

Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at CSAH-96 / Lake Ave.
Ref.Pt.: 146.726
data by: Alliant Engineering Inc.
TURN MOVEMENT COUNT

File Name : 15 - TH 61 & Lake Ave
Site Code : 15
Start Date : 11/7/2012
Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					Lake Ave Westbound					TH-61 Northbound					CSAH-96 Eastbound					Int. Total	
	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds		
06:00	0	0	113	44	0	0	8	5	0	0	0	26	32	0	0	0	18	0	12	0	258	
06:15	0	0	130	95	15	0	12	7	0	0	0	35	62	0	0	0	19	0	39	0	414	
06:30	0	0	214	88	7	0	16	9	1	0	0	27	84	0	0	0	30	0	45	0	521	
06:45	0	0	324	92	0	0	20	19	1	0	0	46	87	0	0	0	35	0	69	0	693	
Total	0	0	781	319	22	0	56	40	2	0	0	134	265	0	0	0	102	0	165	0	1886	
07:00	0	0	342	96	0	0	33	13	1	0	0	43	133	0	0	0	44	0	76	0	781	
07:15	0	0	391	88	0	0	27	18	1	0	0	55	148	0	2	0	59	0	90	0	879	
07:30	0	0	437	108	0	0	28	16	0	0	0	60	114	0	1	0	41	0	103	0	908	
07:45	0	0	288	87	0	0	27	21	2	0	0	40	142	0	0	0	73	0	111	0	791	
Total	0	0	1458	379	0	0	115	68	4	0	0	198	537	0	3	0	217	0	380	0	3359	
08:00	0	0	217	80	0	0	31	12	1	0	0	48	100	0	1	0	40	0	97	0	627	
08:15	0	0	205	93	0	0	23	9	0	0	0	47	105	0	0	0	53	0	78	0	613	
08:30	0	0	155	88	0	0	25	20	2	0	0	51	118	0	0	0	66	0	71	0	596	
08:45	0	0	171	76	0	0	16	12	1	0	0	59	119	0	0	0	65	0	61	0	580	
Total	0	0	748	337	0	0	95	53	4	0	0	205	442	0	1	0	224	0	307	0	2416	
09:00	0	0	177	76	0	0	24	18	0	0	0	52	133	0	0	0	48	0	56	0	584	
09:15	0	0	168	61	0	0	28	13	2	0	0	71	136	0	1	0	81	1	50	1	613	
**** BREAK ****																						
Total	0	0	345	137	0	0	52	31	2	0	0	123	269	0	1	0	129	1	106	1	1197	
**** BREAK ****																						
10:30	0	0	146	48	0	0	28	11	2	0	0	58	156	0	0	0	70	0	48	0	567	
10:45	0	0	118	57	0	0	30	20	3	0	0	63	169	0	1	0	56	0	70	0	587	
Total	0	0	264	105	0	0	58	31	5	0	0	121	325	0	1	0	126	0	118	0	1154	
11:00	0	0	149	50	0	0	28	15	4	0	0	57	152	0	0	0	63	0	61	0	579	
11:15	0	0	161	52	0	0	23	12	3	0	0	73	156	0	0	0	76	0	55	0	611	
11:30	0	0	163	73	0	0	23	16	1	0	0	56	200	0	0	0	94	0	58	0	684	
11:45	0	0	165	62	0	0	24	14	0	0	0	57	215	0	0	0	106	0	61	0	704	
Total	0	0	638	237	0	0	98	57	8	0	0	243	723	0	0	0	339	0	235	0	2578	
12:00	0	0	148	62	0	0	39	8	2	0	0	60	182	0	0	0	84	0	78	0	663	
12:15	0	0	153	62	0	0	25	16	1	0	0	66	204	0	0	0	92	0	67	0	686	
12:30	0	0	184	77	0	0	31	18	2	0	0	78	173	0	0	0	69	0	56	0	688	
12:45	0	0	147	58	0	0	24	16	2	0	0	72	210	0	0	0	78	0	60	0	667	
Total	0	0	632	259	0	0	119	58	7	0	0	276	769	0	0	0	323	0	261	0	2704	
13:00	0	0	143	54	0	0	24	15	2	0	0	65	168	0	0	0	59	0	62	0	592	
13:15	0	2	152	69	0	0	25	16	2	0	0	95	196	0	0	0	63	0	56	0	676	
**** BREAK ****																						
Total	0	2	295	123	0	0	49	31	4	0	0	160	364	0	0	0	122	0	118	0	1268	
**** BREAK ****																						
14:30	0	0	176	61	0	0	18	16	0	0	0	96	211	0	1	0	79	0	65	0	723	
14:45	0	0	152	65	0	0	21	10	3	0	0	98	287	0	0	0	120	0	71	0	827	
Total	0	0	328	126	0	0	39	26	3	0	0	194	498	0	1	0	199	0	136	0	1550	
15:00	0	0	153	69	0	0	30	20	2	0	0	105	279	0	0	0	103	0	72	0	833	
15:15	0	0	163	66	0	0	34	11	2	1	0	98	266	0	1	0	104	0	74	0	820	
15:30	0	0	175	58	0	0	24	15	1	0	0	116	293	0	0	0	91	0	96	0	869	
15:45	0	0	184	62	0	0	16	12	2	0	0	122	331	0	3	0	114	0	71	0	917	
Total	0	0	675	255	0	0	104	58	7	1	0	441	1169	0	4	0	412	0	313	0	3439	
16:00	0	0	166	61	0	0	21	11	0	0	0	108	322	0	0	0	105	0	77	0	871	

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Groups Printed- Cars - Trucks

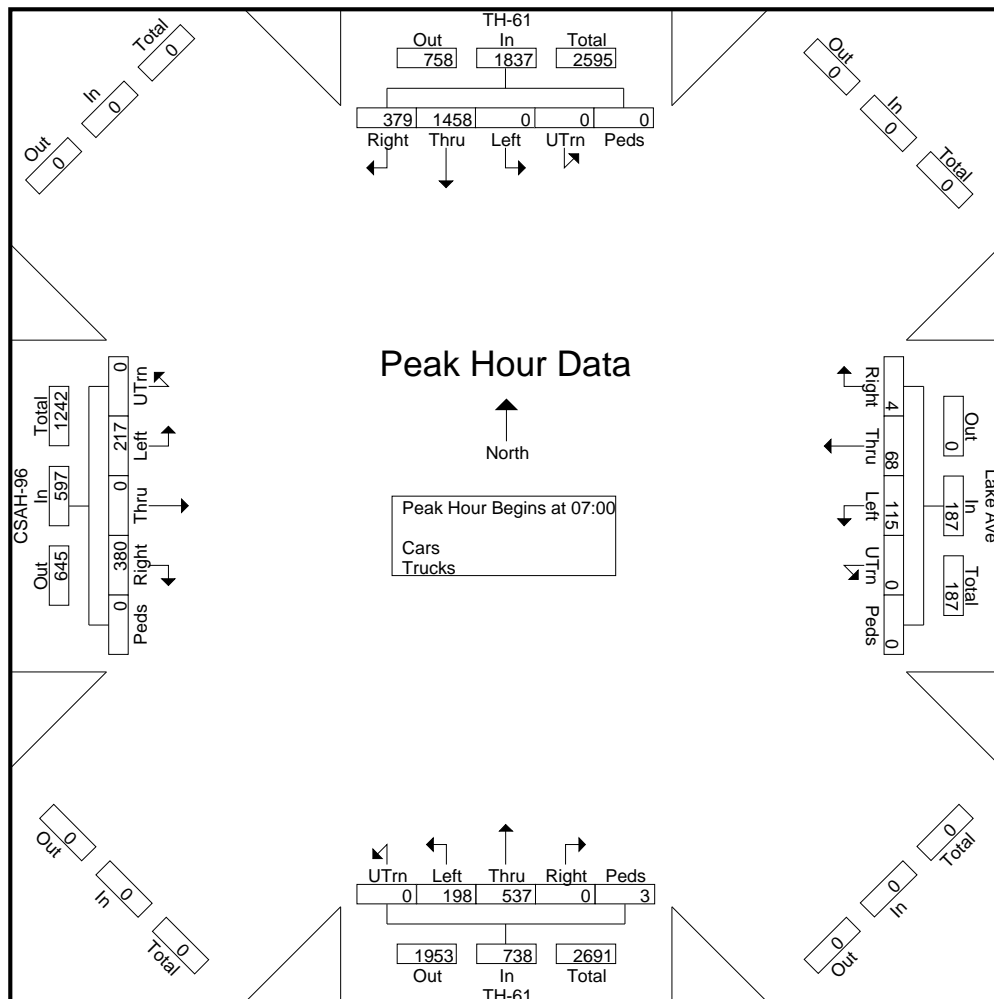
Start Time	TH-61 Southbound					Lake Ave Westbound					TH-61 Northbound					CSAH-96 Eastbound					Int. Total
	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	
16:15	0	0	173	72	0	0	26	13	2	0	0	113	328	0	1	0	125	0	107	0	960
16:30	0	0	179	71	0	0	29	14	2	0	0	96	342	0	1	0	135	0	121	0	990
16:45	0	0	209	81	0	0	35	21	2	0	0	115	340	0	1	0	165	0	102	0	1071
Total	0	0	727	285	0	0	111	59	6	0	0	432	1332	0	3	0	530	0	407	0	3892
17:00	0	0	186	75	0	0	42	22	0	0	0	110	342	0	2	0	143	0	108	0	1030
17:15	0	0	186	78	0	0	29	17	0	0	0	115	331	0	0	0	169	0	89	0	1014
17:30	0	0	201	91	0	0	33	7	2	0	0	102	314	0	2	0	161	0	100	0	1013
17:45	0	0	146	55	0	0	21	17	1	0	0	96	301	0	1	0	180	0	93	0	911
Total	0	0	719	299	0	0	125	63	3	0	0	423	1288	0	5	0	653	0	390	0	3968
18:00	0	0	174	78	0	0	21	11	1	0	0	94	290	0	0	0	140	0	74	0	883
18:15	0	0	183	70	0	0	19	13	1	0	0	71	272	0	0	0	120	0	62	0	811
Grand Total	0	2	7967	3009	22	0	1061	599	57	1	0	3115	8543	0	19	0	3636	1	3072	1	31105
Apprch %	0	0	72.4	27.4	0.2	0	61.8	34.9	3.3	0.1	0	26.7	73.2	0	0.2	0	54.2	0	45.8	0	
Total %	0	0	25.6	9.7	0.1	0	3.4	1.9	0.2	0	0	10	27.5	0	0.1	0	11.7	0	9.9	0	
Cars	0	2	7746	2907	22	0	1051	592	54	1	0	3059	8327	0	19	0	3542	0	2994	0	30316
% Cars	0	100	97.2	96.6	100	0	99.1	98.8	94.7	100	0	98.2	97.5	0	100	0	97.4	0	97.5	0	97.5
Trucks	0	0	221	102	0	0	10	7	3	0	0	56	216	0	0	0	94	1	78	1	789
% Trucks	0	0	2.8	3.4	0	0	0.9	1.2	5.3	0	0	1.8	2.5	0	0	0	2.6	100	2.5	100	2.5

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	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left		Thru	Right	Peds	App. Total
07:00	0	0	34	96	0	438	0	33	13	1	0	47	0	43	13	0	0	176	0	44	0	76	0	120	781
07:15	0	0	39	88	0	479	0	27	18	1	0	46	0	55	148	0	2	205	0	59	0	90	0	149	879
07:30	0	0	437	108	0	545	0	28	16	0	0	44	0	60	114	0	1	175	0	41	0	103	0	144	908
07:45	0	0	288	87	0	375	0	27	21	2	0	50	0	40	142	0	0	182	0	73	0	111	0	184	791
Total Volume	0	0	1458	379	0	1837	0	115	68	4	0	187	0	198	537	0	3	738	0	217	0	380	0	597	3359
% App. Total	0	0	79.4	20.6	0		0	61.5	36.4	2.1	0		0	26.8	72.8	0	0.4		0	36.3	0	63.7	0		
PHF	.000	.000	.834	.877	.000	.843	.000	.871	.810	.500	.000	.935	.000	.825	.907	.000	.375	.900	.000	.743	.000	.856	.000	.811	.925



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Start Time	TH-61 Southbound						Lake Ave Westbound						TH-61 Northbound						CSAH-96 Eastbound						Int. Total
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	
16:45	0	0	209	81	0	290	0	35	21	2	0	58	0	115	34	0	1	456	0	16	0	10	0	267	1071
17:00	0	0	186	75	0	261	0	42	22	0	0	64	0	110	342	0	2	454	0	143	0	108	0	251	1030
17:15	0	0	186	78	0	264	0	29	17	0	0	46	0	115	331	0	0	446	0	169	0	89	0	258	1014
17:30	0	0	201	91	0	292	0	33	7	2	0	42	0	102	314	0	2	418	0	161	0	100	0	261	1013
Total Volume	0	0	782	325	0	1107	0	139	67	4	0	210	0	442	1327	0	5	1774	0	638	0	399	0	1037	4128
% App. Total	0	0	70.6	29.4	0		0	66.2	31.9	1.9	0		0	24.9	74.8	0	0.3		0	61.5	0	38.5	0		
PHF	.000	.000	.935	.893	.000	.948	.000	.827	.761	.500	.000	.820	.000	.961	.970	.000	.625	.973	.000	.944	.000	.924	.000	.971	.964

Peak Hour Analysis From 14:30 to 18:15 - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 16:45

