

# Alliant Engineering Inc Minneapolis, MN 55415

TH-65 at 109th Ave NE /CSAH-12  
Ref.Pt.: 013.434 BLAINE  
data collected by: Alliant Engineering  
TURN MOVEMENT COUNT

File Name : TH-65 at 109th Ave NE 2009  
Site Code : 00000016  
Start Date : 1/13/2009  
Page No : 1

### Groups Printed- Unshifted

Start Time	TH-65 Southbound				109th Ave NE Westbound				TH-65 Northbound				109th Ave NE Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
06:00	15	396	2	0	37	12	1	0	2	56	13	0	3	31	26	0	594
06:15	19	351	10	0	70	26	5	0	6	67	7	0	4	34	23	0	622
06:30	14	362	5	0	49	20	11	0	6	62	11	0	6	58	43	0	647
06:45	18	250	10	0	58	43	13	0	10	72	8	0	10	60	31	0	583
Total	66	1359	27	0	214	101	30	0	24	257	39	0	23	183	123	0	2446
07:00	24	271	6	0	62	64	14	0	7	91	8	0	7	58	29	0	641
07:15	24	215	6	0	71	58	8	0	9	97	3	0	12	77	42	0	622
07:30	24	190	5	0	88	97	10	0	8	105	9	0	10	71	25	0	642
07:45	23	214	7	0	99	85	6	0	18	129	13	0	16	70	28	0	708
Total	95	890	24	0	320	304	38	0	42	422	33	0	45	276	124	0	2613
08:00	35	217	12	0	71	65	5	0	18	102	17	0	7	83	40	0	672
08:15	47	203	11	0	73	57	9	0	21	88	20	0	15	72	40	0	656
08:30	45	238	13	0	42	72	11	0	26	106	12	0	11	48	33	0	657
08:45	47	244	11	0	45	41	9	0	18	117	15	0	16	65	37	0	665
Total	174	902	47	0	231	235	34	0	83	413	64	0	49	268	150	0	2650
09:00	44	216	21	0	49	33	14	0	29	120	19	0	10	76	37	0	668
09:15	86	281	13	0	48	36	15	0	17	100	23	0	20	62	35	0	736
*** BREAK ***																	
Total	130	497	34	0	97	69	29	0	46	220	42	0	30	138	72	0	1404
*** BREAK ***																	
10:30	24	162	16	0	36	31	19	0	20	131	11	0	11	37	25	0	523
10:45	26	172	13	0	19	34	20	0	18	147	27	0	12	34	28	0	550
Total	50	334	29	0	55	65	39	0	38	278	38	0	23	71	53	0	1073
11:00	37	134	14	0	30	41	10	0	18	153	21	0	11	36	15	0	520
11:15	33	174	13	0	26	25	14	0	25	143	25	1	14	47	18	0	558
11:30	39	189	10	0	36	44	29	0	20	139	31	0	13	41	19	0	610
11:45	33	167	16	0	25	41	28	0	23	163	36	0	15	49	16	0	612
Total	142	664	53	0	117	151	81	0	86	598	113	1	53	173	68	0	2300
12:00	41	206	16	0	34	56	22	0	27	140	32	0	14	48	20	0	656
12:15	30	194	8	0	33	34	26	0	41	166	39	0	21	43	25	0	660
12:30	36	193	17	0	38	48	15	0	34	172	36	1	13	31	23	0	657
12:45	35	182	25	0	27	31	28	1	43	189	27	0	15	48	23	0	674
Total	142	775	66	0	132	169	91	1	145	667	134	1	63	170	91	0	2647
13:00	51	179	17	0	38	52	28	0	23	159	30	0	16	38	34	0	665
13:15	39	185	9	0	24	44	26	0	35	144	23	0	9	59	25	0	622
*** BREAK ***																	
Total	90	364	26	0	62	96	54	0	58	303	53	0	25	97	59	0	1287
*** BREAK ***																	
14:30	35	206	11	0	32	46	32	0	33	295	26	0	11	54	20	0	801
14:45	27	187	19	0	25	46	26	0	38	357	38	0	30	75	24	0	892
Total	62	393	30	0	57	92	58	0	71	652	64	0	41	129	44	0	1693
15:00	25	177	18	0	23	68	43	0	55	331	43	0	23	35	28	0	869
15:15	27	196	13	0	28	64	34	0	42	395	43	5	34	58	25	0	964
15:30	33	186	14	0	27	75	49	0	57	358	33	1	33	72	26	0	964
15:45	34	167	19	0	37	74	54	0	53	404	26	0	43	70	33	0	1014
Total	119	726	64	0	115	281	180	0	207	1488	145	6	133	235	112	0	3811

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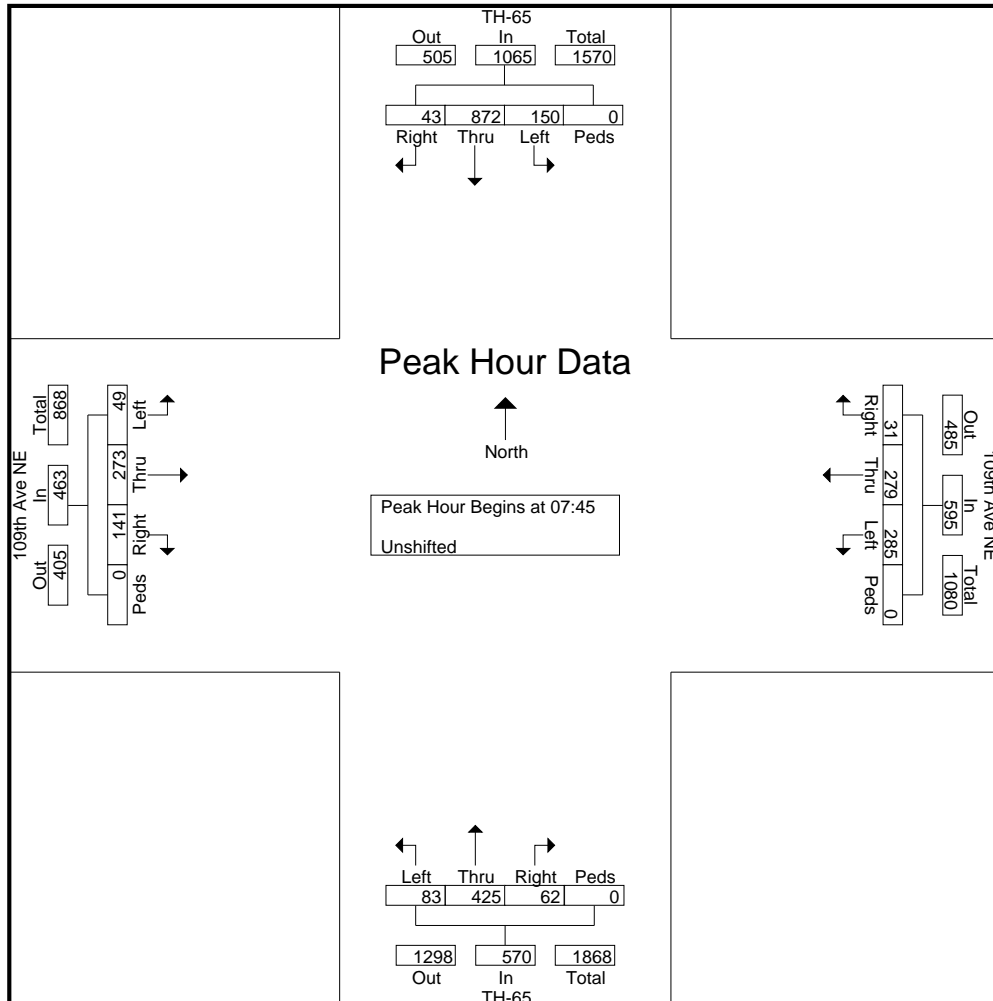
Start Time	TH-65 Southbound				109th Ave NE Westbound				TH-65 Northbound				109th Ave NE Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
16:00	42	160	12	0	34	93	49	0	50	402	35	0	41	79	27	0	1024
16:15	53	188	13	0	40	90	57	0	74	404	27	0	25	72	29	0	1072
16:30	36	201	6	0	50	102	60	0	81	419	44	0	44	77	38	0	1158
16:45	42	218	10	0	50	95	63	0	73	379	34	0	34	90	35	0	1123
Total	173	767	41	0	174	380	229	0	278	1604	140	0	144	318	129	0	4377
17:00	42	254	7	0	34	95	63	0	50	383	34	0	45	108	32	0	1147
17:15	31	233	8	0	32	85	73	8	54	380	11	0	39	105	25	0	1084
17:30	43	235	14	0	45	95	38	1	43	435	46	2	42	85	25	0	1149
17:45	35	199	9	0	35	96	51	2	56	385	46	1	30	81	29	0	1055
Total	151	921	38	0	146	371	225	11	203	1583	137	3	156	379	111	0	4435
Grand Total	1394	8592	479	0	1720	2314	1088	12	1281	8485	1002	11	785	2437	1136	0	30736
Apprch %	13.3	82.1	4.6	0	33.5	45.1	21.2	0.2	11.9	78.7	9.3	0.1	18	55.9	26.1	0	
Total %	4.5	28	1.6	0	5.6	7.5	3.5	0	4.2	27.6	3.3	0	2.6	7.9	3.7	0	

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	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 to 09:00 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:45																					
07:45	23	214	7	0	244	99	85	6	0	190	18	129	13	0	160	16	70	28	0	114	708
08:00	35	217	12	0	264	71	65	5	0	141	18	102	17	0	137	7	83	40	0	130	672
08:15	47	203	11	0	261	73	57	9	0	139	21	88	20	0	129	15	72	40	0	127	656
08:30	45	238	13	0	296	42	72	11	0	125	26	106	12	0	144	11	48	33	0	92	657
Total Volume	150	872	43	0	1065	285	279	31	0	595	83	425	62	0	570	49	273	141	0	463	2693
% App. Total	14.1	81.9	4	0		47.9	46.9	5.2	0		14.6	74.6	10.9	0		10.6	59	30.5	0		
PHF	.798	.916	.827	.000	.899	.720	.821	.705	.000	.783	.798	.824	.775	.000	.891	.766	.822	.881	.000	.890	.951



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	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:30																					
16:30	36	201	6	0	243	50	102	60	0	212	81	419	44	0	544	44	77	38	0	159	1158
16:45	42	218	10	0	270	50	95	63	0	208	73	379	34	0	486	34	90	35	0	159	1123
17:00	42	254	7	0	303	34	95	63	0	192	50	383	34	0	467	45	108	32	0	185	1147
17:15	31	233	8	0	272	32	85	73	8	198	54	380	11	0	445	39	105	25	0	169	1084
Total Volume	151	906	31	0	1088	166	377	259	8	810	258	1561	123	0	1942	162	380	130	0	672	4512
% App. Total	13.9	83.3	2.8	0		20.5	46.5	32	1		13.3	80.4	6.3	0		24.1	56.5	19.3	0		
PHF	.899	.892	.775	.000	.898	.830	.924	.887	.250	.955	.796	.931	.699	.000	.892	.900	.880	.855	.000	.908	.974

