

**Alliant Engineering, Inc**

233 Park Ave Suite 300  
 Minneapolis, MN 55415

--TRAFFIC DATA --

CSAH-17 at TH-169 South Ramp

Ref.Pt.: 110.742

data by : Alliant Inc.

TURN MOVEMENT COUNT

File Name : 332\_CSAH 17 & TH 169 S Ramp

Site Code : 332

Start Date : 11/8/2017

Page No : 1

Groups Printed- Vehicles - Trucks

Start Time	CSAH 17 From North				TH 169 S Ramp From East				CSAH 17 From South				TH 169 S Ramp From West				Int. Total
	Other	Left	Thru	Rght	Other	Left	Thru	Rght	Other	Left	Thru	Rght	Other	Left	Thru	Rght	
06:00 AM	0	48	62	0	0	0	0	0	0	0	41	94	0	15	0	10	270
06:15 AM	0	70	65	0	0	0	0	0	0	0	53	122	0	13	0	23	346
06:30 AM	0	70	80	0	0	0	0	0	0	0	84	135	0	9	2	36	416
06:45 AM	1	66	102	0	0	0	0	0	0	0	129	170	0	20	3	37	528
Total	1	254	309	0	0	0	0	0	0	0	307	521	0	57	5	106	1560
07:00 AM	0	89	93	0	0	0	0	0	0	0	142	168	0	23	2	33	550
07:15 AM	0	78	139	0	0	0	0	0	0	0	164	129	0	19	3	25	557
07:30 AM	0	72	148	0	0	0	0	0	0	0	203	102	0	32	0	28	585
07:45 AM	0	70	140	0	0	0	0	0	0	0	161	121	0	19	1	51	563
Total	0	309	520	0	0	0	0	0	0	0	670	520	0	93	6	137	2255
08:00 AM	0	56	131	0	0	0	0	0	0	0	122	125	0	23	0	27	484
08:15 AM	0	61	104	0	0	0	0	0	0	0	138	84	0	27	1	32	447
08:30 AM	0	66	115	0	0	0	0	0	0	0	118	107	0	10	2	26	444
08:45 AM	0	61	108	0	0	0	0	0	0	0	127	83	0	29	0	36	444
Total	0	244	458	0	0	0	0	0	0	0	505	399	0	89	3	121	1819
09:00 AM	0	55	121	0	0	0	0	0	0	0	107	79	0	19	0	34	415
09:15 AM	0	48	98	0	0	0	0	0	0	0	114	69	0	24	1	18	372
*** BREAK ***																	
Total	0	103	219	0	0	0	0	0	0	0	221	148	0	43	1	52	787
*** BREAK ***																	
10:30 AM	0	58	111	0	0	0	0	0	0	0	102	55	0	10	1	19	356
10:45 AM	0	49	124	0	0	0	0	0	0	0	105	65	0	19	0	17	379
Total	0	107	235	0	0	0	0	0	0	0	207	120	0	29	1	36	735
11:00 AM	0	50	116	0	0	0	0	0	0	0	100	61	0	19	0	22	368
11:15 AM	1	49	137	0	0	0	0	0	0	0	111	52	0	15	0	23	388
11:30 AM	0	46	146	0	0	0	0	0	0	0	126	53	0	21	0	26	418
11:45 AM	0	54	141	0	0	0	0	0	0	0	144	63	0	25	2	19	448
Total	1	199	540	0	0	0	0	0	0	0	481	229	0	80	2	90	1622
12:00 PM	0	59	151	0	0	0	0	0	0	0	133	53	0	20	0	10	426
12:15 PM	0	61	168	0	0	0	0	0	1	0	119	50	0	29	0	12	440
12:30 PM	0	65	158	0	0	0	0	0	1	0	138	60	0	14	0	15	451
12:45 PM	0	61	163	0	0	0	0	0	0	0	106	63	0	25	1	17	436
Total	0	246	640	0	0	0	0	0	2	0	496	226	0	88	1	54	1753
01:00 PM	1	67	161	0	0	0	0	0	0	0	115	36	0	13	0	17	410
01:15 PM	0	62	144	0	0	0	0	0	0	0	101	64	0	25	0	20	416
*** BREAK ***																	
Total	1	129	305	0	0	0	0	0	0	0	216	100	0	38	0	37	826
*** BREAK ***																	
02:30 PM	0	44	144	0	0	0	0	0	0	0	129	57	0	23	0	23	420
02:45 PM	0	58	235	0	0	0	0	0	0	0	115	65	0	25	1	32	531
Total	0	102	379	0	0	0	0	0	0	0	244	122	0	48	1	55	951
03:00 PM	0	62	221	0	0	0	0	0	0	0	146	59	0	19	0	20	527
03:15 PM	1	59	234	0	0	0	0	0	0	0	172	66	0	24	2	30	588
03:30 PM	1	71	223	0	0	0	0	0	0	0	190	51	0	24	1	25	586
03:45 PM	0	67	275	0	0	0	0	0	0	0	170	47	0	24	0	22	605
Total	2	259	953	0	0	0	0	0	0	0	678	223	0	91	3	97	2306
04:00 PM	1	76	265	0	0	0	0	0	0	0	151	73	0	23	0	23	612
04:15 PM	0	65	274	0	0	0	0	0	0	0	158	48	0	30	1	28	604
04:30 PM	0	51	405	0	0	0	0	0	0	0	153	70	0	40	1	15	735
04:45 PM	1	51	301	0	0	0	0	0	0	0	202	76	0	55	3	33	722
Total	2	243	1245	0	0	0	0	0	0	0	664	267	0	148	5	99	2673

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	Other	Left	Thru	Rght	Other	Left	Thru	Rght	Other	Left	Thru	Rght	Other	Left	Thru	Rght	
05:00 PM	0	58	293	0	0	0	0	0	0	0	183	55	0	29	0	21	639
05:15 PM	0	54	291	0	0	0	0	0	0	0	176	90	0	50	1	22	684
05:30 PM	0	56	269	0	0	0	0	0	0	0	164	68	0	20	0	13	590
05:45 PM	2	45	247	0	0	0	0	0	0	0	178	55	0	32	1	15	575
Total	2	213	1100	0	0	0	0	0	0	0	701	268	0	131	2	71	2488
Grand Total	9	2408	6903	0	0	0	0	0	2	0	5390	3143	0	935	30	955	19775
Apprch %	0.1	25.8	74.1	0	0	0	0	0	0	0	63.2	36.8	0	48.7	1.6	49.7	
Total %	0	12.2	34.9	0	0	0	0	0	0	0	27.3	15.9	0	4.7	0.2	4.8	
Vehicles	9	2340	6637	0	0	0	0	0	2	0	5235	3024	0	903	29	922	19101
% Vehicles	100	97.2	96.1	0	0	0	0	0	100	0	97.1	96.2	0	96.6	96.7	96.5	96.6
Trucks	0	68	266	0	0	0	0	0	0	0	155	119	0	32	1	33	674
% Trucks	0	2.8	3.9	0	0	0	0	0	0	0	2.9	3.8	0	3.4	3.3	3.5	3.4

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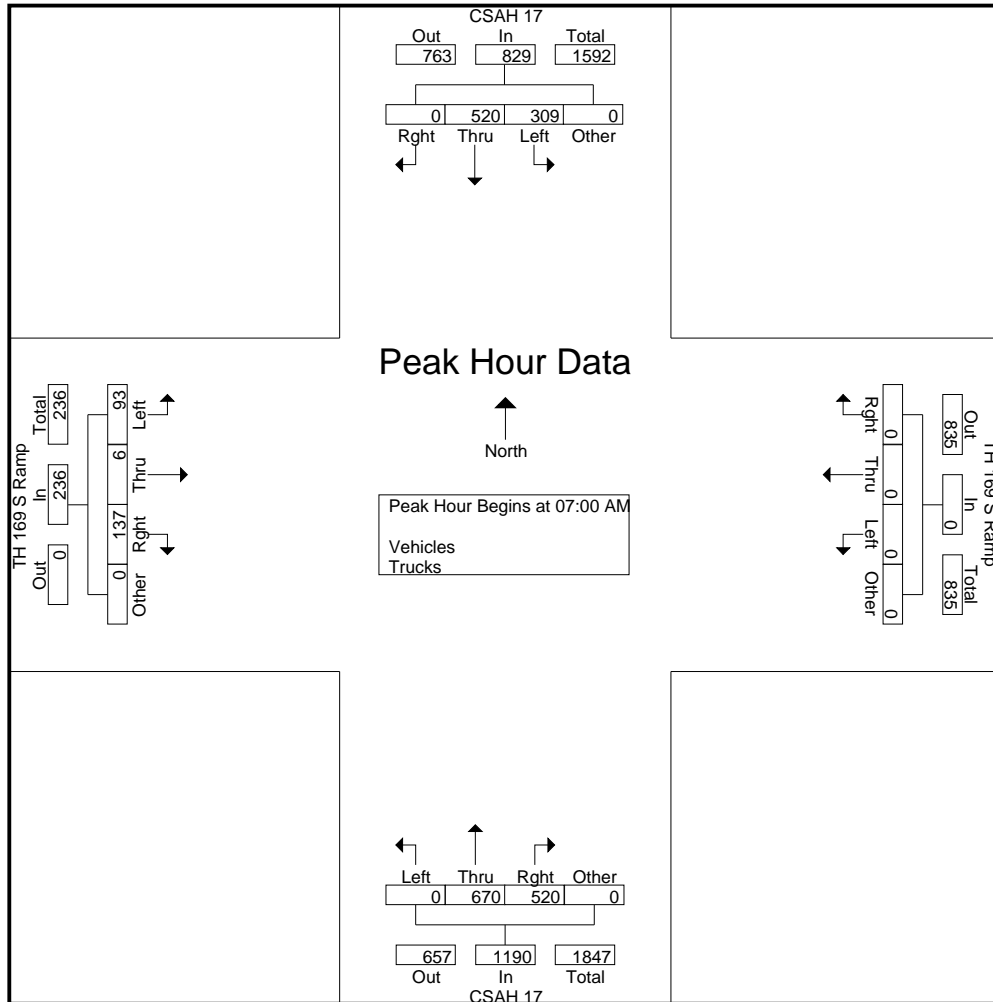
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	Other	Left	Thru	Rght	App. Total	Other	Left	Thru	Rght	App. Total	Other	Left	Thru	Rght	App. Total	Other	Left	Thru	Rght	App. Total	
Peak Hour Analysis From 06:00 AM to 11:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	0	89	93	0	182	0	0	0	0	0	0	0	142	168	310	0	23	2	33	58	550
07:15 AM	0	78	139	0	217	0	0	0	0	0	0	0	164	129	293	0	19	3	25	47	557
07:30 AM	0	72	148	0	220	0	0	0	0	0	0	0	203	102	305	0	32	0	28	60	585
07:45 AM	0	70	140	0	210	0	0	0	0	0	0	0	161	121	282	0	19	1	51	71	563
Total Volume	0	309	520	0	829	0	0	0	0	0	0	0	670	520	1190	0	93	6	137	236	2255
% App. Total	0	37.3	62.7	0		0	0	0	0	0	0	0	56.3	43.7		0	39.4	2.5	58.1		
PHF	.000	.868	.878	.000	.942	.000	.000	.000	.000	.000	.000	.000	.825	.774	.960	.000	.727	.500	.672	.831	.964



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	Other	Left	Thru	Rght	App. Total	Other	Left	Thru	Rght	App. Total	Other	Left	Thru	Rght	App. Total	Other	Left	Thru	Rght	App. Total	
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	0	51	405	0	456	0	0	0	0	0	0	0	153	70	223	0	40	1	15	56	735
04:45 PM	1	51	301	0	353	0	0	0	0	0	0	0	202	76	278	0	55	3	33	91	722
05:00 PM	0	58	293	0	351	0	0	0	0	0	0	0	183	55	238	0	29	0	21	50	639
05:15 PM	0	54	291	0	345	0	0	0	0	0	0	0	176	90	266	0	50	1	22	73	684
Total Volume	1	214	1290	0	1505	0	0	0	0	0	0	0	714	291	1005	0	174	5	91	270	2780
% App. Total	0.1	14.2	85.7	0		0	0	0	0	0	0	0	71	29		0	64.4	1.9	33.7		
PHF	.250	.922	.796	.000	.825	.000	.000	.000	.000	.000	.000	.000	.884	.808	.904	.000	.791	.417	.689	.742	.946

