

Old Colony Planning Council



Robert G. Moran, Jr.
President

70 School Street
Brockton, MA 02301-4097

Pasquale Ciaramella
Executive Director

Telephone: (508) 583-1833
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Website: www.ocpcrpa.org

January 10, 2011

Mr. Timothy Walsh
Plymouth Department of Public Works
159 Camelot Drive
Plymouth, MA 02360

RE: Cliff Street Traffic Count Data Collection Project

Dear Mr. Walsh,

Per the town's request, please find the enclosed traffic count correspondence package which contains the results of an Automatic Traffic Recorder (ATR) count as well as supplemental traffic conditions analyses conducted by Old Colony Planning Council (OCPC) for Cliff Street in Plymouth. This count and supplemental information represents mainline traffic conditions (volumes, speeds, and classifications) on Cliff Street during July 21-22, 2010.

These traffic counts were conducted to provide the Town of Plymouth with current traffic conditions for Cliff Street in support of concerns raised by residents.

Should you have any questions regarding this material, or if any additional information is needed, please contact Jed Cornock at 508.583.1833 x215 or jcornock@ocpcrpa.org.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Charles Kilmer', with a long horizontal flourish extending to the right.

Charles Kilmer
Transportation Program Manager

Enclosures:

Cliff Street Traffic Data Collection Project Correspondence Package

cc: Mr. William Hallisey, Jr., Chairman, Plymouth Board of Selectmen
Mr. Sid Kashi, P.E., Plymouth Town Engineer
Mr. James Downey, EIT, Plymouth Transportation Engineer
Mr. Lee Hartmann, Plymouth Planning Director and OCPC Delegate
Ms. Valerie Massard, Plymouth Senior Planner and OCPC Alternate
Mr. Trey Joseph Wadsworth, Transportation Planner / MPO Activities Group, MassDOT
Mr. Paul Maloney, P.E., Metropolitan Planner, FHWA



Old Colony Planning Council

Traffic Counts
Plymouth, MA

70 School Street
Brockton, MA 02301
508.583.1833



Project:

Cliff Street Traffic Data Collection and Analysis Project

Data Collection Periods:

 Automatic Traffic Recorder (ATR) – July 21-22, 2010

Requestor:

Town of Plymouth

Traffic Count Summary & Analysis

Cliff Street, south of Warren Avenue (Route 3A) Summary Table

Cliff Street, south of Warren Avenue (Route 3A) Volume Chart

Cliff Street, south of Warren Avenue (Route 3A) Speed Chart

Cliff Street, south of Warren Avenue (Route 3A) Classification Chart

Town of Plymouth Cliff Street Traffic Data Collection Project

July 21-22, 2010

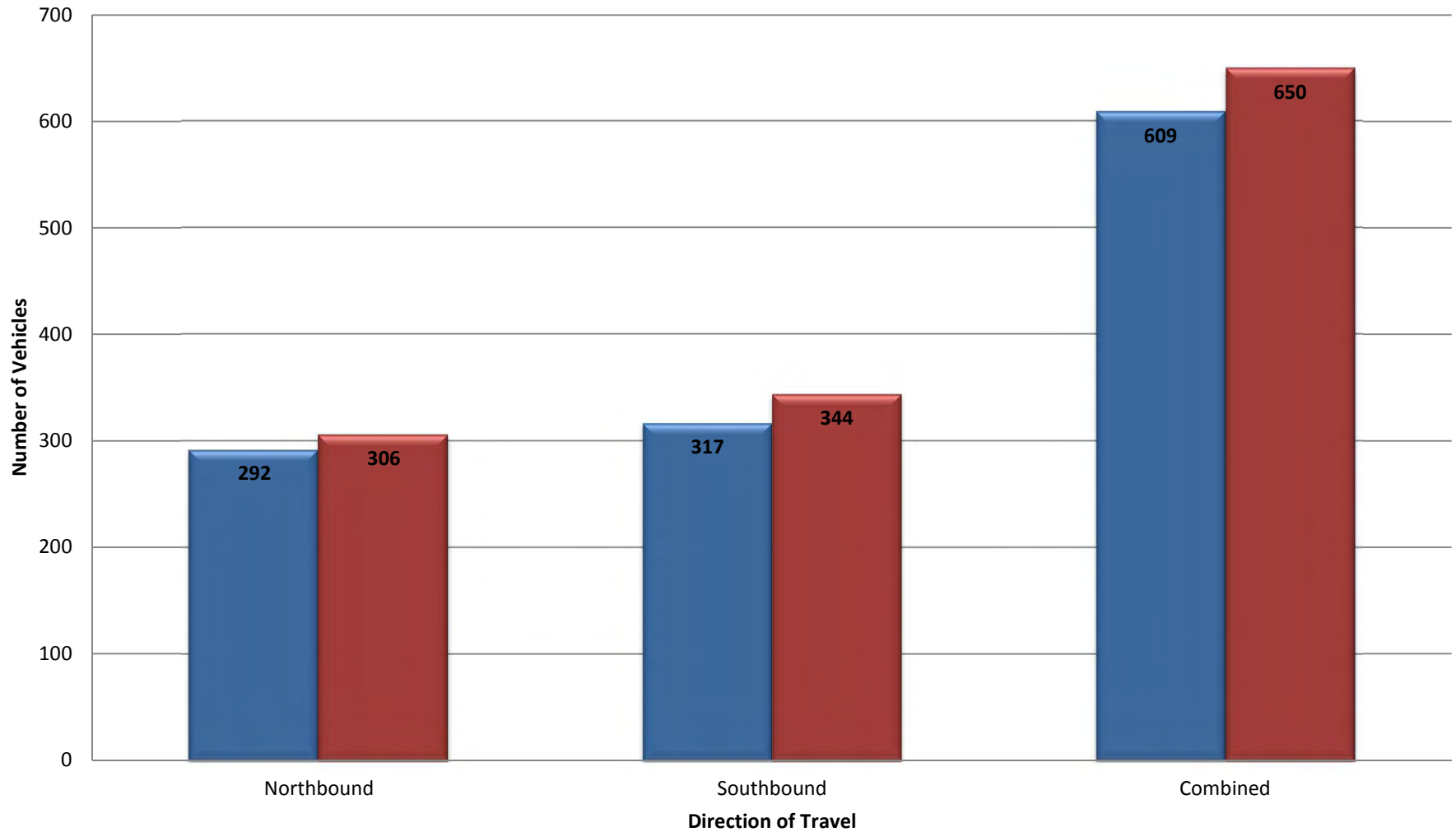
Automatic Traffic Recorder (ATR) Count(s) Summary

DATE	LOCATION	ADT	AM PEAK HOUR (PH)	AM PH VOLUME	PM PEAK HOUR (PH)	PM PH VOLUME	SPEED LIMIT *	AVG SPEED	85% SPEED	10 MPH PACE SPEED	HEAVY VEHICLE %
7/21-22/10	Cliff Street, south of Warren Avenue (Route 3A)										
	Northbound	298	10:00 AM	20	12:00 PM	29	30 MPH	26 MPH	32 MPH	21-30 MPH	4.7%
	Southbound	330	11:00 AM	22	5:00 PM	34	30 MPH	24 MPH	30 MPH	21-30 MPH	4.0%
	Average Combined Total	628						25 MPH	31 MPH	21-30 MPH	4.3%

* No Official Speed Limit Sign Posted

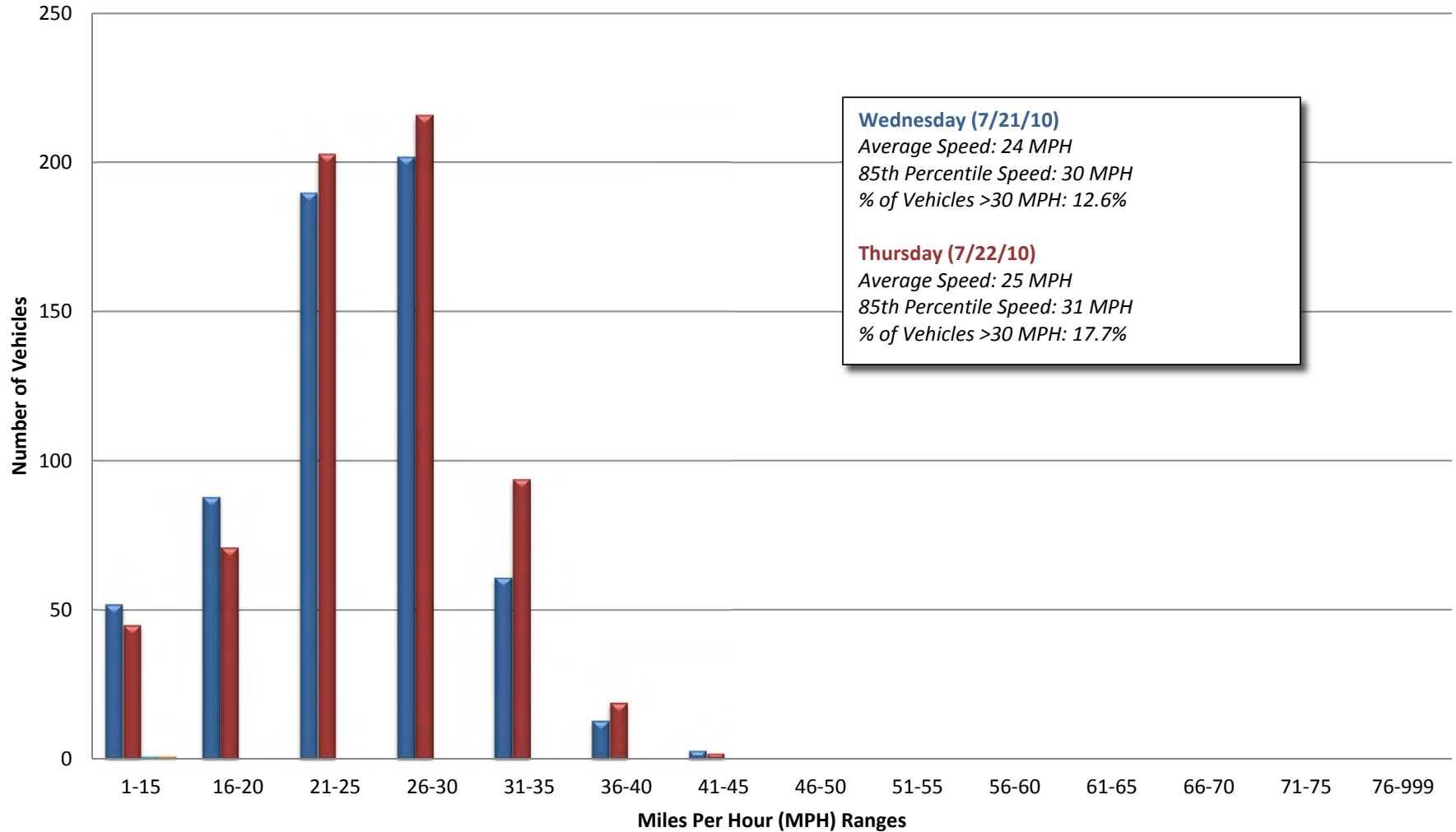
Town of Plymouth Cliff Street, south of Warren Avenue (Route 3A) 2010 Traffic Data Collection - Volume

7/21/2010 7/22/2010

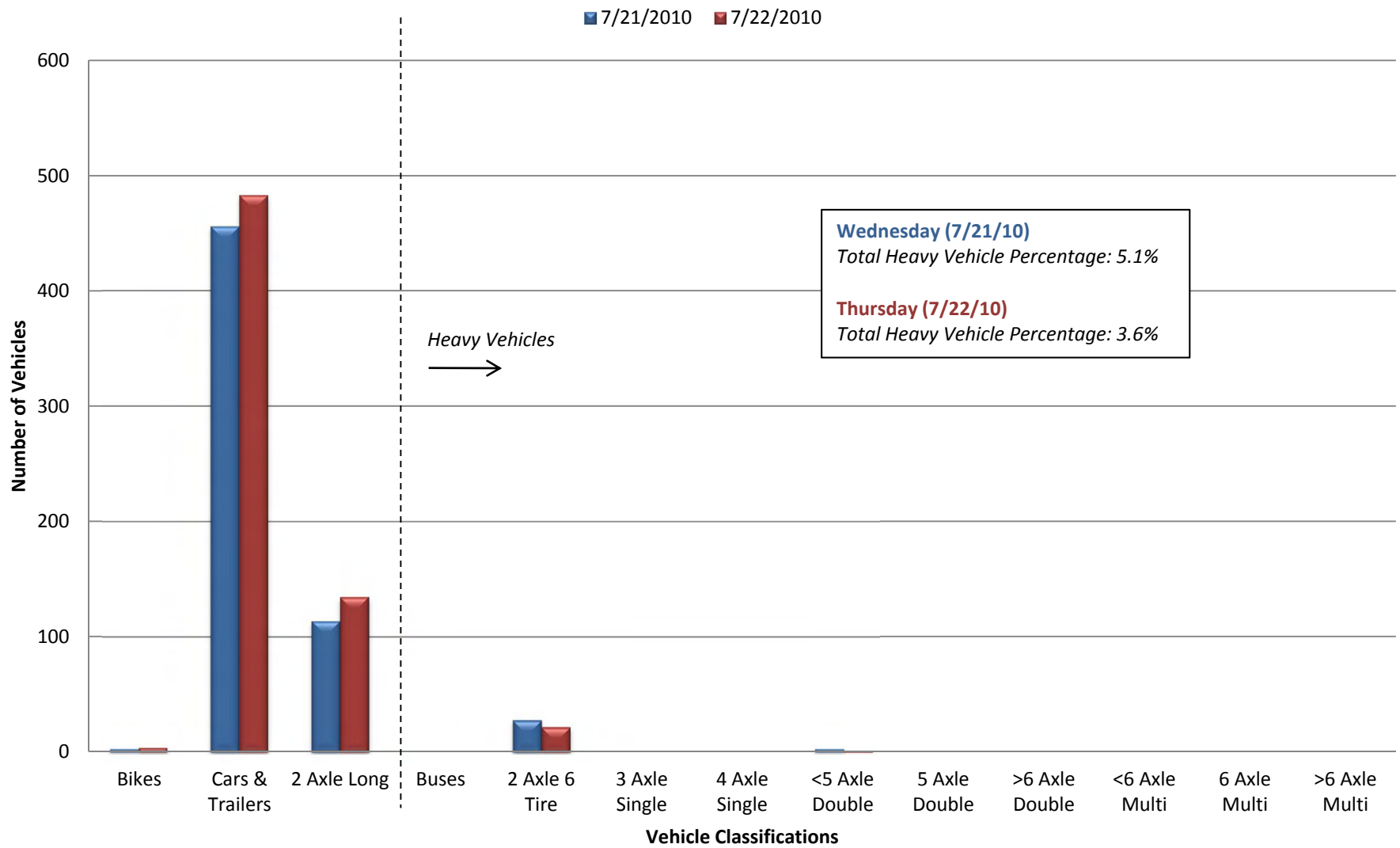


Town of Plymouth Cliff Street, south of Warren Avenue (Route 3A) 2010 Traffic Data Collection - Speed

■ 7/21/2010 ■ 7/22/2010



Town of Plymouth Cliff Street, south of Warren Avenue (Route 3A) 2010 Traffic Data Collection - Classification



Automatic Traffic Recorder (ATR) Count

Cliff Street, south of Warren Avenue (Route 3A)

Old Colony Planning Council
 70 School Street
 Brockton, MA 02301
 (508) 583-1833
 www.ocpcrpa.org

Community: Plymouth
 Com #_U/RFC: 239_U0
 Recorder #: Jamar #17
 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

Start Time	21-Jul-10 Wed		NB		SB		Combined		22-Jul-Thu		NB		SB		Combined	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	3	3	0	3	3	6	0	10	0	5	0	15				
12:15	2	9	0	4	2	13	1	7	0	6	1	13				
12:30	2	10	1	5	3	15	0	7	0	5	0	12				
12:45	1	4	1	8	2	12	0	8	1	5	1	13				
01:00	1	4	0	4	1	8	0	9	0	7	0	16				
01:15	1	4	1	8	2	12	1	8	0	5	1	13				
01:30	0	5	0	7	0	12	0	6	1	13	1	19				
01:45	0	4	0	5	0	9	1	7	0	9	1	16				
02:00	0	3	1	7	1	10	0	8	0	6	0	14				
02:15	1	6	1	4	2	10	0	8	0	4	0	12				
02:30	0	4	0	4	0	8	0	5	0	2	0	7				
02:45	0	7	0	8	0	15	0	5	1	7	1	12				
03:00	0	11	0	4	0	15	0	4	0	14	0	18				
03:15	0	5	0	10	0	15	1	7	0	12	1	19				
03:30	0	6	0	6	0	12	0	4	0	7	0	11				
03:45	0	9	0	6	0	15	0	8	0	3	0	11				
04:00	0	3	0	5	0	8	0	9	0	10	0	19				
04:15	0	5	0	5	0	10	0	3	0	8	0	11				
04:30	0	3	0	4	0	7	0	8	0	10	0	18				
04:45	0	7	0	4	0	11	0	1	0	4	0	5				
05:00	0	9	2	8	2	17	0	5	0	5	0	10				
05:15	0	2	0	8	0	10	0	5	0	7	0	12				
05:30	0	10	1	10	1	20	0	6	1	13	1	19				
05:45	0	4	2	9	2	13	1	3	0	8	1	11				
06:00	0	8	0	8	0	16	0	7	0	6	0	13				
06:15	0	6	1	2	1	8	0	4	1	4	1	8				
06:30	1	3	2	2	3	5	0	3	4	7	4	10				
06:45	0	5	2	5	2	10	1	7	3	5	4	12				
07:00	2	3	6	5	8	8	1	5	6	3	7	8				
07:15	2	2	3	1	5	3	2	6	2	4	4	10				
07:30	4	3	2	3	6	6	2	6	3	3	5	9				
07:45	5	4	8	3	13	7	8	4	3	5	11	9				
08:00	8	6	6	3	14	9	7	4	3	7	10	11				
08:15	2	0	5	4	7	4	3	4	4	2	7	6				
08:30	1	0	3	4	4	4	2	4	7	5	9	9				
08:45	3	1	5	5	8	6	2	4	4	2	6	6				
09:00	4	0	2	0	6	0	3	2	1	3	4	5				
09:15	5	5	6	1	11	6	5	0	5	3	10	3				
09:30	4	0	7	5	11	5	3	2	1	5	4	7				
09:45	2	1	7	0	9	1	4	2	4	1	8	3				
10:00	5	1	4	0	9	1	4	2	6	2	10	4				
10:15	1	2	5	2	6	4	3	0	6	3	9	3				
10:30	6	0	5	1	11	1	7	1	5	1	12	2				
10:45	6	2	1	1	7	3	7	1	2	0	9	1				
11:00	7	2	6	0	13	2	7	0	5	1	12	1				
11:15	5	2	5	1	10	3	3	2	7	1	10	3				
11:30	7	1	5	2	12	3	4	0	6	1	10	1				
11:45	7	0	7	0	14	0	1	1	3	0	4	1				
Total	98	194	113	204	211	398	84	222	95	249	179	471				
Day Total	292		317		609		306		344		650					
% Total	0.0%	16.1%	31.9%	18.6%	33.5%		12.9%	34.2%	14.6%	38.3%						
Peak	11:00	03:00	09:15	05:00	11:00	05:00	10:15	12:00	09:45	02:45	10:30	01:00				
Vol.	26	31	24	35	49	60	24	32	21	40	43	64				
P.H.F.	0.929	0.705	0.857	0.875	0.875	0.750	0.857	0.800	0.750	0.714	0.896	0.842				

Old Colony Planning Council
 70 School Street
 Brockton, MA 02301
 (508) 583-1833
 www.ocpcrpa.org

Community: Plymouth
 Com #_U/RFC: 239_U0
 Recorder #: Jamar #17
 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

Start Time	19-Jul-10 Mon	20-Jul-10 Tue	21-Jul-10 Wed	22-Jul-10 Thu	23-Jul-10 Fri	24-Jul-10 Sat	25-Jul-10 Sun	Week Average
12:00 AM	*	*	10	2	*	*	*	6
01:00	*	*	3	3	*	*	*	3
02:00	*	*	3	1	*	*	*	2
03:00	*	*	0	1	*	*	*	0
04:00	*	*	0	0	*	*	*	0
05:00	*	*	5	2	*	*	*	4
06:00	*	*	6	9	*	*	*	8
07:00	*	*	32	27	*	*	*	30
08:00	*	*	33	32	*	*	*	32
09:00	*	*	37	26	*	*	*	32
10:00	*	*	33	40	*	*	*	36
11:00	*	*	49	36	*	*	*	42
12:00 PM	*	*	46	53	*	*	*	50
01:00	*	*	41	64	*	*	*	52
02:00	*	*	43	45	*	*	*	44
03:00	*	*	57	59	*	*	*	58
04:00	*	*	36	53	*	*	*	44
05:00	*	*	60	52	*	*	*	56
06:00	*	*	39	43	*	*	*	41
07:00	*	*	24	36	*	*	*	30
08:00	*	*	23	32	*	*	*	28
09:00	*	*	12	18	*	*	*	15
10:00	*	*	9	10	*	*	*	10
11:00	*	*	8	6	*	*	*	7
Total	0	0	609	650	0	0	0	630
Percentage	0.0%	0.0%	96.7%	103.2%	0.0%	0.0%	0.0%	
AM Peak Vol.			11:00 49	10:00 40				11:00 42
PM Peak Vol.			17:00 60	13:00 64				15:00 58

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 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

NB

Start Time	15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total
7/21/10	0	1	1	3	0	1	2	0	0	0	0	0	0	0	8
01:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
02:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00	3	0	5	4	1	0	0	0	0	0	0	0	0	0	13
08:00	1	3	3	6	1	0	0	0	0	0	0	0	0	0	14
09:00	0	3	3	6	3	0	0	0	0	0	0	0	0	0	15
10:00	1	5	5	6	1	0	0	0	0	0	0	0	0	0	18
11:00	5	3	12	5	0	1	0	0	0	0	0	0	0	0	26
12 PM	2	6	9	8	1	0	0	0	0	0	0	0	0	0	26
13:00	4	2	0	9	2	0	0	0	0	0	0	0	0	0	17
14:00	2	0	6	8	4	0	0	0	0	0	0	0	0	0	20
15:00	0	2	14	8	6	1	0	0	0	0	0	0	0	0	31
16:00	0	3	2	5	7	1	0	0	0	0	0	0	0	0	18
17:00	0	4	6	11	2	2	0	0	0	0	0	0	0	0	25
18:00	1	2	5	8	4	2	0	0	0	0	0	0	0	0	22
19:00	0	1	1	6	4	0	0	0	0	0	0	0	0	0	12
20:00	0	0	3	3	1	0	0	0	0	0	0	0	0	0	7
21:00	0	2	3	1	0	0	0	0	0	0	0	0	0	0	6
22:00	0	1	2	0	1	1	0	0	0	0	0	0	0	0	5
23:00	0	0	1	1	2	1	0	0	0	0	0	0	0	0	5
Total	20	38	81	100	40	11	2	0	0	0	0	0	0	0	292

Daily
 15th Percentile : 19 MPH
 50th Percentile : 26 MPH
 85th Percentile : 32 MPH
 95th Percentile : 35 MPH
 Mean Speed(Average) : 25 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 181
 Percent in Pace : 62.0%
 Number of Vehicles > 30 MPH : 53
 Percent of Vehicles > 30 MPH : 18.2%

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 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

NB

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
7/22/10	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
01:00	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
06:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
07:00	2	1	1	4	5	0	0	0	0	0	0	0	0	0	13
08:00	0	1	2	9	1	1	0	0	0	0	0	0	0	0	14
09:00	0	2	4	3	6	0	0	0	0	0	0	0	0	0	15
10:00	1	2	7	6	4	1	0	0	0	0	0	0	0	0	21
11:00	0	1	3	7	3	1	0	0	0	0	0	0	0	0	15
12 PM	4	2	10	13	2	1	0	0	0	0	0	0	0	0	32
13:00	3	3	5	11	6	2	0	0	0	0	0	0	0	0	30
14:00	4	5	8	7	2	0	0	0	0	0	0	0	0	0	26
15:00	1	0	9	6	6	1	0	0	0	0	0	0	0	0	23
16:00	0	2	4	13	2	0	0	0	0	0	0	0	0	0	21
17:00	1	0	5	7	6	0	0	0	0	0	0	0	0	0	19
18:00	0	0	5	9	5	2	0	0	0	0	0	0	0	0	21
19:00	1	0	5	9	5	1	0	0	0	0	0	0	0	0	21
20:00	2	1	7	1	2	3	0	0	0	0	0	0	0	0	16
21:00	0	2	3	0	0	0	1	0	0	0	0	0	0	0	6
22:00	0	0	2	0	2	0	0	0	0	0	0	0	0	0	4
23:00	0	1	0	1	0	1	0	0	0	0	0	0	0	0	3
Total	20	23	81	108	58	15	1	0	0	0	0	0	0	0	306

Daily
 15th Percentile : 21 MPH
 50th Percentile : 27 MPH
 85th Percentile : 33 MPH
 95th Percentile : 36 MPH
 Mean Speed(Average) : 26 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 189
 Percent in Pace : 61.8%
 Number of Vehicles > 30 MPH : 74
 Percent of Vehicles > 30 MPH : 24.2%

Grand Total	40	61	162	208	98	26	3	0	0	0	0	0	0	0	598
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Overall
 15th Percentile : 20 MPH
 50th Percentile : 26 MPH
 85th Percentile : 32 MPH
 95th Percentile : 35 MPH
 Mean Speed(Average) : 26 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 370
 Percent in Pace : 61.9%
 Number of Vehicles > 30 MPH : 127
 Percent of Vehicles > 30 MPH : 21.2%

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 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

SB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total
7/21/10	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
01:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	1	3	1	0	0	0	0	0	0	0	0	0	5
06:00	0	0	0	4	1	0	0	0	0	0	0	0	0	0	5
07:00	1	2	11	2	3	0	0	0	0	0	0	0	0	0	19
08:00	2	3	5	8	1	0	0	0	0	0	0	0	0	0	19
09:00	2	5	4	10	1	0	0	0	0	0	0	0	0	0	22
10:00	1	2	4	8	0	0	0	0	0	0	0	0	0	0	15
11:00	7	3	8	4	1	0	0	0	0	0	0	0	0	0	23
12 PM	5	4	5	5	0	0	1	0	0	0	0	0	0	0	20
13:00	4	4	9	6	1	0	0	0	0	0	0	0	0	0	24
14:00	1	5	10	5	1	1	0	0	0	0	0	0	0	0	23
15:00	6	5	4	10	1	0	0	0	0	0	0	0	0	0	26
16:00	1	3	11	3	0	0	0	0	0	0	0	0	0	0	18
17:00	1	6	13	13	2	0	0	0	0	0	0	0	0	0	35
18:00	0	1	9	5	2	0	0	0	0	0	0	0	0	0	17
19:00	1	0	5	4	1	1	0	0	0	0	0	0	0	0	12
20:00	0	4	7	4	1	0	0	0	0	0	0	0	0	0	16
21:00	0	0	1	4	1	0	0	0	0	0	0	0	0	0	6
22:00	0	1	2	0	1	0	0	0	0	0	0	0	0	0	4
23:00	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3
Total	32	50	109	102	21	2	1	0	0	0	0	0	0	0	317

Daily
 15th Percentile : 17 MPH
 50th Percentile : 24 MPH
 85th Percentile : 29 MPH
 95th Percentile : 32 MPH
 Mean Speed(Average) : 23 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 211
 Percent in Pace : 66.6%
 Number of Vehicles > 30 MPH : 24
 Percent of Vehicles > 30 MPH : 7.6%

Community: Plymouth
 Com #_U/RFC: 239_U
 Recorder #: Jamar #17
 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

SB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total
7/22/10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	0	3	2	3	0	0	0	0	0	0	0	0	0	8
07:00	2	1	3	5	2	1	0	0	0	0	0	0	0	0	14
08:00	2	1	6	8	1	0	0	0	0	0	0	0	0	0	18
09:00	1	1	5	3	1	0	0	0	0	0	0	0	0	0	11
10:00	0	3	1	11	4	0	0	0	0	0	0	0	0	0	19
11:00	2	3	9	6	0	0	1	0	0	0	0	0	0	0	21
12 PM	2	5	6	5	3	0	0	0	0	0	0	0	0	0	21
13:00	3	6	12	9	3	1	0	0	0	0	0	0	0	0	34
14:00	2	2	11	4	0	0	0	0	0	0	0	0	0	0	19
15:00	3	4	16	10	3	0	0	0	0	0	0	0	0	0	36
16:00	2	5	14	6	4	1	0	0	0	0	0	0	0	0	32
17:00	2	4	12	10	4	1	0	0	0	0	0	0	0	0	33
18:00	0	3	7	10	2	0	0	0	0	0	0	0	0	0	22
19:00	1	2	3	6	3	0	0	0	0	0	0	0	0	0	15
20:00	2	3	4	6	1	0	0	0	0	0	0	0	0	0	16
21:00	0	3	6	3	0	0	0	0	0	0	0	0	0	0	12
22:00	1	1	1	1	2	0	0	0	0	0	0	0	0	0	6
23:00	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
Total	25	48	122	108	36	4	1	0	0	0	0	0	0	0	344

Daily
 15th Percentile : 18 MPH
 50th Percentile : 25 MPH
 85th Percentile : 30 MPH
 95th Percentile : 34 MPH
 Mean Speed(Average) : 24 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 230
 Percent in Pace : 66.9%
 Number of Vehicles > 30 MPH : 41
 Percent of Vehicles > 30 MPH : 11.9%

Grand Total	57	98	231	210	57	6	2	0	0	0	0	0	0	0	661
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Overall
 15th Percentile : 18 MPH
 50th Percentile : 24 MPH
 85th Percentile : 30 MPH
 95th Percentile : 33 MPH
 Mean Speed(Average) : 24 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 441
 Percent in Pace : 66.7%
 Number of Vehicles > 30 MPH : 65
 Percent of Vehicles > 30 MPH : 9.8%

Old Colony Planning Council
 70 School Street
 Brockton, MA 02301
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 www.ocpcrpa.org

Community: Plymouth
 Com #_U/RFC: 239_U
 Recorder #: Jamar #17
 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

NB, SB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total
7/21/10	0	1	1	4	1	1	2	0	0	0	0	0	0	0	0	10
01:00	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	5
06:00	1	0	0	4	1	0	0	0	0	0	0	0	0	0	0	6
07:00	4	2	16	6	4	0	0	0	0	0	0	0	0	0	0	32
08:00	3	6	8	14	2	0	0	0	0	0	0	0	0	0	0	33
09:00	2	8	7	16	4	0	0	0	0	0	0	0	0	0	0	37
10:00	2	7	9	14	1	0	0	0	0	0	0	0	0	0	0	33
11:00	12	6	20	9	1	1	0	0	0	0	0	0	0	0	0	49
12 PM	7	10	14	13	1	0	1	0	0	0	0	0	0	0	0	46
13:00	8	6	9	15	3	0	0	0	0	0	0	0	0	0	0	41
14:00	3	5	16	13	5	1	0	0	0	0	0	0	0	0	0	43
15:00	6	7	18	18	7	1	0	0	0	0	0	0	0	0	0	57
16:00	1	6	13	8	7	1	0	0	0	0	0	0	0	0	0	36
17:00	1	10	19	24	4	2	0	0	0	0	0	0	0	0	0	60
18:00	1	3	14	13	6	2	0	0	0	0	0	0	0	0	0	39
19:00	1	1	6	10	5	1	0	0	0	0	0	0	0	0	0	24
20:00	0	4	10	7	2	0	0	0	0	0	0	0	0	0	0	23
21:00	0	2	4	5	1	0	0	0	0	0	0	0	0	0	0	12
22:00	0	2	4	0	2	1	0	0	0	0	0	0	0	0	0	9
23:00	0	2	1	1	3	1	0	0	0	0	0	0	0	0	0	8
Total	52	88	190	202	61	13	3	0	0	0	0	0	0	0	0	609

Daily
 15th Percentile : 18 MPH
 50th Percentile : 25 MPH
 85th Percentile : 30 MPH
 95th Percentile : 34 MPH
 Mean Speed(Average) : 24 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 392
 Percent in Pace : 64.4%
 Number of Vehicles > 30 MPH : 77
 Percent of Vehicles > 30 MPH : 12.6%

Community: Plymouth
 Com #_U/RFC: 239_U
 Recorder #: Jamar #17
 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

NB, SB

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total
7/22/10	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
01:00	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
06:00	0	0	3	3	3	0	0	0	0	0	0	0	0	0	0	9
07:00	4	2	4	9	7	1	0	0	0	0	0	0	0	0	0	27
08:00	2	2	8	17	2	1	0	0	0	0	0	0	0	0	0	32
09:00	1	3	9	6	7	0	0	0	0	0	0	0	0	0	0	26
10:00	1	5	8	17	8	1	0	0	0	0	0	0	0	0	0	40
11:00	2	4	12	13	3	1	1	0	0	0	0	0	0	0	0	36
12 PM	6	7	16	18	5	1	0	0	0	0	0	0	0	0	0	53
13:00	6	9	17	20	9	3	0	0	0	0	0	0	0	0	0	64
14:00	6	7	19	11	2	0	0	0	0	0	0	0	0	0	0	45
15:00	4	4	25	16	9	1	0	0	0	0	0	0	0	0	0	59
16:00	2	7	18	19	6	1	0	0	0	0	0	0	0	0	0	53
17:00	3	4	17	17	10	1	0	0	0	0	0	0	0	0	0	52
18:00	0	3	12	19	7	2	0	0	0	0	0	0	0	0	0	43
19:00	2	2	8	15	8	1	0	0	0	0	0	0	0	0	0	36
20:00	4	4	11	7	3	3	0	0	0	0	0	0	0	0	0	32
21:00	0	5	9	3	0	0	1	0	0	0	0	0	0	0	0	18
22:00	1	1	3	1	4	0	0	0	0	0	0	0	0	0	0	10
23:00	0	2	1	2	0	1	0	0	0	0	0	0	0	0	0	6
Total	45	71	203	216	94	19	2	0	0	0	0	0	0	0	0	650

Daily
 15th Percentile : 19 MPH
 50th Percentile : 26 MPH
 85th Percentile : 31 MPH
 95th Percentile : 35 MPH
 Mean Speed(Average) : 25 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 419
 Percent in Pace : 64.5%
 Number of Vehicles > 30 MPH : 115
 Percent of Vehicles > 30 MPH : 17.7%

Grand Total	97	159	393	418	155	32	5	0	0	0	0	0	0	0	0	1259
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Overall
 15th Percentile : 18 MPH
 50th Percentile : 25 MPH
 85th Percentile : 31 MPH
 95th Percentile : 35 MPH
 Mean Speed(Average) : 25 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 811
 Percent in Pace : 64.4%
 Number of Vehicles > 30 MPH : 192
 Percent of Vehicles > 30 MPH : 15.3%

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Community: Plymouth
 Com #_U/RFC: 239_U
 Recorder #: Jamar #17
 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total	Truck Total
7/21/10	0	7	1	0	0	0	0	0	0	0	0	0	0	8	0
01:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
07:00	0	7	3	0	3	0	0	0	0	0	0	0	0	13	3
08:00	0	10	4	0	0	0	0	0	0	0	0	0	0	14	0
09:00	0	11	3	0	1	0	0	0	0	0	0	0	0	15	1
10:00	0	12	4	0	2	0	0	0	0	0	0	0	0	18	2
11:00	0	19	5	0	2	0	0	0	0	0	0	0	0	26	2
12 PM	0	19	6	0	1	0	0	0	0	0	0	0	0	26	1
13:00	0	10	4	0	1	0	0	1	0	0	0	0	0	16	2
14:00	0	18	2	0	0	0	0	0	0	0	0	0	0	20	0
15:00	0	20	8	0	3	0	0	0	0	0	0	0	0	31	3
16:00	0	14	3	0	1	0	0	0	0	0	0	0	0	18	1
17:00	0	22	3	0	0	0	0	0	0	0	0	0	0	25	0
18:00	1	18	3	0	0	0	0	0	0	0	0	0	0	22	0
19:00	0	10	2	0	0	0	0	0	0	0	0	0	0	12	0
20:00	0	5	2	0	0	0	0	0	0	0	0	0	0	7	0
21:00	0	5	0	0	1	0	0	0	0	0	0	0	0	6	1
22:00	0	2	2	0	1	0	0	0	0	0	0	0	0	5	1
23:00	0	2	2	0	1	0	0	0	0	0	0	0	0	5	1
Total	1	215	57	0	17	0	0	1	0	0	0	0	0	291	18
Percent	0.3%	73.9%	19.6%	0.0%	5.8%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak		11:00	11:00		07:00									11:00	07:00
Vol.		19	5		3									26	3
PM Peak	18:00	17:00	15:00		15:00			13:00						15:00	15:00
Vol.	1	22	8		3			1						31	3

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Community: Plymouth
 Com #_U/RFC: 239_U
 Recorder #: Jamar #17
 Tube Layout: L6 Basic (2')

Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total	Truck Total
7/21/10	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
02:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5	0
06:00	0	5	0	0	0	0	0	0	0	0	0	0	0	5	0
07:00	0	15	4	0	0	0	0	0	0	0	0	0	0	19	0
08:00	1	13	5	0	0	0	0	0	0	0	0	0	0	19	0
09:00	0	19	3	0	0	0	0	0	0	0	0	0	0	22	0
10:00	1	10	2	0	2	0	0	0	0	0	0	0	0	15	2
11:00	0	18	3	0	1	0	0	0	0	0	0	0	0	22	1
12 PM	0	16	3	0	0	0	0	1	0	0	0	0	0	20	1
13:00	0	17	5	0	1	0	0	0	0	0	0	0	0	23	1
14:00	0	19	4	0	0	0	0	0	0	0	0	0	0	23	0
15:00	0	18	6	0	1	0	0	0	0	0	0	0	0	25	1
16:00	0	13	4	0	0	0	0	1	0	0	0	0	0	18	1
17:00	0	26	5	0	3	0	0	0	0	0	0	0	0	34	3
18:00	0	15	1	0	1	0	0	0	0	0	0	0	0	17	1
19:00	0	5	7	0	0	0	0	0	0	0	0	0	0	12	0
20:00	0	14	1	0	1	0	0	0	0	0	0	0	0	16	1
21:00	0	4	2	0	0	0	0	0	0	0	0	0	0	6	0
22:00	0	3	0	0	1	0	0	0	0	0	0	0	0	4	1
23:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3	0
Total	2	241	57	0	11	0	0	2	0	0	0	0	0	313	13
Percent	0.6%	77.0%	18.2%	0.0%	3.5%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak	08:00	09:00	08:00		10:00									09:00	10:00
Vol.	1	19	5		2									22	2
PM Peak		17:00	19:00		17:00			12:00						17:00	17:00
Vol.		26	7		3			1						34	3

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Station ID:
 Site Code: 239
 Date Start: 21-Jul-10
 Date End: 22-Jul-10
 Cliff St, south of Warren Ave (3A)

NB, SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total	Truck Total
7/21/10	0	9	1	0	0	0	0	0	0	0	0	0	0	10	0
01:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3	0
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5	0
06:00	0	6	0	0	0	0	0	0	0	0	0	0	0	6	0
07:00	0	22	7	0	3	0	0	0	0	0	0	0	0	32	3
08:00	1	23	9	0	0	0	0	0	0	0	0	0	0	33	0
09:00	0	30	6	0	1	0	0	0	0	0	0	0	0	37	1
10:00	1	22	6	0	4	0	0	0	0	0	0	0	0	33	4
11:00	0	37	8	0	3	0	0	0	0	0	0	0	0	48	3
12 PM	0	35	9	0	1	0	0	1	0	0	0	0	0	46	2
13:00	0	27	9	0	2	0	0	1	0	0	0	0	0	39	3
14:00	0	37	6	0	0	0	0	0	0	0	0	0	0	43	0
15:00	0	38	14	0	4	0	0	0	0	0	0	0	0	56	4
16:00	0	27	7	0	1	0	0	1	0	0	0	0	0	36	2
17:00	0	48	8	0	3	0	0	0	0	0	0	0	0	59	3
18:00	1	33	4	0	1	0	0	0	0	0	0	0	0	39	1
19:00	0	15	9	0	0	0	0	0	0	0	0	0	0	24	0
20:00	0	19	3	0	1	0	0	0	0	0	0	0	0	23	1
21:00	0	9	2	0	1	0	0	0	0	0	0	0	0	12	1
22:00	0	5	2	0	2	0	0	0	0	0	0	0	0	9	2
23:00	0	4	3	0	1	0	0	0	0	0	0	0	0	8	1
Total	3	456	114	0	28	0	0	3	0	0	0	0	0	604	31
Percent	0.5%	75.5%	18.9%	0.0%	4.6%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak	08:00	11:00	08:00		10:00									11:00	10:00
Vol.	1	37	9		4									48	4
PM Peak	18:00	17:00	15:00		15:00			12:00						17:00	15:00
Vol.	1	48	14		4			1						59	4

