



Highway Factors Group Attachment – SR A1A Speed Study Report

Ft Lauderdale, FL

HWY18FH013

(19 pages)

Traffic Operations General Engineering Consultant

SPOT SPEED STUDY

SR-A1A From Mayan Drive to Bahia Mar

Broward County, FL

Task Work Order No. 083



prepared for



District 4



prepared by

McMahon
Associates, Inc.

August 2015

SPOT SPEED STUDY

SR-A1A From Mayan Drive to Bahia Mar

Broward County, FL

District 4 Traffic Operations General Engineering Consultant

FM NO.: 229944-4-32-01
CONTRACT NO.: C9758
TASK WORK ORDER NO.: 083
FDOT PROJECT MANAGER: Teresa O'Connor
McM PROJECT MANAGER: R. Trent Ebersole, P.E.

R. Trent Ebersole, P.E.
Professional Engineering License No. 64318
State of Florida, Board of Professional Engineers

prepared for



District 4

Prepared by:
McMahon Associates, Inc.

McMahon Associates, Inc.

TECHNICAL MEMORANDUM

Date: August 19, 2015
Client: Florida Department of Transportation – District 4
Project: SR-A1A from Mayan Drive to Bahia Mar Spot Speed Study
County: Broward County
Roadway ID No.: 86180000
SLDMP: 1.607 to 2.516
Contract No.: C9758
Payment FM No.: 229944-4-32-01
Task Work Order No.: 083
McMahon Project No.: L11711.83

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McMahon Associates, Inc. (McMahon) used automatic traffic recorder (ATR) machines to collect northbound and southbound 24-hour vehicle speeds at three (3) locations along SR-A1A between Mayan Drive and Bahia Mar, in Broward County. **Attachment 1** provides an aerial photograph showing the data collection locations. This section of SR-A1A is a four-lane, undivided roadway with a center two-way left-turn lane from Mayan Drive to Harbor Drive and a four-lane, undivided roadway north of Harbor Drive. The posted speed limit for this segment is 30 miles per hour (MPH). The area is surrounded by residential and hotel land uses. The data was collected on Thursday, August 13, 2015 and is included as **Attachment 2**.

Table 1 summarizes the posted speed limit, sample size, 85th percentile speed, average speed and 10 MPH pace for each direction. The 85th percentile speeds range between 38 and 46 MPH for the northbound direction and between 40 and 46 MPH for the southbound direction.

Table 1: Spot Speed Summary

Location		Posted Speed Limit (MPH)	Direction	Sample Size	85th Percentile Speed (MPH)	Average Speed (MPH)	10 MPH Pace Speed (MPH)
No.	Street						
1	SR-A1A (N. of Mayan Drive)	30	Northbound	9,729	46	41	36-45
			Southbound	10,769	46	41	36-45
2	SR-A1A (N. of Harbor Beach Pkwy)	30	Northbound	9,726	38	31	29-38
			Southbound	11,765	40	36	31-40
3	SR-A1A (N. of Harbor Drive)	30	Northbound	10,051	40	33	30-39
			Southbound	10,566	41	34	31-40

ATTACHMENT 1

Data Collection Locations

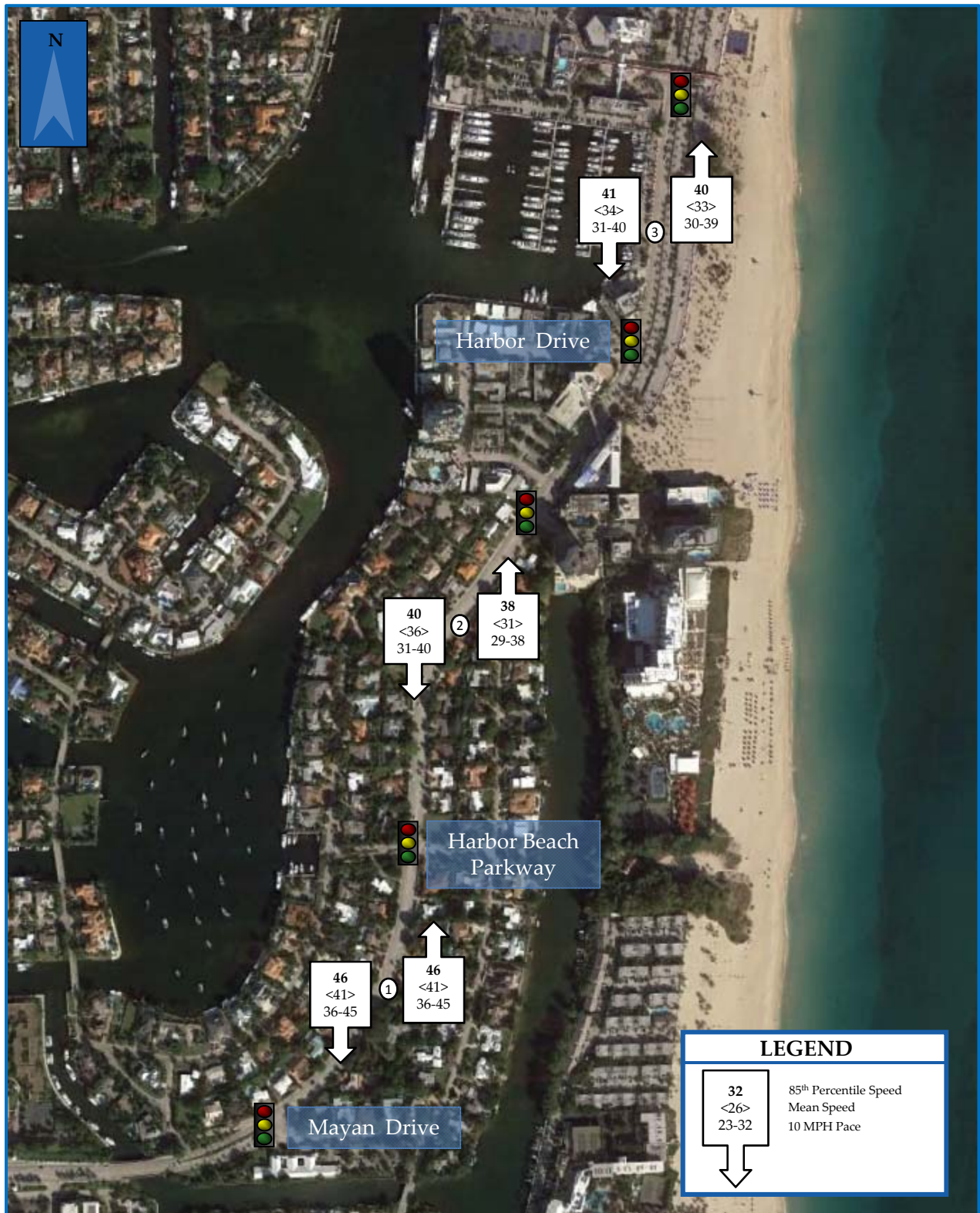


Figure 1
 Aerial Photograph
 SR-A1A From Mayan Drive to Bahia Mar Spot Speed Study
 Broward County, Florida

McMahon
 Associates, Inc.

ATTACHMENT 2

Speed Data

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103
West Palm Beach, FL 33407

Site Code: 1NB
SR A1A north of Mayan Dr

Northbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
08/13/15	0	0	0	0	3	15	13	8	3	1	1	0	0	0	44
00:15	0	0	0	0	3	12	11	6	2	0	0	0	0	0	34
00:30	0	0	0	0	1	10	10	4	0	0	0	0	0	0	25
00:45	0	0	0	2	2	3	7	5	4	0	1	0	0	0	24
01:00	0	0	0	2	9	40	41	23	9	1	2	0	0	0	127
01:15	0	0	0	1	0	11	6	6	0	0	1	0	0	0	25
01:30	0	0	0	1	1	7	9	0	2	0	0	0	0	0	20
01:45	0	0	0	0	1	3	5	4	1	0	2	0	0	0	16
02:00	0	0	0	2	2	25	22	13	4	0	3	0	0	0	71
02:15	0	0	0	0	0	4	4	3	3	0	0	0	0	0	14
02:30	0	0	0	0	1	8	6	5	2	0	1	0	0	0	23
02:45	0	0	0	0	1	2	5	2	0	0	0	0	0	0	11
03:00	0	0	0	0	3	16	20	10	8	0	1	0	0	0	58
03:15	0	0	0	1	0	3	5	1	1	0	0	0	0	0	11
03:30	0	0	0	0	0	2	2	1	1	0	0	0	0	0	7
03:45	0	0	0	0	0	1	2	2	2	1	1	0	0	0	9
04:00	0	0	0	1	1	5	2	3	0	1	0	0	0	0	11
04:15	0	0	0	1	1	11	11	7	4	2	1	0	0	0	38
04:30	0	0	0	1	0	4	3	1	1	0	0	0	0	0	10
04:45	0	0	0	0	0	1	3	1	0	2	0	0	0	0	7
05:00	0	0	0	1	1	5	0	0	1	0	0	0	0	0	8
05:15	0	0	0	1	3	4	7	6	5	2	0	0	0	0	28
05:30	0	0	0	2	4	10	18	8	6	5	0	0	0	0	53
05:45	0	0	0	0	1	2	5	5	3	0	0	0	0	0	16
06:00	0	0	0	0	0	3	11	9	5	0	0	0	0	0	28
06:15	0	0	0	0	7	6	6	10	5	0	1	0	0	0	35
06:30	0	0	0	0	1	7	18	14	12	4	0	0	0	0	56
06:45	0	0	0	0	9	18	40	38	25	4	1	0	0	0	135
07:00	0	0	0	1	5	10	9	13	2	3	0	0	0	0	43
07:15	0	0	0	1	2	8	18	22	4	5	0	0	0	0	60
07:30	0	0	2	2	7	20	18	19	6	6	0	1	0	0	81
07:45	0	0	1	0	3	20	33	42	11	6	1	0	0	0	117
08:00	0	0	3	4	17	58	78	96	23	20	1	1	0	0	301
08:15	0	0	0	0	3	18	28	20	13	2	3	0	0	0	87
08:30	0	0	0	0	2	33	36	19	11	2	0	0	0	0	103
08:45	1	0	0	1	18	31	60	34	11	2	2	0	0	0	160
09:00	0	0	1	1	21	70	25	15	7	1	0	0	0	0	141
09:15	1	0	1	2	44	152	149	88	42	7	5	0	0	0	491
09:30	0	1	1	6	8	35	49	19	3	1	1	0	0	0	124
09:45	0	0	0	4	11	38	50	28	5	0	0	0	0	0	136
10:00	0	0	0	3	9	31	55	18	9	3	1	0	0	0	129
10:15	0	0	0	4	19	44	44	20	4	6	0	0	0	0	141
10:30	0	1	1	17	47	148	198	85	21	10	2	0	0	0	530
10:45	0	0	0	2	18	43	54	18	4	0	0	0	0	0	139
11:00	0	0	0	3	16	51	43	20	0	0	0	0	0	0	133
11:15	1	4	2	11	36	49	25	10	4	1	0	0	0	0	143
11:30	0	0	1	8	28	66	18	10	4	0	0	0	0	0	135
11:45	1	4	3	24	98	209	140	58	12	1	0	0	0	0	550
12:00	0	0	0	1	24	52	41	23	1	1	0	0	0	0	143
12:15	0	0	0	2	17	53	36	24	6	1	0	0	0	0	139
12:30	0	0	0	2	35	59	48	9	7	3	0	0	0	0	163
12:45	0	0	4	2	16	63	44	19	5	0	1	0	0	0	154
13:00	0	0	4	7	92	227	169	75	19	5	1	0	0	0	599
13:15	0	0	0	8	26	44	43	18	5	1	0	0	0	0	145
13:30	0	0	0	5	19	64	42	11	4	0	0	0	0	0	145
13:45	0	1	1	12	53	51	44	14	1	0	0	0	0	0	177
14:00	0	0	1	1	26	37	41	16	4	0	0	0	0	0	126
14:15	0	1	2	26	124	196	170	59	14	1	0	0	0	0	593
Total	2	6	14	87	450	1110	1056	560	187	56	17	1	0	0	3546

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103

West Palm Beach, FL 33407

Site Code: 1NB

SR A1A north of Mayan Dr

Northbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
12 PM	0	0	0	9	23	71	42	10	5	1	0	0	0	0	161
12:15	0	0	0	7	21	39	37	15	1	0	0	0	0	0	120
12:30	1	3	8	13	37	47	33	11	3	2	1	0	0	0	159
12:45	0	0	0	1	49	76	45	21	0	0	1	0	0	0	193
13:00	1	3	8	30	130	233	157	57	9	3	2	0	0	0	633
13:15	0	0	0	0	29	63	37	15	3	2	0	0	0	0	149
13:30	0	0	0	8	28	50	41	20	2	1	0	0	0	0	150
13:45	0	0	0	0	25	79	36	11	4	0	0	0	0	0	155
14:00	0	0	0	4	18	54	55	11	2	1	0	0	0	0	145
14:15	0	0	0	12	100	246	169	57	11	4	0	0	0	0	599
14:30	0	0	0	4	34	47	31	8	4	1	0	0	0	0	129
14:45	0	0	3	9	27	46	22	10	2	1	0	0	0	0	120
15:00	0	1	6	18	42	49	34	9	4	0	0	0	0	0	163
15:15	0	0	0	4	21	57	44	21	7	0	1	0	0	0	155
15:30	0	1	9	35	124	199	131	48	17	2	1	0	0	0	567
15:45	0	0	0	5	12	43	51	26	5	0	1	0	0	0	143
16:00	0	1	0	5	8	56	36	32	9	0	0	0	0	0	147
16:15	1	0	0	11	18	46	51	16	3	1	1	0	0	0	148
16:30	0	0	0	2	31	67	56	34	6	3	1	0	0	0	200
16:45	1	1	0	23	69	212	194	108	23	4	3	0	0	0	638
17:00	0	0	0	1	18	42	59	29	6	0	0	0	0	0	155
17:15	0	0	0	0	11	58	48	20	6	2	1	0	0	0	146
17:30	0	0	1	5	19	45	52	28	10	2	1	0	1	0	164
17:45	0	1	0	2	9	48	43	21	8	5	2	0	0	0	139
18:00	0	1	1	8	57	193	202	98	30	9	4	0	1	0	604
18:15	0	0	0	1	30	57	53	23	8	3	0	0	0	0	175
18:30	0	0	1	0	14	60	65	36	6	1	2	0	0	0	185
18:45	0	1	0	3	24	59	53	29	3	3	0	0	0	0	175
19:00	0	0	0	2	12	30	74	45	11	3	0	0	0	0	177
19:15	0	1	1	6	80	206	245	133	28	10	2	0	0	0	712
19:30	0	0	0	0	12	54	39	25	4	5	0	0	0	0	139
19:45	0	0	0	1	19	72	45	11	2	0	0	0	0	0	150
20:00	0	0	0	1	8	46	65	27	4	4	0	0	0	0	155
20:15	0	0	0	0	18	43	37	26	10	1	1	0	0	0	136
20:30	0	0	0	2	57	215	186	89	20	10	1	0	0	0	580
20:45	3	1	1	7	16	28	28	8	3	0	0	0	0	0	95
21:00	0	0	1	7	14	42	38	25	6	3	0	0	0	0	136
21:15	0	0	0	2	26	64	57	37	8	3	0	0	0	0	197
21:30	0	0	0	0	10	39	73	12	6	0	0	0	0	0	140
21:45	3	1	2	16	66	173	196	82	23	6	0	0	0	0	568
22:00	0	0	0	13	41	45	18	11	3	1	1	0	0	0	133
22:15	0	0	1	6	24	40	18	10	0	0	0	1	0	0	100
22:30	0	0	0	4	14	35	35	8	6	0	0	0	0	0	102
22:45	0	0	0	1	7	41	25	5	0	0	0	0	0	0	79
23:00	0	0	1	24	86	161	96	34	9	1	1	1	0	0	414
23:15	0	0	0	3	16	37	17	6	1	0	0	0	0	0	80
23:30	0	0	0	2	13	34	22	12	3	0	0	0	0	0	86
23:45	0	4	4	15	14	38	12	2	0	0	0	0	0	0	89
24:00	0	0	0	3	16	25	24	10	1	0	0	0	0	0	79
24:15	0	4	4	23	59	134	75	30	5	0	0	0	0	0	334
24:30	0	2	0	8	24	32	10	2	0	0	0	0	0	0	78
24:45	0	0	0	2	11	27	27	5	3	0	0	0	0	0	75
25:00	0	0	0	0	14	26	14	6	2	0	0	0	0	0	62
25:15	0	0	0	2	15	34	24	6	1	0	0	0	0	0	82
25:30	0	2	0	12	64	119	75	19	6	0	0	0	0	0	297
25:45	0	0	0	0	10	30	24	5	1	2	0	0	0	0	72
26:00	0	0	0	0	6	21	13	7	2	0	0	0	0	0	49
26:15	0	0	0	2	16	33	12	3	0	1	0	0	0	0	67
26:30	0	0	0	0	2	13	22	8	2	1	1	0	0	0	49
26:45	0	0	0	2	34	97	71	23	5	4	1	0	0	0	237
Total	5	14	26	193	926	2188	1797	778	186	53	15	1	1	0	6183
Grand Total	7	20	40	280	1376	3298	2853	1338	373	109	32	2	1	0	9729

15th Percentile : 33 MPH
 50th Percentile : 39 MPH
 85th Percentile : 46 MPH
 95th Percentile : 50 MPH

Stats
 Mean Speed(Average) : 41 MPH
 10 MPH Pace Speed : 36-45 MPH
 Number in Pace : 5730
 Percent in Pace : 58.9%
 Number of Vehicles > 30 MPH : 9382
 Percent of Vehicles > 30 MPH : 96.4%

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103

West Palm Beach, FL 33407

Site Code: 1SB

SR A1A north of Mayan Dr

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
08/13/15	0	0	0	0	3	14	25	15	0	2	1	0	0	1	61
00:15	0	0	0	0	3	21	23	15	2	0	0	0	0	0	64
00:30	0	0	0	0	5	15	18	9	3	1	0	0	0	0	51
00:45	0	0	0	0	2	10	15	9	2	1	0	1	0	0	40
01:00	0	0	0	0	13	60	81	48	7	4	1	1	0	1	216
01:15	0	0	0	0	4	6	16	4	2	0	0	0	0	0	32
01:30	0	0	0	0	3	12	11	10	2	0	1	0	1	0	40
01:45	0	0	0	1	2	9	11	4	2	0	0	0	0	0	29
02:00	0	0	0	0	3	6	4	3	1	1	0	0	0	0	18
02:15	0	0	0	1	12	33	42	21	7	1	1	0	1	0	119
02:30	0	0	0	0	2	2	10	4	1	0	0	0	0	0	19
02:45	0	0	0	0	0	11	10	7	0	0	0	0	0	0	28
03:00	0	0	0	0	4	9	0	3	2	0	0	0	0	0	18
03:15	0	0	0	0	2	5	4	4	1	0	0	0	0	0	16
03:30	0	0	0	0	8	27	24	18	4	0	0	0	0	0	81
03:45	0	0	0	0	2	1	4	4	0	0	0	0	0	0	11
04:00	0	0	0	0	1	6	7	2	1	0	0	0	0	0	17
04:15	0	0	0	0	0	4	4	3	0	0	0	0	0	0	11
04:30	0	0	0	1	0	7	4	2	2	2	1	0	0	0	19
04:45	0	0	0	1	3	18	19	11	3	2	1	0	0	0	58
05:00	0	0	1	0	0	5	8	5	0	0	1	0	0	0	20
05:15	0	0	0	0	2	5	4	2	0	0	0	0	0	0	13
05:30	0	0	0	0	1	3	5	4	2	0	0	0	0	0	15
05:45	0	0	0	1	0	1	8	3	1	0	0	0	0	0	14
06:00	0	0	1	1	3	14	25	14	3	0	1	0	0	0	62
06:15	0	0	0	1	0	4	11	5	6	1	0	0	0	0	28
06:30	0	0	0	0	0	4	8	8	2	1	0	0	0	0	23
06:45	0	0	0	0	5	7	14	9	0	1	0	0	0	0	36
07:00	0	0	0	0	2	6	22	11	6	4	1	0	0	0	52
07:15	0	0	0	1	7	21	55	33	14	7	1	0	0	0	139
07:30	0	0	0	1	0	5	18	14	5	0	0	0	0	0	43
07:45	0	0	0	0	3	10	14	17	10	1	0	0	0	0	55
08:00	0	0	0	0	1	12	26	23	3	0	0	0	0	0	65
08:15	0	0	0	0	0	13	27	20	5	0	0	0	0	0	65
08:30	0	0	0	1	4	40	85	74	23	1	0	0	0	0	228
08:45	0	0	1	0	0	27	41	24	7	1	0	0	0	0	101
09:00	0	2	0	0	2	32	42	22	6	2	0	0	0	0	108
09:15	0	0	1	0	7	32	52	32	9	1	0	0	0	0	134
09:30	0	0	0	1	13	34	41	26	8	2	0	0	0	0	125
09:45	0	2	2	1	22	125	176	104	30	6	0	0	0	0	468
10:00	0	0	0	0	8	24	63	33	7	0	1	0	0	0	136
10:15	0	2	2	1	6	39	60	23	6	1	0	0	0	0	140
10:30	0	0	0	1	10	38	46	32	5	1	0	0	0	0	133
10:45	0	0	0	0	10	57	50	20	4	1	0	0	0	0	142
11:00	0	2	2	2	34	158	219	108	22	3	1	0	0	0	551
11:15	0	0	0	0	9	51	57	25	4	2	0	0	0	0	148
11:30	0	1	0	6	20	41	48	20	5	1	0	0	0	0	142
11:45	0	0	0	1	5	36	56	31	2	0	0	0	0	0	131
12:00	1	0	0	2	30	61	36	12	1	0	0	0	0	0	143
12:15	1	1	0	9	64	189	197	88	12	3	0	0	0	0	564
12:30	1	2	1	3	17	50	54	29	2	0	0	0	0	0	159
12:45	0	0	1	0	20	57	53	16	6	1	1	0	0	0	155
13:00	0	0	0	1	27	58	39	12	4	1	0	0	0	0	142
13:15	0	0	0	2	16	35	63	22	4	0	0	0	0	0	142
13:30	1	2	2	6	80	200	209	79	16	2	1	0	0	0	598
13:45	0	1	1	0	22	48	45	13	4	0	0	0	0	0	134
14:00	0	0	0	0	28	66	49	18	4	3	0	0	0	0	168
14:15	0	0	3	12	31	40	38	11	5	0	0	0	0	0	140
14:30	0	0	0	2	34	47	51	19	4	0	0	0	0	0	157
14:45	0	1	4	14	115	201	183	61	17	3	0	0	0	0	599
Total	2	8	11	37	365	1086	1315	659	158	32	7	1	1	1	3683

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103

West Palm Beach, FL 33407

Site Code: 1SB

SR A1A north of Mayan Dr

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
12 PM	0	0	2	3	25	42	54	15	5	1	0	0	0	0	147
12:15	0	0	0	6	16	50	58	18	7	1	0	0	0	0	156
12:30	0	0	0	2	23	53	52	22	9	2	0	0	0	0	163
12:45	0	0	1	4	17	64	44	14	6	0	0	0	0	0	150
13:00	0	0	3	15	81	209	208	69	27	4	0	0	0	0	616
13:15	0	1	0	7	37	70	45	8	2	0	0	0	0	0	170
13:30	0	0	0	2	26	56	72	17	1	1	0	0	0	0	175
13:45	3	1	2	11	26	56	39	4	2	0	0	0	0	0	144
14:00	0	0	0	7	10	52	43	18	3	2	0	1	0	0	136
14:15	3	2	2	27	99	234	199	47	8	3	0	1	0	0	625
14:30	0	0	0	3	21	72	37	9	2	0	0	0	0	0	144
14:45	0	0	1	1	23	56	44	26	3	3	0	0	0	0	157
15:00	0	0	0	0	10	46	60	26	5	1	0	0	0	0	148
15:15	0	0	0	1	21	61	68	23	4	1	0	0	0	0	179
15:30	0	0	1	5	75	235	209	84	14	5	0	0	0	0	628
15:45	0	0	0	2	29	74	51	19	4	0	0	0	0	0	179
16:00	0	0	0	5	28	75	67	14	1	3	1	0	0	0	194
16:15	1	1	2	6	28	70	72	20	7	1	0	0	0	0	208
16:30	0	1	1	5	17	51	62	35	6	0	0	0	0	0	178
16:45	1	2	3	18	102	270	252	88	18	4	1	0	0	0	759
17:00	0	0	1	2	29	70	51	28	4	0	0	0	0	0	185
17:15	0	0	0	11	35	55	56	19	2	2	1	0	0	0	181
17:30	0	1	4	6	31	79	55	21	3	2	1	0	0	0	203
17:45	0	1	1	5	25	64	60	25	3	1	1	0	0	0	186
18:00	0	2	6	24	120	268	222	93	12	5	3	0	0	0	755
18:15	0	0	0	13	31	55	69	17	6	0	1	0	0	0	192
18:30	7	5	6	10	46	63	62	11	3	0	0	0	0	0	213
18:45	0	0	0	7	25	64	71	21	2	2	0	0	0	0	192
19:00	0	0	1	1	21	67	46	36	8	1	0	0	0	0	181
19:15	7	5	7	31	123	249	248	85	19	3	1	0	0	0	778
19:30	0	2	0	2	13	72	52	24	4	0	0	0	0	0	169
19:45	0	0	0	6	18	61	54	24	6	1	0	1	0	0	171
20:00	0	0	0	1	18	83	62	18	4	1	0	0	0	0	187
20:15	0	0	0	1	13	57	49	20	4	0	0	0	0	0	144
20:30	0	2	0	10	62	273	217	86	18	2	0	1	0	0	671
20:45	0	0	0	7	16	58	58	14	3	0	0	0	0	0	156
21:00	0	0	1	1	21	53	54	17	5	1	0	0	0	0	153
21:15	0	0	0	6	11	41	55	24	1	0	0	0	0	0	138
21:30	0	0	0	0	14	30	39	29	4	0	0	0	0	0	116
21:45	0	0	1	14	62	182	206	84	13	1	0	0	0	0	563
22:00	0	1	1	9	27	55	39	18	5	0	0	0	0	0	155
22:15	0	0	1	4	16	64	59	7	4	0	0	0	0	0	155
22:30	0	0	0	2	19	55	48	16	4	6	0	0	0	0	150
22:45	0	0	0	1	9	39	47	10	2	3	0	0	0	0	111
23:00	0	1	2	16	71	213	193	51	15	9	0	0	0	0	571
23:15	0	0	0	0	11	44	32	8	7	1	0	0	0	0	103
23:30	0	0	0	3	23	34	38	9	2	0	0	0	0	0	109
23:45	0	0	0	0	22	27	26	12	4	1	0	0	0	0	92
24:00	0	1	0	3	13	37	22	5	3	0	0	0	0	0	84
24:15	0	1	0	6	69	142	118	34	16	2	0	0	0	0	388
24:30	0	1	0	2	24	32	21	4	1	0	0	0	0	0	85
24:45	0	0	0	2	14	35	38	6	1	0	0	0	0	0	96
25:00	0	0	0	4	13	54	37	7	1	1	0	0	0	0	117
25:15	0	0	0	3	11	32	31	11	2	1	1	0	0	0	92
25:30	0	1	0	11	62	153	127	28	5	2	1	0	0	0	390
25:45	0	0	0	1	23	46	33	10	1	0	0	0	0	0	114
26:00	0	0	0	0	9	22	44	8	4	0	0	0	0	0	87
26:15	0	0	0	2	2	31	29	14	6	1	1	0	0	0	86
26:30	0	0	0	1	7	11	20	9	5	2	0	0	0	0	55
26:45	0	0	0	4	41	110	126	41	16	3	1	0	0	0	342
Total	11	16	25	181	967	2538	2325	790	181	43	7	2	0	0	7086
Grand Total	13	24	36	218	1332	3624	3640	1449	339	75	14	3	1	1	10769

15th Percentile : 34 MPH
 50th Percentile : 40 MPH
 85th Percentile : 46 MPH
 95th Percentile : 50 MPH

Stats
 Mean Speed(Average) : 41 MPH
 10 MPH Pace Speed : 36-45 MPH
 Number in Pace : 6712
 Percent in Pace : 62.3%
 Number of Vehicles > 30 MPH : 10478
 Percent of Vehicles > 30 MPH : 97.3%

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103
West Palm Beach, FL 33407

Site Code: 2NB
SR A1A north of Harbor Bch Pkwy

Northbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
08/13/15	0	0	0	4	17	16	6	5	0	0	0	0	0	0	48
00:15	0	0	0	4	12	9	6	2	0	0	0	0	0	0	33
00:30	0	0	0	4	14	13	4	0	0	0	0	0	0	0	35
00:45	0	0	0	3	11	9	3	1	0	0	0	0	0	0	27
01:00	0	0	0	15	54	47	19	8	0	0	0	0	0	0	143
01:15	0	1	1	2	6	8	2	0	1	0	0	0	0	0	21
01:30	0	1	1	2	11	10	2	0	0	0	0	0	0	0	27
01:45	0	0	0	3	10	2	2	0	0	0	0	0	0	0	17
02:00	0	0	0	3	4	4	3	1	1	0	0	0	0	0	16
02:15	0	2	2	10	31	24	9	1	2	0	0	0	0	0	81
02:30	0	0	0	0	4	3	5	0	0	0	0	0	0	0	12
02:45	0	0	0	3	8	7	3	0	0	0	0	0	0	0	21
03:00	0	1	0	2	0	3	0	0	0	0	0	0	0	0	16
03:15	0	0	0	5	19	18	11	1	0	0	0	0	0	0	6
03:30	0	0	0	1	7	5	0	0	0	0	0	0	0	0	55
03:45	0	0	0	0	1	7	5	0	0	0	0	0	0	0	13
04:00	0	0	0	0	4	1	2	0	0	0	0	0	0	0	7
04:15	0	0	0	0	1	6	3	0	0	0	0	0	0	0	10
04:30	0	0	0	0	5	1	4	0	1	0	0	0	0	0	11
04:45	0	0	0	1	17	13	9	0	1	0	0	0	0	0	41
05:00	0	0	0	0	6	4	0	0	0	0	0	0	0	0	10
05:15	0	0	0	0	2	4	2	1	0	0	0	0	0	0	9
05:30	0	0	0	1	2	3	2	0	0	0	0	0	0	0	8
05:45	0	0	1	2	5	8	3	1	0	0	0	0	0	0	20
06:00	0	0	1	3	15	19	7	2	0	0	0	0	0	0	47
06:15	0	0	0	2	7	6	10	1	0	0	0	0	0	0	26
06:30	0	0	0	1	9	6	7	0	1	0	0	0	0	0	24
06:45	0	0	2	0	12	10	3	2	0	0	0	0	0	0	29
07:00	0	1	1	3	14	24	12	0	0	0	0	0	0	0	55
07:15	0	1	3	6	42	46	32	3	1	0	0	0	0	0	134
07:30	2	2	2	8	17	13	14	2	0	0	0	0	0	0	60
07:45	0	0	2	4	15	24	13	8	0	0	0	0	0	0	66
08:00	0	0	2	5	27	24	12	1	1	0	0	0	0	0	72
08:15	0	4	8	27	37	31	20	1	1	0	0	0	0	0	129
08:30	2	6	14	44	96	92	59	12	2	0	0	0	0	0	327
08:45	0	3	7	10	28	38	10	4	0	0	0	0	0	0	100
09:00	3	3	5	6	41	22	22	1	0	0	0	0	0	0	103
09:15	1	4	9	26	40	35	11	0	1	0	0	0	0	0	127
09:30	0	1	5	21	71	43	9	6	0	0	0	0	0	0	156
09:45	4	11	26	63	180	138	52	11	1	0	0	0	0	0	486
10:00	1	1	3	24	60	34	12	0	0	0	0	0	0	0	135
10:15	0	1	1	10	55	34	12	1	2	0	0	0	0	0	116
10:30	5	7	15	38	54	33	9	4	0	0	0	0	0	0	165
10:45	0	1	5	20	42	46	15	3	1	0	0	0	0	0	133
11:00	6	10	24	92	211	147	48	8	3	0	0	0	0	0	549
11:15	5	9	12	30	40	31	8	2	0	0	0	0	0	0	137
11:30	1	5	3	18	69	30	11	2	0	0	0	0	0	0	139
11:45	3	5	8	23	53	36	6	1	0	0	0	0	0	0	135
12:00	3	12	14	34	66	29	10	1	0	0	0	0	0	0	169
12:15	12	31	37	105	228	126	35	6	0	0	0	0	0	0	580
12:30	7	6	14	19	42	22	5	1	0	0	0	0	0	0	116
12:45	0	5	10	31	61	33	8	3	0	0	0	0	0	0	151
13:00	5	9	20	35	64	28	4	1	0	0	0	0	0	0	166
13:15	1	3	11	20	69	34	7	3	2	0	0	0	0	0	150
13:30	13	23	55	105	236	117	24	8	2	0	0	0	0	0	583
13:45	6	2	15	29	44	36	3	0	0	0	0	0	0	0	135
14:00	0	2	6	44	68	32	0	1	0	0	0	0	0	0	153
14:15	3	5	13	39	56	35	3	0	0	0	0	0	0	0	154
14:30	2	4	9	59	47	37	11	1	0	0	0	0	0	0	170
14:45	11	13	43	171	215	140	17	2	0	0	0	0	0	0	612
Total	48	98	205	620	1344	927	322	62	12	0	0	0	0	0	3638

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103
West Palm Beach, FL 33407

Site Code: 2NB
SR A1A north of Harbor Bch Pkwy

Northbound

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total
	15	20	25	30	35	40	45	50	55	60	65	70	75			
12 PM	11	11	4	16	38	19	9	1	0	0	0	0	0	0	0	109
12:15	6	6	16	40	39	36	6	1	0	0	0	0	0	0	0	150
12:30	7	8	5	17	46	26	7	1	1	0	0	0	0	0	0	118
12:45	13	11	15	32	45	34	8	0	0	0	0	0	0	0	0	158
	37	36	40	105	168	115	30	3	1	0	0	0	0	0	0	535
13:00	8	7	19	48	62	36	8	2	0	0	0	0	0	0	0	190
13:15	4	9	13	34	59	28	8	1	0	0	0	0	0	0	0	156
13:30	0	7	2	20	73	35	9	1	0	0	0	0	0	0	0	147
13:45	10	13	21	26	48	13	8	1	0	0	0	0	0	0	0	140
	22	36	55	128	242	112	33	5	0	0	0	0	0	0	0	633
14:00	2	6	9	21	68	35	4	0	0	0	0	0	0	0	0	145
14:15	10	7	11	34	46	24	3	1	0	0	0	0	0	0	0	136
14:30	18	15	11	25	30	13	3	1	0	0	0	0	0	0	0	116
14:45	5	11	15	26	50	31	7	0	0	0	0	0	0	0	0	145
	35	39	46	106	194	103	17	2	0	0	0	0	0	0	0	542
15:00	12	17	26	33	42	12	8	0	0	0	0	0	0	0	0	150
15:15	8	11	6	21	45	30	14	0	0	0	0	0	0	0	0	135
15:30	13	10	19	29	35	14	7	0	0	0	0	0	0	0	0	127
15:45	6	7	6	31	73	34	8	1	0	0	0	0	0	0	0	166
	39	45	57	114	195	90	37	1	0	0	0	0	0	0	0	578
16:00	11	13	21	28	49	29	5	0	0	0	0	0	0	0	0	156
16:15	7	3	19	31	62	33	8	3	0	0	0	0	0	0	0	166
16:30	1	4	12	36	66	29	12	2	0	0	0	0	0	0	0	162
16:45	1	11	5	16	47	42	7	3	1	0	0	0	0	0	0	133
	20	31	57	111	224	133	32	8	1	0	0	0	0	0	0	617
17:00	4	6	14	33	73	36	6	0	0	0	0	0	0	0	0	172
17:15	7	3	19	26	71	38	4	0	1	0	0	0	0	0	0	169
17:30	12	18	30	42	60	14	9	0	0	0	0	0	0	0	0	185
17:45	9	10	18	31	52	28	6	1	0	0	0	0	0	0	0	155
	32	37	81	132	256	116	25	1	1	0	0	0	0	0	0	681
18:00	3	7	5	42	66	32	5	0	0	0	0	0	0	0	0	160
18:15	9	10	24	42	51	29	2	1	0	0	0	0	0	0	0	168
18:30	5	7	4	35	48	20	5	1	0	0	0	0	0	0	0	125
18:45	1	4	13	44	67	22	5	0	0	0	0	0	0	0	0	156
	18	28	46	163	232	103	17	2	0	0	0	0	0	0	0	609
19:00	9	15	12	15	29	7	3	1	0	0	0	0	0	0	0	91
19:15	9	12	9	19	57	31	1	0	0	0	0	0	0	0	0	138
19:30	3	9	19	30	32	36	9	0	0	0	0	0	0	0	0	138
19:45	3	2	15	37	58	32	5	1	0	0	0	0	0	0	0	153
	24	38	55	101	176	106	18	2	0	0	0	0	0	0	0	520
20:00	0	2	12	58	52	18	5	0	0	0	0	0	0	0	0	147
20:15	0	1	6	26	35	21	5	0	1	0	0	0	0	0	0	95
20:30	0	2	18	26	42	22	3	0	0	0	0	0	0	0	0	113
20:45	0	3	14	18	28	11	7	2	0	0	0	0	0	0	0	83
	0	8	50	128	157	72	20	2	1	0	0	0	0	0	0	438
21:00	0	2	10	24	54	16	1	0	0	1	0	0	0	0	0	108
21:15	0	0	1	26	34	20	1	1	0	0	0	0	0	0	0	83
21:30	0	1	10	24	31	11	5	0	0	0	0	0	0	0	0	82
21:45	0	0	1	19	40	29	1	0	0	0	0	0	0	0	0	90
	0	3	22	93	159	76	8	1	0	1	0	0	0	0	0	363
22:00	0	1	0	15	35	11	1	0	0	0	0	0	0	0	0	63
22:15	4	1	4	21	29	19	3	0	0	0	0	0	0	0	0	81
22:30	0	1	1	18	40	24	6	1	0	0	0	0	0	0	0	91
22:45	0	2	4	21	18	19	5	0	0	0	0	0	0	0	0	69
	4	5	9	75	122	73	15	1	0	0	0	0	0	0	0	304
23:00	0	1	5	19	46	18	3	1	0	0	0	0	0	0	0	93
23:15	0	0	4	15	26	15	3	2	0	0	0	0	0	0	0	65
23:30	0	1	3	19	26	17	0	0	0	0	0	0	0	0	0	66
23:45	0	0	1	5	19	10	7	2	0	0	0	0	0	0	0	44
	0	2	13	58	117	60	13	5	0	0	0	0	0	0	0	268
Total	231	308	531	1314	2242	1159	265	33	4	1	0	0	0	0	0	6088
Grand Total	279	406	736	1934	3586	2086	587	95	16	1	0	0	0	0	0	9726

15th Percentile : 22 MPH
 50th Percentile : 31 MPH
 85th Percentile : 38 MPH
 95th Percentile : 41 MPH

Stats
 Mean Speed(Average) : 31 MPH
 10 MPH Pace Speed : 29-38 MPH
 Number in Pace : 5376
 Percent in Pace : 55.3%
 Number of Vehicles > 30 MPH : 6371
 Percent of Vehicles > 30 MPH : 65.5%

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103

West Palm Beach, FL 33407

Site Code: 2SB

SR A1A north of Harbor Bch Pkwy

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
08/13/15	0	0	0	3	19	30	17	2	0	0	1	0	0	0	72
00:15	0	0	0	2	20	22	11	1	3	0	0	0	0	0	59
00:30	0	0	0	5	20	15	8	5	0	0	0	0	0	0	53
00:45	0	0	0	2	12	14	8	1	2	0	0	0	0	0	39
01:00	0	0	0	12	71	81	44	9	5	0	1	0	0	0	223
01:15	0	0	0	3	9	19	5	1	0	0	0	0	0	0	37
01:30	0	0	0	3	19	12	8	0	0	0	0	1	0	0	43
01:45	0	0	0	1	7	12	6	4	0	0	0	0	0	0	30
02:00	0	0	0	1	5	5	4	1	1	0	0	0	0	0	17
02:15	0	0	0	8	40	48	23	6	1	0	0	1	0	0	127
02:30	0	0	0	1	6	8	4	1	0	0	0	0	0	0	20
02:45	0	0	0	1	12	13	5	0	0	0	0	0	0	0	31
03:00	0	0	1	3	5	3	3	1	0	0	0	0	0	0	16
03:15	0	0	0	2	6	4	5	0	0	0	0	0	0	0	17
03:30	0	0	1	7	29	28	17	2	0	0	0	0	0	0	84
03:45	0	0	0	0	3	3	4	0	0	0	0	0	0	0	10
04:00	0	0	1	0	8	7	1	1	1	0	0	0	0	0	19
04:15	0	0	0	0	4	6	3	0	0	0	0	0	0	0	13
04:30	0	1	0	1	2	9	3	1	2	0	0	0	0	0	19
04:45	0	1	1	1	17	25	11	2	3	0	0	0	0	0	61
05:00	0	1	0	0	2	10	5	1	1	0	0	0	0	0	20
05:15	0	0	0	1	4	2	6	0	0	0	0	0	0	0	13
05:30	0	0	0	1	3	4	4	2	0	0	0	0	0	0	14
05:45	0	0	1	1	3	7	0	1	0	0	0	0	0	0	13
06:00	0	1	1	3	12	23	15	4	1	0	0	0	0	0	60
06:15	0	1	0	1	4	8	7	7	0	0	0	0	0	0	28
06:30	0	0	0	0	7	4	8	1	2	0	0	0	0	0	22
06:45	0	0	0	4	9	11	9	3	0	0	0	0	0	0	36
07:00	0	0	0	6	15	14	13	5	3	2	0	0	0	0	58
07:15	0	1	0	11	35	37	37	16	5	2	0	0	0	0	144
07:30	0	0	0	2	6	17	15	5	0	0	0	0	0	0	45
07:45	0	0	1	4	17	12	14	10	0	0	0	0	0	0	58
08:00	0	0	0	1	15	22	20	8	1	0	0	0	0	0	67
08:15	0	0	0	3	20	29	15	4	0	0	0	0	0	0	71
08:30	0	0	1	10	58	80	64	27	1	0	0	0	0	0	241
08:45	0	0	1	4	22	46	28	4	2	0	0	0	0	0	107
09:00	0	0	0	6	33	48	24	7	1	0	0	0	0	0	119
09:15	0	0	0	7	58	50	28	6	0	0	0	0	0	0	149
09:30	0	0	0	7	35	62	30	10	4	0	0	0	0	0	148
09:45	0	0	1	24	148	206	110	27	7	0	0	0	0	0	523
10:00	0	0	0	5	37	65	36	8	1	0	0	0	0	0	152
10:15	0	0	1	2	29	64	38	7	1	0	0	0	0	0	142
10:30	0	0	0	3	32	68	26	8	2	0	0	0	0	0	139
10:45	0	0	0	8	56	58	25	8	1	0	0	0	0	0	156
11:00	0	0	1	18	154	255	125	31	5	0	0	0	0	0	589
11:15	1	0	3	12	54	67	26	8	1	1	0	0	0	0	173
11:30	0	2	0	8	46	64	29	4	1	0	0	0	0	0	154
11:45	0	1	2	6	38	53	32	9	1	0	0	0	0	0	142
12:00	0	1	0	15	59	64	17	6	1	0	0	0	0	0	163
12:15	1	4	5	41	197	248	104	27	4	1	0	0	0	0	632
12:30	0	0	0	11	55	67	15	8	0	0	0	0	0	0	156
12:45	0	1	0	16	64	57	15	10	4	0	0	0	0	0	167
13:00	0	0	2	15	59	59	12	3	1	0	0	0	0	0	151
13:15	0	0	2	12	65	65	22	1	1	0	0	0	0	0	168
13:30	0	1	4	54	243	248	64	22	6	0	0	0	0	0	642
13:45	0	2	1	8	68	41	15	6	0	0	0	0	0	0	141
14:00	0	1	0	14	74	56	8	4	2	0	0	1	0	0	160
14:15	0	0	2	13	86	32	18	4	0	0	0	0	0	0	155
14:30	0	0	1	27	70	56	18	0	0	1	0	0	0	0	173
14:45	0	3	4	62	298	185	59	14	2	1	0	1	0	0	629
Total	1	11	19	251	1302	1464	673	187	40	4	1	2	0	0	3955

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103

West Palm Beach, FL 33407

Site Code: 2SB

SR A1A north of Harbor Bch Pkwy

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
12 PM	1	0	2	16	69	48	10	3	1	0	1	0	0	0	151
12:15	0	0	0	21	60	53	23	5	2	0	0	0	0	0	164
12:30	0	2	4	34	53	57	18	5	4	0	0	1	0	0	178
12:45	0	1	3	24	74	53	18	0	0	0	0	0	0	0	173
13:00	1	3	9	95	256	211	69	13	7	0	1	1	0	0	666
13:15	0	0	8	26	85	47	24	4	0	0	0	0	0	0	194
13:30	0	0	2	14	60	88	18	3	0	0	0	0	0	0	185
13:45	0	0	9	14	63	63	17	5	2	0	0	0	0	0	173
14:00	0	0	3	23	80	54	15	1	1	0	0	0	0	0	177
14:15	0	0	22	77	288	252	74	13	3	0	0	0	0	0	729
14:30	0	0	4	13	67	53	15	4	0	0	0	0	0	0	156
14:45	0	0	5	22	63	44	17	4	0	0	1	0	0	0	156
15:00	0	3	2	20	53	58	21	3	0	0	0	0	0	0	160
15:15	0	1	5	22	89	80	18	9	1	0	0	0	0	0	225
15:30	0	4	16	77	272	235	71	20	1	0	1	0	0	0	697
15:45	0	0	3	40	86	53	14	5	1	0	0	0	0	0	202
16:00	0	0	1	14	84	78	16	3	1	0	0	0	0	0	197
16:15	1	2	12	25	78	77	20	8	0	1	0	0	0	0	224
16:30	0	0	2	21	69	57	33	5	2	0	0	0	0	0	189
16:45	1	2	18	100	317	265	83	21	4	1	0	0	0	0	812
17:00	0	0	3	16	75	60	22	9	2	0	0	0	0	0	187
17:15	0	0	2	34	88	63	11	0	0	0	0	0	0	0	198
17:30	0	1	2	20	125	52	17	1	0	0	0	0	0	0	218
17:45	0	0	2	21	105	58	23	6	0	2	0	0	0	0	217
18:00	0	1	9	91	393	233	73	16	2	2	0	0	0	0	820
18:15	0	0	0	35	119	64	14	2	0	0	0	0	0	0	234
18:30	0	0	3	26	109	75	27	3	1	1	0	0	0	0	245
18:45	0	0	2	42	96	60	10	2	1	0	0	0	0	0	213
19:00	0	0	2	19	80	63	22	7	0	0	0	0	0	0	193
19:15	0	0	7	122	404	262	73	14	2	1	0	0	0	0	885
19:30	0	1	5	28	76	52	16	5	0	0	0	0	0	0	183
19:45	0	0	2	15	65	77	19	1	1	0	0	0	0	0	180
20:00	1	3	1	26	88	79	16	1	0	0	0	0	0	0	215
20:15	0	0	1	23	64	51	21	2	1	0	0	0	0	0	163
20:30	1	4	9	92	293	259	72	9	2	0	0	0	0	0	741
20:45	0	4	2	9	79	57	14	2	0	0	0	1	0	0	168
21:00	0	0	1	30	46	53	19	10	0	0	0	0	0	0	159
21:15	0	0	1	16	56	44	18	1	0	0	0	0	0	0	136
21:30	0	0	5	7	65	39	24	7	0	0	0	0	0	0	147
21:45	0	4	9	62	246	193	75	20	0	0	0	1	0	0	610
22:00	3	2	5	16	79	41	14	5	1	0	0	0	0	0	166
22:15	0	0	3	20	86	44	9	5	1	0	0	0	0	0	168
22:30	0	0	0	29	69	43	8	5	2	0	0	0	0	0	156
22:45	0	0	1	15	59	39	14	0	1	0	0	0	0	0	129
23:00	3	2	9	80	293	167	45	15	5	0	0	0	0	0	619
23:15	0	0	2	26	43	33	12	3	1	0	0	0	0	0	120
23:30	0	0	2	15	50	42	14	5	0	0	0	0	0	0	128
23:45	0	0	1	9	40	37	13	1	1	0	0	0	0	0	102
24:00	0	1	3	12	35	30	5	1	0	0	0	0	0	0	87
24:15	0	1	8	62	168	142	44	10	2	0	0	0	0	0	437
24:30	0	2	0	18	47	25	7	1	0	0	0	0	0	0	100
24:45	0	0	1	19	40	35	10	1	1	0	0	0	0	0	107
25:00	0	0	4	20	57	35	9	0	0	0	0	0	0	0	125
25:15	0	0	4	20	37	32	10	4	0	0	0	0	0	0	107
25:30	0	2	9	77	181	127	36	6	1	0	0	0	0	0	439
25:45	0	0	0	17	64	25	6	0	0	0	0	0	0	0	112
26:00	0	0	2	7	38	33	12	3	0	0	0	0	0	0	95
26:15	0	0	0	8	30	34	12	5	1	0	0	0	0	0	90
26:30	0	1	0	7	17	17	9	5	2	0	0	0	0	0	58
26:45	0	1	2	39	149	109	39	13	3	0	0	0	0	0	355
Total	6	24	127	974	3260	2455	754	170	32	4	2	2	0	0	7810
Grand Total	7	35	146	1225	4562	3919	1427	357	72	8	3	4	0	0	11765

15th Percentile : 29 MPH
 50th Percentile : 34 MPH
 85th Percentile : 40 MPH
 95th Percentile : 44 MPH

Stats
 Mean Speed(Average) : 36 MPH
 10 MPH Pace Speed : 31-40 MPH
 Number in Pace : 7766
 Percent in Pace : 66.0%
 Number of Vehicles > 30 MPH : 10352
 Percent of Vehicles > 30 MPH : 88.0%

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103
West Palm Beach, FL 33407

Site Code: 3NB
SR A1A north of Harbor Dr

Northbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
08/13/15	0	0	0	1	15	22	7	0	2	1	0	0	0	0	48
00:15	0	1	1	3	6	12	11	2	0	0	0	0	0	0	36
00:30	0	0	1	4	9	14	4	2	0	0	0	0	0	0	34
00:45	0	1	0	5	7	8	5	2	0	0	0	0	0	0	28
01:00	0	2	2	13	37	56	27	6	2	1	0	0	0	0	146
01:15	0	0	1	2	6	5	6	1	0	1	0	0	0	0	22
01:30	0	0	1	6	10	5	5	0	0	0	0	0	0	0	27
01:45	0	0	1	1	9	2	1	1	0	0	0	0	0	0	15
02:00	0	0	0	2	6	3	3	2	2	0	0	0	0	0	18
02:15	0	0	3	11	31	15	15	4	2	1	0	0	0	0	82
02:30	0	0	0	1	3	5	2	0	1	0	0	0	0	0	12
02:45	0	0	0	0	11	10	3	1	0	0	0	0	0	0	25
03:00	0	0	0	3	3	4	2	0	0	0	0	0	0	0	12
03:15	0	0	1	1	4	2	1	0	0	0	0	0	0	0	9
03:30	0	0	1	5	21	21	8	1	1	0	0	0	0	0	58
03:45	0	0	0	1	1	9	2	0	0	0	0	0	0	0	13
04:00	0	0	0	2	4	1	2	0	0	0	0	0	0	0	9
04:15	0	0	0	0	2	4	2	2	0	0	0	0	0	0	10
04:30	0	0	0	1	2	3	1	2	0	1	0	0	0	0	10
04:45	0	0	0	4	9	17	7	4	0	1	0	0	0	0	42
05:00	0	0	0	1	3	5	1	1	0	0	0	0	0	0	11
05:15	0	0	0	1	1	0	2	1	0	0	1	0	0	0	6
05:30	0	0	0	2	2	1	1	0	2	0	0	0	0	0	8
05:45	0	0	0	0	4	4	3	3	1	0	0	0	0	0	15
06:00	0	0	0	4	10	10	7	5	3	0	1	0	0	0	40
06:15	0	0	0	0	2	4	4	2	0	0	0	0	0	0	12
06:30	0	0	0	1	8	4	4	2	0	1	0	0	0	0	20
06:45	0	0	0	3	8	8	7	2	1	0	0	0	0	0	29
07:00	0	0	0	3	9	14	13	5	2	0	0	0	0	0	46
07:15	0	0	0	7	27	30	28	11	3	1	0	0	0	0	107
07:30	1	0	1	3	7	14	3	6	2	1	0	0	0	0	38
07:45	0	0	0	2	9	12	18	14	1	0	0	0	0	0	56
08:00	0	0	1	3	9	24	10	8	2	0	0	0	0	0	57
08:15	0	0	0	2	24	26	25	7	0	0	0	0	0	0	84
08:30	1	0	2	10	49	76	56	35	5	1	0	0	0	0	235
08:45	0	0	0	5	24	27	20	11	5	0	0	0	0	0	92
09:00	0	0	0	14	26	22	17	6	0	0	0	0	0	0	85
09:15	1	0	3	16	26	45	23	6	2	0	0	0	0	0	122
09:30	0	1	3	19	46	50	15	6	2	0	0	0	0	0	142
09:45	1	1	6	54	122	144	75	29	9	0	0	0	0	0	441
10:00	0	0	2	9	21	55	29	5	3	0	0	0	0	0	124
10:15	0	0	0	10	19	46	26	8	1	0	0	0	0	0	110
10:30	0	0	1	22	66	41	14	12	1	0	0	0	0	0	157
10:45	0	1	2	8	23	40	23	15	3	0	0	1	0	0	116
11:00	0	1	5	49	129	182	92	40	8	0	0	1	0	0	507
11:15	6	5	10	13	19	24	12	3	1	0	0	0	0	0	93
11:30	1	2	10	23	44	42	11	7	0	0	0	0	0	0	140
11:45	0	0	4	22	49	44	15	2	1	0	0	0	0	0	137
12:00	0	4	5	24	50	47	17	3	2	1	0	0	0	0	153
12:15	7	11	29	82	162	157	55	15	4	1	0	0	0	0	523
12:30	0	6	22	18	29	18	8	3	0	0	0	0	0	0	104
12:45	0	0	11	25	57	34	19	8	0	1	0	0	0	0	155
13:00	0	4	23	38	54	39	17	0	0	0	0	0	0	0	175
13:15	0	0	13	37	44	42	6	9	1	0	0	0	0	0	152
13:30	0	10	69	118	184	133	50	20	1	1	0	0	0	0	586
13:45	0	2	7	42	74	26	8	5	0	0	0	0	0	0	164
14:00	0	1	18	27	57	39	16	3	0	0	0	0	0	0	161
14:15	0	0	12	39	49	28	14	2	0	0	0	0	0	0	144
14:30	4	3	19	33	56	34	11	4	0	0	0	0	0	0	164
14:45	4	6	56	141	236	127	49	14	0	0	0	0	0	0	633
Total	13	31	173	498	1017	968	469	184	38	7	1	1	0	0	3400

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103
West Palm Beach, FL 33407

Site Code: 3NB
SR A1A north of Harbor Dr

Northbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
12 PM	0	1	10	44	46	30	16	4	0	0	0	0	0	0	151
12:15	4	9	16	34	47	30	20	5	0	0	0	0	0	0	165
12:30	1	22	21	30	47	26	16	1	1	0	0	0	0	0	165
12:45	14	15	34	36	38	20	9	1	0	0	0	0	0	0	167
13:00	19	47	81	144	178	106	61	11	1	0	0	0	0	0	648
13:15	3	15	28	46	55	28	8	6	0	0	0	0	0	0	189
13:30	0	2	7	30	55	34	18	1	1	0	0	0	0	0	148
13:45	0	1	12	53	43	29	12	2	0	0	0	0	0	0	152
14:00	0	0	21	39	61	26	6	1	0	0	0	0	0	0	154
14:15	3	18	68	168	214	117	44	10	1	0	0	0	0	0	643
14:30	0	0	13	37	43	49	13	2	0	0	0	0	0	0	157
14:45	0	3	10	21	46	41	10	1	0	0	0	0	0	0	132
15:00	1	15	26	29	53	24	9	1	1	0	0	0	0	0	159
15:15	0	0	8	43	57	43	14	5	1	0	0	0	0	0	171
15:30	1	18	57	130	199	157	46	9	2	0	0	0	0	0	619
15:45	1	1	10	46	42	35	22	3	0	0	0	0	0	0	160
16:00	0	5	4	20	50	55	17	3	0	2	0	0	0	0	156
16:15	1	2	9	23	51	36	17	3	1	0	0	0	0	0	143
16:30	0	0	9	67	60	42	12	1	0	1	0	0	0	0	192
16:45	2	8	32	156	203	168	68	10	1	3	0	0	0	0	651
17:00	0	0	6	31	83	42	26	8	1	0	0	0	0	0	197
17:15	0	1	21	36	58	39	16	3	0	0	0	0	0	0	174
17:30	0	1	5	35	57	44	11	0	0	0	0	0	0	0	153
17:45	1	2	17	24	36	40	15	4	0	0	0	0	0	0	139
18:00	1	4	49	126	234	165	68	15	1	0	0	0	0	0	663
18:15	2	11	32	38	51	36	9	1	0	0	0	0	0	0	180
18:30	0	5	18	37	60	46	12	1	0	0	0	0	0	0	179
18:45	3	10	31	63	52	22	2	0	0	0	0	0	0	0	183
19:00	0	6	16	38	49	39	18	2	1	0	0	0	0	0	169
19:15	5	32	97	176	212	143	41	4	1	0	0	0	0	0	711
19:30	0	1	5	28	54	69	33	3	0	0	0	0	0	0	193
19:45	0	2	25	27	69	32	11	4	0	0	0	0	0	0	170
20:00	0	1	16	45	43	29	5	3	2	0	0	0	0	0	144
20:15	1	0	7	25	65	38	8	2	1	0	0	0	0	0	147
20:30	1	4	53	125	231	168	57	12	3	0	0	0	0	0	654
20:45	5	2	14	28	38	32	2	2	0	0	0	0	0	0	123
21:00	0	3	11	33	41	37	12	0	0	0	1	0	0	0	138
21:15	3	15	18	46	58	36	11	4	0	0	0	0	0	0	191
21:30	0	9	29	44	59	27	14	0	0	0	0	0	0	0	182
21:45	8	29	72	151	196	132	39	6	0	0	1	0	0	0	634
22:00	0	4	18	37	55	21	5	3	0	0	0	0	0	0	143
22:15	0	0	10	29	29	13	8	0	0	0	0	0	0	0	89
22:30	0	1	11	30	50	24	10	2	0	0	0	0	0	0	128
22:45	0	2	13	29	37	15	7	2	0	0	0	0	0	0	105
23:00	0	7	52	125	171	73	30	7	0	0	0	0	0	0	465
23:15	0	1	3	15	40	39	5	0	0	1	0	0	0	0	104
23:30	0	2	3	19	38	24	6	0	0	0	0	0	0	0	92
23:45	0	1	0	10	47	17	9	1	0	0	0	0	0	0	85
24:00	0	0	3	12	34	30	10	1	0	0	0	0	0	0	90
24:15	0	4	9	56	159	110	30	2	0	1	0	0	0	0	371
24:30	0	1	1	9	33	24	5	0	0	0	0	0	0	0	73
24:45	0	2	1	12	28	31	5	0	0	0	0	0	0	0	79
25:00	0	3	9	15	40	22	4	1	0	0	0	0	0	0	94
25:15	0	0	1	14	31	14	13	1	0	0	0	0	0	0	74
25:30	0	6	12	50	132	91	27	2	0	0	0	0	0	0	320
25:45	0	0	1	7	42	32	6	0	3	0	0	0	0	0	91
26:00	0	0	0	8	22	24	7	4	0	0	0	0	0	0	65
26:15	0	0	1	5	22	31	8	3	0	0	0	0	0	0	70
26:30	0	1	0	2	19	12	9	2	1	0	0	0	0	0	46
26:45	0	1	2	22	105	99	30	9	4	0	0	0	0	0	272
Total	40	178	584	1429	2234	1529	541	97	14	4	1	0	0	0	6651
Grand Total	53	209	757	1927	3251	2497	1010	281	52	11	2	1	0	0	10051

15th Percentile : 25 MPH
 50th Percentile : 33 MPH
 85th Percentile : 40 MPH
 95th Percentile : 44 MPH

Stats
 Mean Speed(Average) : 33 MPH
 10 MPH Pace Speed : 30-39 MPH
 Number in Pace : 5442
 Percent in Pace : 54.1%
 Number of Vehicles > 30 MPH : 7105
 Percent of Vehicles > 30 MPH : 70.7%

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103

West Palm Beach, FL 33407

Site Code: 3SB

SR A1A north of Harbor Dr

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
08/13/15	0	1	0	2	9	14	4	2	3	0	0	0	0	0	35
00:15	0	0	0	1	13	10	5	3	0	0	0	0	1	0	33
00:30	0	0	1	2	12	9	9	0	0	0	0	0	0	0	33
00:45	0	0	0	4	5	7	5	1	1	0	0	0	0	0	23
01:00	0	1	1	9	39	40	23	6	4	0	0	0	1	0	124
01:15	0	0	0	0	6	3	3	2	0	2	0	0	0	0	16
01:30	0	0	1	1	6	12	6	3	1	0	0	0	0	0	30
01:45	1	0	1	1	6	9	4	2	0	0	0	0	0	0	24
02:00	0	0	0	2	8	9	4	1	0	0	0	0	0	0	24
02:15	1	0	2	4	26	33	17	8	1	2	0	0	0	0	94
02:30	0	0	1	1	1	3	3	1	0	0	0	0	0	0	10
02:45	0	0	1	2	1	3	3	0	0	0	0	0	0	0	10
03:00	0	0	1	0	2	7	3	0	0	0	0	0	0	0	13
03:15	0	0	1	2	4	7	4	0	2	0	1	0	0	0	21
03:30	0	0	4	5	8	20	13	1	2	0	1	0	0	0	54
03:45	0	0	1	1	1	10	1	2	1	0	1	0	0	0	18
04:00	0	0	0	1	6	5	4	0	0	0	0	0	0	0	16
04:15	0	0	0	0	2	4	7	2	1	0	0	0	0	0	16
04:30	0	0	1	0	1	4	3	1	0	0	0	0	0	0	10
04:45	0	0	2	2	10	23	15	5	2	0	1	0	0	0	60
05:00	0	0	0	1	2	9	9	2	0	0	0	0	0	0	23
05:15	0	0	0	0	2	3	10	5	0	0	0	0	0	0	20
05:30	0	1	1	2	5	12	4	4	3	0	0	0	0	0	32
05:45	0	0	1	3	11	15	12	10	4	2	0	0	0	0	58
06:00	0	1	2	6	20	39	35	21	7	2	0	0	0	0	133
06:15	0	1	0	1	5	13	11	7	0	0	0	0	0	0	38
06:30	0	0	0	2	7	9	17	5	1	0	0	0	0	0	41
06:45	0	2	0	2	13	23	22	16	2	0	0	0	0	0	80
07:00	1	2	3	1	5	24	25	13	4	0	0	0	0	0	78
07:15	1	5	3	6	30	69	75	41	7	0	0	0	0	0	237
07:30	1	2	2	2	14	32	35	12	2	0	0	0	0	0	102
07:45	1	5	0	3	14	30	32	12	2	0	0	0	0	0	99
08:00	1	2	1	9	36	49	42	12	1	0	0	0	0	0	153
08:15	0	3	3	10	35	49	44	8	1	0	0	0	0	0	153
08:30	3	12	6	24	99	160	153	44	6	0	0	0	0	0	507
08:45	0	1	1	7	18	48	44	23	1	0	0	0	0	0	143
09:00	0	1	1	4	38	65	42	11	1	0	0	0	0	0	163
09:15	1	1	0	9	45	49	28	20	3	0	0	0	0	0	156
09:30	1	2	1	7	33	56	27	17	2	0	0	0	0	0	146
09:45	2	5	3	27	134	218	141	71	7	0	0	0	0	0	608
10:00	2	2	8	18	42	49	25	12	4	0	0	0	0	0	162
10:15	2	10	2	23	49	37	11	7	4	1	0	0	0	0	146
10:30	3	7	2	8	34	53	33	5	1	0	0	0	0	0	146
10:45	2	3	6	13	41	48	31	14	2	0	0	0	0	0	160
11:00	9	22	18	62	166	187	100	38	11	1	0	0	0	0	614
11:15	1	2	5	25	49	42	28	7	0	0	0	0	0	0	159
11:30	3	3	5	20	51	49	20	4	0	0	0	0	0	0	155
11:45	2	5	9	36	47	52	21	2	0	0	0	0	0	0	174
12:00	2	10	14	30	46	38	23	2	0	0	0	0	0	0	165
12:15	8	20	33	111	193	181	92	15	0	0	0	0	0	0	653
12:30	1	4	11	24	46	39	21	7	2	0	0	0	0	0	155
12:45	0	2	11	23	47	44	20	5	3	0	0	0	0	0	155
13:00	3	6	8	19	61	51	17	1	1	0	0	0	0	0	167
13:15	1	4	7	22	47	47	21	3	2	0	0	0	0	0	154
13:30	5	16	37	88	201	181	79	16	8	0	0	0	0	0	631
13:45	1	2	5	24	45	47	21	5	3	0	0	0	0	0	153
14:00	0	2	7	26	58	45	12	3	0	0	0	0	0	0	153
14:15	5	5	11	41	60	43	13	3	0	0	0	0	0	0	181
14:30	5	11	15	37	63	37	7	3	0	0	0	0	0	0	178
14:45	11	20	38	128	226	172	53	14	3	0	0	0	0	0	665
Total	40	102	149	472	1152	1323	796	280	58	5	2	0	1	0	4380

McMahon Associates, Inc.

5500 Village Boulevard, Suite 103

West Palm Beach, FL 33407

Site Code: 3SB

SR A1A north of Harbor Dr

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
12 PM	6	12	19	54	64	26	8	2	0	0	0	0	0	0	191
12:15	8	9	12	32	45	52	12	2	1	0	0	0	0	0	173
12:30	1	3	14	30	39	49	21	5	2	1	0	0	0	0	165
12:45	3	12	16	25	56	28	15	1	1	0	0	0	0	0	157
	18	36	61	141	204	155	56	10	4	1	0	0	0	0	686
13:00	1	1	18	31	40	35	16	3	0	0	0	0	0	0	145
13:15	1	1	11	21	44	59	21	6	0	1	0	0	0	0	165
13:30	0	3	3	37	49	40	21	3	0	1	0	0	0	0	157
13:45	4	6	8	35	57	35	13	2	0	0	0	0	0	0	160
	6	11	40	124	190	169	71	14	0	2	0	0	0	0	627
14:00	2	8	20	32	66	34	9	3	1	0	0	0	0	0	175
14:15	5	9	10	40	71	30	12	3	0	0	0	0	0	0	180
14:30	1	6	8	29	52	46	22	2	0	0	0	0	0	0	166
14:45	2	3	11	27	77	54	19	6	0	0	0	0	0	0	199
	10	26	49	128	266	164	62	14	1	0	0	0	0	0	720
15:00	2	2	12	36	46	45	22	12	0	0	0	0	0	0	177
15:15	10	10	13	31	53	38	16	5	0	0	0	0	0	0	176
15:30	8	6	9	44	74	50	10	3	1	0	0	0	0	0	205
15:45	6	2	16	42	64	38	12	2	0	0	0	1	0	0	183
	26	20	50	153	237	171	60	22	1	0	0	1	0	0	741
16:00	13	22	30	44	64	26	7	0	1	0	0	0	0	0	207
16:15	19	21	24	39	33	38	9	3	0	0	0	0	0	0	186
16:30	18	22	16	27	45	43	15	1	0	0	0	0	0	0	187
16:45	4	6	14	29	46	28	14	5	2	0	0	0	0	0	148
	54	71	84	139	188	135	45	9	3	0	0	0	0	0	728
17:00	0	1	5	27	54	44	24	3	1	0	0	0	0	0	159
17:15	0	1	9	30	54	58	27	5	0	0	0	0	0	0	184
17:30	0	3	7	32	70	47	16	4	0	0	0	0	0	0	179
17:45	3	4	5	24	50	50	17	3	0	0	0	0	0	0	156
	3	9	26	113	228	199	84	15	1	0	0	0	0	0	678
18:00	0	2	6	26	49	43	26	3	0	0	0	0	0	0	155
18:15	0	1	5	21	45	40	27	3	0	0	0	0	0	0	142
18:30	1	6	8	32	45	48	19	4	2	0	0	0	0	0	165
18:45	0	3	4	24	48	41	21	5	0	0	0	0	0	0	146
	1	12	23	103	187	172	93	15	2	0	0	0	0	0	608
19:00	1	6	21	35	48	33	11	5	0	1	0	0	0	0	161
19:15	1	2	7	28	49	43	20	3	1	0	0	0	0	0	154
19:30	0	2	10	33	51	49	13	4	1	0	0	0	0	0	163
19:45	0	1	6	20	59	33	13	1	1	0	0	0	0	0	134
	2	11	44	116	207	158	57	13	3	1	0	0	0	0	612
20:00	0	1	2	16	58	32	13	2	0	0	0	0	0	0	124
20:15	1	2	8	17	40	32	13	3	2	0	0	0	0	0	118
20:30	1	0	1	14	52	38	11	5	0	1	0	0	0	0	123
20:45	0	1	3	19	36	35	10	2	0	0	0	0	0	0	106
	2	4	14	66	186	137	47	12	2	1	0	0	0	0	471
21:00	3	2	5	24	30	29	5	1	0	0	0	0	0	0	99
21:15	1	2	7	21	30	17	5	1	1	0	0	0	0	0	85
21:30	3	9	14	29	33	27	7	2	1	0	0	0	0	0	125
21:45	0	0	1	1	1	1	1	0	1	0	0	0	0	0	6
	7	13	27	75	94	74	18	4	3	0	0	0	0	0	315
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	129	213	418	1158	1987	1534	593	128	20	5	0	1	0	0	6186
Grand Total	169	315	567	1630	3139	2857	1389	408	78	10	2	1	1	0	10566

15th Percentile : 25 MPH
 50th Percentile : 33 MPH
 85th Percentile : 41 MPH
 95th Percentile : 45 MPH

Stats
 Mean Speed(Average) : 34 MPH
 10 MPH Pace Speed : 31-40 MPH
 Number in Pace : 5487
 Percent in Pace : 51.9%
 Number of Vehicles > 30 MPH : 7885
 Percent of Vehicles > 30 MPH : 74.6%