

# Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at TH-96 WHITE BEAR LAKE  
 Ref.Pt.: 147.822  
 data by: Alliant Engineering Inc  
 TURN MOVEMENT COUNT

File Name : TH-61 at TH-96 WBL 2012  
 Site Code : 19  
 Start Date : 11/7/2012  
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					TH-96 Westbound					TH-61 Northbound					Int. Total
	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	
06:00	0	4	121	0	0	0	33	0	1	0	0	0	30	14	0	203
06:15	0	4	175	0	0	0	54	0	3	0	0	0	48	13	0	297
06:30	0	4	225	0	0	0	64	0	3	0	0	0	60	21	0	377
06:45	0	5	266	0	0	0	75	0	2	0	0	0	55	22	0	425
Total	0	17	787	0	0	0	226	0	9	0	0	0	193	70	0	1302
07:00	0	5	258	0	1	0	86	0	3	0	0	0	41	40	0	434
07:15	0	16	329	0	1	0	119	0	5	0	0	0	57	43	0	570
07:30	0	12	329	0	0	0	114	0	4	0	0	0	58	43	0	560
07:45	0	12	277	0	0	0	103	0	10	0	0	0	69	46	0	517
Total	0	45	1193	0	2	0	422	0	22	0	0	0	225	172	0	2081
08:00	0	7	192	0	0	0	89	0	2	0	0	0	62	30	0	382
08:15	1	4	173	0	0	0	73	0	6	0	0	0	61	46	0	364
08:30	0	9	133	0	0	0	83	0	3	0	0	0	65	32	0	325
08:45	0	9	152	0	0	0	85	0	4	0	0	0	72	40	0	362
Total	1	29	650	0	0	0	330	0	15	0	0	0	260	148	0	1433
09:00	0	4	114	0	0	0	60	0	11	0	0	0	59	36	0	284
09:15	0	4	115	0	0	0	54	1	11	0	0	0	88	24	0	297
*****BREAK*****																
Total	0	8	229	0	0	0	114	1	22	0	0	0	147	60	0	581
*****BREAK*****																
10:30	0	5	104	0	0	0	32	0	8	1	0	0	77	40	0	267
10:45	0	2	94	0	0	0	48	0	7	0	0	0	81	32	0	264
Total	0	7	198	0	0	0	80	0	15	1	0	0	158	72	0	531
11:00	1	4	91	0	0	0	39	0	5	0	0	0	79	33	0	252
11:15	0	7	111	0	0	0	31	0	8	0	0	0	84	41	0	282
11:30	0	4	143	0	0	0	41	0	3	0	0	0	98	49	0	338
11:45	0	6	122	0	0	0	46	0	5	1	0	0	119	51	0	350
Total	1	21	467	0	0	0	157	0	21	1	0	0	380	174	0	1222
12:00	0	7	113	0	0	0	37	0	4	0	0	0	106	51	0	318
12:15	0	9	106	0	0	0	29	0	3	0	0	0	120	68	0	335
12:30	0	4	126	0	0	0	57	0	4	0	0	0	97	54	0	342
12:45	0	5	93	0	0	0	36	0	1	0	0	0	110	43	0	288
Total	0	25	438	0	0	0	159	0	12	0	0	0	433	216	0	1283
13:00	1	4	83	0	0	0	48	0	2	0	0	0	97	53	0	288
13:15	0	8	84	0	0	0	52	0	5	0	0	0	116	41	0	306
*****BREAK*****																
Total	1	12	167	0	0	0	100	0	7	0	0	0	213	94	0	594
*****BREAK*****																
14:30	0	11	95	0	0	0	47	0	8	0	0	0	156	44	0	361
14:45	0	10	95	0	0	0	56	0	10	0	0	0	160	100	0	431
Total	0	21	190	0	0	0	103	0	18	0	0	0	316	144	0	792
15:00	0	6	105	0	0	0	52	0	16	0	0	0	174	74	1	428
15:15	0	5	110	0	2	0	38	0	4	0	0	0	170	80	0	409
15:30	0	5	113	0	0	0	58	0	7	0	0	0	187	75	0	445
15:45	0	13	105	0	3	0	53	0	6	1	0	1	221	80	0	483
Total	0	29	433	0	5	0	201	0	33	1	0	1	752	309	1	1765

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Groups Printed- Cars - Trucks

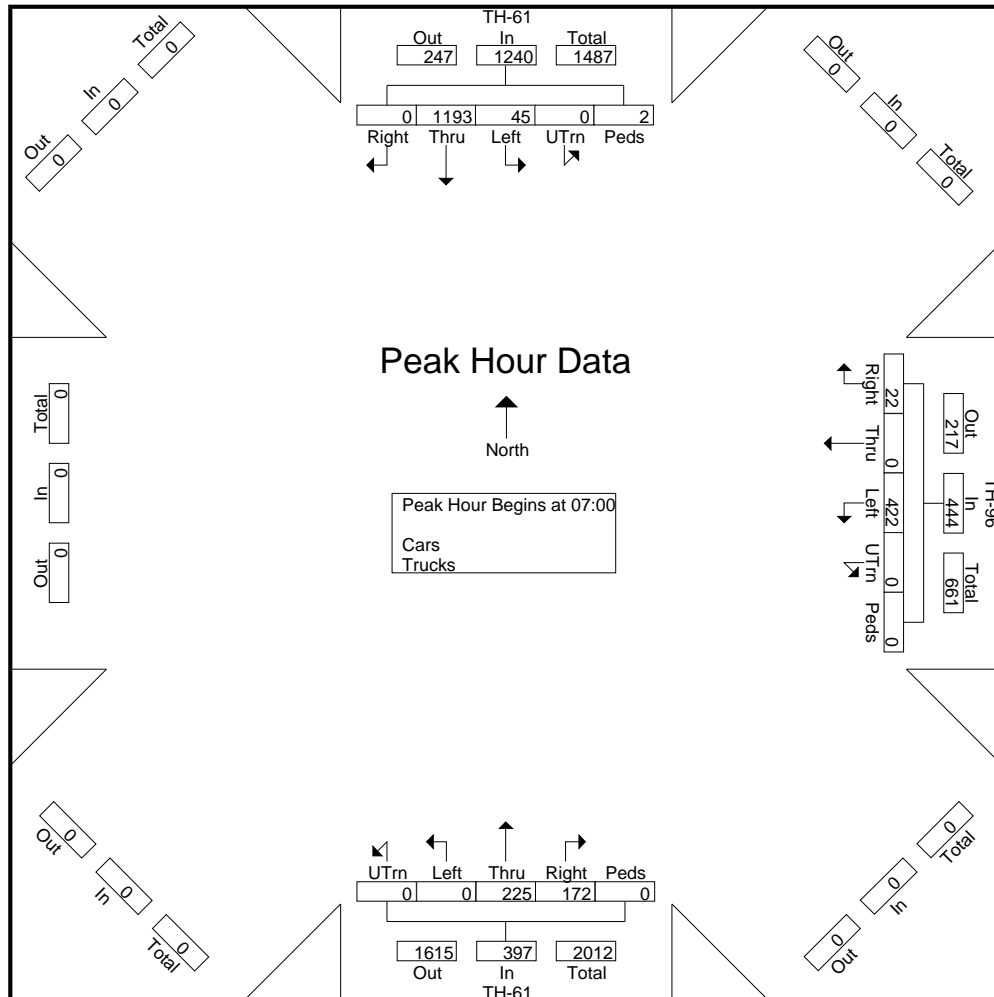
Start Time	TH-61 Southbound					TH-96 Westbound					TH-61 Northbound					Int. Total
	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	UTrn	Left	Thru	Right	Peds	
16:00	0	3	110	0	0	1	59	0	8	0	0	0	211	90	0	482
16:15	0	7	104	0	0	0	48	1	11	0	0	0	231	91	0	493
16:30	0	16	115	0	0	0	67	0	12	0	0	0	250	102	0	562
16:45	0	3	137	0	1	0	79	0	9	0	0	0	266	109	0	604
Total	0	29	466	0	1	1	253	1	40	0	0	0	958	392	0	2141
17:00	0	11	144	0	0	3	61	0	12	0	0	0	226	123	0	580
17:15	0	8	160	0	4	0	63	0	14	0	1	0	234	111	0	595
17:30	0	9	114	0	0	0	63	0	5	0	0	0	257	115	0	563
17:45	0	16	120	0	0	0	46	0	11	0	0	0	213	120	0	526
Total	0	44	538	0	4	3	233	0	42	0	1	0	930	469	0	2264
18:00	1	11	125	0	0	0	51	0	2	0	0	0	231	86	0	507
18:15	0	4	141	0	0	0	44	0	9	0	0	0	200	87	0	485
Grand Total	4	302	6022	0	12	4	2473	2	267	3	1	1	5396	2493	1	16981
Apprch %	0.1	4.8	95	0	0.2	0.1	90	0.1	9.7	0.1	0	0	68.4	31.6	0	
Total %	0	1.8	35.5	0	0.1	0	14.6	0	1.6	0	0	0	31.8	14.7	0	
Cars	4	278	5819	0	11	4	2400	0	244	0	1	1	5195	2423	1	16381
% Cars	100	92.1	96.6	0	91.7	100	97	0	91.4	0	100	100	96.3	97.2	100	96.5
Trucks	0	24	203	0	1	0	73	2	23	3	0	0	201	70	0	600
% Trucks	0	7.9	3.4	0	8.3	0	3	100	8.6	100	0	0	3.7	2.8	0	3.5

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Start Time	TH-61 Southbound						TH-96 Westbound						TH-61 Northbound						Int. 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 06:00 to 09:15 - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 07:00																			
07:00	0	5	258	0	1	264	0	86	0	3	0	89	0	0	41	40	0	81	434
07:15	0	16	329	0	1	346	0	119	0	5	0	124	0	0	57	43	0	100	570
07:30	0	12	329	0	0	341	0	114	0	4	0	118	0	0	58	43	0	101	560
07:45	0	12	277	0	0	289	0	103	0	10	0	113	0	0	69	46	0	115	517
Total Volume	0	45	1193	0	2	1240	0	422	0	22	0	444	0	0	225	172	0	397	2081
% App. Total	0	3.6	96.2	0	0.2		0	95	0	5	0		0	0	56.7	43.3	0		
PHF	.000	.703	.907	.000	.500	.896	.000	.887	.000	.550	.000	.895	.000	.000	.815	.935	.000	.863	.913



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Start Time	TH-61 Southbound						TH-96 Westbound						TH-61 Northbound						Int. 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 16:45																			
16:45	0	3	137	0	1	141	0	79	0	9	0	88	0	0	266	109	0	375	604
17:00	0	11	144	0	0	155	3	61	0	12	0	76	0	0	226	123	0	349	580
17:15	0	8	160	0	4	172	0	63	0	14	0	77	1	0	234	111	0	346	595
17:30	0	9	114	0	0	123	0	63	0	5	0	68	0	0	257	115	0	372	563
Total Volume	0	31	555	0	5	591	3	266	0	40	0	309	1	0	983	458	0	1442	2342
% App. Total	0	5.2	93.9	0	0.8		1	86.1	0	12.9	0		0.1	0	68.2	31.8	0		
PHF	.000	.705	.867	.000	.313	.859	.250	.842	.000	.714	.000	.878	.250	.000	.924	.931	.000	.961	.969

