

# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at 130th St N HUGO  
Ref.Pt.: 151.041  
data by: Alliant Engineering Inc  
TURN MOVEMENT COUNT

File Name : TH-61 at 130th St HUGO 2012  
Site Code : 22  
Start Date : 11/7/2012  
Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					130th St Westbound					TH-61 Northbound					130th 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	2	89	4	0	0	7	1	3	0	0	6	20	4	0	0	1	0	12	0	149
06:15	0	1	126	11	2	0	18	0	2	0	0	9	25	2	0	0	2	2	11	0	211
06:30	0	2	155	15	0	0	23	2	0	0	2	29	37	4	0	0	3	0	25	0	297
06:45	0	2	178	30	4	0	21	4	4	0	0	28	36	3	0	0	1	1	33	0	345
Total	0	7	548	60	6	0	69	7	9	0	2	72	118	13	0	0	7	3	81	0	1002
07:00	0	4	210	15	0	0	33	5	8	0	0	10	36	2	0	0	6	6	28	0	363
07:15	0	1	223	13	1	0	26	10	6	0	0	17	66	8	0	0	7	1	28	0	407
07:30	0	3	205	11	0	0	20	2	0	0	0	15	68	7	0	0	6	2	31	0	370
07:45	0	2	176	20	2	0	22	7	5	0	0	14	55	9	0	0	3	0	22	0	337
Total	0	10	814	59	3	0	101	24	19	0	0	56	225	26	0	0	22	9	109	0	1477
08:00	0	4	117	9	0	0	16	0	3	0	0	7	61	3	0	0	4	3	26	0	253
08:15	0	2	88	6	0	0	17	3	11	0	0	16	40	5	0	0	1	0	12	0	201
08:30	0	3	92	4	0	0	17	0	5	0	0	13	52	5	0	0	3	2	19	0	215
08:45	0	1	106	8	0	0	10	3	6	0	0	12	67	5	0	1	6	0	17	0	242
Total	0	10	403	27	0	0	60	6	25	0	0	48	220	18	0	1	14	5	74	0	911
09:00	0	3	80	4	0	0	5	1	7	0	0	9	43	3	0	0	6	1	12	0	174
09:15	0	4	91	4	0	0	9	2	3	0	0	9	65	3	0	0	5	0	20	0	215
**** BREAK ****																					
Total	0	7	171	8	0	0	14	3	10	0	0	18	108	6	0	0	11	1	32	0	389
**** BREAK ****																					
10:30	0	3	80	4	0	0	5	2	1	0	0	12	61	4	0	0	7	0	16	0	195
10:45	0	4	61	5	0	0	7	2	2	0	0	14	62	5	1	0	6	0	14	0	183
Total	0	7	141	9	0	0	12	4	3	0	0	26	123	9	1	0	13	0	30	0	378
11:00	0	6	54	4	0	0	7	0	1	1	0	20	50	5	0	0	9	0	14	0	171
11:15	0	0	55	4	1	0	8	1	1	0	0	13	70	7	0	0	3	0	19	0	182
11:30	0	1	79	9	0	0	6	0	5	0	0	19	63	7	0	0	5	1	17	0	212
11:45	0	1	80	5	0	0	7	0	0	1	0	14	75	4	2	0	6	0	13	0	208
Total	0	8	268	22	1	0	28	1	7	2	0	66	258	23	2	0	23	1	63	0	773
12:00	0	4	78	4	0	0	6	2	0	0	0	10	83	11	0	0	11	2	17	0	228
12:15	0	5	79	4	0	0	6	2	2	0	0	17	65	12	0	0	2	1	14	0	209
12:30	0	3	72	7	0	0	5	0	2	0	0	16	73	6	0	0	2	1	17	0	204
12:45	0	4	73	5	1	0	7	0	5	0	0	11	82	6	0	0	3	3	12	0	212
Total	0	16	302	20	1	0	24	4	9	0	0	54	303	35	0	0	18	7	60	0	853
13:00	0	0	55	2	0	0	3	0	1	0	0	20	75	4	0	0	7	0	15	0	182
13:15	0	2	70	7	1	0	10	1	0	0	0	15	76	9	0	0	4	2	8	0	205
**** BREAK ****																					
Total	0	2	125	9	1	0	13	1	1	0	0	35	151	13	0	0	11	2	23	0	387
**** BREAK ****																					
14:30	0	2	76	6	0	0	5	1	1	0	0	25	107	12	0	0	9	1	17	0	262
14:45	0	6	71	6	0	0	5	0	7	0	0	29	133	13	0	0	2	5	10	0	287
Total	0	8	147	12	0	0	10	1	8	0	0	54	240	25	0	0	11	6	27	0	549
15:00	0	14	77	7	0	0	8	5	5	0	0	14	123	8	0	0	32	6	27	0	326
15:15	0	3	81	6	0	0	5	2	4	0	0	21	177	14	2	0	15	4	14	0	348
15:30	0	6	72	4	1	0	12	1	0	0	0	17	130	12	0	0	18	2	29	0	304
15:45	0	8	76	6	0	0	3	2	6	1	0	26	177	14	0	0	7	3	16	0	345
Total	0	31	306	23	1	0	28	10	15	1	0	78	607	48	2	0	72	15	86	0	1323
16:00	0	8	95	3	0	0	8	1	6	0	0	16	141	13	0	0	47	5	30	0	373

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Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					130th St Westbound					TH-61 Northbound					130th 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	4	81	5	0	0	6	2	2	0	0	15	181	19	0	0	17	4	26	0	362
16:30	0	8	97	4	0	0	7	1	2	0	0	22	160	26	0	0	6	5	25	0	363
16:45	0	5	103	10	0	0	10	2	4	0	0	11	198	19	0	0	9	4	19	0	394
Total	0	25	376	22	0	0	31	6	14	0	0	64	680	77	0	0	79	18	100	0	1492
17:00	0	8	109	9	0	0	12	1	7	0	0	25	177	26	0	0	20	2	14	0	410
17:15	0	8	101	3	0	0	4	2	6	0	0	21	182	24	0	0	9	1	12	0	373
17:30	0	7	77	5	0	0	10	1	4	0	0	24	156	27	0	0	2	1	20	0	334
17:45	0	9	83	2	0	0	11	1	4	0	0	22	161	13	0	0	7	4	11	0	328
Total	0	32	370	19	0	0	37	5	21	0	0	92	676	90	0	0	38	8	57	0	1445
18:00	0	4	88	4	0	0	17	1	5	0	0	19	126	26	0	0	13	5	19	0	327
18:15	0	7	71	6	0	0	5	0	2	0	0	14	125	16	0	0	3	2	12	0	263
Grand Total	0	174	4130	300	13	0	449	73	148	3	2	696	3960	425	5	1	335	82	773	0	11569
Apprch %	0	3.8	89.5	6.5	0.3	0	66.7	10.8	22	0.4	0	13.7	77.8	8.4	0.1	0.1	28.1	6.9	64.9	0	
Total %	0	1.5	35.7	2.6	0.1	0	3.9	0.6	1.3	0	0	6	34.2	3.7	0	0	2.9	0.7	6.7	0	
Cars	0	166	3969	282	9	0	432	67	136	0	2	644	3801	396	4	1	313	80	720	0	11022
% Cars	0	95.4	96.1	94	69.2	0	96.2	91.8	91.9	0	100	92.5	96	93.2	80	100	93.4	97.6	93.1	0	95.3
Trucks	0	8	161	18	4	0	17	6	12	3	0	52	159	29	1	0	22	2	53	0	547
% Trucks	0	4.6	3.9	6	30.8	0	3.8	8.2	8.1	100	0	7.5	4	6.8	20	0	6.6	2.4	6.9	0	4.7

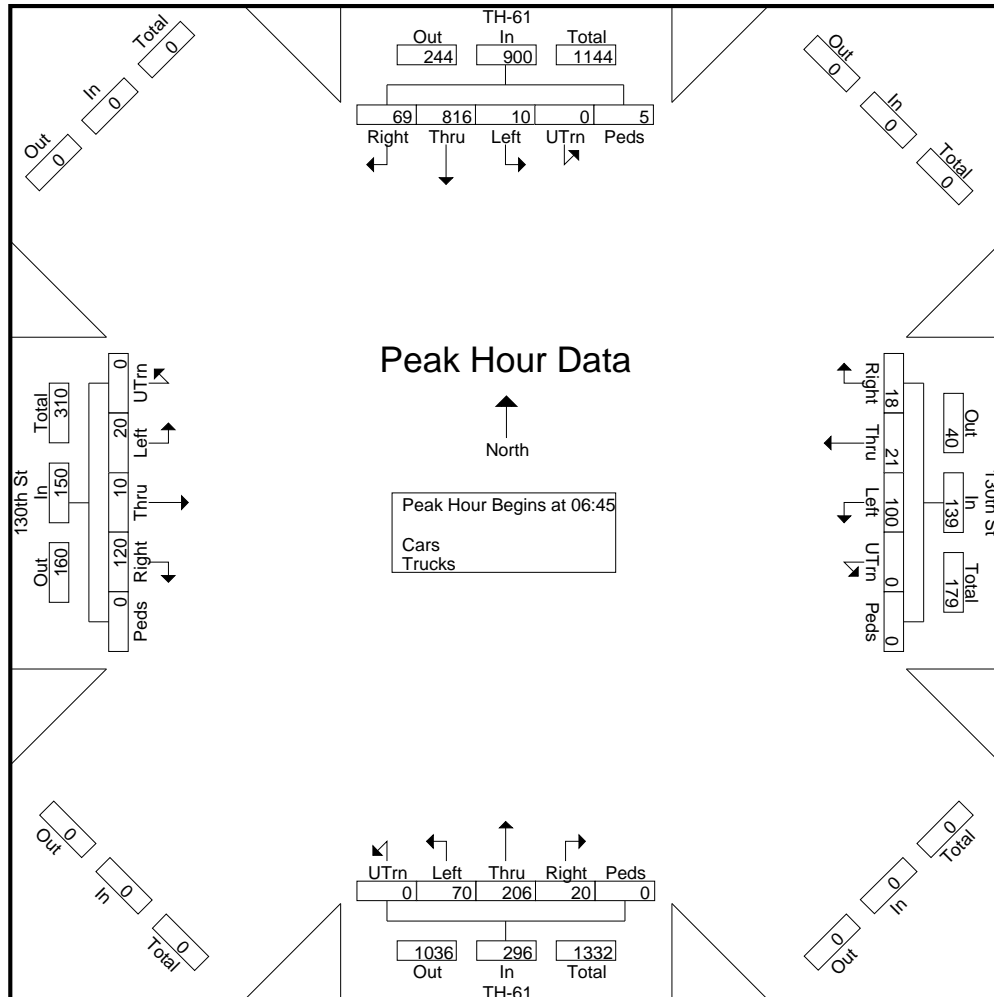
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Start Time	TH-61 Southbound						130th St Westbound						TH-61 Northbound						130th St Eastbound						Int. Total	
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total		
06:45	0	2	17	8	30	4	214	0	21	4	4	0	29	0	28	36	3	0	67	0	1	1	33	0	35	345
07:00	0	4	210	15	0	229	0	33	5	8	0	46	0	10	36	2	0	48	0	6	6	28	0	40	363	
07:15	0	1	223	13	1	238	0	26	10	6	0	42	0	17	66	8	0	91	0	7	1	28	0	36	407	
07:30	0	3	205	11	0	219	0	20	2	0	0	22	0	15	68	7	0	90	0	6	2	31	0	39	370	
Total Volume	0	10	816	69	5	900	0	100	21	18	0	139	0	70	206	20	0	296	0	20	10	120	0	150	1485	
% App. Total	0	1.1	90.7	7.7	0.6		0	71.9	15.1	12.9	0		0	23.6	69.6	6.8	0		0	13.3	6.7	80	0			
PHF	.000	.625	.915	.575	.313	.945	.000	.758	.525	.563	.000	.755	.000	.625	.757	.625	.000	.813	.000	.714	.417	.909	.000	.938	.912	

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



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 Site Code : 22  
 Start Date : 11/7/2012  
 Page No : 4

Start Time	TH-61 Southbound					130th St Westbound					TH-61 Northbound					130th 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	0	97	4	0	109	0	7	1	2	0	10	0	22	16	0	26	0	208	0	6	5	25	0	36	363
16:45	0	5	103	10	0	118	0	10	2	4	0	16	0	11	198	19	0	228	0	9	4	19	0	32	394	
17:00	0	8	109	9	0	126	0	12	1	7	0	20	0	25	177	26	0	228	0	20	2	14	0	36	410	
17:15	0	8	101	3	0	112	0	4	2	6	0	12	0	21	182	24	0	227	0	9	1	12	0	22	373	
Total Volume	0	29	410	26	0	465	0	33	6	19	0	58	0	79	717	95	0	891	0	44	12	70	0	126	1540	
% App. Total	0	6.2	88.2	5.6	0		0	56.9	10.3	32.8	0		0	8.9	80.5	10.7	0		0	34.9	9.5	55.6	0			
PHF	.000	.906	.940	.650	.000	.923	.000	.688	.750	.679	.000	.725	.000	.790	.905	.913	.000	.977	.000	.550	.600	.700	.000	.875	.939	

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

