

Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at Buffalo St. WHITE BEAR LAKE
 Ref.Pt.: 148.663
 data by: Alliant Engineering Inc
 TURN MOVEMENT COUNT

File Name : TH-61 at Buffalo St WBL 2012
 Site Code : 20
 Start Date : 11/7/2012
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					Buffalo St Westbound					TH-61 Northbound					Buffalo 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	6	101	5	0	0	7	2	5	0	1	0	29	1	0	0	0	2	6	0	165
06:15	0	2	157	9	0	0	14	5	1	0	0	2	45	1	0	0	3	5	9	0	253
06:30	0	5	201	18	0	0	12	6	6	0	0	1	58	5	0	0	15	7	10	0	344
06:45	0	10	264	11	1	0	11	14	5	0	1	2	45	1	0	0	3	5	11	0	384
Total	0	23	723	43	1	0	44	27	17	0	2	5	177	8	0	0	21	19	36	0	1146
07:00	0	8	212	39	0	0	26	28	12	1	2	5	38	2	0	0	10	14	14	0	411
07:15	0	7	320	29	0	0	26	22	10	0	1	4	54	2	0	0	20	15	15	0	525
07:30	0	9	291	11	0	0	21	15	9	0	0	5	59	2	1	0	5	9	19	0	456
07:45	0	6	220	10	0	0	23	16	19	0	1	9	62	3	0	0	1	10	11	0	391
Total	0	30	1043	89	0	0	96	81	50	1	4	23	213	9	1	0	36	48	59	0	1783
08:00	0	11	171	7	0	0	16	11	10	0	3	5	49	2	0	0	15	8	15	0	323
08:15	0	5	130	7	0	0	27	7	5	0	1	3	52	4	0	0	4	5	19	0	269
08:30	0	7	124	5	0	0	15	9	10	0	3	4	68	1	0	0	7	11	5	0	269
08:45	1	12	128	9	0	0	13	15	7	0	3	6	64	9	0	0	5	7	9	0	288
Total	1	35	553	28	0	0	71	42	32	0	10	18	233	16	0	0	31	31	48	0	1149
09:00	0	7	102	11	0	0	8	7	7	0	0	6	60	5	0	0	7	10	7	0	237
09:15	0	5	107	4	0	0	9	11	17	0	2	3	87	7	0	0	5	7	8	0	272
**** BREAK ****	0	12	209	15	0	0	17	18	24	0	2	9	147	12	0	0	12	17	15	0	509
**** BREAK ****	0	7	98	4	0	0	8	5	1	0	0	3	75	6	0	0	5	4	2	0	218
10:30	0	5	79	7	0	0	6	3	5	1	3	3	74	7	0	0	4	3	5	0	205
Total	0	12	177	11	0	0	14	8	6	1	3	6	149	13	0	0	9	7	7	0	423
11:00	0	6	79	7	0	0	6	3	3	0	4	7	68	6	0	0	7	3	6	0	205
11:15	1	3	106	2	0	0	11	3	7	0	1	4	80	5	0	0	6	7	6	0	242
11:30	0	2	108	3	0	0	35	4	15	0	2	7	81	8	0	0	8	8	10	0	291
11:45	0	5	98	4	0	0	23	4	5	0	5	8	104	7	0	0	6	8	4	0	281
Total	1	16	391	16	0	0	75	14	30	0	12	26	333	26	0	0	27	26	26	0	1019
12:00	0	8	89	7	0	0	12	6	6	0	1	5	96	5	1	0	8	2	7	0	253
12:15	0	8	85	6	0	0	10	9	6	0	9	6	105	7	1	0	0	6	15	0	273
12:30	0	9	100	8	0	0	12	7	8	0	4	4	90	8	0	0	3	3	7	0	263
12:45	0	6	76	6	0	0	8	3	12	0	2	6	78	15	0	0	11	14	5	0	242
Total	0	31	350	27	0	0	42	25	32	0	16	21	369	35	2	0	22	25	34	0	1031
13:00	0	8	84	12	0	0	6	4	11	0	2	8	83	12	0	0	4	12	7	0	253
13:15	0	5	72	10	0	0	9	3	11	0	3	4	96	12	1	0	7	6	9	0	248
**** BREAK ****	0	13	156	22	0	0	15	7	22	0	5	12	179	24	1	0	11	18	16	0	501
**** BREAK ****	0	8	94	9	0	0	5	2	9	0	1	5	149	5	0	0	17	13	1	0	318
14:30	0	8	81	7	0	0	6	5	5	0	3	9	160	10	0	0	7	12	8	0	321
Total	0	16	175	16	0	0	11	7	14	0	4	14	309	15	0	0	24	25	9	0	639
15:00	0	6	98	8	0	0	10	7	11	0	2	11	159	11	0	0	14	10	6	0	353
15:15	0	10	98	11	2	0	3	13	13	0	0	7	158	8	0	0	21	6	7	0	357
15:30	0	8	98	9	1	0	7	12	9	0	4	12	170	11	0	0	8	10	1	0	360
15:45	0	7	109	7	0	0	6	10	11	1	1	10	200	13	0	0	14	12	7	0	408
Total	0	31	403	35	3	0	26	42	44	1	7	40	687	43	0	0	57	38	21	0	1478
16:00	0	6	102	10	0	0	6	11	7	0	1	9	189	11	0	0	8	11	8	0	379

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Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					Buffalo St Westbound					TH-61 Northbound					Buffalo 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	14	94	8	2	0	7	11	11	0	5	12	209	20	0	0	18	16	7	0	434
16:30	0	13	108	9	0	0	13	9	16	0	4	15	220	23	0	0	19	15	8	0	472
16:45	0	11	116	13	0	0	14	9	12	0	1	12	244	29	0	0	15	20	8	0	504
Total	0	44	420	40	2	0	40	40	46	0	11	48	862	83	0	0	60	62	31	0	1789
17:00	0	6	130	11	0	0	10	15	16	0	4	19	195	15	0	0	17	33	7	0	478
17:15	0	18	115	8	0	0	9	5	12	0	6	9	221	21	1	0	9	41	12	0	487
17:30	0	12	98	8	0	0	10	10	16	0	3	15	211	35	0	0	14	26	9	0	467
17:45	0	24	101	9	0	0	10	11	16	0	5	13	162	42	0	0	10	27	11	0	441
Total	0	60	444	36	0	0	39	41	60	0	18	56	789	113	1	0	50	127	39	0	1873
18:00	0	29	85	1	0	0	33	22	21	0	2	13	146	41	0	0	9	39	3	0	444
18:15	0	16	101	10	0	0	26	13	14	0	12	14	172	29	0	0	5	9	5	0	426
Grand Total	2	368	5230	389	6	0	549	387	412	3	108	305	4765	467	5	0	374	491	349	0	14210
Apprch %	0	6.1	87.2	6.5	0.1	0	40.6	28.6	30.5	0.2	1.9	5.4	84.3	8.3	0.1	0	30.8	40.4	28.7	0	
Total %	0	2.6	36.8	2.7	0	0	3.9	2.7	2.9	0	0.8	2.1	33.5	3.3	0	0	2.6	3.5	2.5	0	
Cars	2	355	5015	353	5	0	540	377	387	1	105	294	4590	453	2	0	306	483	333	0	13601
% Cars	100	96.5	95.9	90.7	83.3	0	98.4	97.4	93.9	33.3	97.2	96.4	96.3	97	40	0	81.8	98.4	95.4	0	95.7
Trucks	0	13	215	36	1	0	9	10	25	2	3	11	175	14	3	0	68	8	16	0	609
% Trucks	0	3.5	4.1	9.3	16.7	0	1.6	2.6	6.1	66.7	2.8	3.6	3.7	3	60	0	18.2	1.6	4.6	0	4.3

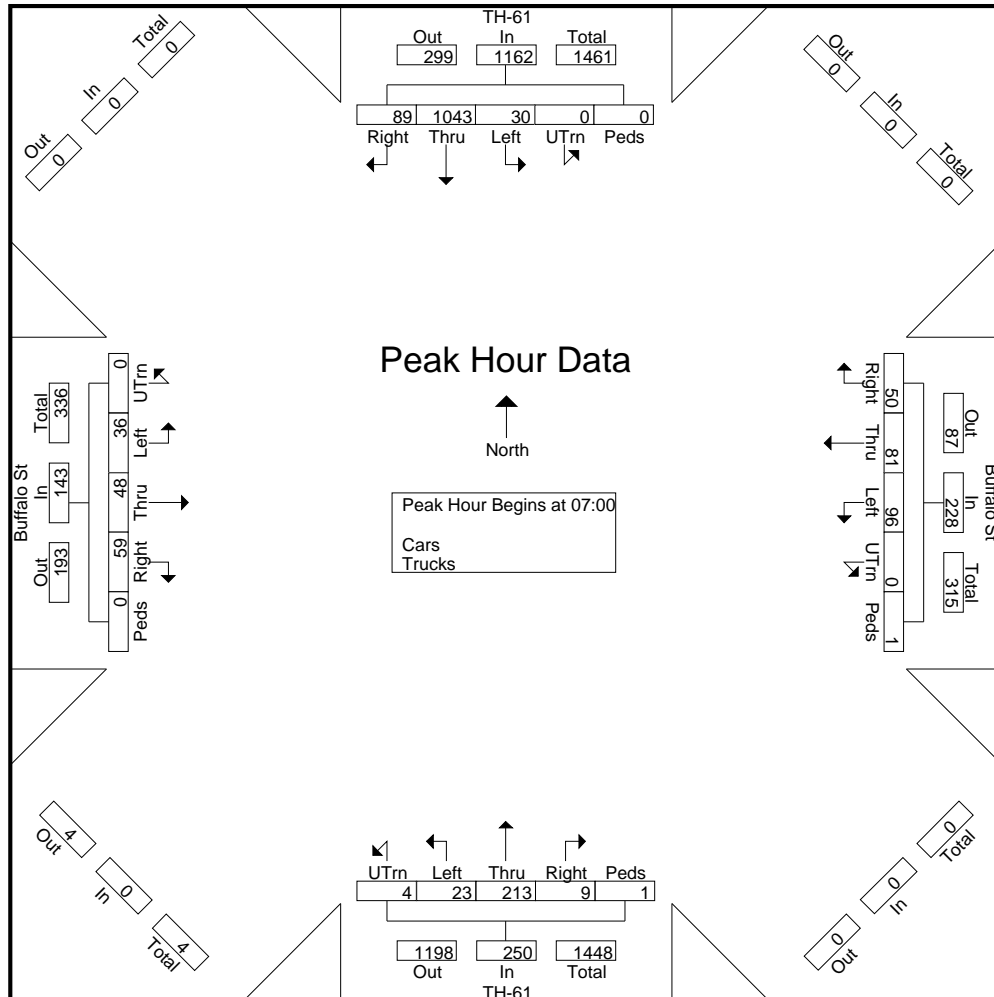
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Start Time	TH-61 Southbound					Buffalo St Westbound					TH-61 Northbound					Buffalo St Eastbound					Int. Total				
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left		Thru	Right	Peds	App. Total
07:00	0	8	212	39	0	259	0	26	28	12	1	67	2	5	38	2	0	47	0	10	14	14	0	38	411
07:15	0	7	320	29	0	356	0	26	22	10	0	58	1	4	54	2	0	61	0	20	15	15	0	50	525
07:30	0	9	291	11	0	311	0	21	15	9	0	45	0	5	59	2	1	67	0	5	9	19	0	33	456
07:45	0	6	220	10	0	236	0	23	16	19	0	58	1	9	62	3	0	75	0	1	10	11	0	22	391
Total Volume	0	30	1043	89	0	1162	0	96	81	50	1	228	4	23	213	9	1	250	0	36	48	59	0	143	1783
% App. Total	0	2.6	89.8	7.7	0		0	42.1	35.5	21.9	0.4		1.6	9.2	85.2	3.6	0.4		0	25.2	33.6	41.3	0		
PHF	.000	.833	.815	.571	.000	.816	.000	.923	.723	.658	.250	.851	.500	.639	.859	.750	.250	.833	.000	.450	.800	.776	.000	.715	.849

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



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Start Time	TH-61 Southbound						Buffalo St Westbound						TH-61 Northbound						Buffalo 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	13	108	9	0	130	0	13	9	16	0	38	4	15	220	23	0	262	0	19	15	8	0	42	472
16:45	0	11	116	13	0	140	0	14	9	12	0	35	1	12	244	29	0	286	0	15	20	8	0	43	504
17:00	0	6	130	11	0	147	0	10	15	16	0	41	4	19	195	15	0	233	0	17	33	7	0	57	478
17:15	0	18	115	8	0	141	0	9	5	12	0	26	6	9	221	21	1	258	0	9	41	12	0	62	487
Total Volume	0	48	469	41	0	558	0	46	38	56	0	140	15	55	880	88	1	1039	0	60	109	35	0	204	1941
% App. Total	0	8.6	84.1	7.3	0		0	32.9	27.1	40	0		1.4	5.3	84.7	8.5	0.1		0	29.4	53.4	17.2	0		
PHF	.000	.667	.902	.788	.000	.949	.000	.821	.633	.875	.000	.854	.625	.724	.902	.759	.250	.908	.000	.789	.665	.729	.000	.823	.963

