

# Intersection Traffic Counts

**Intersection:** Plymouth Rd & I-394 South Ramp  
**Start Date:** Wed, Mar 13, 2019  
**Duration:** 6-9,11-13,15-18:00

**Prepared by:** Associated Consulting Services LLC  
 www.acsteam.com  
 (612) 568-3227

All Vehicles (6-9,11-13,15-18:00) at Plymouth Rd & I-394 South Ramp																										
Start Time	Plymouth Rd North Leg (Southbound)						I-394 South Ramp East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Target Access West Leg (Eastbound)						15-min Veh Total	15-min Ped* Total
	U	L	T	R	App	Ped*	U	L	T	R	App	Ped*	U	L	T	R	App	Ped*	U	L	T	R	App	Ped*		
6:00	-	15	9	4	28	-	-	10	2	4	16	-	-	1	16	16	33	-	-	4	4	-	8	-	85	-
6:15	-	10	17	2	29	-	-	10	2	8	20	-	-	-	11	8	19	-	-	1	3	-	4	-	72	-
6:30	-	22	25	9	56	-	-	21	7	9	37	-	-	-	23	31	54	-	-	3	9	2	14	-	161	-
6:45	-	14	25	10	49	-	-	22	8	19	49	-	-	1	33	24	58	-	-	4	7	-	11	-	167	-
7:00	-	23	34	11	68	-	-	22	18	20	60	-	-	-	29	21	50	-	-	2	14	3	19	-	197	-
7:15	-	31	53	17	101	-	-	14	12	19	45	-	-	1	40	27	68	-	-	5	9	-	14	-	228	-
7:30	-	27	65	23	115	-	-	23	12	26	61	-	-	-	51	26	77	-	-	9	11	-	20	-	273	-
7:45	1	42	120	30	193	-	-	31	20	32	83	-	-	1	80	28	109	-	-	10	17	2	29	-	414	-
8:00	1	30	125	16	172	-	-	29	12	27	68	-	-	1	68	26	95	-	-	15	15	1	31	-	366	-
8:15	1	46	152	38	237	-	-	36	20	25	81	-	-	-	62	24	86	-	-	14	8	-	22	1	426	1
8:30	-	47	120	34	201	-	-	49	19	27	95	-	-	2	55	36	93	-	-	11	19	1	31	-	420	-
8:45	2	44	82	43	171	-	-	48	27	31	106	-	-	-	51	34	85	-	-	14	9	2	25	-	387	-
9:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00	3	56	79	52	190	-	-	32	31	20	83	-	1	2	86	51	140	-	-	30	23	4	57	-	470	-
11:15	-	45	104	50	199	-	-	74	35	37	146	-	-	1	113	47	161	-	-	28	21	4	53	-	559	-
11:30	-	49	98	60	207	-	-	56	33	34	123	-	-	3	118	48	169	-	-	34	30	6	70	-	569	-
11:45	1	51	122	60	234	-	-	58	28	40	126	-	-	1	130	50	181	-	1	50	21	7	79	-	620	-
12:00	2	63	124	56	245	-	-	55	38	43	136	-	-	2	130	52	184	-	-	39	26	7	72	-	637	-
12:15	1	44	103	53	201	-	-	55	34	37	126	-	-	5	142	58	205	-	-	45	30	9	84	-	616	-
12:30	-	50	104	74	228	-	-	39	26	28	93	-	-	4	181	66	251	-	-	35	28	8	71	-	643	-
12:45	-	41	97	59	197	-	-	40	34	31	105	-	-	2	175	57	234	-	-	59	28	5	92	-	628	-
13:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15:00	-	59	62	60	181	-	-	35	29	33	97	-	1	-	134	47	182	-	-	49	27	3	79	-	539	-
15:15	1	53	76	58	188	-	-	21	35	25	81	-	-	6	139	49	194	-	-	28	22	3	53	-	516	-
15:30	-	86	81	63	230	-	-	30	29	38	97	-	-	4	132	55	191	-	-	46	33	5	84	-	602	-
15:45	-	60	75	59	194	-	-	38	35	36	109	-	-	6	152	50	208	-	-	31	23	1	55	-	566	-
16:00	1	105	89	60	255	-	-	36	29	26	91	-	-	6	156	56	218	-	-	53	29	4	86	-	650	-
16:15	-	80	101	73	254	-	-	32	25	29	86	-	-	3	160	43	206	-	-	29	33	9	71	1	617	1
16:30	1	117	130	77	325	-	-	40	28	34	102	-	-	4	163	47	214	-	-	43	28	4	75	-	716	-
16:45	1	90	127	63	281	-	-	32	28	19	79	-	1	2	146	60	209	-	-	54	37	8	99	-	668	-
17:00	-	127	158	73	358	-	-	39	22	29	90	-	-	4	170	66	240	-	-	39	49	6	94	-	782	-
17:15	-	122	184	75	381	-	-	31	20	27	78	-	1	5	180	61	247	-	1	41	27	11	80	-	786	-
17:30	3	106	136	74	319	-	-	25	18	22	65	-	-	7	164	65	236	-	-	45	40	13	98	-	718	-
17:45	2	66	132	82	282	-	-	39	20	26	85	-	-	1	136	55	192	-	-	26	38	4	68	-	627	-
<b>Total</b>	21	1821	3009	1518	6369	-	-	1122	736	861	2719	-	4	75	3426	1384	4889	-	2	896	718	132	1748	2	15725	2
<b>% App</b>	0%	29%	47%	24%	100%	-	-	41%	27%	32%	100%	-	0%	2%	70%	28%	100%	-	0%	51%	41%	8%	100%	-	-	-
<b>% Total</b>	0%	12%	19%	10%	41%	-	-	7%	5%	5%	17%	-	0%	0%	22%	9%	31%	-	0%	6%	5%	1%	11%	100%	100%	100%
<b>Passenger Vehicles</b>	20	1767	2968	1492	6247	-	-	1099	727	830	2656	-	3	73	3376	1351	4803	-	2	883	710	129	1724	-	15430	-
<b>Passenger Vehicles %</b>	95%	97%	99%	98%	98%	-	-	98%	99%	96%	98%	-	75%	97%	99%	98%	98%	-	100%	99%	99%	98%	99%	-	98%	-
<b>HC Vehicles</b>	1	54	41	26	122	-	-	23	9	31	63	-	1	2	50	33	86	-	-	13	8	3	24	-	295	-
<b>HC Vehicles %</b>	5%	3%	1%	2%	2%	-	-	2%	1%	4%	2%	-	25%	3%	1%	2%	2%	-	-	1%	1%	2%	1%	-	2%	-

U = U-Turn, L = Left, T = Thru, R = Right, App = Approach Total  
 Ped\* = pedestrians and bicyclists on crosswalk  
 % App = percentage of specific movement total in relation to its approach total  
 % Total = percentage of specific movement total in relation to its intersection total  
 Passenger Vehicles % = percentage of passenger vehicle total in a specific movement  
 HC Vehicles % = percentage of heavy commercial vehicle total in a specific movement  
 dash (-) in the table indicates zero or not applicable

# Intersection Traffic Counts

Intersection: Plymouth Rd & I-394 South Ramp

Prepared by: Associated Consulting Services LLC

Start Date: Wed, Mar 13, 2019

www.acsteam.com

Duration: 6-9,11-13,15-18:00

(612) 568-3227

All Vehicles_AM Peak (7:45AM-8:45AM) at Plymouth Rd & I-394 South Ramp																										
Start Time	Plymouth Rd North Leg (Southbound)						I-394 South Ramp East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Target Access West Leg (Eastbound)				15-min Veh Total	15-min Ped* Total		
	U	L	T	R	App	Ped*	U	L	T	R	App	Ped*	U	L	T	R	App	Ped*	U	L	T	R			App	Ped*
7:45	1	42	120	30	193	-	-	31	20	32	83	-	-	1	80	28	109	-	-	10	17	2	29	-	414	-
8:00	1	30	125	16	172	-	-	29	12	27	68	-	-	1	68	26	95	-	-	15	15	1	31	-	366	-
8:15	1	46	152	38	237	-	-	36	20	25	81	-	-	-	62	24	86	-	-	14	8	-	22	1	426	1
8:30	-	47	120	34	201	-	-	49	19	27	95	-	-	2	55	36	93	-	-	11	19	1	31	-	420	-
<b>Total</b>	3	165	517	118	803	-	-	145	71	111	327	-	-	4	265	114	383	-	-	50	59	4	113	1	1626	1
<b>% App</b>	0%	21%	64%	15%	100%	-	-	44%	22%	34%	100%	-	-	1%	69%	30%	100%	-	-	44%	52%	4%	100%	-	-	-
<b>% Total</b>	0%	10%	32%	7%	49%	-	-	9%	4%	7%	20%	-	-	0%	16%	7%	24%	-	-	3%	4%	0%	7%	100%	100%	100%
<b>PHF</b>	0.750	0.878	0.850	0.776	0.847	-	-	0.740	0.888	0.867	0.861	-	-	0.500	0.828	0.792	0.878	-	-	0.833	0.776	0.500	0.911	-	0.954	-
<b>Passenger Vehicles</b>	2	155	504	114	775	-	-	140	69	107	316	-	-	4	257	110	371	-	-	45	59	4	108	-	1570	-
<b>Passenger Vehicles %</b>	67%	94%	97%	97%	97%	-	-	97%	97%	96%	97%	-	-	100%	97%	96%	97%	-	-	90%	100%	100%	96%	-	97%	-
<b>HC Vehicles</b>	1	10	13	4	28	-	-	5	2	4	11	-	-	-	8	4	12	-	-	5	-	-	5	-	56	-
<b>HC Vehicles %</b>	33%	6%	3%	3%	3%	-	-	3%	3%	4%	3%	-	-	-	3%	4%	3%	-	-	10%	-	-	4%	-	3%	-

All Vehicles_Midday Peak (12:00PM-1:00PM) at Plymouth Rd & I-394 South Ramp																										
Start Time	Plymouth Rd North Leg (Southbound)						I-394 South Ramp East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Target Access West Leg (Eastbound)				15-min Veh Total	15-min Ped* Total		
	U	L	T	R	App	Ped*	U	L	T	R	App	Ped*	U	L	T	R	App	Ped*	U	L	T	R			App	Ped*
12:00	2	63	124	56	245	-	-	55	38	43	136	-	-	2	130	52	184	-	-	39	26	7	72	-	637	-
12:15	1	44	103	53	201	-	-	55	34	37	126	-	-	5	142	58	205	-	-	45	30	9	84	-	616	-
12:30	-	50	104	74	228	-	-	39	26	28	93	-	-	4	181	66	251	-	-	35	28	8	71	-	643	-
12:45	-	41	97	59	197	-	-	40	34	31	105	-	-	2	175	57	234	-	-	59	28	5	92	-	628	-
<b>Total</b>	3	198	428	242	871	-	-	189	132	139	460	-	-	13	628	233	874	-	-	178	112	29	319	-	2524	-
<b>% App</b>	0%	23%	49%	28%	100%	-	-	41%	29%	30%	100%	-	-	1%	72%	27%	100%	-	-	56%	35%	9%	100%	-	-	-
<b>% Total</b>	0%	8%	17%	10%	35%	-	-	7%	5%	6%	18%	-	-	1%	25%	9%	35%	-	-	7%	4%	1%	13%	-	100%	-
<b>PHF</b>	0.375	0.786	0.863	0.818	0.889	-	-	0.859	0.868	0.808	0.846	-	-	0.650	0.867	0.883	0.871	-	-	0.754	0.933	0.806	0.867	-	0.981	-
<b>Passenger Vehicles</b>	3	187	421	239	850	-	-	183	131	133	447	-	-	12	622	223	857	-	-	178	112	29	319	-	2473	-
<b>Passenger Vehicles %</b>	100%	94%	98%	99%	98%	-	-	97%	99%	96%	97%	-	-	92%	99%	96%	98%	-	-	100%	100%	100%	100%	-	98%	-
<b>HC Vehicles</b>	-	11	7	3	21	-	-	6	1	6	13	-	-	1	6	10	17	-	-	-	-	-	-	-	51	-
<b>HC Vehicles %</b>	-	6%	2%	1%	2%	-	-	3%	1%	4%	3%	-	-	8%	1%	4%	2%	-	-	-	-	-	-	-	2%	-

All Vehicles_PM Peak (4:45PM-5:45PM) at Plymouth Rd & I-394 South Ramp																												
Start Time	Plymouth Rd North Leg (Southbound)						I-394 South Ramp East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Target Access West Leg (Eastbound)				15-min Veh Total	15-min Ped* Total				
	U	L	T	R	App	Ped*	U	L	T	R	App	Ped*	U	L	T	R	App	Ped*	U	L	T	R			App	Ped*		
16:45	1	90	127	63	281	-	-	32	28	19	79	-	-	1	2	146	60	209	-	-	54	37	8	99	-	668	-	
17:00	-	127	158	73	358	-	-	39	22	29	90	-	-	4	170	66	240	-	-	39	49	6	94	-	782	-		
17:15	-	122	184	75	381	-	-	31	20	27	78	-	-	1	5	180	61	247	-	-	41	27	11	80	-	786	-	
17:30	3	106	136	74	319	-	-	25	18	22	65	-	-	7	164	65	236	-	-	45	40	13	98	-	718	-		
<b>Total</b>	4	445	605	285	1339	-	-	127	88	97	312	-	-	2	18	660	252	932	-	-	179	153	38	371	-	2954	-	
<b>% App</b>	0%	33%	45%	21%	100%	-	-	41%	28%	31%	100%	-	-	0%	2%	71%	27%	100%	-	-	48%	41%	10%	100%	-	-	-	
<b>% Total</b>	0%	15%	20%	10%	45%	-	-	4%	3%	3%	11%	-	-	0%	1%	22%	9%	32%	-	-	6%	5%	1%	13%	-	100%	-	
<b>PHF</b>	0.333	0.876	0.822	0.950	0.879	-	-	0.814	0.786	0.836	0.867	-	-	0.500	0.643	0.917	0.955	0.943	-	-	0.250	0.829	0.781	0.731	0.937	-	0.940	-
<b>Passenger Vehicles</b>	4	439	603	282	1328	-	-	127	88	95	310	-	-	2	18	651	251	922	-	-	178	153	37	369	-	2929	-	
<b>Passenger Vehicles %</b>	100%	99%	100%	99%	99%	-	-	100%	100%	98%	99%	-	-	100%	100%	99%	100%	99%	-	-	100%	99%	100%	97%	99%	-	99%	-
<b>HC Vehicles</b>	-	6	2	3	11	-	-	-	-	2	2	-	-	-	9	1	10	-	-	-	1	-	1	2	-	25	-	
<b>HC Vehicles %</b>	-	1%	0%	1%	1%	-	-	-	-	2%	1%	-	-	-	1%	0%	1%	-	-	-	1%	-	3%	1%	-	1%	-	

U = U-Turn, L = Left, T = Thru, R = Right, App = Approach Total  
 Ped\* = pedestrians and bicyclists on crosswalk  
 % App = percentage of specific movement total in relation to its approach total  
 % Total = percentage of specific movement total in relation to its intersection total  
 Passenger Vehicles % = percentage of passenger vehicle total in a specific movement  
 HC Vehicles % = percentage of heavy commercial vehicle total in a specific movement  
 dash (-) in the table indicates zero or not applicable

# Intersection Traffic Counts

**Intersection:** Plymouth Rd & I-394 South Ramp  
**Start Date:** Wed, Mar 13, 2019  
**Duration:** 6-9,11-13,15-18:00

**Prepared by:** Associated Consulting Services LLC  
 www.acsteam.com  
 (612) 568-3227

