

# Intersection Traffic Counts

Intersection: Plymouth Rd & I-394 North 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 North Ramp																											
Start Time	Plymouth Rd North Leg (Southbound)						I-394 North Ramp East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Park & Ride 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	-	4	19	-	23	-	-	9	-	23	32	-	-	-	15	7	22	-	-	-	-	-	-	1	77	1	
6:15	-	3	22	-	25	-	-	8	-	30	38	-	-	-	14	6	20	-	-	-	-	-	-	-	83	-	
6:30	-	5	36	-	41	-	-	20	-	35	55	-	-	-	23	13	36	-	-	-	-	-	-	-	132	-	
6:45	-	5	30	-	35	-	-	19	1	62	82	-	-	-	36	17	53	-	-	1	-	-	1	-	171	-	
7:00	-	7	45	-	52	-	-	23	-	66	89	-	1	1	34	16	52	-	-	1	-	-	1	-	194	-	
7:15	-	18	67	-	85	-	-	37	-	80	117	-	-	-	44	21	65	-	-	-	-	-	-	-	267	-	
7:30	-	18	96	-	114	-	-	26	-	75	101	-	1	-	62	22	85	-	-	-	-	-	-	-	300	-	
7:45	-	11	137	-	148	-	-	53	-	87	140	-	-	1	89	37	127	-	-	-	-	-	-	-	415	-	
8:00	-	16	122	-	138	-	-	45	-	93	138	-	-	-	78	25	103	-	-	-	-	1	1	-	380	-	
8:15	-	27	175	-	202	-	-	71	-	86	157	-	-	-	83	22	105	-	-	-	-	-	1	-	464	1	
8:30	-	17	151	-	168	-	-	45	-	77	122	-	-	-	62	27	89	-	-	-	-	-	1	-	379	1	
8:45	-	18	119	-	137	-	-	52	-	60	112	-	1	-	72	23	96	-	-	-	-	-	-	-	345	-	
9:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00	-	25	117	-	142	-	-	65	-	52	117	-	-	-	70	69	139	-	-	-	-	-	-	-	398	-	
11:15	-	17	129	-	146	-	-	75	-	48	123	-	1	1	109	73	184	-	-	-	-	-	-	-	453	-	
11:30	-	28	144	-	172	-	-	63	-	61	124	-	-	-	107	77	184	-	-	-	-	1	1	-	481	-	
11:45	-	20	163	-	183	-	-	67	-	60	127	-	-	-	119	99	218	-	-	-	-	-	-	-	528	-	
12:00	1	23	179	-	203	-	-	67	-	48	115	-	-	-	122	95	217	-	-	-	-	-	1	-	535	1	
12:15	-	26	126	-	152	-	-	67	1	44	112	-	-	1	133	88	222	-	-	-	-	1	1	-	487	-	
12:30	-	46	133	-	179	-	-	85	-	63	148	-	2	-	126	117	245	-	-	-	-	1	1	-	573	-	
12:45	-	27	131	-	158	-	-	72	-	51	123	-	-	-	144	120	264	-	-	-	-	-	-	-	545	-	
13:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15:00	-	41	110	-	151	-	-	62	-	51	113	-	-	-	109	111	220	-	-	-	-	-	-	-	484	-	
15:15	-	36	123	-	159	-	-	63	1	49	113	-	-	1	95	92	188	-	-	-	-	2	2	-	462	-	
15:30	-	36	162	1	199	-	-	69	-	51	120	-	1	-	109	101	211	-	-	-	-	1	1	-	531	-	
15:45	1	29	129	-	159	-	-	65	-	48	113	-	-	-	139	83	222	-	-	-	-	-	-	-	494	-	
16:00	-	55	196	-	251	1	-	60	1	54	115	-	1	1	131	102	235	-	-	1	-	1	2	1	603	2	
16:15	1	30	172	-	203	-	-	76	-	56	132	-	-	1	121	99	221	-	-	-	-	1	1	-	557	-	
16:30	-	49	235	-	284	-	-	83	1	56	140	-	-	-	150	85	235	-	-	1	-	-	1	-	660	-	
16:45	2	41	225	-	268	-	-	66	-	79	145	-	-	-	138	89	227	-	-	-	-	-	-	-	640	-	
17:00	-	29	284	1	314	-	-	71	-	68	139	-	1	-	154	79	234	-	-	-	-	-	-	-	687	-	
17:15	-	31	308	-	339	-	-	67	-	86	153	-	-	1	163	85	249	-	-	1	-	1	2	-	743	-	
17:30	-	22	220	-	242	-	-	90	1	65	156	-	-	-	154	83	237	-	-	1	-	-	1	-	636	-	
17:45	-	27	200	-	227	-	-	75	-	37	112	-	-	-	116	79	195	-	-	-	-	-	-	-	534	-	
<b>Total</b>	<b>5</b>	<b>787</b>	<b>4505</b>	<b>2</b>	<b>5299</b>	<b>1</b>	-	<b>1816</b>	<b>6</b>	<b>1901</b>	<b>3723</b>	-	<b>9</b>	<b>8</b>	<b>3121</b>	<b>2062</b>	<b>5200</b>	-	-	<b>6</b>	-	<b>10</b>	<b>16</b>	<b>5</b>	<b>14238</b>	<b>6</b>	
<b>% App</b>	0%	15%	85%	0%	100%	-	-	49%	0%	51%	100%	-	0%	0%	60%	40%	100%	-	-	38%	-	63%	100%	-	-	-	
<b>% Total</b>	0%	6%	32%	0%	37%	17%	-	13%	0%	13%	26%	-	0%	0%	22%	14%	37%	-	-	0%	-	0%	0%	83%	100%	100%	
<b>Passenger Vehicles</b>	<b>5</b>	<b>770</b>	<b>4418</b>	<b>1</b>	<b>5194</b>	-	-	<b>1785</b>	-	<b>1871</b>	<b>3656</b>	-	<b>9</b>	<b>1</b>	<b>3062</b>	<b>2031</b>	<b>5103</b>	-	-	-	-	<b>2</b>	<b>2</b>	-	<b>13955</b>	-	
<b>Passenger Vehicles %</b>	100%	98%	98%	50%	98%	-	-	98%	-	98%	98%	-	100%	13%	98%	98%	98%	-	-	-	-	20%	13%	-	98%	-	
<b>HC Vehicles</b>	-	17	87	1	105	-	-	31	6	30	67	-	-	7	59	31	97	-	-	6	-	8	14	-	283	-	
<b>HC Vehicles %</b>	-	2%	2%	50%	2%	-	-	2%	100%	2%	2%	-	-	88%	2%	2%	2%	-	-	100%	-	80%	88%	-	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 North 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 North Ramp																										
Start Time	Plymouth Rd North Leg (Southbound)						I-394 North Ramp East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Park & Ride 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	-	11	137	-	148	-	-	53	-	87	140	-	-	1	89	37	127	-	-	-	-	-	-	415	-	
8:00	-	16	122	-	138	-	-	45	-	93	138	-	-	-	78	25	103	-	-	-	-	1	1	-	380	-
8:15	-	27	175	-	202	-	-	71	-	86	157	-	-	-	83	22	105	-	-	-	-	-	1	464	1	
8:30	-	17	151	-	168	-	-	45	-	77	122	-	-	-	62	27	89	-	-	-	-	-	-	379	1	
<b>Total</b>	-	71	585	-	656	-	-	214	-	343	557	-	-	1	312	111	424	-	-	-	-	1	1	2	1638	2
<b>% App</b>	-	11%	89%	-	100%	-	-	38%	-	62%	100%	-	-	0%	74%	26%	100%	-	-	-	-	100%	100%	-	-	-
<b>% Total</b>	-	4%	36%	-	40%	-	-	13%	-	21%	34%	-	-	0%	19%	7%	26%	-	-	-	-	0%	0%	100%	100%	100%
<b>PHF</b>	-	0.657	0.836	-	0.812	-	-	0.754	-	0.922	0.887	-	-	0.250	0.876	0.750	0.835	-	-	-	-	0.250	0.250	-	0.883	-
<b>Passenger Vehicles</b>	-	67	565	-	632	-	-	206	-	338	544	-	-	-	302	105	407	-	-	-	-	-	-	1583	-	
<b>Passenger Vehicles %</b>	-	94%	97%	-	96%	-	-	96%	-	99%	98%	-	-	-	97%	95%	96%	-	-	-	-	-	-	97%	-	
<b>HC Vehicles</b>	-	4	20	-	24	-	-	8	-	5	13	-	-	1	10	6	17	-	-	-	-	1	1	-	55	-
<b>HC Vehicles %</b>	-	6%	3%	-	4%	-	-	4%	-	1%	2%	-	-	100%	3%	5%	4%	-	-	-	-	100%	100%	-	3%	-

All Vehicles_Midday Peak (12:00PM-1:00PM) at Plymouth Rd & I-394 North Ramp																										
Start Time	Plymouth Rd North Leg (Southbound)						I-394 North Ramp East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Park & Ride 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	1	23	179	-	203	-	-	67	-	48	115	-	-	-	122	95	217	-	-	-	-	-	1	535	1	
12:15	-	26	126	-	152	-	-	67	1	44	112	-	-	1	133	88	222	-	-	-	-	1	1	-	487	-
12:30	-	46	133	-	179	-	-	85	-	63	148	-	2	-	126	117	245	-	-	-	-	1	1	-	573	-
12:45	-	27	131	-	158	-	-	72	-	51	123	-	-	-	144	120	264	-	-	-	-	-	-	-	545	-
<b>Total</b>	1	122	569	-	692	-	-	291	1	206	498	-	2	1	525	420	948	-	-	-	-	2	2	1	2140	1
<b>% App</b>	0%	18%	82%	-	100%	-	-	58%	0%	41%	100%	-	0%	0%	55%	44%	100%	-	-	-	-	100%	100%	-	-	-
<b>% Total</b>	0%	6%	27%	-	32%	-	-	14%	0%	10%	23%	-	0%	0%	25%	20%	44%	-	-	-	-	0%	0%	100%	100%	100%
<b>PHF</b>	0.250	0.663	0.795	-	0.852	-	-	0.856	0.250	0.817	0.841	-	0.250	0.250	0.911	0.875	0.898	-	-	-	-	0.500	0.500	-	0.934	-
<b>Passenger Vehicles</b>	1	120	555	-	676	-	-	285	-	203	488	-	2	-	519	415	936	-	-	-	-	-	-	2100	-	
<b>Passenger Vehicles %</b>	100%	98%	98%	-	98%	-	-	98%	-	99%	98%	-	100%	-	99%	99%	99%	-	-	-	-	-	-	98%	-	
<b>HC Vehicles</b>	-	2	14	-	16	-	-	6	1	3	10	-	-	1	6	5	12	-	-	-	-	2	2	-	40	-
<b>HC Vehicles %</b>	-	2%	2%	-	2%	-	-	2%	100%	1%	2%	-	-	100%	1%	1%	1%	-	-	-	-	100%	100%	-	2%	-

All Vehicles_PM Peak (4:30PM-5:30PM) at Plymouth Rd & I-394 North Ramp																										
Start Time	Plymouth Rd North Leg (Southbound)						I-394 North Ramp East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Park & Ride 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*		
16:30	-	49	235	-	284	-	-	83	1	56	140	-	-	-	150	85	235	-	-	1	-	-	1	-	660	-
16:45	2	41	225	-	268	-	-	66	-	79	145	-	-	-	138	89	227	-	-	-	-	-	-	-	640	-
17:00	-	29	284	1	314	-	-	71	-	68	139	-	1	-	154	79	234	-	-	-	-	-	-	-	687	-
17:15	-	31	308	-	339	-	-	67	-	86	153	-	-	1	163	85	249	-	-	1	-	1	2	-	743	-
<b>Total</b>	2	150	1052	1	1205	-	-	287	1	289	577	-	1	1	605	338	945	-	-	2	-	1	3	-	2730	-
<b>% App</b>	0%	12%	87%	0%	100%	-	-	50%	0%	50%	100%	-	0%	0%	64%	36%	100%	-	-	67%	-	33%	100%	-	-	-
<b>% Total</b>	0%	5%	39%	0%	44%	-	-	11%	0%	11%	21%	-	0%	0%	22%	12%	35%	-	-	0%	-	0%	0%	-	100%	-
<b>PHF</b>	0.250	0.765	0.854	0.250	0.889	-	-	0.864	0.250	0.840	0.943	-	0.250	0.250	0.928	0.949	0.949	-	-	0.500	-	0.250	0.375	-	0.919	-
<b>Passenger Vehicles</b>	2	148	1043	-	1193	-	-	286	-	284	570	-	1	-	599	336	936	-	-	-	-	-	-	-	2699	-
<b>Passenger Vehicles %</b>	100%	99%	99%	-	99%	-	-	100%	-	98%	99%	-	100%	-	99%	99%	99%	-	-	-	-	-	-	-	99%	-
<b>HC Vehicles</b>	-	2	9	1	12	-	-	1	1	5	7	-	-	1	6	2	9	-	-	2	-	1	3	-	31	-
<b>HC Vehicles %</b>	-	1%	1%	100%	1%	-	-	0%	100%	2%	1%	-	-	100%	1%	1%	1%	-	-	100%	-	100%	100%	-	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  
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 Passenger Vehicles % = percentage of passenger vehicle total in a specific movement  
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 dash (-) in the table indicates zero or not applicable

# Intersection Traffic Counts

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

**Prepared by:** Associated Consulting Services LLC  
 www.acsteam.com  
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