Present: No
13. Traffic Flow Disruption: N/A
14. 4 vehicles counted making a northbound right at the intersection, the rest gained access to US 158 using On-Ramp

Vicinity Map

Intersection Sketch



Davenport Transportation Consulting

305 West Fourth Street
Winston-Salem, NC 27101
(336) 744-1636

Counted By: L. Reid

File Name : 12-02175
Site Code : 01202175
Start Date : 4/4/2012
Page No : 1

Weather: AM-Clear, PM-Rain

Groups Printed- All Vehicles

	SR 1493 Southbound					US 158 Westbound					Welcome Center Driveway Northbound					US 158 Eastbound							
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	9	0	0	0	9	1	39	8	0	48	0	0	0	0	0	9	29	0	0	38	0	95	95
06:15 AM	4	1	0	0	5	0	40	12	0	52	0	0	0	0	0	17	36	0	0	53	0	110	110
06:30 AM	8	2	1	0	11	0	52	19	0	71	0	0	0	0	0	16	43	0	0	59	0	141	141
06:45 AM	8	0	0	0	8	1	78	27	0	106	0	0	0	0	0	19	82	0	0	101	0	215	215
Total	29	3	1	0	33	2	209	66	0	277	0	0	0	0	0	61	190	0	0	251	0	561	561
07:00 AM	11	3	0	0	14	0	54	9	0	63	1	0	0	0	1	16	21	0	0	37	0	115	115
07:15 AM	14	0	6	0	20	0	61	19	0	80	0	0	0	0	0	14	30	0	0	44	0	144	144
07:30 AM	21	0	1	0	22	1	59	31	0	91	0	0	0	0	0	38	64	0	0	102	0	215	215
07:45 AM	20	0	1	0	21	0	60	33	0	93	0	0	0	0	0	31	71	0	0	102	0	216	216
Total	66	3	8	0	77	1	234	92	0	327	1	0	0	0	1	99	186	0	0	285	0	690	690
08:00 AM	23	4	0	0	27	0	96	23	0	119	0	0	0	0	0	28	87	0	0	115	0	261	261
08:15 AM	45	0	1	0	46	0	62	40	0	102	0	0	0	0	0	35	131	0	0	166	0	314	314
08:30 AM	59	0	2	0	61	0	159	54	0	213	0	0	0	0	0	75	140	0	0	215	0	489	489
08:45 AM	46	0	1	0	47	0	183	91	0	274	0	0	0	0	0	72	134	0	0	206	0	527	527
Total	173	4	4	0	181	0	500	208	0	708	0	0	0	0	0	210	492	0	0	702	0	1591	1591
09:00 AM	34	0	1	0	35	0	81	64	1	145	0	0	0	0	0	43	80	0	0	123	1	303	304
09:15 AM	61	0	0	0	61	1	107	50	0	158	0	0	0	0	0	54	53	0	0	107	0	326	326
09:30 AM	44	0	1	0	45	0	148	65	0	213	0	0	0	0	0	73	176	0	0	249	0	507	507
09:45 AM	52	0	2	0	54	0	161	84	0	245	0	0	0	0	0	84	144	0	0	228	0	527	527
Total	191	0	4	0	195	1	497	263	1	761	0	0	0	0	0	254	453	0	0	707	1	1663	1664
10:00 AM	59	0	1	0	60	1	144	76	0	221	0	0	0	0	0	91	132	0	0	223	0	504	504
10:15 AM	67	0	0	0	67	1	152	86	2	239	1	0	0	0	1	104	127	0	0	231	2	538	540
10:30 AM	67	0	1	0	68	1	176	78	0	255	1	0	0	0	1	120	172	0	0	292	0	616	616
10:45 AM	45	0	0	0	45	0	151	81	0	232	0	1	1	0	2	98	143	0	0	241	0	520	520
Total	238	0	2	0	240	3	623	321	2	947	2	1	1	0	4	413	574	0	0	987	2	2178	2180
11:00 AM	64	0	1	0	65	2	121	57	0	180	0	0	0	0	0	80	113	0	0	193	0	438	438
11:15 AM	79	0	0	0	79	2	167	62	0	231	3	0	0	0	3	90	132	0	0	222	0	535	535
11:30 AM	74	0	0	0	74	2	176	73	0	251	2	1	0	0	3	92	143	0	0	235	0	563	563
11:45 AM	66	0	2	0	68	2	135	63	0	200	0	3	1	0	4	81	115	0	0	196	0	468	468
Total	283	0	3	0	286	8	599	255	0	862	5	4	1	0	10	343	503	0	0	846	0	2004	2004
12:00 PM	74	0	2	0	76	3	161	66	0	230	1	0	0	0	1	62	146	0	0	208	0	515	515
12:15 PM	95	1	3	0	99	5	159	56	0	220	2	1	0	0	3	93	184	0	0	277	0	599	599
12:30 PM	83	0	2	0	85	2	153	44	0	199	3	0	0	0	3	51	102	0	0	153	0	440	440
12:45 PM	112	2	4	0	118	1	129	52	0	182	0	1	0	0	1	70	148	0	0	218	0	519	519
Total	364	3	11	0	378	11	602	218	0	831	6	2	0	0	8	276	580	0	0	856	0	2073	2073
01:00 PM	117	1	0	0	118	0	171	53	0	224	3	1	0	0	4	82	143	0	0	225	0	571	571
01:15 PM	87	1	1	0	89	3	148	43	0	194	0	4	0	0	4	71	141	0	0	212	0	499	499
01:30 PM	65	1	1	0	67	0	141	56	0	197	1	0	0	0	1	92	128	0	0	220	0	485	485
01:45 PM	77	0	1	0	78	3	143	43	0	189	1	2	0	0	3	59	123	0	0	182	0	452	452
Total	346	3	3	0	352	6	603	195	0	804	5	7	0	0	12	304	535	0	0	839	0	2007	2007
02:00 PM	73	0	0	0	73	2	192	65	0	259	2	0	0	0	2	98	121	0	0	219	0	553	553
02:15 PM	73	2	0	0	75	1	145	47	0	193	3	0	0	0	3	66	139	0	0	205	0	476	476
02:30 PM	95	2	1	0	98	3	170	67	2	240	2	0	1	0	3	108	158	0	0	266	2	607	609
02:45 PM	79	3	2	0	84	2	156	73	2	231	1	0	0	0	1	133	159	0	0	292	2	608	610
Total	320	7	3	0	330	8	663	252	4	923	8	0	1	0	9	405	577	0	0	982	4	2244	2248
03:00 PM	79	0	2	0	81	1	196	76	0	273	3	2	0	0	5	105	139	0	0	244	0	603	603
03:15 PM	65	1	0	0	66	1	159	50	0	210	1	1	0	0	2	74	153	0	0	227	0	505	505
03:30 PM	74	0	1	0	75	2	125	63	0	190	1	1	0	0	2	69	123	0	0	192	0	459	459
03:45 PM	77	0	2	0	79	1	177	63	0	241	0	1	0	0	1	95	160	0	0	255	0	576	576
Total	295	1	5	0	301	5	657	252	0	914	5	5	0	0	10	343	575	0	0	918	0	2143	2143

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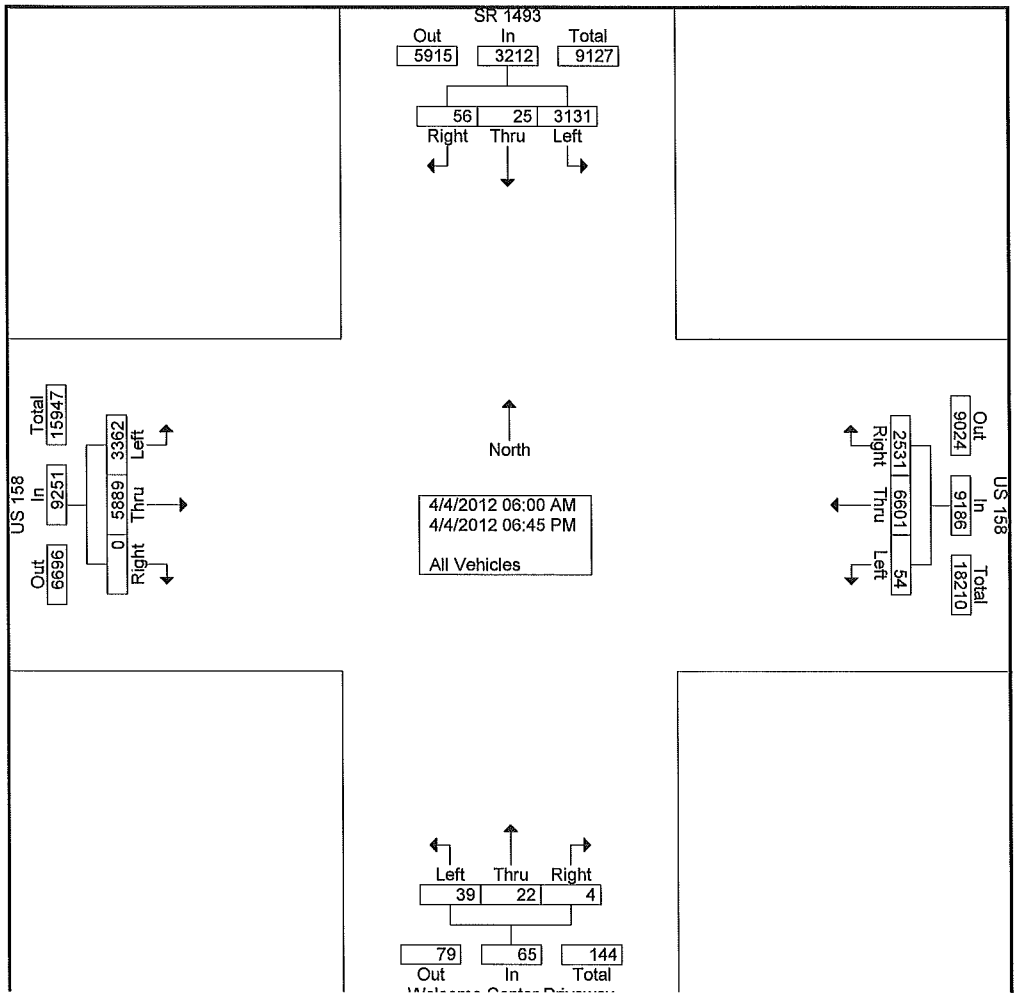
Start Date : 4/4/2012
Page No : 2

Weather: AM-Clear, PM-Rain

Groups Printed- All Vehicles

	SR 1493 Southbound					US 158 Westbound					Welcome Center Driveway Northbound					US 158 Eastbound							
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	65	0	2	0	67	1	98	29	0	128	0	0	0	0	0	48	101	0	0	149	0	344	344
04:15 PM	63	1	1	0	65	1	100	29	0	130	0	0	1	0	1	44	93	0	0	137	0	333	333
04:30 PM	85	0	1	0	86	0	184	56	0	240	0	0	0	0	0	98	138	0	0	236	0	562	562
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	213	1	4	0	218	2	382	114	0	498	0	0	1	0	1	190	332	0	0	522	0	1239	1239
05:00 PM	80	0	3	0	83	2	188	56	0	246	2	1	0	0	3	110	165	0	0	275	0	607	607
05:15 PM	92	0	0	0	92	1	182	55	0	238	1	0	0	0	1	96	151	0	0	247	0	578	578
05:30 PM	77	0	0	0	77	0	111	24	0	135	0	2	0	0	2	55	80	0	0	135	0	349	349
05:45 PM	55	0	0	0	55	1	83	29	0	113	0	0	0	0	0	58	76	0	0	134	0	302	302
Total	304	0	3	0	307	4	564	164	0	732	3	3	0	0	6	319	472	0	0	791	0	1836	1836
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM	112	0	3	0	115	0	190	62	0	252	1	0	0	0	1	81	191	0	0	272	0	640	640
06:30 PM	90	0	1	0	91	0	123	24	0	147	2	0	0	0	2	20	90	0	0	110	0	350	350
06:45 PM	107	0	1	0	108	3	155	45	0	203	1	0	0	0	1	44	139	0	0	183	0	495	495
Total	309	0	5	0	314	3	468	131	0	602	4	0	0	0	4	145	420	0	0	565	0	1485	1485
Grand Total	3131	25	56	0	3212	54	6601	2531	7	9186	39	22	4	0	65	3362	5889	0	0	9251	7	21714	21721
Apprch %	97.5	0.8	1.7			0.6	71.9	27.6			60	33.8	6.2			36.3	63.7	0					
Total %	14.4	0.1	0.3		14.8	0.2	30.4	11.7		42.3	0.2	0.1	0		0.3	15.5	27.1	0		42.6	0	100	



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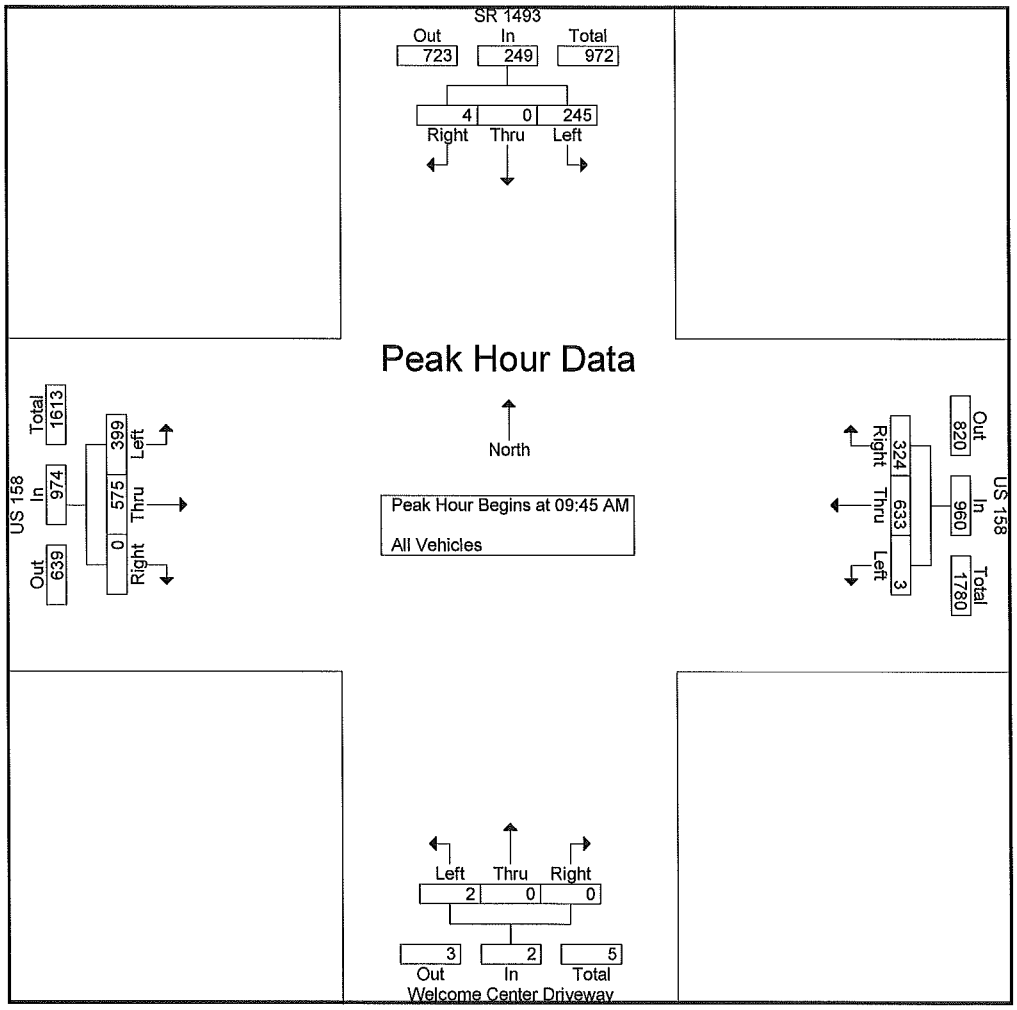
File Name : 12-02175
Site Code : 01202175
Start Date : 4/4/2012
Page No : 3

	SR 1493 Southbound				US 158 Westbound				Welcome Center Driveway Northbound				US 158 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 09:45 AM																	
09:45 AM	52	0	**2**	54	0	161	84	245	0	0	0	0	84	144	0	228	527
10:00 AM	59	0	1	60	**1**	144	76	221	0	0	0	0	91	132	0	223	504
10:15 AM	**67**	0	0	67	1	152	**86**	239	**1**	0	0	**1**	104	127	0	231	538
10:30 AM	67	0	1	**68**	1	**176**	78	**255**	1	0	0	1	**120**	**172**	0	**292**	**616**
Total Volume	245	0	4	249	3	633	324	960	2	0	0	2	399	575	0	974	2185
% App. Total	98.4	0	1.6		0.3	65.9	33.8		100	0	0		41	59	0		
PHF	.914	.000	.500	.915	.750	.899	.942	.941	.500	.000	.000	.500	.831	.836	.000	.834	.887



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File Name : 12-02175
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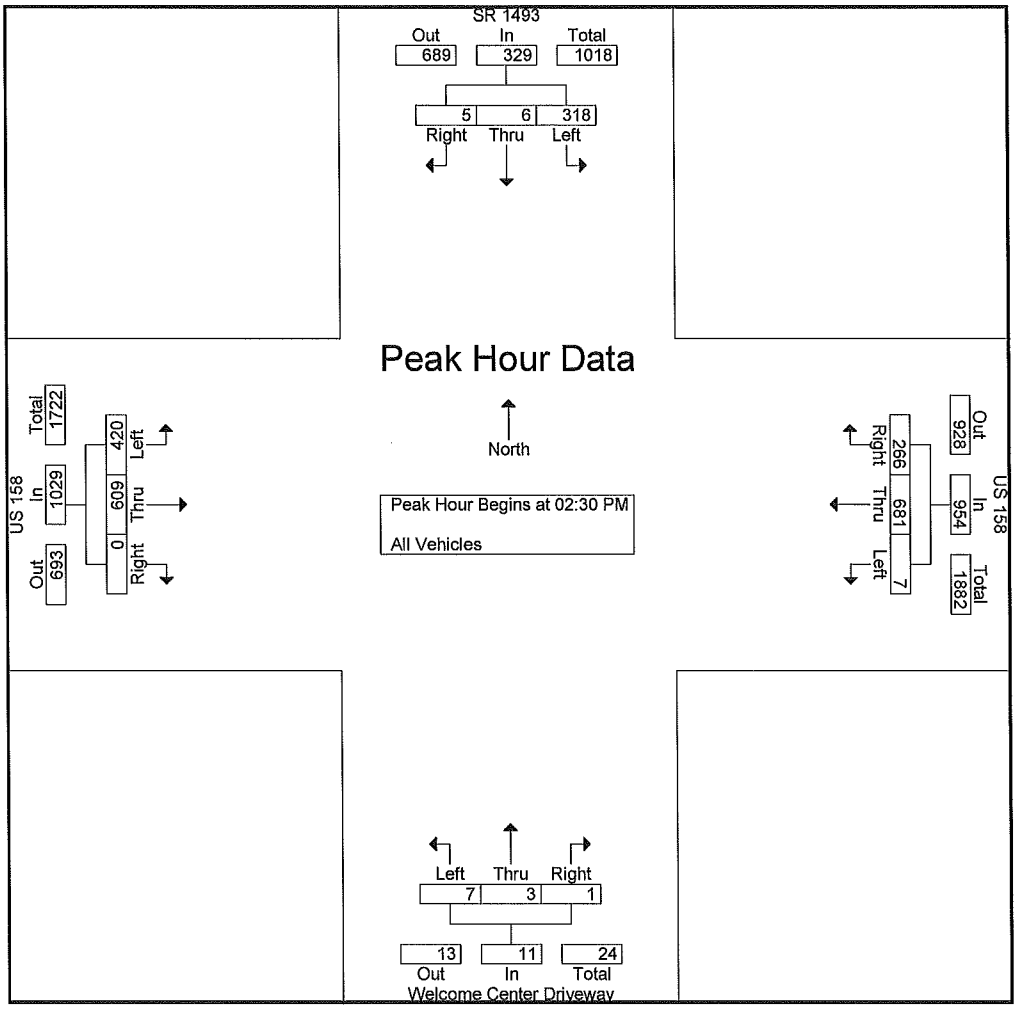
Start Date : 4/4/2012
Page No : 4

	SR 1493 Southbound				US 158 Westbound				Welcome Center Driveway Northbound				US 158 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 02:30 PM																	
02:30 PM	**95**	2	1	**98**	**3**	170	67	240	2	0	**1**	3	108	158	0	266	607
02:45 PM	79	**3**	**2**	84	2	156	73	231	1	0	0	1	**133**	**159**	0	**292**	**608**
03:00 PM	79	0	2	81	1	**196**	**76**	**273**	**3**	**2**	0	**5**	105	139	0	244	603
03:15 PM	65	1	0	66	1	159	50	210	1	1	0	2	74	153	0	227	505
Total Volume	318	6	5	329	7	681	266	954	7	3	1	11	420	609	0	1029	2323
% App. Total	96.7	1.8	1.5		0.7	71.4	27.9		63.6	27.3	9.1		40.8	59.2	0		
PHF	.837	.500	.625	.839	.583	.869	.875	.874	.583	.375	.250	.550	.789	.958	.000	.881	.955

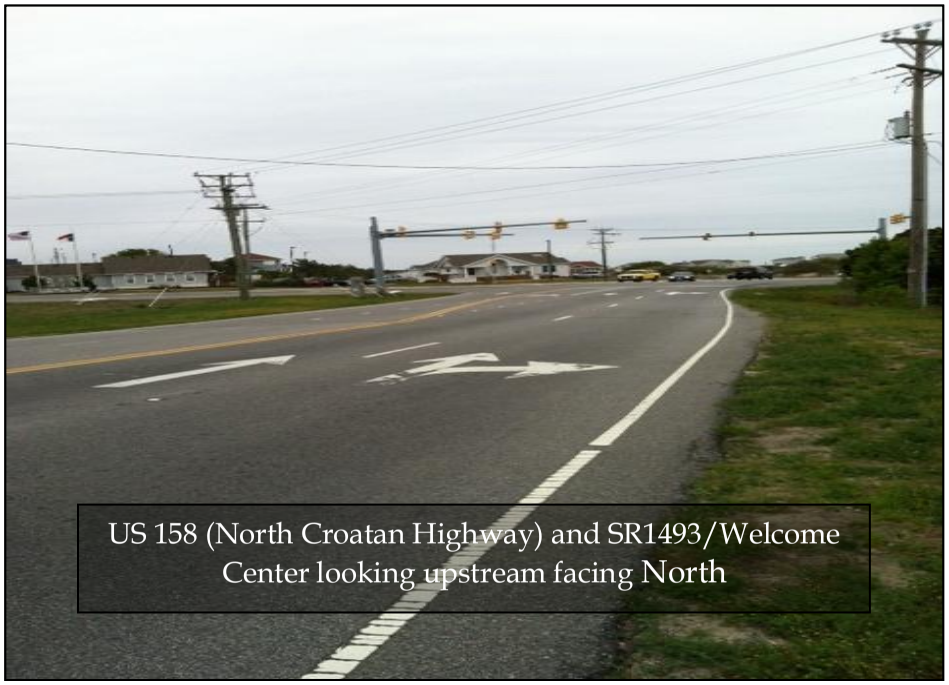


DAVENPORT TRANSPORTION CONSULTING Project No. 12-02175 NCDOT Count # 12-02175
US 158 (North Croatan Highway) and SR 1493/Welcome Center, Dare County, NC

US 158 (North Croatan Highway) and SR 1493/Welcome Center looking North

US 158 (North Croatan Highway) and SR1493/Welcome Center looking upstream facing South

US 158 (North Croatan Highway) and SR 1493/Welcome Center looking South



US 158 (North Croatan Highway) and SR1493/Welcome Center looking upstream facing North

DAVENPORT TRANSPORTION CONSULTING Project No. 12-02175 NCDOT Count # 12-02175
US 158 (North Croatan Highway) and SR 1493/Welcome Center, Dare County, NC

US 158 (North Croatan Highway) and SR 1493/Welcome Center looking West

US 158 (North Croatan Highway) and SR1493/Welcome Center looking upstream facing East

US 158 (North Croatan Highway) and SR 1493/Welcome Center looking East

US 158 (North Croatan Highway) and SR1493/Welcome Center looking upstream facing West