

Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at Cedar Ave WHITE BEAR LAKE
 Ref.Pt.: 145.157
 data by: Alliant Engineering Inc
 TURN MOVEMENT COUNT

File Name : 12 - TH 61 & Cedar Ave
 Site Code : 12
 Start Date : 11/7/2012
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					Cedar Ave Westbound					TH-61 Northbound					Cedar Ave 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	0	119	0	0	0	15	3	3	0	0	0	41	1	0	0	0	0	4	0	186
06:15	0	0	189	1	0	0	18	3	4	0	0	1	50	1	0	0	0	3	14	0	284
06:30	0	3	220	2	0	0	19	8	12	0	0	3	63	7	0	0	0	0	11	0	348
06:45	0	3	318	2	0	0	11	5	4	0	0	3	81	5	0	0	0	6	33	0	471
Total	0	6	846	5	0	0	63	19	23	0	0	7	235	14	0	0	0	9	62	0	1289
07:00	0	6	291	0	0	0	24	4	10	0	0	7	77	14	0	0	0	6	15	0	454
07:15	0	8	335	2	0	0	40	10	9	0	0	3	97	15	0	0	0	11	13	0	543
07:30	0	11	358	0	0	0	34	5	5	0	0	12	92	13	0	0	1	27	21	0	579
07:45	0	4	314	2	0	0	36	4	16	0	0	8	85	24	0	0	0	23	12	0	528
Total	0	29	1298	4	0	0	134	23	40	0	0	30	351	66	0	0	1	67	61	0	2104
08:00	0	6	249	1	0	0	25	13	5	0	0	9	92	15	0	0	0	11	6	0	432
08:15	0	6	240	1	0	0	19	9	3	0	0	5	101	12	0	0	0	2	17	0	415
08:30	0	4	180	0	0	0	15	8	8	0	0	4	97	7	0	0	0	8	13	0	344
08:45	0	7	163	0	0	0	21	6	18	0	0	6	84	17	0	0	0	5	10	0	337
Total	0	23	832	2	0	0	80	36	34	0	0	24	374	51	0	0	0	26	46	0	1528
09:00	0	7	156	1	0	0	27	8	3	0	0	10	95	19	0	0	0	3	14	0	343
09:15	0	6	200	0	0	0	23	6	6	0	0	6	99	9	0	0	0	4	10	0	369
*****BREAK*****																					
Total	0	13	356	1	0	0	50	14	9	0	0	16	194	28	0	0	0	7	24	0	712
*****BREAK*****																					
10:30	0	7	172	1	0	0	11	3	6	0	0	12	123	10	0	0	1	5	12	0	363
10:45	0	6	136	4	0	0	17	6	4	0	0	7	151	13	0	0	0	8	12	0	364
Total	0	13	308	5	0	0	28	9	10	0	0	19	274	23	0	0	1	13	24	0	727
11:00	0	10	167	4	0	0	13	4	8	0	0	7	130	19	0	0	2	4	18	0	386
11:15	0	8	153	0	0	0	13	10	3	0	0	7	145	13	0	0	0	8	21	0	381
11:30	0	6	186	1	0	0	12	5	13	0	0	14	186	11	0	0	0	9	16	0	459
11:45	0	9	182	2	0	0	14	6	9	0	0	12	150	15	0	0	1	5	23	0	428
Total	0	33	688	7	0	0	52	25	33	0	0	40	611	58	0	0	3	26	78	0	1654
12:00	0	9	162	18	0	0	14	9	10	0	0	9	170	21	0	0	0	9	9	0	440
12:15	0	6	174	18	0	0	12	8	7	0	0	7	183	16	0	0	1	9	11	0	452
12:30	2	9	157	12	0	0	9	4	19	0	0	12	161	11	0	0	2	4	14	0	416
12:45	3	6	167	19	0	0	18	3	10	0	0	9	180	19	0	0	0	3	11	0	448
Total	5	30	660	67	0	0	53	24	46	0	0	37	694	67	0	0	3	25	45	0	1756
13:00	1	8	162	16	0	0	14	7	10	0	0	9	167	15	0	0	1	7	9	0	426
13:15	1	16	153	19	0	0	10	4	7	0	0	15	164	19	0	0	2	5	7	0	422
*****BREAK*****																					
Total	2	24	315	35	0	0	24	11	17	0	0	24	331	34	0	0	3	12	16	0	848
*****BREAK*****																					
14:30	0	9	183	0	0	0	12	4	18	0	0	15	190	19	0	0	0	8	13	0	471
14:45	0	6	150	1	0	0	17	13	22	0	0	14	235	24	0	0	1	8	37	0	528
Total	0	15	333	1	0	0	29	17	40	0	0	29	425	43	0	0	1	16	50	0	999
15:00	0	11	164	0	1	0	10	12	10	0	0	24	222	22	0	0	0	6	27	0	509
15:15	0	15	171	0	0	0	16	7	14	0	0	7	238	38	0	0	0	10	19	0	535
15:30	0	10	170	3	0	0	23	9	25	0	0	6	269	34	0	0	0	15	36	0	600
15:45	0	13	192	2	0	0	20	13	17	0	0	13	287	36	0	0	1	9	23	0	626
Total	0	49	697	5	1	0	69	41	66	0	0	50	1016	130	0	0	1	40	105	0	2270
16:00	0	21	176	7	0	0	17	12	19	0	0	17	293	36	0	0	1	16	24	0	639

Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at Cedar Ave WHITE BEAR LAKE
 Ref.Pt.: 145.157
 data by: Alliant Engineering Inc
 TURN MOVEMENT COUNT

File Name : 12 - TH 61 & Cedar Ave
 Site Code : 12
 Start Date : 11/7/2012
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	TH-61 Southbound					Cedar Ave Westbound					TH-61 Northbound					Cedar Ave 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	9	177	1	0	0	11	11	22	0	0	15	308	39	0	0	0	22	13	0	628
16:30	0	16	187	0	0	0	15	16	12	0	0	9	321	46	0	0	0	19	42	0	683
16:45	0	21	216	1	0	0	16	11	15	0	0	11	371	66	0	0	2	17	31	0	778
Total	0	67	756	9	0	0	59	50	68	0	0	52	1293	187	0	0	3	74	110	0	2728
17:00	0	20	195	3	0	0	21	13	24	0	0	13	307	44	0	0	3	16	30	0	689
17:15	0	18	186	0	0	0	15	11	24	0	0	11	341	64	0	0	2	17	20	0	709
17:30	0	12	168	0	0	0	16	9	21	0	0	9	321	62	0	0	0	16	24	0	658
17:45	0	13	151	1	0	0	10	5	16	0	0	14	278	40	0	0	0	14	18	0	560
Total	0	63	700	4	0	0	62	38	85	0	0	47	1247	210	0	0	5	63	92	0	2616
18:00	0	16	165	0	0	0	10	4	11	0	0	11	251	39	0	0	1	13	20	0	541
18:15	0	13	156	0	0	0	18	3	3	0	0	8	221	34	0	0	0	8	9	0	473
Grand Total	7	394	8110	145	1	0	731	314	485	0	0	394	7517	984	0	0	22	399	742	0	20245
Apprch %	0.1	4.6	93.7	1.7	0	0	47.8	20.5	31.7	0	0	4.4	84.5	11.1	0	0	1.9	34.3	63.8	0	
Total %	0	1.9	40.1	0.7	0	0	3.6	1.6	2.4	0	0	1.9	37.1	4.9	0	0	0.1	2	3.7	0	
Cars	7	377	7927	139	1	0	719	297	469	0	0	367	7349	961	0	0	20	384	715	0	19732
% Cars	100	95.7	97.7	95.9	100	0	98.4	94.6	96.7	0	0	93.1	97.8	97.7	0	0	90.9	96.2	96.4	0	97.5
Trucks	0	17	183	6	0	0	12	17	16	0	0	27	168	23	0	0	2	15	27	0	513
% Trucks	0	4.3	2.3	4.1	0	0	1.6	5.4	3.3	0	0	6.9	2.2	2.3	0	0	9.1	3.8	3.6	0	2.5

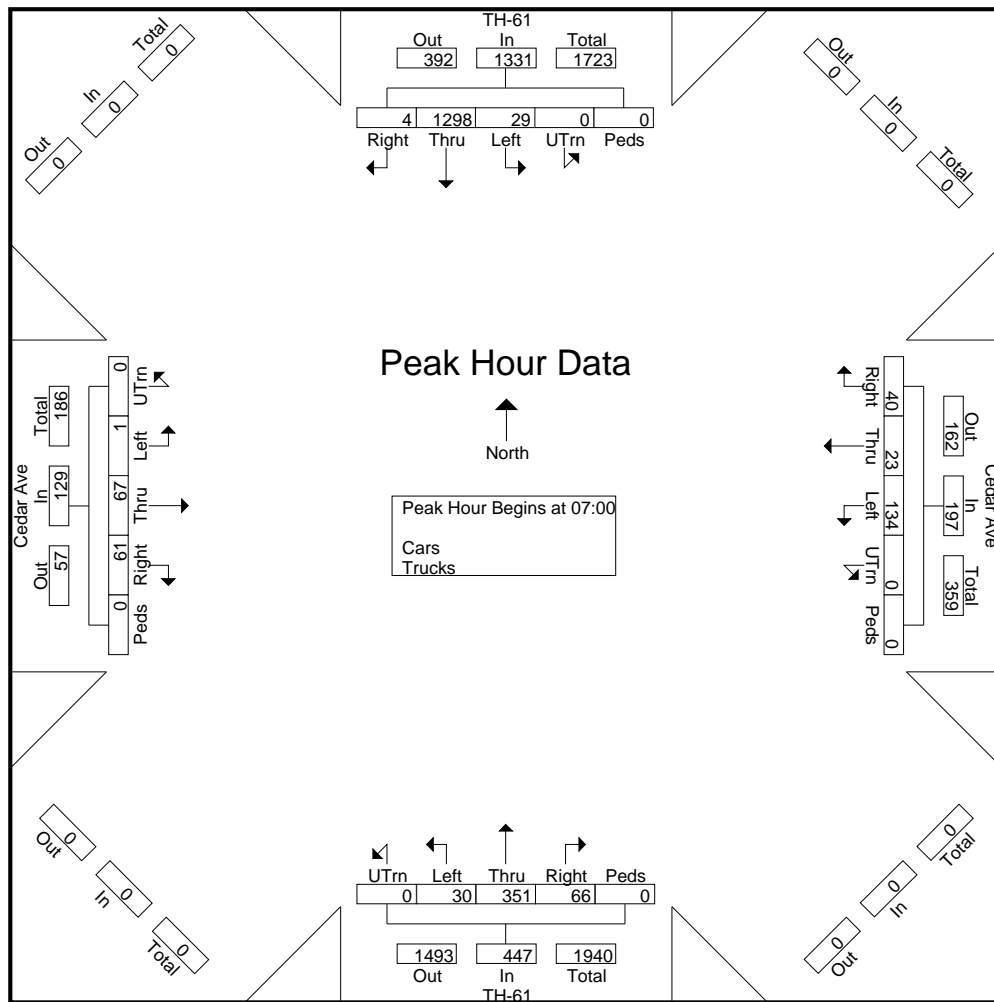
Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at Cedar Ave WHITE BEAR LAKE
 Ref.Pt.: 145.157
 data by: Alliant Engineering Inc
 TURN MOVEMENT COUNT

File Name : 12 - TH 61 & Cedar Ave
 Site Code : 12
 Start Date : 11/7/2012
 Page No : 3

Start Time	TH-61 Southbound						Cedar Ave Westbound						TH-61 Northbound						Cedar Ave 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	6	29	0	0	297	0	24	4	10	0	38	0	7	77	14	0	98	0	0	6	15	0	21	454
07:15	0	8	335	2	0	345	0	40	10	9	0	59	0	3	97	15	0	115	0	0	11	13	0	24	543
07:30	0	11	358	0	0	369	0	34	5	5	0	44	0	12	92	13	0	117	0	1	27	21	0	49	579
07:45	0	4	314	2	0	320	0	36	4	16	0	56	0	8	85	24	0	117	0	0	23	12	0	35	528
Total Volume	0	29	1298	4	0	1331	0	134	23	40	0	197	0	30	351	66	0	447	0	1	67	61	0	129	2104
% App. Total	0	2.2	97.5	0.3	0		0	68	11.7	20.3	0		0	6.7	78.5	14.8	0		0	0.8	51.9	47.3	0		
PHF	.000	.659	.906	.500	.000	.902	.000	.838	.575	.625	.000	.835	.000	.625	.905	.688	.000	.955	.000	.250	.620	.726	.000	.658	.908

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



Alliant Engineering Inc Minneapolis, MN 55415

TH-61 at Cedar Ave WHITE BEAR LAKE
 Ref.Pt.: 145.157
 data by: Alliant Engineering Inc
 TURN MOVEMENT COUNT

File Name : 12 - TH 61 & Cedar Ave
 Site Code : 12
 Start Date : 11/7/2012
 Page No : 4

Start Time	TH-61 Southbound						Cedar Ave Westbound						TH-61 Northbound						Cedar Ave 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	16	187	0	0	203	0	15	16	12	0	43	0	9	321	46	0	376	0	0	19	42	0	61	683
16:45	0	21	216	1	0	238	0	16	11	15	0	42	0	11	371	66	0	448	0	2	17	31	0	50	778
17:00	0	20	195	3	0	218	0	21	13	24	0	58	0	13	307	44	0	364	0	3	16	30	0	49	689
17:15	0	18	186	0	0	204	0	15	11	24	0	50	0	11	341	64	0	416	0	2	17	20	0	39	709
Total Volume	0	75	784	4	0	863	0	67	51	75	0	193	0	44	1340	220	0	1604	0	7	69	123	0	199	2859
% App. Total	0	8.7	90.8	0.5	0		0	34.7	26.4	38.9	0		0	2.7	83.5	13.7	0		0	3.5	34.7	61.8	0		
PHF	.000	.893	.907	.333	.000	.907	.000	.798	.797	.781	.000	.832	.000	.846	.903	.833	.000	.895	.000	.583	.908	.732	.000	.816	.919

