

**Alliant Engineering, Inc**

233 Park Ave Suite 300  
 Minneapolis, MN 55415

--TRAFFIC DATA --

TH-13 at Five Hawks Avenue  
 Ref.Pt.:84+00.361  
 data by : Alliant Inc.  
 TURN MOVEMENT COUNT

File Name : 501\_TH 13 & Five Hawks Ave  
 Site Code : 501  
 Start Date : 1/5/2017  
 Page No : 1

Groups Printed- Vehicles - Trucks

Start Time	TH 13 From North					Five Hawks Ave From East					TH 13 From South					Five Hawks Ave From West					Int. Total
	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	
06:00 AM	0	0	17	3	20	0	25	0	4	29	0	4	85	0	89	0	0	0	5	5	143
06:15 AM	0	4	22	1	27	0	30	0	4	34	0	5	93	2	100	0	1	0	7	8	169
06:30 AM	0	0	37	3	40	0	29	3	4	36	0	11	127	3	141	0	3	1	6	10	227
06:45 AM	0	6	38	5	49	0	40	1	10	51	0	7	158	4	169	0	2	0	21	23	292
Total	0	10	114	12	136	0	124	4	22	150	0	27	463	9	499	0	6	1	39	46	831
07:00 AM	0	7	46	4	57	0	39	3	9	51	0	8	166	1	175	0	2	2	12	16	299
07:15 AM	0	12	58	14	84	0	33	18	9	60	0	3	153	5	161	0	1	0	11	12	317
07:30 AM	0	11	51	9	71	0	34	14	10	58	0	9	159	6	174	0	1	4	18	23	326
07:45 AM	0	9	48	9	66	0	33	6	16	55	0	10	166	1	177	0	3	1	17	21	319
Total	0	39	203	36	278	0	139	41	44	224	0	30	644	13	687	0	7	7	58	72	1261
08:00 AM	0	5	47	7	59	0	24	7	9	40	0	5	139	16	160	0	3	6	8	17	276
08:15 AM	0	12	40	14	66	0	23	20	6	49	0	3	115	14	132	0	24	25	37	86	333
08:30 AM	0	10	60	11	81	0	28	6	8	42	0	9	92	4	105	0	1	2	23	26	254
08:45 AM	0	2	55	14	71	0	32	6	8	46	0	9	92	0	101	0	1	2	13	16	234
Total	0	29	202	46	277	0	107	39	31	177	0	26	438	34	498	0	29	35	81	145	1097
09:00 AM	0	8	34	10	52	0	29	4	8	41	0	6	97	5	108	0	4	5	7	16	217
09:15 AM	0	7	39	13	59	0	20	6	8	34	0	4	64	0	68	0	2	2	5	9	170
*** BREAK ***																					
Total	0	15	73	23	111	0	49	10	16	75	0	10	161	5	176	0	6	7	12	25	387
*** BREAK ***																					
10:30 AM	0	6	39	19	64	0	14	6	7	27	0	2	67	1	70	0	3	4	8	15	176
10:45 AM	0	6	34	11	51	0	16	7	6	29	0	14	57	0	71	0	1	2	9	12	163
Total	0	12	73	30	115	0	30	13	13	56	0	16	124	1	141	0	4	6	17	27	339
11:00 AM	0	5	35	15	55	0	31	4	9	44	0	6	71	0	77	0	2	1	11	14	190
11:15 AM	0	5	49	24	78	0	14	2	11	27	0	5	67	0	72	0	3	4	9	16	193
11:30 AM	0	9	59	20	88	0	18	2	14	34	0	5	70	1	76	0	0	6	10	16	214
11:45 AM	0	4	51	21	76	0	16	6	3	25	0	8	56	1	65	0	1	5	5	11	177
Total	0	23	194	80	297	0	79	14	37	130	0	24	264	2	290	0	6	16	35	57	774
12:00 PM	0	9	53	22	84	0	26	3	17	46	0	9	63	0	72	0	0	3	5	8	210
12:15 PM	0	7	68	24	99	0	25	7	19	51	0	7	65	0	72	0	1	3	7	11	233
12:30 PM	0	12	42	22	76	0	25	3	11	39	0	8	66	3	77	0	3	1	8	12	204
12:45 PM	0	9	63	12	84	0	24	2	12	38	0	11	59	1	71	0	2	1	14	17	210
Total	0	37	226	80	343	0	100	15	59	174	0	35	253	4	292	0	6	8	34	48	857
01:00 PM	0	5	62	15	82	0	19	5	6	30	0	15	58	2	75	0	2	2	10	14	201
01:15 PM	0	8	57	31	96	0	19	5	10	34	0	4	63	3	70	0	4	2	13	19	219
*** BREAK ***																					
Total	0	13	119	46	178	0	38	10	16	64	0	19	121	5	145	0	6	4	23	33	420
*** BREAK ***																					
02:30 PM	0	6	74	15	95	0	25	6	18	49	0	8	70	2	80	0	0	3	3	6	230
02:45 PM	0	28	77	15	120	0	15	7	13	35	0	8	73	7	88	0	0	5	5	10	253
Total	0	34	151	30	215	0	40	13	31	84	0	16	143	9	168	0	0	8	8	16	483
03:00 PM	0	10	113	17	140	0	18	9	17	44	0	7	78	1	86	0	8	17	25	50	320
03:15 PM	0	11	112	24	147	0	25	10	16	51	0	7	83	2	92	0	1	3	17	21	311
03:30 PM	0	8	107	20	135	0	23	9	23	55	0	7	85	0	92	0	10	8	11	29	311
03:45 PM	0	7	104	27	138	0	23	11	22	56	0	10	106	0	116	0	4	6	11	21	331
Total	0	36	436	88	560	0	89	39	78	206	0	31	352	3	386	0	23	34	64	121	1273
04:00 PM	0	11	124	48	183	0	18	9	25	52	0	11	81	5	97	0	4	4	20	28	360
04:15 PM	0	12	160	34	206	0	15	6	21	42	0	13	93	2	108	0	6	4	10	20	376
04:30 PM	0	8	132	31	171	0	18	12	28	58	0	10	98	4	112	0	5	9	10	24	365
04:45 PM	0	15	157	35	207	0	18	12	29	59	0	10	106	4	120	0	4	7	8	19	405
Total	0	46	573	148	767	0	69	39	103	211	0	44	378	15	437	0	19	24	48	91	1506

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TURN MOVEMENT COUNT

File Name : 501\_TH 13 & Five Hawks Ave

Site Code : 501

Start Date : 1/5/2017

Page No : 2

Groups Printed- Vehicles - Trucks

Start Time	TH 13 From North					Five Hawks Ave From East					TH 13 From South					Five Hawks Ave From West					Int. Total
	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	
05:00 PM	0	11	151	40	202	0	19	6	38	63	0	8	117	1	126	0	2	7	12	21	412
05:15 PM	0	11	157	31	199	0	19	7	31	57	0	8	100	0	108	0	14	6	9	29	393
05:30 PM	0	10	128	35	173	0	20	3	28	51	0	8	84	1	93	0	5	6	6	17	334
05:45 PM	0	7	116	27	150	0	16	6	25	47	0	8	97	1	106	0	6	1	9	16	319
Total	0	39	552	133	724	0	74	22	122	218	0	32	398	3	433	0	27	20	36	83	1458
Grand Total	0	333	2916	752	4001	0	938	259	572	1769	0	310	3739	103	4152	0	139	170	455	764	10686
Apprch %	0	8.3	72.9	18.8		0	53	14.6	32.3		0	7.5	90.1	2.5		0	18.2	22.3	59.6		
Total %	0	3.1	27.3	7	37.4	0	8.8	2.4	5.4	16.6	0	2.9	35	1	38.9	0	1.3	1.6	4.3	7.1	
Vehicles	0	313	2823	722	3858	0	906	255	560	1721	0	306	3636	97	4039	0	137	162	444	743	10361
% Vehicles	0	94	96.8	96	96.4	0	96.6	98.5	97.9	97.3	0	98.7	97.2	94.2	97.3	0	98.6	95.3	97.6	97.3	97
Trucks	0	20	93	30	143	0	32	4	12	48	0	4	103	6	113	0	2	8	11	21	325
% Trucks	0	6	3.2	4	3.6	0	3.4	1.5	2.1	2.7	0	1.3	2.8	5.8	2.7	0	1.4	4.7	2.4	2.7	3

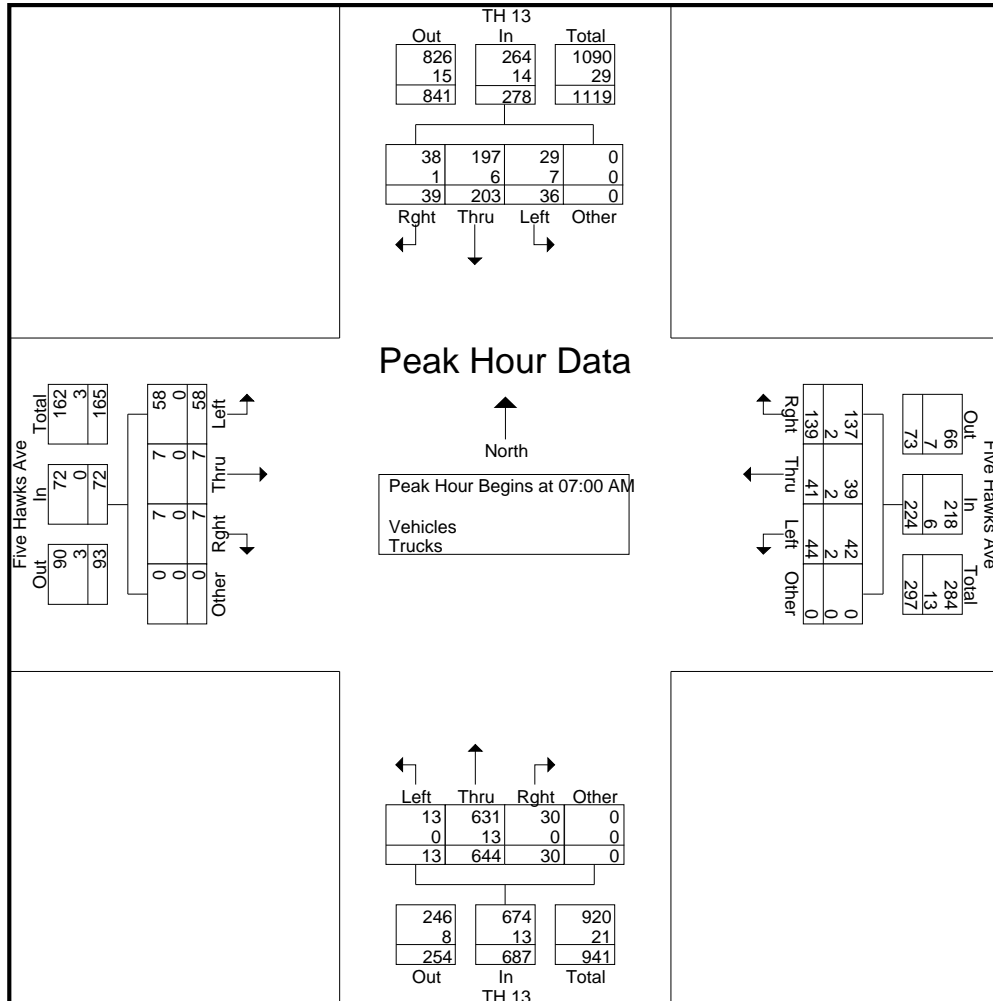
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Start Time	TH 13 From North					Five Hawks Ave From East					TH 13 From South					Five Hawks Ave From West					Int. Total
	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	
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	7	46	4	57	0	39	3	9	51	0	8	166	1	175	0	2	2	12	16	299
07:15 AM	0	12	58	14	84	0	33	18	9	60	0	3	153	5	161	0	1	0	11	12	317
07:30 AM	0	11	51	9	71	0	34	14	10	58	0	9	159	6	174	0	1	4	18	23	326
07:45 AM	0	9	48	9	66	0	33	6	16	55	0	10	166	1	177	0	3	1	17	21	319
Total Volume	0	39	203	36	278	0	139	41	44	224	0	30	644	13	687	0	7	7	58	72	1261
% App. Total	0	14	73	12.9		0	62.1	18.3	19.6		0	4.4	93.7	1.9		0	9.7	9.7	80.6		
PHF	.000	.813	.875	.643	.827	.000	.891	.569	.688	.933	.000	.750	.970	.542	.970	.000	.583	.438	.806	.783	.967
Vehicles	0	38	197	29	264	0	137	39	42	218	0	30	631	13	674	0	7	7	58	72	1228
% Vehicles																					
Trucks	0	1	6	7	14	0	2	2	2	6	0	0	13	0	13	0	0	0	0	0	33
% Trucks	0	2.6	3.0	19.4	5.0	0	1.4	4.9	4.5	2.7	0	0	2.0	0	1.9	0	0	0	0	0	2.6



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 TURN MOVEMENT COUNT

File Name : 501\_TH 13 & Five Hawks Ave  
 Site Code : 501  
 Start Date : 1/5/2017  
 Page No : 4

Start Time	TH 13 From North					Five Hawks Ave From East					TH 13 From South					Five Hawks Ave From West					Int. Total
	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	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	8	132	31	171	0	18	12	28	58	0	10	98	4	112	0	5	9	10	24	365
04:45 PM	0	15	157	35	207	0	18	12	29	59	0	10	106	4	120	0	4	7	8	19	405
05:00 PM	0	11	151	40	202	0	19	6	38	63	0	8	117	1	126	0	2	7	12	21	412
05:15 PM	0	11	157	31	199	0	19	7	31	57	0	8	100	0	108	0	14	6	9	29	393
Total Volume	0	45	597	137	779	0	74	37	126	237	0	36	421	9	466	0	25	29	39	93	1575
% App. Total	0	5.8	76.6	17.6		0	31.2	15.6	53.2		0	7.7	90.3	1.9		0	26.9	31.2	41.9		
PHF	.000	.750	.951	.856	.941	.000	.974	.771	.829	.940	.000	.900	.900	.563	.925	.000	.446	.806	.813	.802	.956
Vehicles	0	45	594	136	775	0	74	37	126	237	0	36	417	9	462	0	25	29	39	93	1567
% Vehicles																					
Trucks	0	0	3	1	4	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	8
% Trucks	0	0	0.5	0.7	0.5	0	0	0	0	0	0	0	1.0	0.9	0	0	0	0	0	0	0.5

