

Alliant Engineering, Inc

233 Park Ave Suite 300
Minneapolis, MN 55415

--TRAFFIC DATA --

TH-13 at Duluth Avenue
Ref.Pt.:84+00.656
data by : Alliant Inc.
TURN MOVEMENT COUNT

File Name : 502_TH 13 & Duluth Ave
Site Code : 502
Start Date : 1/5/2017
Page No : 1

Groups Printed- Vehicles - Trucks

Start Time	TH 13 From North					Duluth Ave From East					TH 13 From South					Duluth 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	15	2	17	0	15	15	2	32	0	0	89	15	104	0	2	7	2	11	164
06:15 AM	0	0	21	7	28	0	19	11	4	34	0	3	109	9	121	0	2	6	3	11	194
06:30 AM	0	0	36	1	37	0	17	5	7	29	0	0	152	5	157	0	2	10	0	12	235
06:45 AM	0	1	51	7	59	0	18	12	2	32	0	3	186	17	206	0	8	8	2	18	315
Total	0	1	123	17	141	0	69	43	15	127	0	6	536	46	588	0	14	31	7	52	908
07:00 AM	0	1	42	6	49	0	22	11	6	39	0	10	184	15	209	0	8	7	7	22	319
07:15 AM	0	2	77	7	86	0	15	21	7	43	0	6	168	15	189	0	4	21	2	27	345
07:30 AM	0	1	59	2	62	0	15	12	7	34	0	2	194	18	214	0	12	18	5	35	345
07:45 AM	0	1	51	5	57	0	17	13	13	43	0	5	185	13	203	0	4	12	4	20	323
Total	0	5	229	20	254	0	69	57	33	159	0	23	731	61	815	0	28	58	18	104	1332
08:00 AM	0	1	58	8	67	0	19	11	4	34	0	9	145	11	165	0	9	6	3	18	284
08:15 AM	0	0	48	12	60	0	20	14	7	41	0	10	146	14	170	0	6	8	3	17	288
08:30 AM	0	0	64	11	75	0	14	13	12	39	0	4	123	15	142	0	8	6	2	16	272
08:45 AM	0	4	46	5	55	0	16	8	11	35	0	5	120	11	136	0	7	21	5	33	259
Total	0	5	216	36	257	0	69	46	34	149	0	28	534	51	613	0	30	41	13	84	1103
09:00 AM	0	4	43	9	56	0	16	8	13	37	0	5	116	8	129	0	9	14	5	28	250
09:15 AM	0	1	50	18	69	0	19	13	7	39	0	4	73	7	84	0	7	19	4	30	222
*** BREAK ***																					
Total	0	5	93	27	125	0	35	21	20	76	0	9	189	15	213	0	16	33	9	58	472
*** BREAK ***																					
10:30 AM	0	2	52	11	65	0	18	13	5	36	0	7	74	5	86	0	9	16	6	31	218
10:45 AM	0	2	33	14	49	0	24	11	11	46	0	6	69	10	85	0	7	13	5	25	205
Total	0	4	85	25	114	0	42	24	16	82	0	13	143	15	171	0	16	29	11	56	423
11:00 AM	0	1	39	20	60	0	16	11	8	35	0	11	88	8	107	0	11	21	4	36	238
11:15 AM	0	4	64	21	89	0	23	15	12	50	0	9	67	6	82	0	9	29	5	43	264
11:30 AM	0	4	62	17	83	0	28	11	16	55	0	9	83	4	96	0	13	21	4	38	272
11:45 AM	0	3	60	21	84	0	15	23	8	46	0	4	59	10	73	0	10	13	2	25	228
Total	0	12	225	79	316	0	82	60	44	186	0	33	297	28	358	0	43	84	15	142	1002
12:00 PM	0	2	56	29	87	0	23	14	9	46	0	7	74	9	90	0	19	17	12	48	271
12:15 PM	0	4	77	13	94	0	27	19	18	64	0	2	82	10	94	0	9	23	9	41	293
12:30 PM	0	5	54	20	79	0	15	19	9	43	0	6	83	5	94	0	10	28	8	46	262
12:45 PM	0	2	62	17	81	0	26	15	13	54	0	5	78	6	89	0	7	27	6	40	264
Total	0	13	249	79	341	0	91	67	49	207	0	20	317	30	367	0	45	95	35	175	1090
01:00 PM	0	2	73	17	92	0	23	13	9	45	0	12	64	11	87	0	12	15	5	32	256
01:15 PM	0	3	74	19	96	0	11	17	7	35	0	9	72	10	91	0	13	29	5	47	269
*** BREAK ***																					
Total	0	5	147	36	188	0	34	30	16	80	0	21	136	21	178	0	25	44	10	79	525
*** BREAK ***																					
02:30 PM	0	1	77	18	96	0	25	10	13	48	0	9	77	13	99	0	12	25	8	45	288
02:45 PM	0	2	99	21	122	0	18	24	16	58	0	6	74	8	88	0	12	29	4	45	313
Total	0	3	176	39	218	0	43	34	29	106	0	15	151	21	187	0	24	54	12	90	601
03:00 PM	0	1	102	20	123	0	22	21	9	52	0	15	91	12	118	0	13	31	1	45	338
03:15 PM	0	2	102	18	122	0	17	16	20	53	0	6	101	17	124	0	20	36	8	64	363
03:30 PM	0	2	113	23	138	0	28	18	11	57	0	11	91	11	113	0	15	35	4	54	362
03:45 PM	0	4	120	16	140	0	12	19	15	46	0	11	110	18	139	0	22	34	3	59	384
Total	0	9	437	77	523	0	79	74	55	208	0	43	393	58	494	0	70	136	16	222	1447
04:00 PM	0	1	143	25	169	0	20	19	14	53	0	15	98	14	127	0	30	39	7	76	425
04:15 PM	0	1	148	23	172	0	12	15	11	38	0	13	96	7	116	0	27	37	5	69	395
04:30 PM	0	1	118	34	153	0	26	19	26	71	0	9	102	11	122	0	25	41	3	69	415
04:45 PM	0	3	150	35	188	0	16	24	17	57	0	10	95	12	117	0	30	52	6	88	450
Total	0	6	559	117	682	0	74	77	68	219	0	47	391	44	482	0	112	169	21	302	1685

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File Name : 502_TH 13 & Duluth Ave
 Site Code : 502
 Start Date : 1/5/2017
 Page No : 2

Groups Printed- Vehicles - Trucks

Start Time	TH 13 From North					Duluth Ave From East					TH 13 From South					Duluth 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	1	162	24	187	0	20	11	17	48	0	17	107	16	140	0	28	53	1	82	457
05:15 PM	0	4	146	22	172	0	15	21	27	63	0	11	108	12	131	0	35	61	3	99	465
05:30 PM	0	4	131	15	150	0	13	13	18	44	0	11	94	4	109	0	28	52	1	81	384
05:45 PM	0	1	127	24	152	0	9	16	15	40	0	8	104	18	130	0	27	34	2	63	385
Total	0	10	566	85	661	0	57	61	77	195	0	47	413	50	510	0	118	200	7	325	1691
Grand Total	0	78	3105	637	3820	0	744	594	456	1794	0	305	4231	440	4976	0	541	974	174	1689	12279
Apprch %	0	2	81.3	16.7		0	41.5	33.1	25.4		0	6.1	85	8.8		0	32	57.7	10.3		
Total %	0	0.6	25.3	5.2	31.1	0	6.1	4.8	3.7	14.6	0	2.5	34.5	3.6	40.5	0	4.4	7.9	1.4	13.8	
Vehicles	0	77	2978	617	3672	0	727	582	441	1750	0	299	4086	429	4814	0	524	957	170	1651	11887
% Vehicles	0	98.7	95.9	96.9	96.1	0	97.7	98	96.7	97.5	0	98	96.6	97.5	96.7	0	96.9	98.3	97.7	97.8	96.8
Trucks	0	1	127	20	148	0	17	12	15	44	0	6	145	11	162	0	17	17	4	38	392
% Trucks	0	1.3	4.1	3.1	3.9	0	2.3	2	3.3	2.5	0	2	3.4	2.5	3.3	0	3.1	1.7	2.3	2.2	3.2

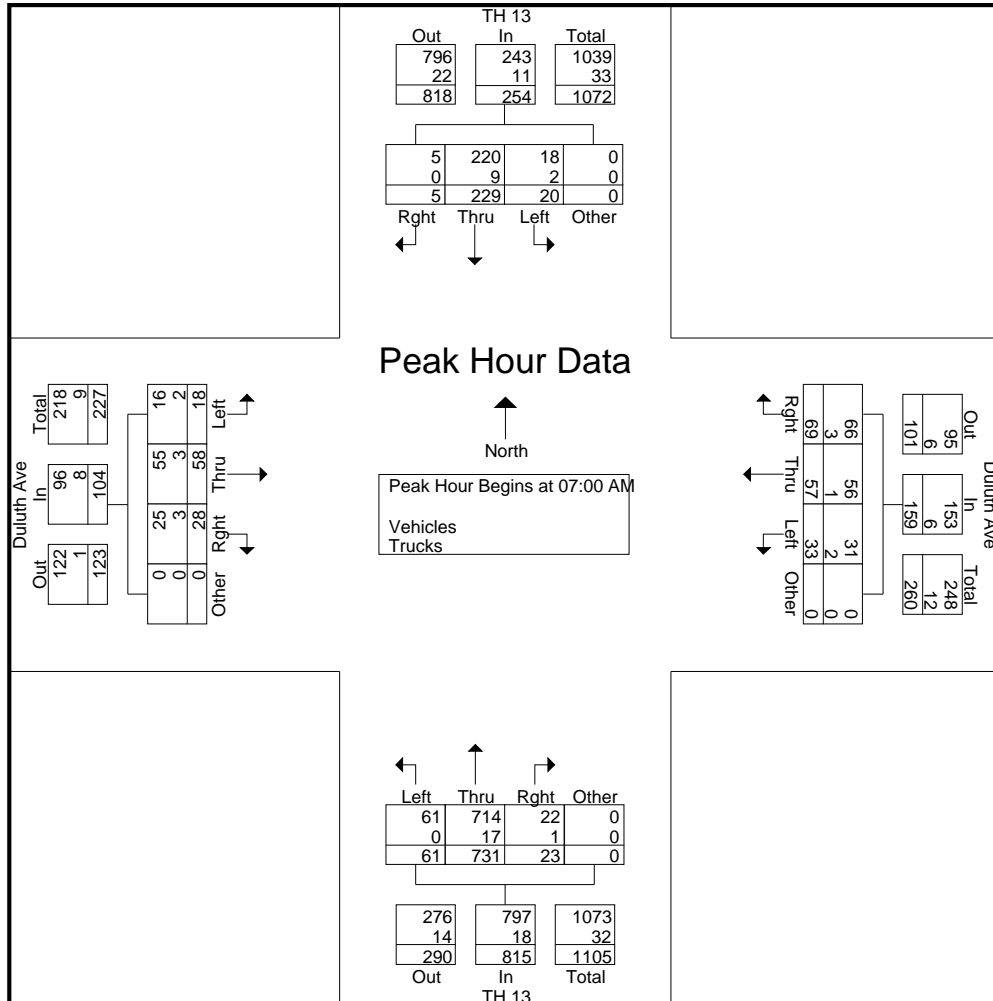
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Start Time	TH 13 From North					Duluth Ave From East					TH 13 From South					Duluth Ave From West					Int. Total
	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	Other	Rght	Thru	Left	App. Total	
Peak 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	1	42	6	49	0	22	11	6	39	0	10	184	15	209	0	8	7	7	22	319
07:15 AM	0	2	77	7	86	0	15	21	7	43	0	6	168	15	189	0	4	21	2	27	345
07:30 AM	0	1	59	2	62	0	15	12	7	34	0	2	194	18	214	0	12	18	5	35	345
07:45 AM	0	1	51	5	57	0	17	13	13	43	0	5	185	13	203	0	4	12	4	20	323
Total Volume	0	5	229	20	254	0	69	57	33	159	0	23	731	61	815	0	28	58	18	104	1332
% App. Total	0	2	90.2	7.9		0	43.4	35.8	20.8		0	2.8	89.7	7.5		0	26.9	55.8	17.3		
PHF	.000	.625	.744	.714	.738	.000	.784	.679	.635	.924	.000	.575	.942	.847	.952	.000	.583	.690	.643	.743	.965
Vehicles	0	5	220	18	243	0	66	56	31	153	0	22	714	61	797	0	25	55	16	96	1289
% Vehicles																					
Trucks	0	0	9	2	11	0	3	1	2	6	0	1	17	0	18	0	3	3	2	8	43
% Trucks	0	0	3.9	10.0	4.3	0	4.3	1.8	6.1	3.8	0	4.3	2.3	0	2.2	0	10.7	5.2	11.1	7.7	3.2



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File Name : 502_TH 13 & Duluth Ave
 Site Code : 502
 Start Date : 1/5/2017
 Page No : 4

Start Time	TH 13 From North					Duluth Ave From East					TH 13 From South					Duluth 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 12:02 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	0	1	118	34	153	0	26	19	26	71	0	9	102	11	122	0	25	41	3	69	415
04:45 PM	0	3	150	35	188	0	16	24	17	57	0	10	95	12	117	0	30	52	6	88	450
05:00 PM	0	1	162	24	187	0	20	11	17	48	0	17	107	16	140	0	28	53	1	82	457
05:15 PM	0	4	146	22	172	0	15	21	27	63	0	11	108	12	131	0	35	61	3	99	465
Total Volume	0	9	576	115	700	0	77	75	87	239	0	47	412	51	510	0	118	207	13	338	1787
% App. Total	0	1.3	82.3	16.4		0	32.2	31.4	36.4		0	9.2	80.8	10		0	34.9	61.2	3.8		
PHF	.000	.563	.889	.821	.931	.000	.740	.781	.806	.842	.000	.691	.954	.797	.911	.000	.843	.848	.542	.854	.961
Vehicles	0	9	569	113	691	0	76	74	87	237	0	47	407	51	505	0	118	204	13	335	1768
% Vehicles																					
Trucks	0	0	7	2	9	0	1	1	0	2	0	0	5	0	5	0	0	3	0	3	19
% Trucks	0	0	1.2	1.7	1.3	0	1.3	1.3	0	0.8	0	0	1.2	0	1.0	0	0	1.4	0	0.9	1.1

