

Intersection Traffic Counts

Intersection: Plymouth Rd & Cartway Ln

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 & Cartway Ln																										
Start Time	Plymouth Rd						Cartway Ln						Plymouth Rd						Cartway Ln						15-min Veh Total	15-min Ped* Total
	North Leg (Southbound)						East Leg (Westbound)						South Leg (Northbound)						West Leg (Eastbound)							
	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	-	5	13	1	19	-	-	-	-	1	1	-	-	2	26	-	28	-	-	6	-	-	6	-	54	-
6:15	-	4	19	2	25	-	-	1	-	-	1	-	-	1	15	1	17	-	-	4	1	-	5	-	48	-
6:30	-	5	33	11	49	-	-	2	2	1	5	-	-	-	39	-	39	-	-	13	2	-	15	-	108	-
6:45	-	9	28	9	46	-	-	2	-	9	11	-	-	-	35	2	37	-	-	17	2	1	20	-	114	-
7:00	-	8	35	9	52	-	-	3	1	6	10	-	-	2	30	3	35	-	-	14	1	-	15	-	112	-
7:15	-	11	60	4	75	-	-	1	-	11	12	-	-	1	43	4	48	-	-	16	3	1	20	-	155	-
7:30	-	10	65	10	85	-	-	3	2	4	9	-	-	3	58	1	62	-	-	14	2	1	17	-	173	-
7:45	-	23	115	16	154	-	-	4	2	9	15	-	-	4	80	8	92	-	-	23	2	2	27	-	288	-
8:00	-	16	128	10	154	-	-	2	1	12	15	-	-	3	58	3	64	-	-	21	1	1	23	-	256	-
8:15	-	10	171	11	192	-	-	6	2	11	19	-	-	3	52	5	60	-	-	24	2	2	28	1	299	1
8:30	-	20	124	19	163	-	-	9	4	8	21	-	-	3	64	7	74	-	-	19	2	-	21	-	279	-
8:45	-	31	84	18	133	-	-	8	3	11	22	-	-	3	51	9	63	-	-	20	4	3	27	-	245	-
9:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00	1	36	59	28	124	-	-	16	10	43	69	-	2	8	71	20	101	-	-	31	6	-	37	-	331	-
11:15	1	71	76	30	178	-	1	14	9	41	65	-	1	7	70	18	96	-	-	48	12	4	64	-	403	-
11:30	1	69	54	36	160	-	-	8	13	46	67	-	1	7	74	22	104	-	-	49	8	3	60	-	391	-
11:45	1	67	81	39	188	-	-	17	15	62	94	1	1	4	88	25	118	-	-	40	7	4	51	-	451	1
12:00	-	66	79	38	183	-	-	11	13	55	79	-	1	9	77	24	111	-	-	46	10	9	65	-	438	-
12:15	-	65	75	31	171	1	-	17	13	79	109	-	2	12	72	21	107	-	-	58	12	6	76	-	463	1
12:30	-	55	62	34	151	-	-	19	17	106	142	-	1	11	92	10	114	-	-	51	14	4	69	-	476	-
12:45	-	53	62	29	144	-	-	19	13	109	141	-	1	6	91	24	122	-	-	36	10	2	48	-	455	-
13:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15:00	-	30	45	24	99	-	-	20	19	75	114	-	-	7	72	13	92	1	-	36	9	2	47	1	352	2
15:15	1	34	45	23	103	-	-	12	12	60	84	-	2	7	85	17	111	-	-	34	8	2	44	-	342	-
15:30	-	41	53	17	111	-	-	12	17	69	98	-	1	7	94	13	115	-	-	41	7	4	52	-	376	-
15:45	-	32	60	25	117	-	-	20	10	62	92	-	5	11	104	20	140	-	-	38	7	1	46	1	395	1
16:00	-	45	57	25	127	-	-	19	18	65	102	-	2	9	117	24	152	-	-	37	13	2	52	-	433	-
16:15	3	41	78	19	141	1	-	12	17	61	90	1	3	9	106	19	137	1	-	38	10	6	54	-	422	3
16:30	1	55	93	28	177	-	-	25	18	52	95	-	3	11	119	20	153	-	-	43	6	10	59	-	484	-
16:45	-	38	98	26	162	-	-	21	12	63	96	-	2	6	123	30	161	-	-	27	11	2	40	-	459	-
17:00	1	56	118	31	206	-	-	27	14	62	103	-	6	14	125	30	175	-	-	47	9	6	63	-	547	-
17:15	2	59	144	21	226	-	1	17	17	69	104	-	2	12	143	27	184	-	-	41	8	3	52	-	566	-
17:30	-	46	103	30	179	-	-	18	10	57	85	-	2	8	132	23	165	-	-	38	14	3	55	-	484	-
17:45	-	56	87	28	171	-	-	12	10	59	81	-	3	13	100	22	138	-	-	34	7	2	43	-	433	-
Total	12	1167	2404	682	4265	2	2	377	294	1378	2051	2	41	203	2506	465	3215	2	1	1004	210	86	1301	3	10832	9
% App	0%	27%	56%	16%	100%	-	0%	18%	14%	67%	100%	-	1%	6%	78%	14%	100%	-	0%	77%	16%	7%	100%	-	-	-
% Total	0%	11%	22%	6%	39%	22%	0%	3%	3%	13%	19%	22%	0%	2%	23%	4%	30%	22%	0%	9%	2%	1%	12%	33%	100%	100%
Passenger Vehicles	12	1159	2372	659	4202	-	2	374	289	1365	2030	-	41	202	2464	458	3165	-	1	971	210	83	1265	-	10662	-
Passenger Vehicles %	100%	99%	99%	97%	99%	-	100%	99%	98%	99%	99%	-	100%	100%	98%	98%	98%	-	100%	97%	100%	97%	97%	-	98%	-
HC Vehicles	-	8	32	23	63	-	-	3	5	13	21	-	-	1	42	7	50	-	-	33	-	3	36	-	170	-
HC Vehicles %	-	1%	1%	3%	1%	-	-	1%	2%	1%	1%	-	-	0%	2%	2%	2%	-	-	3%	-	3%	3%	-	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 & Cartway Ln

Start Date: Wed, Mar 13, 2019

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

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All Vehicles_AM Peak (7:45AM-8:45AM) at Plymouth Rd & Cartway Ln																										
Start Time	Plymouth Rd North Leg (Southbound)						Cartway Ln East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Cartway Ln West Leg (Eastbound)						15-min Veh Total	15-min Ped*
	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	-	23	115	16	154	-	-	4	2	9	15	-	-	4	80	8	92	-	-	23	2	2	27		
8:00	-	16	128	10	154	-	-	2	1	12	15	-	-	3	58	3	64	-	-	21	1	1	23	-	256	-
8:15	-	10	171	11	192	-	-	6	2	11	19	-	-	3	52	5	60	-	-	24	2	2	28	1	299	1
8:30	-	20	124	19	163	-	-	9	4	8	21	-	-	3	64	7	74	-	-	19	2	-	21	-	279	-
Total	-	69	538	56	663	-	-	21	9	40	70	-	-	13	254	23	290	-	-	87	7	5	99	1	1122	1
% App	-	10%	81%	8%	100%	-	-	30%	13%	57%	100%	-	-	4%	88%	8%	100%	-	-	88%	7%	5%	100%	-	-	-
% Total	-	6%	48%	5%	59%	-	-	2%	1%	4%	6%	-	-	1%	23%	2%	26%	-	-	8%	1%	0%	9%	100%	100%	100%
PHF	-	0.750	0.787	0.737	0.863	-	-	0.583	0.563	0.833	0.833	-	-	0.813	0.794	0.719	0.788	-	-	0.906	0.875	0.625	0.884	-	0.938	-
Passenger Vehicles	-	68	529	48	645	-	-	19	8	36	63	-	-	13	250	21	284	-	-	83	7	5	95	-	1087	-
Passenger Vehicles %	-	99%	98%	86%	97%	-	-	90%	89%	90%	90%	-	-	100%	98%	91%	98%	-	-	95%	100%	100%	96%	-	97%	-
HC Vehicles	-	1	9	8	18	-	-	2	1	4	7	-	-	-	4	2	6	-	-	4	-	-	4	-	35	-
HC Vehicles %	-	1%	2%	14%	3%	-	-	10%	11%	10%	10%	-	-	-	2%	9%	2%	-	-	5%	-	-	4%	-	3%	-

All Vehicles_Midday Peak (12:00PM-1:00PM) at Plymouth Rd & Cartway Ln																											
Start Time	Plymouth Rd North Leg (Southbound)						Cartway Ln East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Cartway Ln West Leg (Eastbound)						15-min Veh Total	15-min Ped*	
	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	-	66	79	38	183	-	-	11	13	55	79	-	-	1	9	77	24	111	-	-	46	10	9			65
12:15	-	65	75	31	171	-	-	17	13	79	109	-	-	2	12	72	21	107	-	-	58	12	6	76	-	463	1
12:30	-	55	62	34	151	-	-	19	17	106	142	-	-	1	11	92	10	114	-	-	51	14	4	69	-	476	-
12:45	-	53	62	29	144	-	-	19	13	109	141	-	-	1	6	91	24	122	-	-	36	10	2	48	-	455	-
Total	-	239	278	132	649	-	-	66	56	349	471	-	-	5	38	332	79	454	-	-	191	46	21	258	-	1832	1
% App	-	37%	43%	20%	100%	-	-	14%	12%	74%	100%	-	-	1%	8%	73%	17%	100%	-	-	74%	18%	8%	100%	-	-	-
% Total	-	13%	15%	7%	35%	100%	-	-	4%	3%	19%	26%	-	-	0%	2%	18%	4%	25%	-	-	10%	3%	1%	14%	-	100%
PHF	-	0.905	0.880	0.868	0.887	-	-	0.868	0.824	0.800	0.829	-	-	0.625	0.792	0.902	0.823	0.930	-	-	0.823	0.821	0.583	0.849	-	0.962	-
Passenger Vehicles	-	236	273	128	637	-	-	66	54	347	467	-	-	5	37	326	76	444	-	-	182	46	21	249	-	1797	-
Passenger Vehicles %	-	99%	98%	97%	98%	-	-	100%	96%	99%	99%	-	-	100%	97%	98%	96%	98%	-	-	95%	100%	100%	97%	-	98%	-
HC Vehicles	-	3	5	4	12	-	-	-	2	2	4	-	-	-	1	6	3	10	-	-	9	-	-	9	-	35	-
HC Vehicles %	-	1%	2%	3%	2%	-	-	-	4%	1%	1%	-	-	-	3%	2%	4%	2%	-	-	5%	-	-	3%	-	2%	-

All Vehicles_PM Peak (4:30PM-5:30PM) at Plymouth Rd & Cartway Ln																												
Start Time	Plymouth Rd North Leg (Southbound)						Cartway Ln East Leg (Westbound)						Plymouth Rd South Leg (Northbound)						Cartway Ln West Leg (Eastbound)						15-min Veh Total	15-min Ped*		
	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	1	55	93	28	177	-	-	25	18	52	95	-	-	3	11	119	20	153	-	-	43	6	10			59	-
16:45	-	38	98	26	162	-	-	21	12	63	96	-	-	2	6	123	30	161	-	-	27	11	2	40	-	459	-	
17:00	1	56	118	31	206	-	-	27	14	62	103	-	-	6	14	125	30	175	-	-	47	9	6	63	-	547	-	
17:15	2	59	144	21	226	-	-	17	17	69	104	-	-	2	12	143	27	184	-	-	41	8	3	52	-	566	-	
Total	4	208	453	106	771	-	-	90	61	246	398	-	-	13	43	510	107	673	-	-	158	34	21	214	-	2056	-	
% App	1%	27%	59%	14%	100%	-	-	0%	23%	15%	62%	100%	-	-	2%	6%	76%	16%	100%	-	-	0%	74%	16%	10%	100%	-	-
% Total	0%	10%	22%	5%	38%	-	-	0%	4%	3%	12%	19%	-	-	1%	2%	25%	5%	33%	-	-	0%	8%	2%	1%	10%	-	100%
PHF	0.500	0.881	0.786	0.855	0.853	-	-	0.250	0.833	0.847	0.891	0.957	-	-	0.542	0.768	0.892	0.892	0.914	-	-	0.250	0.840	0.773	0.525	0.849	-	0.908
Passenger Vehicles	4	208	451	105	768	-	-	90	61	246	398	-	-	13	43	501	107	664	-	-	158	34	21	214	-	2044	-	
Passenger Vehicles %	100%	100%	100%	99%	100%	-	-	100%	100%	100%	100%	100%	-	-	100%	100%	98%	100%	99%	-	-	100%	100%	100%	100%	-	99%	-
HC Vehicles	-	-	2	1	3	-	-	-	-	-	-	-	-	-	-	9	-	9	-	-	-	-	-	-	-	-	12	-
HC Vehicles %	-	-	0%	1%	0%	-	-	-	-	-	-	-	-	-	-	2%	-	1%	-	-	-	-	-	-	-	-	1%	-

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Intersection Traffic Counts

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Start Date: Wed, Mar 13, 2019
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