

# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at I-694, south ramps  
Ref.Pt.: 143.461  
data by: Alliant Engineering Inc  
TURN MOVEMENT COUNT

File Name : 7 - TH 61 & I-694 South Ramp  
Site Code : 7  
Start Date : 11/14/2012  
Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					ramp to I-694 EB Westbound					TH-61 Northbound					ramp from I-694 EB 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	16	62	0	0	0	0	0	0	0	0	0	57	4	0	0	18	0	48	0	205
06:15	0	25	121	0	0	0	0	0	0	0	0	0	78	4	0	0	24	0	67	0	319
06:30	0	35	197	0	0	0	0	0	0	0	0	0	100	12	0	0	33	0	93	0	470
06:45	0	19	245	0	0	0	0	0	0	0	0	0	139	15	0	0	40	0	121	0	579
Total	0	95	625	0	0	0	0	0	0	0	0	0	374	35	0	0	115	0	329	0	1573
07:00	0	44	259	0	0	0	0	0	0	0	0	0	113	12	0	0	46	0	116	0	590
07:15	0	60	330	0	0	0	0	0	0	0	0	0	134	23	0	0	49	0	128	0	724
07:30	0	43	314	0	0	0	0	0	0	0	0	0	165	21	0	0	65	0	143	0	751
07:45	0	50	292	0	0	0	0	0	0	0	0	0	150	22	0	0	61	0	161	0	736
Total	0	197	1195	0	0	0	0	0	0	0	0	0	562	78	0	0	221	0	548	0	2801
08:00	0	43	240	0	0	0	0	0	0	0	0	0	142	18	0	0	44	0	130	0	617
08:15	0	35	184	0	0	0	0	0	0	0	0	0	161	17	0	0	49	0	108	0	554
08:30	0	36	183	0	0	0	0	0	0	0	0	0	163	24	0	0	40	0	104	0	550
08:45	0	26	165	0	0	0	0	0	0	0	0	0	150	14	0	0	48	0	108	0	511
Total	0	140	772	0	0	0	0	0	0	0	0	0	616	73	0	0	181	0	450	0	2232
09:00	0	20	154	0	0	0	0	0	0	0	0	0	144	13	0	0	42	0	82	0	455
09:15	0	26	135	0	0	0	0	0	0	0	0	0	166	11	0	0	40	0	94	0	472
**** BREAK ****																					
Total	0	46	289	0	0	0	0	0	0	0	0	0	310	24	0	0	82	0	176	0	927
**** BREAK ****																					
10:30	0	23	160	0	0	0	0	0	0	0	0	0	189	14	0	0	33	0	87	0	506
10:45	0	24	153	0	0	0	0	0	0	0	0	0	195	25	0	0	52	0	120	0	569
Total	0	47	313	0	0	0	0	0	0	0	0	0	384	39	0	0	85	0	207	0	1075
11:00	0	23	154	0	0	0	0	0	0	0	0	0	216	27	0	0	38	0	82	0	540
11:15	0	39	159	0	0	0	0	0	0	0	0	0	226	19	0	0	43	0	108	0	594
11:30	0	36	212	0	0	0	0	0	0	0	0	0	218	20	0	0	30	0	106	0	622
11:45	0	36	191	0	0	0	0	0	0	0	0	0	214	22	0	0	51	0	90	0	604
Total	0	134	716	0	0	0	0	0	0	0	0	0	874	88	0	0	162	0	386	0	2360
12:00	0	34	200	0	0	0	0	0	0	0	0	0	238	13	0	0	50	0	85	0	620
12:15	0	25	167	0	0	0	0	0	0	0	0	0	270	18	0	0	50	0	98	0	628
12:30	0	34	168	0	0	0	0	0	0	0	0	0	277	19	0	0	57	0	114	0	669
12:45	0	32	187	0	0	0	0	0	0	0	0	0	277	21	0	0	57	0	95	0	669
Total	0	125	722	0	0	0	0	0	0	0	0	0	1062	71	0	0	214	0	392	0	2586
13:00	0	26	159	0	0	0	0	0	0	0	0	0	276	26	0	0	32	0	84	0	603
13:15	0	39	157	0	0	0	0	0	0	0	0	0	240	32	0	0	38	0	84	0	590
**** BREAK ****																					
Total	0	65	316	0	0	0	0	0	0	0	0	0	516	58	0	0	70	0	168	0	1193
**** BREAK ****																					
14:30	0	33	146	0	0	0	0	0	0	0	0	0	293	31	0	0	45	0	106	0	654
14:45	0	28	170	0	0	0	0	0	0	0	0	0	295	30	0	0	47	0	102	0	672
Total	0	61	316	0	0	0	0	0	0	0	0	0	588	61	0	0	92	0	208	0	1326
15:00	0	36	150	0	0	0	0	0	0	0	0	0	303	24	0	0	55	0	118	0	686
15:15	0	40	206	0	0	0	0	0	0	0	0	0	347	22	0	0	41	0	104	0	760
15:30	0	29	178	0	0	0	0	0	0	0	0	0	417	23	0	0	46	0	119	0	812
15:45	0	43	181	0	0	0	0	0	0	0	0	0	360	16	0	0	42	0	89	0	731
Total	0	148	715	0	0	0	0	0	0	0	0	0	1427	85	0	0	184	0	430	0	2989
16:00	0	37	201	0	0	0	0	0	0	0	0	0	328	16	0	0	51	0	101	0	734

# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at I-694, south ramps  
 Ref.Pt.: 143.461  
 data by: Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : 7 - TH 61 & I-694 South Ramp  
 Site Code : 7  
 Start Date : 11/14/2012  
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					ramp to I-694 EB Westbound					TH-61 Northbound					ramp from I-694 EB 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	51	189	0	0	0	0	0	0	0	0	0	371	27	0	0	60	0	96	0	794
16:30	0	52	197	0	0	0	0	0	0	0	0	0	415	26	0	0	45	0	115	0	850
16:45	0	52	193	0	0	0	0	0	0	0	0	0	398	42	0	0	55	0	127	0	867
Total	0	192	780	0	0	0	0	0	0	0	0	0	1512	111	0	0	211	0	439	0	3245
17:00	0	48	195	0	0	0	0	0	0	0	0	0	405	34	0	0	63	0	110	0	855
17:15	0	50	185	0	0	0	0	0	0	0	0	0	391	29	0	0	56	0	102	0	813
17:30	0	40	177	0	0	0	0	0	0	0	0	0	354	38	0	0	44	0	122	0	775
17:45	0	41	162	0	0	0	0	0	0	0	0	0	303	30	0	0	34	0	106	0	676
Total	0	179	719	0	0	0	0	0	0	0	0	0	1453	131	0	0	197	0	440	0	3119
18:00	0	28	155	0	0	0	0	0	0	0	0	0	302	26	0	0	48	0	119	0	678
18:15	0	35	180	0	0	0	0	0	0	0	0	0	263	19	0	0	44	0	98	0	639
Grand Total	0	1492	7813	0	0	0	0	0	0	0	0	0	10243	899	0	0	1906	0	4390	0	26743
Apprch %	0	16	84	0	0	0	0	0	0	0	0	0	91.9	8.1	0	0	30.3	0	69.7	0	
Total %	0	5.6	29.2	0	0	0	0	0	0	0	0	0	38.3	3.4	0	0	7.1	0	16.4	0	
Cars	0	1406	7654	0	0	0	0	0	0	0	0	0	10038	882	0	0	1830	0	4288	0	26098
% Cars	0	94.2	98	0	0	0	0	0	0	0	0	0	98	98.1	0	0	96	0	97.7	0	97.6
Trucks	0	86	159	0	0	0	0	0	0	0	0	0	205	17	0	0	76	0	102	0	645
% Trucks	0	5.8	2	0	0	0	0	0	0	0	0	0	2	1.9	0	0	4	0	2.3	0	2.4

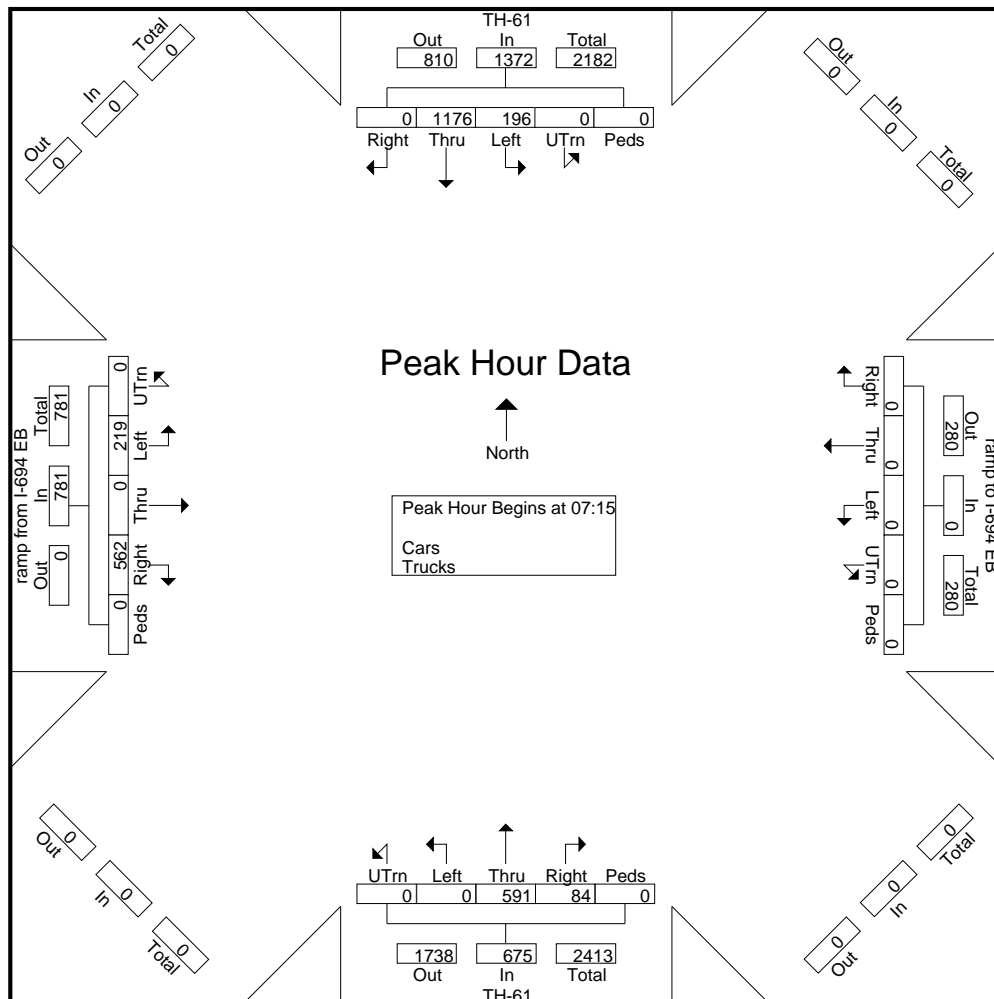
# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at I-694, south ramps  
 Ref.Pt.: 143.461  
 data by: Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : 7 - TH 61 & I-694 South Ramp  
 Site Code : 7  
 Start Date : 11/14/2012  
 Page No : 3

Start Time	TH-61 Southbound						ramp to I-694 EB Westbound						TH-61 Northbound						ramp from I-694 EB 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		
07:15	0	60	330	0	0	390	0	0	0	0	0	0	0	0	13	23	0	157	0	49	0	12	8	0	177	724
07:30	0	43	314	0	0	357	0	0	0	0	0	0	0	0	165	21	0	186	0	65	0	143	0	208	751	
07:45	0	50	292	0	0	342	0	0	0	0	0	0	0	0	150	22	0	172	0	61	0	161	0	222	736	
08:00	0	43	240	0	0	283	0	0	0	0	0	0	0	0	142	18	0	160	0	44	0	130	0	174	617	
Total Volume	0	196	1176	0	0	1372	0	0	0	0	0	0	0	0	591	84	0	675	0	219	0	562	0	781	2828	
% App. Total	0	14.3	85.7	0	0		0	0	0	0	0	0	0	0	87.6	12.4	0		0	28	0	72	0			
PHF	.000	.817	.891	.000	.000	.879	.000	.000	.000	.000	.000	.000	.000	.000	.895	.913	.000	.907	.000	.842	.000	.873	.000	.880	.941	

Peak Hour Analysis From 06:00 to 09:15 - Peak 1 of 1  
 Peak Hour for Entire Intersection Begins at 07:15



# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at I-694, south ramps  
 Ref.Pt.: 143.461  
 data by: Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : 7 - TH 61 & I-694 South Ramp  
 Site Code : 7  
 Start Date : 11/14/2012  
 Page No : 4

Start Time	TH-61 Southbound						ramp to I-694 EB Westbound						TH-61 Northbound						ramp from I-694 EB 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	
Peak Hour Analysis From 14:30 to 18:15 - Peak 1 of 1																									
Peak Hour for Entire Intersection Begins at 16:30																									
16:30	0	52	197	0	0	249	0	0	0	0	0	0	0	0	415	26	0	441	0	45	0	115	0	160	850
16:45	0	52	193	0	0	245	0	0	0	0	0	0	0	0	398	42	0	440	0	55	0	127	0	182	867
17:00	0	48	195	0	0	243	0	0	0	0	0	0	0	0	405	34	0	439	0	63	0	110	0	173	855
17:15	0	50	185	0	0	235	0	0	0	0	0	0	0	0	391	29	0	420	0	56	0	102	0	158	813
Total Volume	0	202	770	0	0	972	0	0	0	0	0	0	0	0	1609	131	0	1740	0	219	0	454	0	673	3385
% App. Total	0	20.8	79.2	0	0		0	0	0	0	0		0	0	92.5	7.5	0		0	32.5	0	67.5	0		
PHF	.000	.971	.977	.000	.000	.976	.000	.000	.000	.000	.000	.000	.000	.000	.969	.780	.000	.986	.000	.869	.000	.894	.000	.924	.976

