

# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at 140th St / CSAH-8 HUGO  
 Ref.Pt.: 152.065  
 data by: Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : TH-61 at 140th St CSAH-8 2012  
 Site Code : 23  
 Start Date : 11/7/2012  
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					140th St / CSAH-8 Westbound					TH-61 Northbound					140th St 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	8	80	17	0	0	18	2	30	0	0	2	24	3	0	0	7	1	4	0	196
06:15	0	10	112	18	0	0	17	0	24	0	0	3	32	2	0	0	11	0	3	1	233
06:30	0	8	140	24	0	0	20	0	35	0	0	3	40	2	2	0	16	0	5	0	295
06:45	0	11	194	27	0	0	15	1	39	0	0	3	38	2	2	0	14	1	12	0	359
Total	0	37	526	86	0	0	70	3	128	0	0	11	134	9	4	0	48	2	24	1	1083
07:00	0	15	206	19	0	0	24	1	31	0	0	0	50	2	0	0	11	0	9	0	368
07:15	0	19	178	26	0	0	31	4	22	0	0	5	67	8	0	0	13	1	21	0	395
07:30	0	13	168	29	0	0	28	4	32	0	0	2	68	3	0	0	22	1	11	0	381
07:45	0	14	169	23	0	0	13	1	31	0	0	2	63	4	0	0	22	0	3	0	345
Total	0	61	721	97	0	0	96	10	116	0	0	9	248	17	0	0	68	2	44	0	1489
08:00	0	13	107	9	0	0	15	0	32	0	0	4	57	4	0	0	13	0	4	0	258
08:15	0	11	80	18	0	0	9	2	22	0	0	4	52	5	0	0	7	1	5	0	216
08:30	0	14	79	14	0	0	17	1	24	0	0	1	55	18	0	0	21	0	3	0	247
08:45	0	21	89	12	0	0	12	2	27	0	0	2	66	1	0	0	13	5	1	1	252
Total	0	59	355	53	0	0	53	5	105	0	0	11	230	28	0	0	54	6	13	1	973
09:00	0	19	77	15	0	0	10	1	16	0	0	2	56	5	0	0	12	0	3	0	216
09:15	0	13	90	25	0	0	10	0	16	0	0	4	65	4	0	0	15	2	5	0	249
**** BREAK ****	0	32	167	40	0	0	20	1	32	0	0	6	121	9	0	0	27	2	8	0	465
**** BREAK ****	0	13	73	21	0	0	5	0	14	0	0	2	58	8	0	0	12	2	2	0	210
10:30	0	15	69	16	0	0	7	1	17	1	0	3	63	6	0	0	18	1	2	0	219
10:45	0	28	142	37	0	0	12	1	31	1	0	5	121	14	0	0	30	3	4	0	429
Total	0	28	142	37	0	0	12	1	31	1	0	5	121	14	0	0	30	3	4	0	429
11:00	0	12	57	12	0	0	4	2	20	0	0	2	57	4	0	0	26	1	2	0	199
11:15	0	21	52	20	0	0	5	0	17	2	0	4	69	3	0	0	14	0	3	0	210
11:30	0	19	78	20	0	0	6	0	18	0	0	2	68	4	0	0	19	2	3	0	239
11:45	0	19	79	29	0	0	3	3	21	2	0	4	79	5	0	0	20	1	3	0	268
Total	0	71	266	81	0	0	18	5	76	4	0	12	273	16	0	0	79	4	11	0	916
12:00	0	15	76	14	0	0	5	0	16	0	0	3	78	9	0	0	21	2	1	0	240
12:15	0	25	82	23	0	0	6	1	18	0	0	4	67	3	2	0	12	4	2	0	249
12:30	0	16	77	14	0	0	4	2	20	0	0	2	70	4	0	0	19	1	6	0	235
12:45	0	23	69	18	0	0	6	3	27	0	0	4	78	9	0	0	21	0	5	0	263
Total	0	79	304	69	0	0	21	6	81	0	0	13	293	25	2	0	73	7	14	0	987
13:00	0	16	64	14	2	0	2	3	25	0	0	2	80	6	0	0	14	2	0	0	230
13:15	0	19	64	20	0	0	6	2	10	4	0	1	75	10	2	0	18	1	5	0	237
**** BREAK ****	0	35	128	34	2	0	8	5	35	4	0	3	155	16	2	0	32	3	5	0	467
**** BREAK ****	0	27	78	14	0	0	7	1	17	0	0	5	109	11	0	0	24	0	4	0	297
14:30	0	26	78	9	0	0	6	2	30	0	0	5	113	19	0	0	15	0	1	0	304
14:45	0	53	156	23	0	0	13	3	47	0	0	10	222	30	0	0	39	0	5	0	601
Total	0	53	156	23	0	0	13	3	47	0	0	10	222	30	0	0	39	0	5	0	601
15:00	0	27	84	17	0	0	10	3	24	0	0	5	150	6	0	0	21	3	3	0	353
15:15	0	32	89	21	0	1	9	1	18	0	0	7	181	12	0	0	25	3	2	0	401
15:30	0	31	74	20	0	0	6	3	23	0	0	11	124	5	0	0	22	5	5	0	329
15:45	0	36	91	20	0	0	6	0	21	1	0	6	161	18	0	0	22	3	4	0	389
Total	0	126	338	78	0	1	31	7	86	1	0	29	616	41	0	0	90	14	14	0	1472
16:00	0	43	82	21	0	0	7	3	23	0	0	11	146	13	0	0	35	6	14	0	404

# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at 140th St / CSAH-8 HUGO  
 Ref.Pt.: 152.065  
 data by: Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : TH-61 at 140th St CSAH-8 2012  
 Site Code : 23  
 Start Date : 11/7/2012  
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					140th St / CSAH-8 Westbound					TH-61 Northbound					140th St 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	44	90	20	0	0	5	1	34	0	0	3	176	15	0	0	33	4	4	0	429
16:30	0	41	102	20	0	0	10	6	24	0	0	9	140	25	0	0	23	5	5	0	410
16:45	0	28	100	26	0	0	9	2	35	0	0	11	184	17	0	0	19	5	4	0	440
Total	0	156	374	87	0	0	31	12	116	0	0	34	646	70	0	0	110	20	27	0	1683
17:00	0	44	112	25	0	0	16	4	38	0	0	9	177	17	0	0	43	9	5	0	499
17:15	0	49	95	30	0	0	14	2	19	0	0	5	184	14	0	0	33	5	6	0	456
17:30	0	54	87	19	0	0	11	6	23	0	0	9	150	11	0	3	22	4	3	0	402
17:45	0	40	76	24	0	0	6	0	39	0	0	10	139	18	0	0	23	4	4	0	383
Total	0	187	370	98	0	0	47	12	119	0	0	33	650	60	0	3	121	22	18	0	1740
18:00	0	38	88	12	0	0	9	0	29	0	0	6	121	14	0	0	19	4	3	0	343
18:15	0	33	64	13	0	0	12	1	29	0	0	2	124	12	0	0	10	3	5	0	308
Grand Total	0	995	3999	808	2	1	441	71	1030	10	0	184	3954	361	8	3	800	92	195	2	12956
Apprch %	0	17.1	68.9	13.9	0	0.1	28.4	4.6	66.3	0.6	0	4.1	87.7	8	0.2	0.3	73.3	8.4	17.9	0.2	
Total %	0	7.7	30.9	6.2	0	0	3.4	0.5	7.9	0.1	0	1.4	30.5	2.8	0.1	0	6.2	0.7	1.5	0	
Cars	0	929	3819	674	2	1	419	67	963	2	0	170	3779	340	2	1	678	88	186	2	12122
% Cars	0	93.4	95.5	83.4	100	100	95	94.4	93.5	20	0	92.4	95.6	94.2	25	33.3	84.8	95.7	95.4	100	93.6
Trucks	0	66	180	134	0	0	22	4	67	8	0	14	175	21	6	2	122	4	9	0	834
% Trucks	0	6.6	4.5	16.6	0	0	5	5.6	6.5	80	0	7.6	4.4	5.8	75	66.7	15.2	4.3	4.6	0	6.4

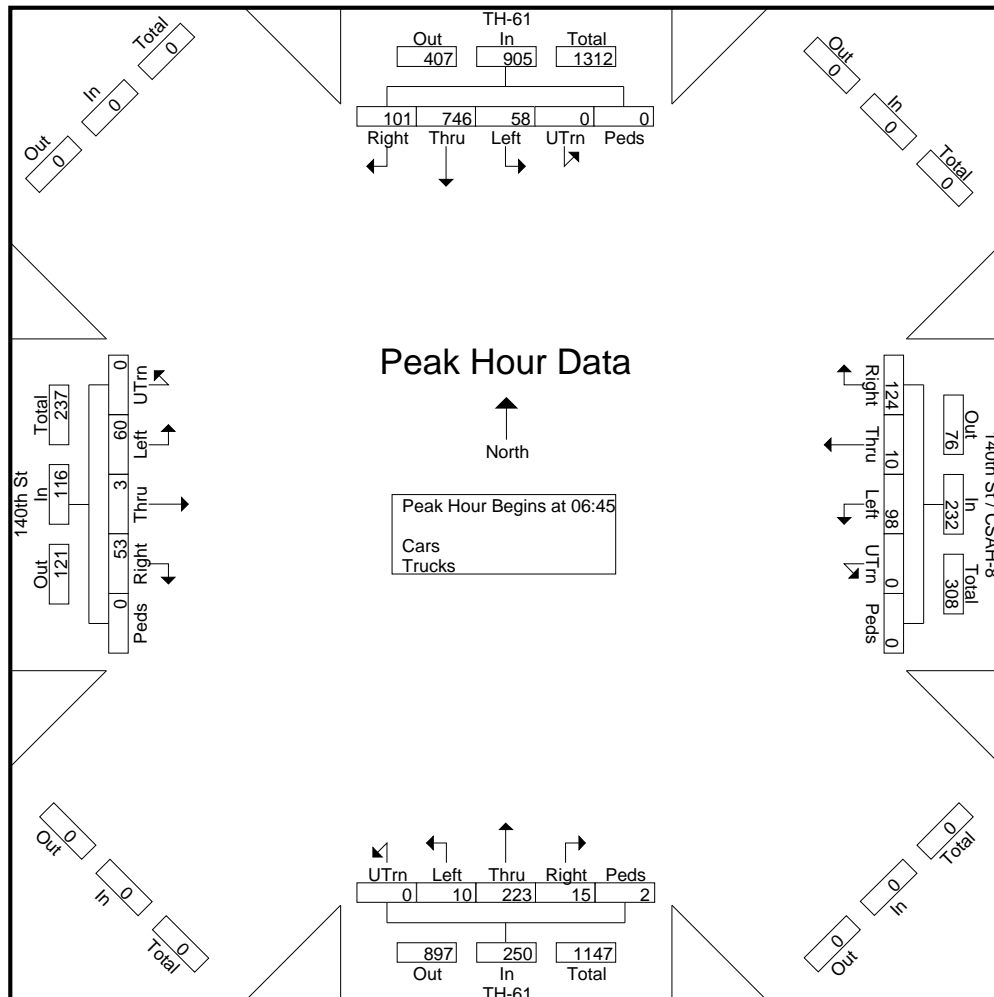
# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at 140th St / CSAH-8 HUGO  
 Ref.Pt.: 152.065  
 data by: Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : TH-61 at 140th St CSAH-8 2012  
 Site Code : 23  
 Start Date : 11/7/2012  
 Page No : 3

Start Time	TH-61 Southbound					140th St / CSAH-8 Westbound					TH-61 Northbound					140th St 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	
06:45	0	11	19	4	27	0	232	0	15	1	39	0	55	0	3	38	2	2	45	0	14	1	12	0	27	359
07:00	0	15	206	19	0	240	0	24	1	31	0	56	0	0	50	2	0	52	0	11	0	9	0	20	368	
07:15	0	19	178	26	0	223	0	31	4	22	0	57	0	5	67	8	0	80	0	13	1	21	0	35	395	
07:30	0	13	168	29	0	210	0	28	4	32	0	64	0	2	68	3	0	73	0	22	1	11	0	34	381	
Total Volume	0	58	746	101	0	905	0	98	10	124	0	232	0	10	223	15	2	250	0	60	3	53	0	116	1503	
% App. Total	0	6.4	82.4	11.2	0		0	42.2	4.3	53.4	0		0	4	89.2	6	0.8		0	51.7	2.6	45.7	0			
PHF	.000	.763	.905	.871	.000	.943	.000	.790	.625	.795	.000	.906	.000	.500	.820	.469	.250	.781	.000	.682	.750	.631	.000	.829	.951	

Peak Hour Analysis From 06:00 to 09:15 - Peak 1 of 1  
 Peak Hour for Entire Intersection Begins at 06:45



# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at 140th St / CSAH-8 HUGO  
 Ref.Pt.: 152.065  
 data by: Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : TH-61 at 140th St CSAH-8 2012  
 Site Code : 23  
 Start Date : 11/7/2012  
 Page No : 4

Start Time	TH-61 Southbound						140th St / CSAH-8 Westbound						TH-61 Northbound						140th St 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	
16:30	0	41	102	20	0	163	0	10	24	0	0	40	0	9	140	25	0	174	0	23	5	5	0	33	410
16:45	0	28	100	26	0	154	0	9	2	35	0	46	0	11	184	17	0	212	0	19	5	4	0	28	440
17:00	0	44	112	25	0	181	0	16	4	38	0	58	0	9	177	17	0	203	0	43	9	5	0	57	499
17:15	0	49	95	30	0	174	0	14	2	19	0	35	0	5	184	14	0	203	0	33	5	6	0	44	456
Total Volume	0	162	409	101	0	672	0	49	14	116	0	179	0	34	685	73	0	792	0	118	24	20	0	162	1805
% App. Total	0	24.1	60.9	15	0		0	27.4	7.8	64.8	0		0	4.3	86.5	9.2	0		0	72.8	14.8	12.3	0		
PHF	.000	.827	.913	.842	.000	.928	.000	.766	.583	.763	.000	.772	.000	.773	.931	.730	.000	.934	.000	.686	.667	.833	.000	.711	.904

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

