

ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

MN 51 (Snelling Ave) & Hoyt Ave
 City: St. Paul
 data by: Spack Solutions
 TURN MOVEMENT COUNT

File Name : MN 51 (Snelling Ave) & Hoyt Ave_2021
 Site Code : 2401353
 Start Date : 10/19/2021
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	MN 51 (Snelling Ave) Southbound					Hoyt Ave Westbound					MN 51 (Snelling Ave) Northbound					Hoyt Ave 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	0	123	0	0	123	1	0	4	0	5	0	79	0	0	79	0	0	0	0	0	207
06:15 AM	2	171	1	0	174	5	0	3	0	8	0	89	1	0	90	1	0	0	0	0	273
06:30 AM	1	218	0	0	219	3	0	6	0	9	0	131	1	1	133	0	0	0	0	0	361
06:45 AM	7	289	0	0	296	2	0	3	0	5	0	124	3	1	128	0	0	0	1	1	430
Total	10	801	1	0	812	11	0	16	0	27	0	423	5	2	430	1	0	0	1	2	1271
07:00 AM	3	223	4	0	230	5	0	7	1	13	0	136	7	1	144	3	0	0	0	3	390
07:15 AM	3	310	0	0	313	6	0	13	1	20	0	211	3	0	214	1	0	0	0	1	548
07:30 AM	1	299	0	0	300	10	0	12	0	22	0	252	9	1	262	0	0	0	0	0	584
07:45 AM	4	314	0	0	318	10	0	9	0	19	2	258	7	2	269	0	0	3	0	3	609
Total	11	1146	4	0	1161	31	0	41	2	74	2	857	26	4	889	4	0	3	0	7	2131
08:00 AM	5	271	0	0	276	14	0	8	0	22	1	213	4	0	218	4	0	0	0	4	520
08:15 AM	2	312	0	0	314	14	0	14	0	28	1	201	4	1	207	0	0	0	0	0	549
08:30 AM	2	217	1	0	220	7	0	8	0	15	0	242	6	1	249	1	0	0	0	1	485
08:45 AM	5	294	0	0	299	7	0	16	0	23	0	216	3	0	219	1	0	1	0	2	543
Total	14	1094	1	0	1109	42	0	46	0	88	2	872	17	2	893	6	0	1	0	7	2097
09:00 AM	9	234	1	1	245	4	0	7	1	12	1	191	12	0	204	1	0	0	0	1	462
09:15 AM	10	247	0	1	258	10	0	5	1	16	0	180	5	0	185	1	0	0	0	1	460
09:30 AM	7	205	2	1	215	3	0	5	0	8	1	219	8	0	228	0	0	0	0	0	451
09:45 AM	8	252	1	0	261	3	0	8	0	11	0	211	12	1	224	2	0	0	0	2	498
Total	34	938	4	3	979	20	0	25	2	47	2	801	37	1	841	4	0	0	0	4	1871
10:00 AM	7	204	1	0	212	2	0	6	0	8	0	190	7	0	197	1	0	2	0	3	420
10:15 AM	1	182	2	1	186	6	0	5	1	12	0	201	8	0	209	1	0	0	0	1	408
10:30 AM	6	209	0	0	215	2	0	8	1	11	0	208	5	0	213	0	0	1	0	1	440
10:45 AM	4	200	1	1	206	3	0	4	1	8	0	225	5	0	230	0	0	2	0	2	446
Total	18	795	4	2	819	13	0	23	3	39	0	824	25	0	849	2	0	5	0	7	1714
11:00 AM	2	204	0	0	206	1	0	5	0	6	0	250	4	0	254	1	0	0	0	1	467
11:15 AM	3	251	0	0	254	10	0	3	0	13	0	310	7	0	317	1	0	0	1	2	586
11:30 AM	5	266	1	0	272	5	0	5	0	10	0	285	6	0	291	0	1	0	0	1	574
11:45 AM	4	232	3	0	239	8	0	10	0	18	1	299	4	0	304	0	0	1	0	1	562
Total	14	953	4	0	971	24	0	23	0	47	1	1144	21	0	1166	2	1	1	1	5	2189
12:00 PM	5	263	1	0	269	7	0	11	0	18	0	306	10	0	316	0	1	0	0	1	604
12:15 PM	6	279	4	0	289	3	0	4	0	7	0	273	8	0	281	0	0	0	0	0	577
12:30 PM	9	315	0	0	324	6	0	5	0	11	0	301	11	0	312	1	0	1	0	2	649
12:45 PM	8	282	2	1	293	4	0	4	0	8	0	268	11	0	279	1	0	0	0	1	581
Total	28	1139	7	1	1175	20	0	24	0	44	0	1148	40	0	1188	2	1	1	0	4	2411
01:00 PM	5	265	1	0	271	6	0	5	0	11	1	245	8	0	254	1	0	0	0	1	537
01:15 PM	8	284	0	0	292	12	0	5	0	17	0	266	9	0	275	0	0	0	0	0	584
01:30 PM	3	250	0	0	253	6	0	6	1	13	1	288	8	0	297	0	1	0	0	1	564
01:45 PM	5	251	1	0	257	10	0	5	0	15	0	288	14	0	302	1	0	1	0	2	576
Total	21	1050	2	0	1073	34	0	21	1	56	2	1087	39	0	1128	2	1	1	0	4	2261
02:00 PM	5	254	1	0	260	7	0	8	0	15	0	342	8	0	350	1	0	1	0	2	627
02:15 PM	4	260	0	1	265	6	0	2	1	9	0	308	6	0	314	1	0	1	0	2	590
02:30 PM	6	297	0	0	303	5	0	5	0	10	1	405	7	1	414	2	0	0	0	2	729
02:45 PM	3	263	1	0	267	8	0	4	0	12	0	405	12	0	417	0	0	1	0	1	697
Total	18	1074	2	1	1095	26	0	19	1	46	1	1460	33	1	1495	4	0	3	0	7	2643
03:00 PM	7	290	3	0	300	5	0	9	0	14	1	415	10	0	426	4	0	0	0	4	744

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MN 51 (Snelling Ave) & Hoyt Ave
 City: St. Paul
 data by: Spack Solutions
 TURN MOVEMENT COUNT

File Name : MN 51 (Snelling Ave) & Hoyt Ave_2021
 Site Code : 2401353
 Start Date : 10/19/2021
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	MN 51 (Snelling Ave) Southbound					Hoyt Ave Westbound					MN 51 (Snelling Ave) Northbound					Hoyt Ave 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	
03:15 PM	12	289	0	0	301	7	1	7	0	15	0	413	14	0	427	2	0	0	0	2	745
03:30 PM	11	270	1	0	282	6	0	9	1	16	0	477	8	0	485	0	0	0	0	0	783
03:45 PM	10	230	1	0	241	8	0	8	0	16	0	392	8	0	400	1	0	0	0	1	658
Total	40	1079	5	0	1124	26	1	33	1	61	1	1697	40	0	1738	7	0	0	0	7	2930
04:00 PM	7	314	0	0	321	4	0	8	0	12	1	464	13	0	478	0	0	2	0	2	813
04:15 PM	5	288	2	0	295	8	0	12	0	20	0	424	7	0	431	0	0	0	0	0	746
04:30 PM	13	316	0	0	329	8	0	5	0	13	0	400	13	0	413	0	1	0	0	1	756
04:45 PM	10	348	1	0	359	9	0	8	0	17	2	463	12	0	477	0	0	1	0	1	854
Total	35	1266	3	0	1304	29	0	33	0	62	3	1751	45	0	1799	0	1	3	0	4	3169
05:00 PM	13	369	0	0	382	6	0	6	0	12	0	480	14	0	494	1	0	0	0	1	889
05:15 PM	11	322	0	0	333	6	0	4	0	10	0	404	11	0	415	0	0	1	0	1	759
05:30 PM	8	285	1	1	295	12	0	3	0	15	0	321	16	0	337	0	0	0	0	0	647
05:45 PM	14	285	0	0	299	5	0	9	0	14	0	329	6	2	337	0	0	0	0	0	650
Total	46	1261	1	1	1309	29	0	22	0	51	0	1534	47	2	1583	1	0	1	0	2	2945
06:00 PM	6	261	2	0	269	6	0	8	0	14	0	280	12	0	292	0	0	0	0	0	575
06:15 PM	11	252	1	0	264	2	0	9	1	12	0	299	7	0	306	0	0	2	0	2	584
06:30 PM	6	248	1	0	255	7	0	4	0	11	1	271	5	0	277	0	0	0	0	0	543
06:45 PM	4	247	0	0	251	2	0	7	0	9	0	216	6	0	222	0	0	0	0	0	482
Total	27	1008	4	0	1039	17	0	28	1	46	1	1066	30	0	1097	0	0	2	0	2	2184
Grand Total	316	13604	42	8	13970	322	1	354	11	688	15	14664	405	12	15096	35	4	21	2	62	29816
Apprch %	2.3	97.4	0.3	0.1		46.8	0.1	51.5	1.6		0.1	97.1	2.7	0.1		56.5	6.5	33.9	3.2		
Total %	1.1	45.6	0.1	0	46.9	1.1	0	1.2	0	2.3	0.1	49.2	1.4	0	50.6	0.1	0	0.1	0	0.2	
Cars	310	13024	39	7	13380	312	1	351	9	673	14	14145	396	12	14567	33	4	21	1	59	28679
% Cars	98.1	95.7	92.9	87.5	95.8	96.9	100	99.2	81.8	97.8	93.3	96.5	97.8	100	96.5	94.3	100	100	50	95.2	96.2
Trucks	6	580	3	1	590	10	0	3	2	15	1	519	9	0	529	2	0	0	1	3	1137
% Trucks	1.9	4.3	7.1	12.5	4.2	3.1	0	0.8	18.2	2.2	6.7	3.5	2.2	0	3.5	5.7	0	0	50	4.8	3.8

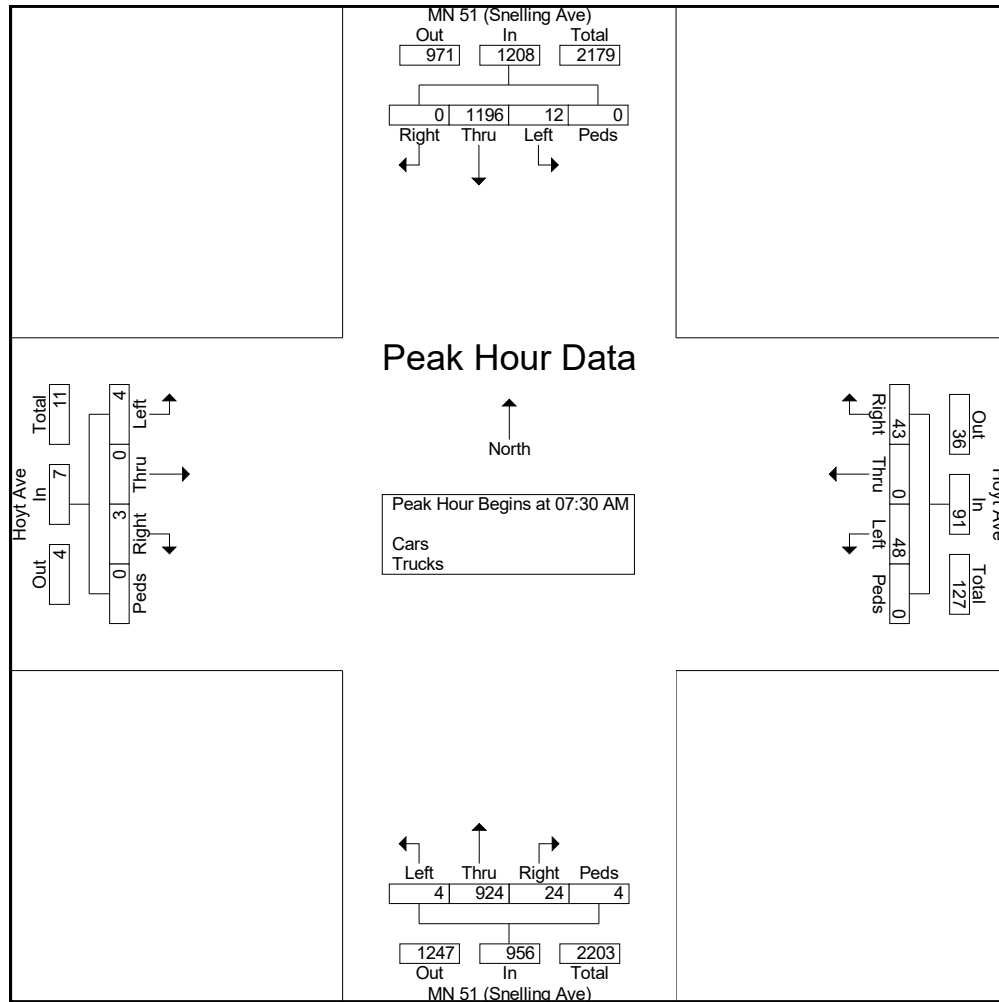
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 City: St. Paul
 data by: Spack Solutions
 TURN MOVEMENT COUNT

File Name : MN 51 (Snelling Ave) & Hoyt Ave_2021
 Site Code : 2401353
 Start Date : 10/19/2021
 Page No : 3

Start Time	MN 51 (Snelling Ave) Southbound					Hoyt Ave Westbound					MN 51 (Snelling Ave) Northbound					Hoyt Ave 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	1	299	0	0	300	10	0	12	0	22	0	252	9	1	262	0	0	0	0	0	584
07:45 AM	4	314	0	0	318	10	0	9	0	19	2	258	7	2	269	0	0	3	0	3	609
08:00 AM	5	271	0	0	276	14	0	8	0	22	1	213	4	0	218	4	0	0	0	4	520
08:15 AM	2	312	0	0	314	14	0	14	0	28	1	201	4	1	207	0	0	0	0	0	549
Total Volume	12	1196	0	0	1208	48	0	43	0	91	4	924	24	4	956	4	0	3	0	7	2262
% App. Total	1	99	0	0		52.7	0	47.3	0		0.4	96.7	2.5	0.4		57.1	0	42.9	0		
PHF	.600	.952	.000	.000	.950	.857	.000	.768	.000	.813	.500	.895	.667	.500	.888	.250	.000	.250	.000	.438	.929



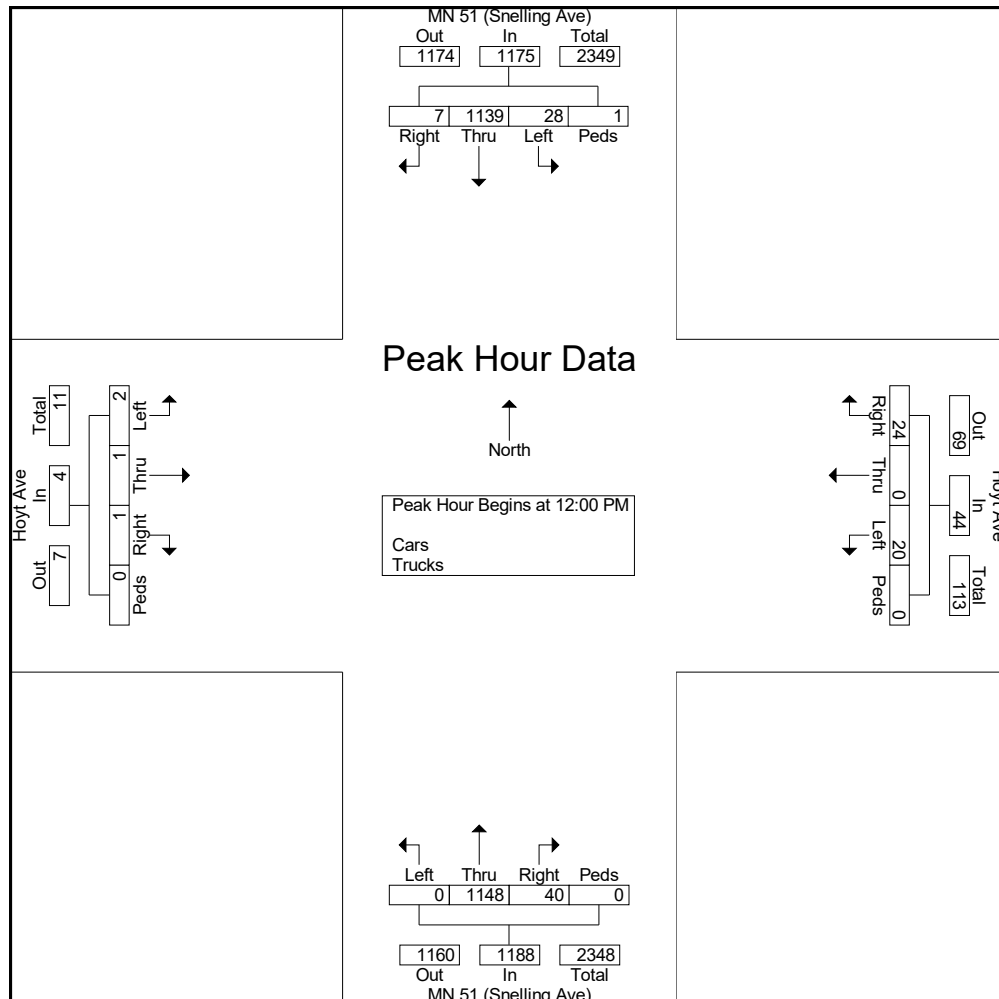
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MN 51 (Snelling Ave) & Hoyt Ave
 City: St. Paul
 data by: Spack Solutions
 TURN MOVEMENT COUNT

File Name : MN 51 (Snelling Ave) & Hoyt Ave_2021
 Site Code : 2401353
 Start Date : 10/19/2021
 Page No : 4

Start Time	MN 51 (Snelling Ave) Southbound					Hoyt Ave Westbound					MN 51 (Snelling Ave) Northbound					Hoyt Ave 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 12:00 PM																					
12:00 PM	5	263	1	0	269	7	0	11	0	18	0	306	10	0	316	0	1	0	0	1	604
12:15 PM	6	279	4	0	289	3	0	4	0	7	0	273	8	0	281	0	0	0	0	0	577
12:30 PM	9	315	0	0	324	6	0	5	0	11	0	301	11	0	312	1	0	1	0	2	649
12:45 PM	8	282	2	1	293	4	0	4	0	8	0	268	11	0	279	1	0	0	0	1	581
Total Volume	28	1139	7	1	1175	20	0	24	0	44	0	1148	40	0	1188	2	1	1	0	4	2411
% App. Total	2.4	96.9	0.6	0.1		45.5	0	54.5	0		0	96.6	3.4	0		50	25	25	0		
PHF	.778	.904	.438	.250	.907	.714	.000	.545	.000	.611	.000	.938	.909	.000	.940	.500	.250	.250	.000	.500	.929



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MN 51 (Snelling Ave) & Hoyt Ave
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File Name : MN 51 (Snelling Ave) & Hoyt Ave_2021
 Site Code : 2401353
 Start Date : 10/19/2021
 Page No : 5

Start Time	MN 51 (Snelling Ave) Southbound					Hoyt Ave Westbound					MN 51 (Snelling Ave) Northbound					Hoyt Ave 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 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	13	316	0	0	329	8	0	5	0	13	0	400	13	0	413	0	1	0	0	1	756
04:45 PM	10	348	1	0	359	9	0	8	0	17	2	463	12	0	477	0	0	1	0	1	854
05:00 PM	13	369	0	0	382	6	0	6	0	12	0	480	14	0	494	1	0	0	0	1	889
05:15 PM	11	322	0	0	333	6	0	4	0	10	0	404	11	0	415	0	0	1	0	1	759
Total Volume	47	1355	1	0	1403	29	0	23	0	52	2	1747	50	0	1799	1	1	2	0	4	3258
% App. Total	3.3	96.6	0.1	0		55.8	0	44.2	0		0.1	97.1	2.8	0		25	25	50	0		
PHF	.904	.918	.250	.000	.918	.806	.000	.719	.000	.765	.250	.910	.893	.000	.910	.250	.250	.500	.000	1.00	.916

