

ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

80th St & Hadley Ave
 City: Cottage Grove
 data by: Spack Solutions
 TURN MOVEMENT COUNT

File Name : 80th St & Hadley Ave_2021
 Site Code : 301
 Start Date : 10/19/2021
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	CSAH 39 (Hadley Ave) Southbound					80th St Westbound					Hadley Ave 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	43	4	0	0	47	15	13	24	0	52	1	6	57	0	64	2	35	0	0	37	200
06:15 AM	46	2	3	0	51	16	11	33	0	60	0	10	79	3	92	6	44	0	0	50	253
06:30 AM	60	8	2	0	70	19	18	30	0	67	0	14	73	2	89	3	58	0	0	61	287
06:45 AM	43	10	7	0	60	30	32	39	0	101	0	6	65	0	71	6	36	0	0	42	274
Total	192	24	12	0	228	80	74	126	0	280	1	36	274	5	316	17	173	0	0	190	1014
07:00 AM	47	4	1	0	52	28	24	32	0	84	0	9	69	0	78	0	36	0	0	36	250
07:15 AM	62	8	2	0	72	34	20	34	0	88	0	16	101	0	117	6	66	0	0	72	349
07:30 AM	52	5	7	0	64	34	23	30	0	87	0	16	109	0	125	7	51	1	0	59	335
07:45 AM	66	8	3	0	77	40	29	45	0	114	0	5	79	2	86	5	46	3	0	54	331
Total	227	25	13	0	265	136	96	141	0	373	0	46	358	2	406	18	199	4	0	221	1265
08:00 AM	61	6	4	0	71	43	40	43	0	126	1	8	94	1	104	2	63	0	0	65	366
08:15 AM	46	7	1	0	54	41	38	47	0	126	1	8	77	0	86	3	52	1	0	56	322
08:30 AM	64	4	1	0	69	39	31	40	0	110	0	15	83	0	98	5	29	0	0	34	311
08:45 AM	40	10	2	0	52	21	15	47	0	83	0	12	53	0	65	3	37	0	0	40	240
Total	211	27	8	0	246	144	124	177	0	445	2	43	307	1	353	13	181	1	0	195	1239
09:00 AM	42	3	2	0	47	24	23	38	0	85	2	12	39	0	53	6	38	0	0	44	229
09:15 AM	46	6	3	0	55	31	32	45	0	108	0	5	49	0	54	0	25	0	0	25	242
09:30 AM	60	6	4	0	70	27	26	51	0	104	0	10	64	0	74	3	30	0	0	33	281
09:45 AM	36	6	4	0	46	26	29	44	0	99	1	7	45	1	54	5	34	0	1	40	239
Total	184	21	13	0	218	108	110	178	0	396	3	34	197	1	235	14	127	0	1	142	991
10:00 AM	41	3	4	0	48	30	21	25	0	76	2	2	35	0	39	2	36	0	0	38	201
10:15 AM	42	5	4	0	51	30	21	38	0	89	1	10	25	0	36	6	42	1	0	49	225
10:30 AM	39	5	3	0	47	26	26	42	0	94	1	4	43	0	48	1	35	1	0	37	226
10:45 AM	60	5	2	0	67	32	34	40	0	106	1	8	34	2	45	1	39	2	0	42	260
Total	182	18	13	0	213	118	102	145	0	365	5	24	137	2	168	10	152	4	0	166	912
11:00 AM	51	5	3	0	59	29	33	38	0	100	1	9	42	0	52	6	59	0	0	65	276
11:15 AM	35	3	2	0	40	44	42	55	0	141	0	9	47	0	56	2	42	2	0	46	283
11:30 AM	58	9	3	0	70	27	38	52	0	117	1	7	43	0	51	2	41	0	0	43	281
11:45 AM	53	10	2	0	65	45	41	48	0	134	1	9	43	1	54	4	36	0	0	40	293
Total	197	27	10	0	234	145	154	193	0	492	3	34	175	1	213	14	178	2	0	194	1133
12:00 PM	58	11	0	0	69	47	44	69	0	160	2	1	55	1	59	5	50	2	1	58	346
12:15 PM	56	2	6	0	64	53	39	62	0	154	0	13	46	2	61	6	39	1	0	46	325
12:30 PM	48	7	6	0	61	47	24	59	0	130	0	5	49	1	55	7	44	3	0	54	300
12:45 PM	57	10	3	0	70	44	41	52	0	137	0	5	30	1	36	4	39	0	0	43	286
Total	219	30	15	0	264	191	148	242	0	581	2	24	180	5	211	22	172	6	1	201	1257
01:00 PM	58	9	1	0	68	45	40	58	0	143	1	6	35	2	44	3	44	0	0	47	302
01:15 PM	39	12	4	0	55	47	36	50	0	133	1	5	38	0	44	5	38	2	0	45	277
01:30 PM	54	9	3	0	66	48	37	54	2	141	1	7	44	1	53	2	37	0	1	40	300
01:45 PM	63	8	1	0	72	43	40	57	1	141	0	9	54	1	64	7	32	2	1	42	319
Total	214	38	9	0	261	183	153	219	3	558	3	27	171	4	205	17	151	4	2	174	1198
02:00 PM	62	6	2	0	70	57	42	62	0	161	2	6	40	1	49	2	43	1	0	46	326
02:15 PM	51	8	1	0	60	47	42	74	0	163	2	7	30	0	39	1	43	2	1	47	309
02:30 PM	50	17	1	0	68	80	48	62	1	191	1	5	46	1	53	2	40	2	0	44	356
02:45 PM	68	13	5	0	86	79	45	62	0	186	1	14	62	2	79	1	41	3	0	45	396
Total	231	44	9	0	284	263	177	260	1	701	6	32	178	4	220	6	167	8	1	182	1387
03:00 PM	50	20	0	0	70	57	45	76	0	178	1	13	69	1	84	3	57	0	1	61	393

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 TURN MOVEMENT COUNT

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 Site Code : 301
 Start Date : 10/19/2021
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	CSAH 39 (Hadley Ave) Southbound					80th St Westbound					Hadley Ave 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	
03:15 PM	63	11	2	1	77	93	85	63	0	241	0	12	72	1	85	3	47	2	2	54	457
03:30 PM	66	13	4	0	83	93	83	87	1	264	0	11	85	2	98	3	76	0	0	79	524
03:45 PM	71	11	4	0	86	73	83	76	1	233	0	8	76	1	85	5	53	2	0	60	464
Total	250	55	10	1	316	316	296	302	2	916	1	44	302	5	352	14	233	4	3	254	1838
04:00 PM	78	9	0	0	87	101	77	88	2	268	1	13	76	4	94	2	64	0	0	66	515
04:15 PM	84	13	6	0	103	94	61	79	0	234	0	13	62	4	79	6	61	1	0	68	484
04:30 PM	73	15	2	0	90	91	68	98	0	257	0	18	70	4	92	1	52	1	0	54	493
04:45 PM	76	12	2	0	90	89	76	102	0	267	2	14	62	3	81	2	57	4	0	63	501
Total	311	49	10	0	370	375	282	367	2	1026	3	58	270	15	346	11	234	6	0	251	1993
05:00 PM	83	16	1	0	100	116	60	96	1	273	4	4	88	3	99	4	72	3	1	80	552
05:15 PM	79	14	2	0	95	97	88	77	1	263	2	9	80	0	91	3	60	1	0	64	513
05:30 PM	69	13	0	0	82	105	49	85	0	239	0	8	67	2	77	2	55	2	0	59	457
05:45 PM	59	7	6	0	72	86	62	84	1	233	3	10	62	0	75	8	49	0	0	57	437
Total	290	50	9	0	349	404	259	342	3	1008	9	31	297	5	342	17	236	6	1	260	1959
06:00 PM	57	9	3	0	69	90	78	71	6	245	2	8	68	0	78	6	36	2	1	45	437
06:15 PM	63	12	2	0	77	97	80	90	0	267	0	9	72	0	81	1	62	2	0	65	490
06:30 PM	45	10	1	0	56	71	67	60	0	198	0	9	57	0	66	3	39	1	0	43	363
06:45 PM	48	16	3	0	67	98	73	67	0	238	4	9	53	0	66	7	45	1	0	53	424
Total	213	47	9	0	269	356	298	288	6	948	6	35	250	0	291	17	182	6	1	206	1714
Grand Total	2921	455	140	1	3517	2819	2273	2980	17	8089	44	468	3096	50	3658	190	2385	51	10	2636	17900
Apprch %	83.1	12.9	4	0		34.8	28.1	36.8	0.2		1.2	12.8	84.6	1.4		7.2	90.5	1.9	0.4		
Total %	16.3	2.5	0.8	0	19.6	15.7	12.7	16.6	0.1	45.2	0.2	2.6	17.3	0.3	20.4	1.1	13.3	0.3	0.1	14.7	
Cars	2856	449	138	0	3443	2784	2227	2920	9	7940	44	461	3053	24	3582	185	2337	49	10	2581	17546
% Cars	97.8	98.7	98.6	0	97.9	98.8	98	98	52.9	98.2	100	98.5	98.6	48	97.9	97.4	98	96.1	100	97.9	98
Trucks	65	6	2	1	74	35	46	60	8	149	0	7	43	26	76	5	48	2	0	55	354
% Trucks	2.2	1.3	1.4	100	2.1	1.2	2	2	47.1	1.8	0	1.5	1.4	52	2.1	2.6	2	3.9	0	2.1	2

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	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 07:15 AM																					
07:15 AM	62	8	2	0	72	34	20	34	0	88	0	16	101	0	117	6	66	0	0	72	349
07:30 AM	52	5	7	0	64	34	23	30	0	87	0	16	109	0	125	7	51	1	0	59	335
07:45 AM	66	8	3	0	77	40	29	45	0	114	0	5	79	2	86	5	46	3	0	54	331
08:00 AM	61	6	4	0	71	43	40	43	0	126	1	8	94	1	104	2	63	0	0	65	366
Total Volume	241	27	16	0	284	151	112	152	0	415	1	45	383	3	432	20	226	4	0	250	1381
% App. Total	84.9	9.5	5.6	0		36.4	27	36.6	0		0.2	10.4	88.7	0.7		8	90.4	1.6	0		
PHF	.913	.844	.571	.000	.922	.878	.700	.844	.000	.823	.250	.703	.878	.375	.864	.714	.856	.333	.000	.868	.943

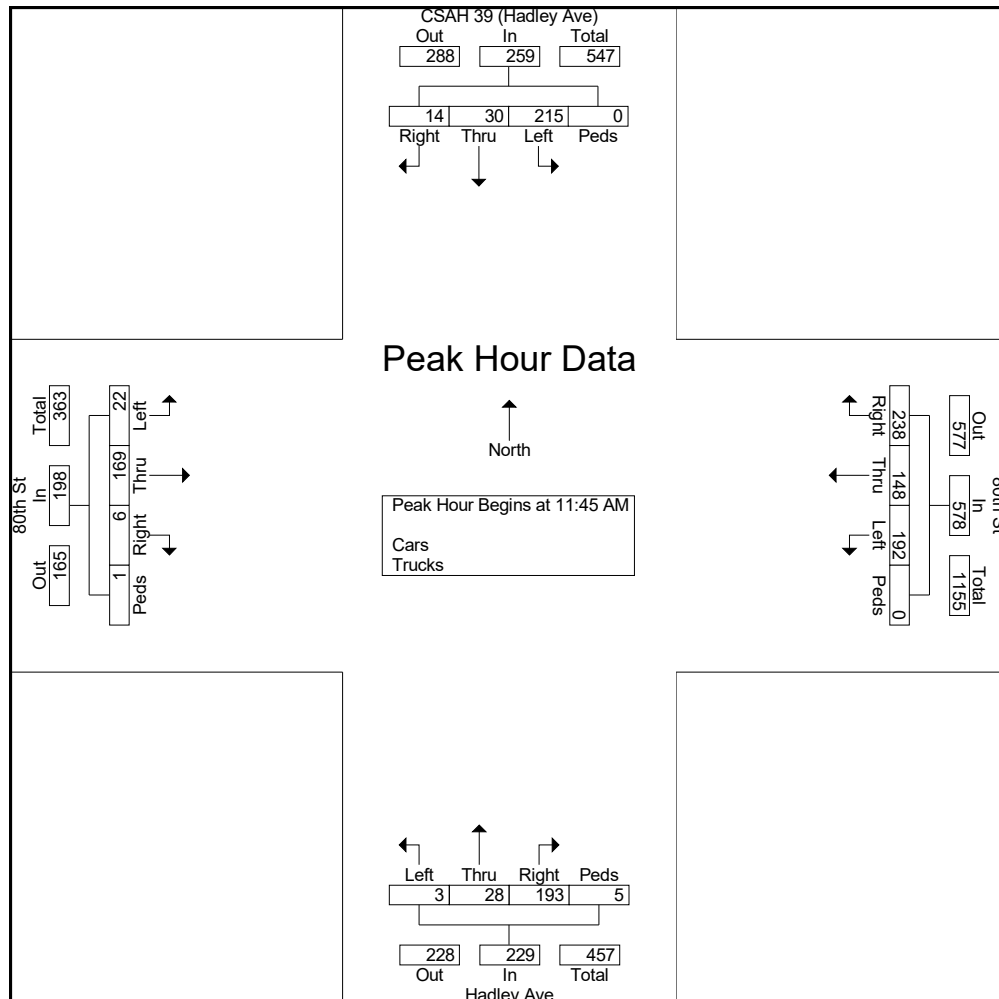
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Start Time	CSAH 39 (Hadley Ave) Southbound					80th St Westbound					Hadley Ave Northbound					80th St Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. 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	53	10	2	0	65	45	41	48	0	134	1	9	43	1	54	4	36	0	0	40	293
12:00 PM	58	11	0	0	69	47	44	69	0	160	2	1	55	1	59	5	50	2	1	58	346
12:15 PM	56	2	6	0	64	53	39	62	0	154	0	13	46	2	61	6	39	1	0	46	325
12:30 PM	48	7	6	0	61	47	24	59	0	130	0	5	49	1	55	7	44	3	0	54	300
Total Volume	215	30	14	0	259	192	148	238	0	578	3	28	193	5	229	22	169	6	1	198	1264
% App. Total	83	11.6	5.4	0		33.2	25.6	41.2	0		1.3	12.2	84.3	2.2		11.1	85.4	3	0.5		
PHF	.927	.682	.583	.000	.938	.906	.841	.862	.000	.903	.375	.538	.877	.625	.939	.786	.845	.500	.250	.853	.913



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 Page No : 5

Start Time	CSAH 39 (Hadley Ave) Southbound					80th St Westbound					Hadley Ave 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 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	73	15	2	0	90	91	68	98	0	257	0	18	70	4	92	1	52	1	0	54	493
04:45 PM	76	12	2	0	90	89	76	102	0	267	2	14	62	3	81	2	57	4	0	63	501
05:00 PM	83	16	1	0	100	116	60	96	1	273	4	4	88	3	99	4	72	3	1	80	552
05:15 PM	79	14	2	0	95	97	88	77	1	263	2	9	80	0	91	3	60	1	0	64	513
Total Volume	311	57	7	0	375	393	292	373	2	1060	8	45	300	10	363	10	241	9	1	261	2059
% App. Total	82.9	15.2	1.9	0		37.1	27.5	35.2	0.2		2.2	12.4	82.6	2.8		3.8	92.3	3.4	0.4		
PHF	.937	.891	.875	.000	.938	.847	.830	.914	.500	.971	.500	.625	.852	.625	.917	.625	.837	.563	.250	.816	.933

