

# Intersection Traffic Counts

**Intersection:** Bren Rd E & TH-169 W Ramp

**Start Date:** Wed, Sep 12, 2018

**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 Bren Rd E & TH-169 W Ramp																												
Start Time	TH-169 W Ramp North Leg (Southbound)						Bren Rd E East Leg (Westbound)						TH-169 W Ramp South Leg (Northbound)						Bren Rd E 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	-	7	-	48	55	1	-	10	64	-	74	-	-	-	-	-	-	-	-	-	21	27	48	-	177	1		
6:15	-	13	-	72	85	-	-	13	100	-	113	-	-	-	-	-	-	-	-	-	39	52	91	-	289	-		
6:30	-	16	-	89	105	-	-	29	141	-	170	-	-	-	-	-	-	-	-	-	32	61	93	-	368	-		
6:45	-	18	1	155	174	1	-	30	215	-	245	-	-	-	-	-	-	-	-	-	34	68	102	-	521	1		
7:00	-	19	-	173	192	-	-	23	232	-	255	-	-	-	-	-	-	-	-	-	52	49	101	-	548	1		
7:15	-	32	-	238	270	4	-	35	269	-	304	-	-	-	-	-	-	-	-	-	58	82	140	-	714	4		
7:30	-	17	-	254	271	1	-	31	334	-	365	-	-	-	-	-	-	-	-	-	66	76	142	-	778	2		
7:45	-	24	1	212	237	-	-	40	364	-	404	-	-	-	-	-	-	-	-	-	1	73	98	172	-	813	1	
8:00	-	28	1	243	272	1	-	44	420	-	464	-	-	-	-	-	-	-	-	-	83	90	173	-	909	1		
8:15	-	50	-	244	294	3	-	37	360	-	397	-	-	-	-	-	-	-	-	-	61	83	144	-	835	4		
8:30	-	28	-	215	243	2	-	17	287	-	304	-	-	-	-	-	-	-	-	-	57	80	137	-	684	2		
8:45	-	38	-	174	212	2	-	39	299	-	338	-	-	-	-	-	-	-	-	-	61	78	139	-	689	2		
9:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
11:00	-	13	-	27	40	1	-	39	64	-	103	-	-	-	-	-	-	-	-	-	89	86	175	-	318	1		
11:15	-	10	-	42	52	2	-	44	72	-	116	-	-	-	-	-	-	-	-	-	83	102	185	-	353	2		
11:30	-	25	-	47	72	3	-	39	83	-	122	-	-	-	-	-	-	-	-	-	106	106	212	-	406	4		
11:45	-	15	-	59	74	2	-	34	98	-	132	-	-	-	-	-	-	-	-	-	102	89	191	-	397	3		
12:00	-	23	5	51	79	5	-	40	103	-	143	-	-	-	-	-	-	-	-	-	87	103	190	-	412	6		
12:15	-	24	-	59	83	5	-	37	101	-	138	-	-	-	-	-	-	-	-	-	104	84	188	-	409	5		
12:30	-	24	1	55	80	4	-	41	110	-	151	-	-	-	-	-	-	-	-	-	66	99	165	-	396	5		
12:45	-	31	-	60	91	9	-	39	114	-	153	-	-	-	-	-	-	-	-	-	75	80	155	-	399	11		
13:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
13:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
13:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
13:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14:15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
15:00	-	8	2	50	60	4	-	33	83	-	116	-	-	-	-	-	-	-	-	-	162	175	337	-	513	4		
15:15	-	19	-	48	67	2	-	35	77	-	112	-	-	-	-	-	-	-	-	-	169	171	340	-	519	2		
15:30	-	15	-	38	53	1	-	55	84	-	139	-	-	-	-	-	-	-	-	-	223	219	442	-	634	1		
15:45	-	20	-	48	68	-	-	42	93	-	135	-	-	-	-	-	-	-	-	-	186	188	375	-	578	-		
16:00	-	12	-	44	56	4	-	40	86	-	126	-	-	-	-	-	-	-	-	-	310	329	639	-	821	4		
16:15	-	25	-	48	73	-	-	33	102	-	135	-	-	-	-	-	-	-	-	-	294	252	546	-	754	1		
16:30	-	27	-	52	79	1	-	64	83	-	147	-	-	-	-	-	-	-	-	-	321	312	633	-	859	1		
16:45	-	25	-	39	64	3	-	33	93	-	126	-	-	-	-	-	-	-	-	-	284	227	512	-	702	6		
17:00	-	24	-	51	75	6	-	34	130	-	164	-	-	-	-	-	-	-	-	-	338	264	602	-	841	6		
17:15	-	24	-	50	74	3	-	36	95	-	131	-	-	-	-	-	-	-	-	-	241	236	477	-	682	4		
17:30	-	26	-	47	73	9	-	26	108	-	134	-	-	-	-	-	-	-	-	-	220	186	406	-	613	9		
17:45	-	24	-	38	62	1	-	28	94	-	122	-	-	-	-	-	-	-	-	-	147	163	310	-	494	1		
<b>Total</b>	-	704	11	3070	3785	80	-	1120	4958	-	6078	-	-	-	-	-	-	-	-	-	15	3	4244	4315	8562	-	18425	95
<b>% App</b>	-	19%	0%	81%	100%	-	-	18%	82%	-	100%	-	-	-	-	-	-	-	-	-	0%	50%	50%	100%	-	-	-	
<b>% Total</b>	-	4%	0%	17%	21%	84%	-	6%	27%	-	33%	-	-	-	-	-	-	-	-	-	16%	0%	23%	23%	46%	-	100%	100%
<b>Passenger Vehicles</b>	-	683	11	2996	3690	-	-	1086	4821	-	5907	-	-	-	-	-	-	-	-	-	3	4149	4148	8300	-	17897	-	
<b>Passenger Vehicles %</b>	-	97%	100%	98%	97%	-	-	97%	97%	-	97%	-	-	-	-	-	-	-	-	-	100%	98%	96%	97%	-	97%	-	
<b>HC Vehicles</b>	-	21	-	74	95	-	-	34	137	-	171	-	-	-	-	-	-	-	-	-	-	95	167	262	-	528	-	
<b>HC Vehicles %</b>	-	3%	-	2%	3%	-	-	3%	3%	-	3%	-	-	-	-	-	-	-	-	-	-	2%	4%	3%	-	3%	-	

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: Bren Rd E & TH-169 W Ramp

Start Date: Wed, Sep 12, 2018

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

Prepared by: Associated Consulting Services LLC

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(612) 568-3227

All Vehicles_AM Peak (7:30AM-8:30AM) at Bren Rd E & TH-169 W Ramp																										
Start Time	TH-169 W Ramp North Leg (Southbound)						Bren Rd E East Leg (Westbound)						TH-169 W Ramp South Leg (Northbound)						Bren Rd E 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*		
7:30	-	17	-	254	271	1	-	31	334	-	365	-	-	-	-	-	-	1	-	-	66	76	142	-	778	2
7:45	-	24	1	212	237	-	-	40	364	-	404	-	-	-	-	-	-	1	1	-	73	98	172	-	813	1
8:00	-	28	1	243	272	1	-	44	420	-	464	-	-	-	-	-	-	-	-	-	83	90	173	-	909	1
8:15	-	50	-	244	294	3	-	37	360	-	397	-	-	-	-	-	-	1	-	-	61	83	144	-	835	4
<b>Total</b>	-	119	2	953	1074	5	-	152	1478	-	1630	-	-	-	-	-	-	3	1	-	283	347	631	-	3335	8
<b>% App</b>	-	11%	0%	89%	100%	-	-	9%	91%	-	100%	-	-	-	-	-	-	-	0%	-	45%	55%	100%	-	-	-
<b>% Total</b>	-	4%	0%	29%	32%	63%	-	5%	44%	-	49%	-	-	-	-	-	38%	0%	-	8%	10%	19%	-	100%	100%	
<b>PHF</b>	-	0.595	0.500	0.938	0.913	-	-	0.864	0.880	-	0.878	-	-	-	-	-	-	-	0.250	-	0.852	0.885	0.912	-	0.917	-
<b>Passenger Vehicles</b>	-	117	2	946	1065	-	-	152	1458	-	1610	-	-	-	-	-	-	-	1	-	265	327	593	-	3268	-
<b>Passenger Vehicles %</b>	-	98%	100%	99%	99%	-	-	100%	99%	-	99%	-	-	-	-	-	-	-	100%	-	94%	94%	94%	-	98%	-
<b>HC Vehicles</b>	-	2	-	7	9	-	-	-	20	-	20	-	-	-	-	-	-	-	-	-	18	20	38	-	67	-
<b>HC Vehicles %</b>	-	2%	-	1%	1%	-	-	-	1%	-	1%	-	-	-	-	-	-	-	-	-	6%	6%	6%	-	2%	-

All Vehicles_Midday Peak (11:30AM-12:30PM) at Bren Rd E & TH-169 W Ramp																										
Start Time	TH-169 W Ramp North Leg (Southbound)						Bren Rd E East Leg (Westbound)						TH-169 W Ramp South Leg (Northbound)						Bren Rd E 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*		
11:30	-	25	-	47	72	3	-	39	83	-	122	-	-	-	-	-	-	1	-	-	106	106	212	-	406	4
11:45	-	15	-	59	74	2	-	34	98	-	132	-	-	-	-	-	-	1	-	-	102	89	191	-	397	3
12:00	-	23	5	51	79	5	-	40	103	-	143	-	-	-	-	-	-	1	-	-	87	103	190	-	412	6
12:15	-	24	-	59	83	5	-	37	101	-	138	-	-	-	-	-	-	-	-	-	104	84	188	-	409	5
<b>Total</b>	-	87	5	216	308	15	-	150	385	-	535	-	-	-	-	-	-	3	-	-	399	382	781	-	1624	18
<b>% App</b>	-	28%	2%	70%	100%	-	-	28%	72%	-	100%	-	-	-	-	-	-	-	-	-	51%	49%	100%	-	-	-
<b>% Total</b>	-	5%	0%	13%	19%	83%	-	9%	24%	-	33%	-	-	-	-	-	17%	-	-	25%	24%	48%	-	100%	100%	
<b>PHF</b>	-	0.870	0.250	0.915	0.928	-	-	0.938	0.934	-	0.935	-	-	-	-	-	-	-	-	-	0.941	0.901	0.921	-	0.985	-
<b>Passenger Vehicles</b>	-	78	5	206	289	-	-	139	365	-	504	-	-	-	-	-	-	-	-	-	382	358	740	-	1533	-
<b>Passenger Vehicles %</b>	-	90%	100%	95%	94%	-	-	93%	95%	-	94%	-	-	-	-	-	-	-	-	-	96%	94%	95%	-	94%	-
<b>HC Vehicles</b>	-	9	-	10	19	-	-	11	20	-	31	-	-	-	-	-	-	-	-	-	17	24	41	-	91	-
<b>HC Vehicles %</b>	-	10%	-	5%	6%	-	-	7%	5%	-	6%	-	-	-	-	-	-	-	-	-	4%	6%	5%	-	6%	-

All Vehicles_PM Peak (4:15PM-5:15PM) at Bren Rd E & TH-169 W Ramp																										
Start Time	TH-169 W Ramp North Leg (Southbound)						Bren Rd E East Leg (Westbound)						TH-169 W Ramp South Leg (Northbound)						Bren Rd E 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*		
16:15	-	25	-	48	73	-	-	33	102	-	135	-	-	-	-	-	-	1	-	-	294	252	546	-	754	1
16:30	-	27	-	52	79	1	-	64	83	-	147	-	-	-	-	-	-	-	-	-	321	312	633	-	859	1
16:45	-	25	-	39	64	3	-	33	93	-	126	-	-	-	-	-	-	3	1	-	284	227	512	-	702	6
17:00	-	24	-	51	75	6	-	34	130	-	164	-	-	-	-	-	-	-	-	-	338	264	602	-	841	6
<b>Total</b>	-	101	-	190	291	10	-	164	408	-	572	-	-	-	-	-	-	4	1	-	1237	1055	2293	-	3156	14
<b>% App</b>	-	35%	-	65%	100%	-	-	29%	71%	-	100%	-	-	-	-	-	-	-	0%	-	54%	46%	100%	-	-	-
<b>% Total</b>	-	3%	-	6%	9%	71%	-	5%	13%	-	18%	-	-	-	-	-	29%	0%	-	39%	33%	73%	-	100%	100%	
<b>PHF</b>	-	0.935	-	0.913	0.921	-	-	0.641	0.785	-	0.872	-	-	-	-	-	-	-	0.250	-	0.915	0.845	0.906	-	0.919	-
<b>Passenger Vehicles</b>	-	100	-	185	285	-	-	160	394	-	554	-	-	-	-	-	-	-	1	-	1231	1038	2270	-	3109	-
<b>Passenger Vehicles %</b>	-	99%	-	97%	98%	-	-	98%	97%	-	97%	-	-	-	-	-	-	-	100%	-	100%	98%	99%	-	99%	-
<b>HC Vehicles</b>	-	1	-	5	6	-	-	4	14	-	18	-	-	-	-	-	-	-	-	-	6	17	23	-	47	-
<b>HC Vehicles %</b>	-	1%	-	3%	2%	-	-	2%	3%	-	3%	-	-	-	-	-	-	-	-	-	0%	2%	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  
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 dash (-) in the table indicates zero or not applicable

# Intersection Traffic Counts

**Intersection:** Bren Rd E & TH-169 W Ramp

**Start Date:** Wed, Sep 12, 2018

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

**Prepared by:** Associated Consulting Services LLC

www.acsteam.com

(612) 568-3227

