

ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

US 61 West Ramp & 80th St
 City: Cottage Grove
 data by: Alliant Engineering, Inc.
 TURN MOVEMENT COUNT

File Name : US 61 West Ramp & 80th St_2021
 Site Code : 1735480
 Start Date : 10/19/2021
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	US 61 West Off Ramp Southbound					80th St Westbound					US 61 West On Ramp Northbound					80th St Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
06:00 AM	22	0	20	0	42	9	25	0	0	34	0	0	0	0	0	0	109	22	0	131	207
06:15 AM	29	0	27	0	56	26	29	0	0	55	0	0	0	0	0	0	159	17	0	176	287
06:30 AM	27	1	38	0	66	15	26	0	0	41	0	0	0	0	0	0	162	17	0	179	286
06:45 AM	38	0	43	0	81	18	52	0	0	70	0	0	0	0	0	0	129	19	0	148	299
Total	116	1	128	0	245	68	132	0	0	200	0	0	0	0	0	0	559	75	0	634	1079
07:00 AM	42	1	36	0	79	19	44	0	0	63	0	0	0	0	0	0	137	16	0	153	295
07:15 AM	66	0	32	0	98	18	49	0	0	67	0	0	0	0	0	0	195	20	0	215	380
07:30 AM	75	1	29	0	105	17	47	0	0	64	0	0	0	0	0	0	195	21	0	216	385
07:45 AM	80	0	37	1	118	22	67	0	0	89	0	0	0	0	0	0	153	21	0	174	381
Total	263	2	134	1	400	76	207	0	0	283	0	0	0	0	0	0	680	78	0	758	1441
08:00 AM	77	0	45	0	122	24	72	0	0	96	0	0	0	0	0	0	197	14	0	211	429
08:15 AM	69	0	37	0	106	25	86	0	0	111	0	0	0	0	0	0	158	14	0	172	389
08:30 AM	51	0	36	0	87	25	72	0	0	97	0	0	0	0	0	0	157	23	0	180	364
08:45 AM	62	1	26	0	89	22	61	0	0	83	0	0	0	0	0	0	110	15	0	125	297
Total	259	1	144	0	404	96	291	0	0	387	0	0	0	0	0	0	622	66	0	688	1479
09:00 AM	50	1	29	0	80	24	58	0	0	82	0	0	0	0	0	0	98	17	0	115	277
09:15 AM	58	0	37	0	95	21	66	0	0	87	0	0	0	0	0	0	87	24	0	111	293
*** BREAK ***																					
Total	108	1	66	0	175	45	124	0	0	169	0	0	0	0	0	0	185	41	0	226	570
*** BREAK ***																					
10:30 AM	59	1	28	0	88	31	63	0	0	94	0	0	0	0	0	0	82	28	0	110	292
10:45 AM	63	0	32	0	95	26	69	0	0	95	0	0	0	0	0	0	101	25	0	126	316
Total	122	1	60	0	183	57	132	0	0	189	0	0	0	0	0	0	183	53	0	236	608
11:00 AM	62	2	26	0	90	32	69	0	0	101	0	0	0	0	0	0	124	28	0	152	343
11:15 AM	76	1	43	0	120	34	83	0	0	117	0	0	0	0	0	0	113	13	0	126	363
11:30 AM	76	1	23	0	100	33	84	0	0	117	0	0	0	0	0	0	113	28	0	141	358
11:45 AM	91	0	28	0	119	41	105	0	0	146	0	0	0	0	0	0	106	19	0	125	390
Total	305	4	120	0	429	140	341	0	0	481	0	0	0	0	0	0	456	88	0	544	1454
12:00 PM	89	0	37	0	126	29	100	0	0	129	0	0	0	0	0	0	121	29	0	150	405
12:15 PM	94	0	30	0	124	34	111	0	0	145	0	0	0	0	0	0	120	25	0	145	414
12:30 PM	78	0	32	0	110	45	82	0	0	127	0	0	0	0	0	0	114	26	0	140	377
12:45 PM	80	0	44	0	124	55	89	0	0	144	0	0	0	0	0	0	105	17	0	122	390
Total	341	0	143	0	484	163	382	0	0	545	0	0	0	0	0	0	460	97	0	557	1586
*** BREAK ***																					
02:30 PM	131	2	66	1	200	45	108	0	0	153	0	0	0	0	0	0	112	17	0	129	482
02:45 PM	142	2	60	0	204	51	93	0	0	144	0	0	0	0	0	0	131	21	0	152	500
Total	273	4	126	1	404	96	201	0	0	297	0	0	0	0	0	0	243	38	0	281	982
03:00 PM	126	0	48	0	174	33	102	0	0	135	0	0	0	0	0	0	149	28	0	177	486
03:15 PM	144	3	60	0	207	57	179	0	0	236	0	0	0	0	0	0	150	26	0	176	619
03:30 PM	134	0	74	0	208	40	167	0	0	207	0	0	0	0	0	0	188	32	0	220	635
03:45 PM	165	0	63	0	228	44	135	0	0	179	0	0	0	0	0	0	153	27	0	180	587
Total	569	3	245	0	817	174	583	0	0	757	0	0	0	0	0	0	640	113	0	753	2327
04:00 PM	159	0	84	0	243	41	135	0	0	176	0	0	0	0	0	0	169	31	0	200	619
04:15 PM	184	0	70	0	254	45	113	0	0	158	0	0	0	0	0	0	148	39	0	187	599
04:30 PM	166	0	86	0	252	47	147	0	0	194	0	0	0	0	0	0	154	29	0	183	629

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 Site Code : 1735480
 Start Date : 10/19/2021
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	US 61 West Off Ramp Southbound					80th St Westbound					US 61 West On Ramp Northbound					80th St Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
04:45 PM	189	0	79	0	268	40	166	0	0	206	0	0	0	0	0	0	148	31	0	179	653
Total	698	0	319	0	1017	173	561	0	0	734	0	0	0	0	0	0	619	130	0	749	2500
05:00 PM	179	0	64	0	243	56	146	0	0	202	0	0	0	0	0	0	189	47	0	236	681
05:15 PM	206	0	50	0	256	47	157	0	0	204	0	0	0	0	0	0	176	38	0	214	674
05:30 PM	147	1	65	0	213	35	138	0	0	173	0	0	0	0	0	0	160	39	0	199	585
05:45 PM	171	0	63	0	234	48	147	0	0	195	0	0	0	0	0	0	159	19	0	178	607
Total	703	1	242	0	946	186	588	0	0	774	0	0	0	0	0	0	684	143	0	827	2547
06:00 PM	118	0	65	0	183	36	161	0	0	197	0	0	0	0	0	0	129	19	0	148	528
06:15 PM	141	0	70	0	211	38	163	0	0	201	0	0	0	0	0	0	164	31	0	195	607
Grand Total	4016	18	1862	2	5898	1348	3866	0	0	5214	0	0	0	0	0	0	5624	972	0	6596	17708
Apprch %	68.1	0.3	31.6	0		25.9	74.1	0	0		0	0	0	0		0	85.3	14.7	0		
Total %	22.7	0.1	10.5	0	33.3	7.6	21.8	0	0	29.4	0	0	0	0	0	0	31.8	5.5	0	37.2	
Cars	3914	17	1786	0	5717	1298	3755	0	0	5053	0	0	0	0	0	0	5432	935	0	6367	17137
% Cars	97.5	94.4	95.9	0	96.9	96.3	97.1	0	0	96.9	0	0	0	0	0	0	96.6	96.2	0	96.5	96.8
Trucks	102	1	76	2	181	50	111	0	0	161	0	0	0	0	0	0	192	37	0	229	571
% Trucks	2.5	5.6	4.1	100	3.1	3.7	2.9	0	0	3.1	0	0	0	0	0	0	3.4	3.8	0	3.5	3.2

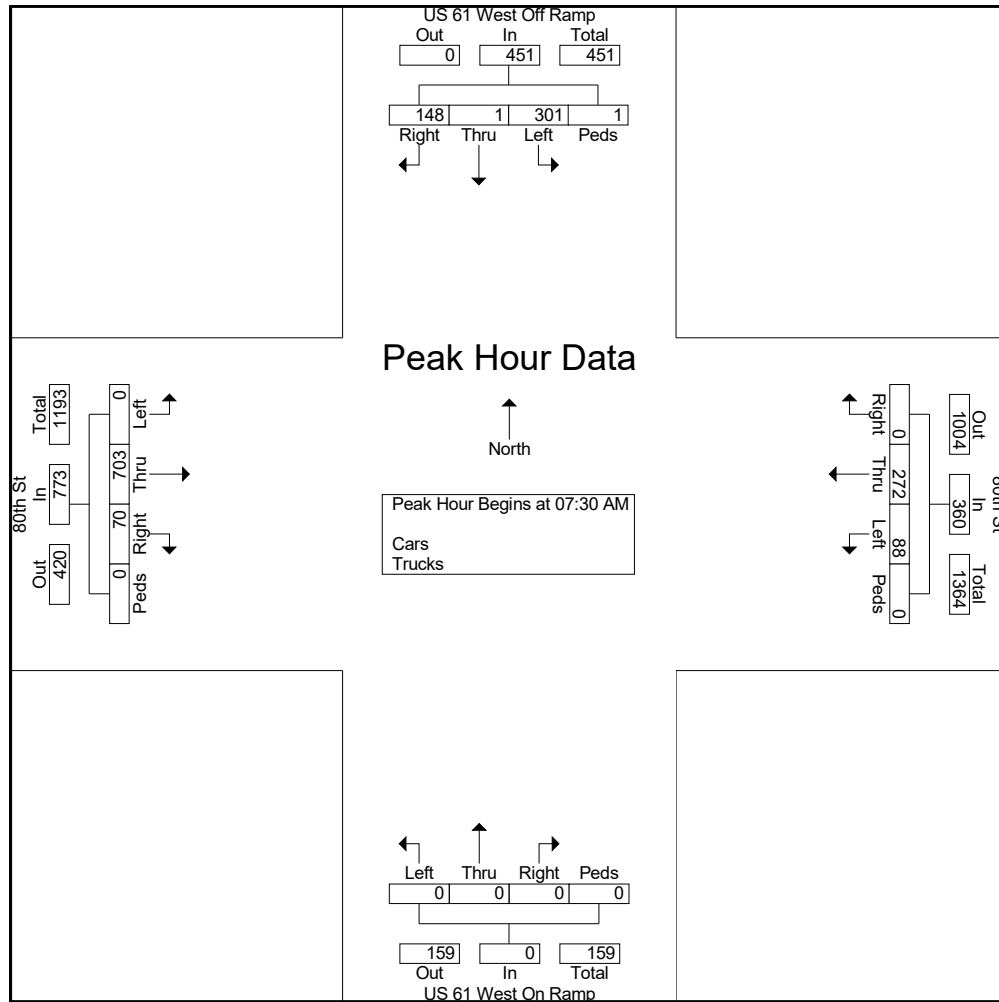
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Start Time	US 61 West Off Ramp Southbound					80th St Westbound					US 61 West On Ramp Northbound					80th St Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	75	1	29	0	105	17	47	0	0	64	0	0	0	0	0	0	195	21	0	216	385
07:45 AM	80	0	37	1	118	22	67	0	0	89	0	0	0	0	0	0	153	21	0	174	381
08:00 AM	77	0	45	0	122	24	72	0	0	96	0	0	0	0	0	0	197	14	0	211	429
08:15 AM	69	0	37	0	106	25	86	0	0	111	0	0	0	0	0	0	158	14	0	172	389
Total Volume	301	1	148	1	451	88	272	0	0	360	0	0	0	0	0	0	703	70	0	773	1584
% App. Total	66.7	0.2	32.8	0.2		24.4	75.6	0	0		0	0	0	0		0	90.9	9.1	0		
PHF	.941	.250	.822	.250	.924	.880	.791	.000	.000	.811	.000	.000	.000	.000	.000	.000	.892	.833	.000	.895	.923



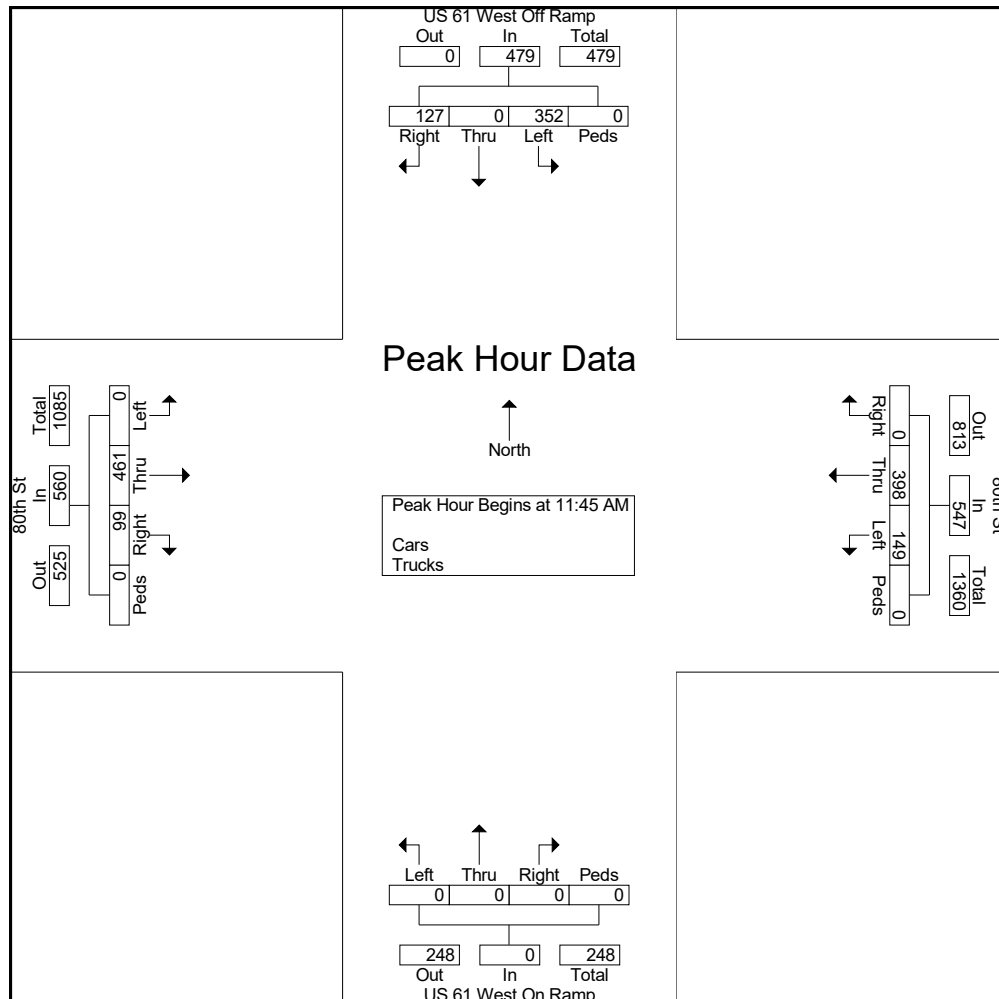
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Start Time	US 61 West Off Ramp Southbound					80th St Westbound					US 61 West On Ramp Northbound					80th St Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:45 AM																					
11:45 AM	91	0	28	0	119	41	105	0	0	146	0	0	0	0	0	0	106	19	0	125	390
12:00 PM	89	0	37	0	126	29	100	0	0	129	0	0	0	0	0	0	121	29	0	150	405
12:15 PM	94	0	30	0	124	34	111	0	0	145	0	0	0	0	0	0	120	25	0	145	414
12:30 PM	78	0	32	0	110	45	82	0	0	127	0	0	0	0	0	0	114	26	0	140	377
Total Volume	352	0	127	0	479	149	398	0	0	547	0	0	0	0	0	0	461	99	0	560	1586
% App. Total	73.5	0	26.5	0		27.2	72.8	0	0		0	0	0	0	0	0	82.3	17.7	0		
PHF	.936	.000	.858	.000	.950	.828	.896	.000	.000	.937	.000	.000	.000	.000	.000	.000	.952	.853	.000	.933	.958



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 Page No : 5

Start Time	US 61 West Off Ramp Southbound					80th St Westbound					US 61 West On Ramp Northbound					80th St Eastbound					Int. Total
	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 02:00 PM to 06:15 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	166	0	86	0	252	47	147	0	0	194	0	0	0	0	0	0	154	29	0	183	629
04:45 PM	189	0	79	0	268	40	166	0	0	206	0	0	0	0	0	0	148	31	0	179	653
05:00 PM	179	0	64	0	243	56	146	0	0	202	0	0	0	0	0	0	189	47	0	236	681
05:15 PM	206	0	50	0	256	47	157	0	0	204	0	0	0	0	0	0	176	38	0	214	674
Total Volume	740	0	279	0	1019	190	616	0	0	806	0	0	0	0	0	0	667	145	0	812	2637
% App. Total	72.6	0	27.4	0		23.6	76.4	0	0		0	0	0	0	0	0	82.1	17.9	0		
PHF	.898	.000	.811	.000	.951	.848	.928	.000	.000	.978	.000	.000	.000	.000	.000	.000	.882	.771	.000	.860	.968

