

ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

CSAH 30 (Larpenteur Ave) & Arona St
 City: Falcon Heights
 data by: Alliant Engineering, Inc.
 TURN MOVEMENT COUNT

File Name : CSAH 30 (Larpenteur Ave) & Arona St_2021
 Site Code : 104
 Start Date : 10/19/2021
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	Arona St Southbound					CSAH 30 (Larpenteur Ave) Westbound					Arona St Northbound					CSAH 30 (Larpenteur 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	1	1	0	2	0	33	0	0	33	2	0	1	1	4	1	10	1	1	13	52
06:15 AM	2	1	1	3	7	0	48	0	0	48	2	1	2	0	5	1	17	0	0	18	78
06:30 AM	1	1	4	0	6	0	66	1	1	68	6	1	3	0	10	0	24	0	0	24	108
06:45 AM	1	1	1	0	3	0	82	1	2	85	6	1	5	0	12	0	32	0	0	32	132
Total	4	4	7	3	18	0	229	2	3	234	16	3	11	1	31	2	83	1	1	87	370
07:00 AM	4	1	6	0	11	4	78	2	0	84	15	5	2	0	22	0	32	0	0	32	149
07:15 AM	2	3	3	1	9	1	90	6	3	100	10	2	4	0	16	3	47	3	0	53	178
07:30 AM	5	2	4	0	11	1	116	0	1	118	10	2	3	0	15	0	45	1	0	46	190
07:45 AM	4	0	5	0	9	1	143	4	0	148	12	5	6	0	23	0	61	2	0	63	243
Total	15	6	18	1	40	7	427	12	4	450	47	14	15	0	76	3	185	6	0	194	760
08:00 AM	2	1	5	2	10	5	127	3	0	135	10	2	5	0	17	0	46	1	1	48	210
08:15 AM	4	1	4	2	11	5	134	1	3	143	5	6	1	0	12	0	53	3	0	56	222
08:30 AM	4	4	7	1	16	3	114	2	1	120	12	4	1	0	17	0	66	2	2	70	223
08:45 AM	3	1	8	1	13	2	126	1	0	129	9	5	5	0	19	2	76	1	0	79	240
Total	13	7	24	6	50	15	501	7	4	527	36	17	12	0	65	2	241	7	3	253	895
09:00 AM	1	3	4	0	8	2	85	2	0	89	12	3	2	0	17	2	65	2	0	69	183
09:15 AM	3	1	3	4	11	0	100	3	1	104	8	1	4	0	13	4	78	1	0	83	211
*** BREAK ***																					
Total	4	4	7	4	19	2	185	5	1	193	20	4	6	0	30	6	143	3	0	152	394
*** BREAK ***																					
10:30 AM	5	2	2	3	12	3	68	4	1	76	2	1	3	1	7	3	78	3	2	86	181
10:45 AM	4	4	2	2	12	4	77	2	0	83	9	1	3	1	14	7	83	3	2	95	204
Total	9	6	4	5	24	7	145	6	1	159	11	2	6	2	21	10	161	6	4	181	385
11:00 AM	1	2	4	1	8	1	78	2	0	81	11	0	10	2	23	4	78	3	1	86	198
11:15 AM	10	3	4	0	17	3	91	1	0	95	4	1	4	2	11	4	94	1	0	99	222
11:30 AM	4	1	5	0	10	7	92	3	1	103	3	0	4	1	8	11	88	1	1	101	222
11:45 AM	14	3	4	2	23	3	91	3	2	99	10	2	2	1	15	10	89	4	0	103	240
Total	29	9	17	3	58	14	352	9	3	378	28	3	20	6	57	29	349	9	2	389	882
12:00 PM	10	4	7	1	22	1	100	2	1	104	6	2	3	0	11	8	95	4	0	107	244
12:15 PM	8	4	8	1	21	2	93	7	0	102	10	2	5	1	18	10	88	1	3	102	243
12:30 PM	7	5	11	1	24	1	84	6	2	93	2	4	0	0	6	13	97	3	0	113	236
12:45 PM	10	3	7	3	23	3	84	2	1	90	8	0	3	0	11	8	103	0	0	111	235
Total	35	16	33	6	90	7	361	17	4	389	26	8	11	1	46	39	383	8	3	433	958
*** BREAK ***																					
02:30 PM	9	4	6	2	21	3	93	5	1	102	6	8	5	0	19	6	140	5	2	153	295
02:45 PM	3	7	2	0	12	4	105	3	0	112	8	3	1	1	13	1	120	2	1	124	261
Total	12	11	8	2	33	7	198	8	1	214	14	11	6	1	32	7	260	7	3	277	556
03:00 PM	10	5	0	2	17	6	118	7	2	133	6	5	2	1	14	2	150	5	1	158	322
03:15 PM	4	3	2	1	10	8	114	6	1	129	6	8	3	0	17	3	155	3	3	164	320
03:30 PM	9	6	8	2	25	6	98	0	3	107	6	2	2	1	11	7	131	4	0	142	285
03:45 PM	10	7	5	0	22	5	107	5	1	118	11	6	4	0	21	4	165	6	0	175	336
Total	33	21	15	5	74	25	437	18	7	487	29	21	11	2	63	16	601	18	4	639	1263
04:00 PM	10	5	2	1	18	5	101	4	1	111	10	4	4	1	19	7	189	6	2	204	352
04:15 PM	16	3	5	2	26	2	113	8	2	125	5	5	4	0	14	7	199	2	0	208	373
04:30 PM	13	4	0	3	20	4	106	2	3	115	6	4	5	0	15	3	224	3	0	230	380

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 Site Code : 104
 Start Date : 10/19/2021
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	Arona St Southbound					CSAH 30 (Larpenteur Ave) Westbound					Arona St Northbound					CSAH 30 (Larpenteur 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	
04:45 PM	19	2	5	2	28	8	123	8	2	141	8	2	6	0	16	3	226	1	3	233	418
Total	58	14	12	8	92	19	443	22	8	492	29	15	19	1	64	20	838	12	5	875	1523
05:00 PM	16	7	5	1	29	5	101	5	4	115	8	2	3	1	14	8	235	5	3	251	409
05:15 PM	21	9	5	5	40	5	119	4	2	130	11	4	10	0	25	11	212	9	2	234	429
05:30 PM	16	9	4	0	29	8	95	10	0	113	10	4	2	0	16	9	160	9	2	180	338
05:45 PM	12	5	3	0	20	4	96	6	1	107	5	2	7	1	15	2	150	2	0	154	296
Total	65	30	17	6	118	22	411	25	7	465	34	12	22	2	70	30	757	25	7	819	1472
06:00 PM	11	5	5	2	23	4	100	4	0	108	5	3	2	1	11	5	121	4	5	135	277
06:15 PM	12	3	5	3	23	5	97	8	4	114	4	4	4	3	15	13	108	6	2	129	281
Grand Total	300	136	172	54	662	134	3886	143	47	4210	299	117	145	20	581	182	4230	112	39	4563	10016
Apprch %	45.3	20.5	26	8.2		3.2	92.3	3.4	1.1		51.5	20.1	25	3.4		4	92.7	2.5	0.9		
Total %	3	1.4	1.7	0.5	6.6	1.3	38.8	1.4	0.5	42	3	1.2	1.4	0.2	5.8	1.8	42.2	1.1	0.4	45.6	
Cars	295	133	165	41	634	123	3741	141	28	4033	289	113	141	12	555	178	4095	111	24	4408	9630
% Cars	98.3	97.8	95.9	75.9	95.8	91.8	96.3	98.6	59.6	95.8	96.7	96.6	97.2	60	95.5	97.8	96.8	99.1	61.5	96.6	96.1
Trucks	5	3	7	13	28	11	145	2	19	177	10	4	4	8	26	4	135	1	15	155	386
% Trucks	1.7	2.2	4.1	24.1	4.2	8.2	3.7	1.4	40.4	4.2	3.3	3.4	2.8	40	4.5	2.2	3.2	0.9	38.5	3.4	3.9

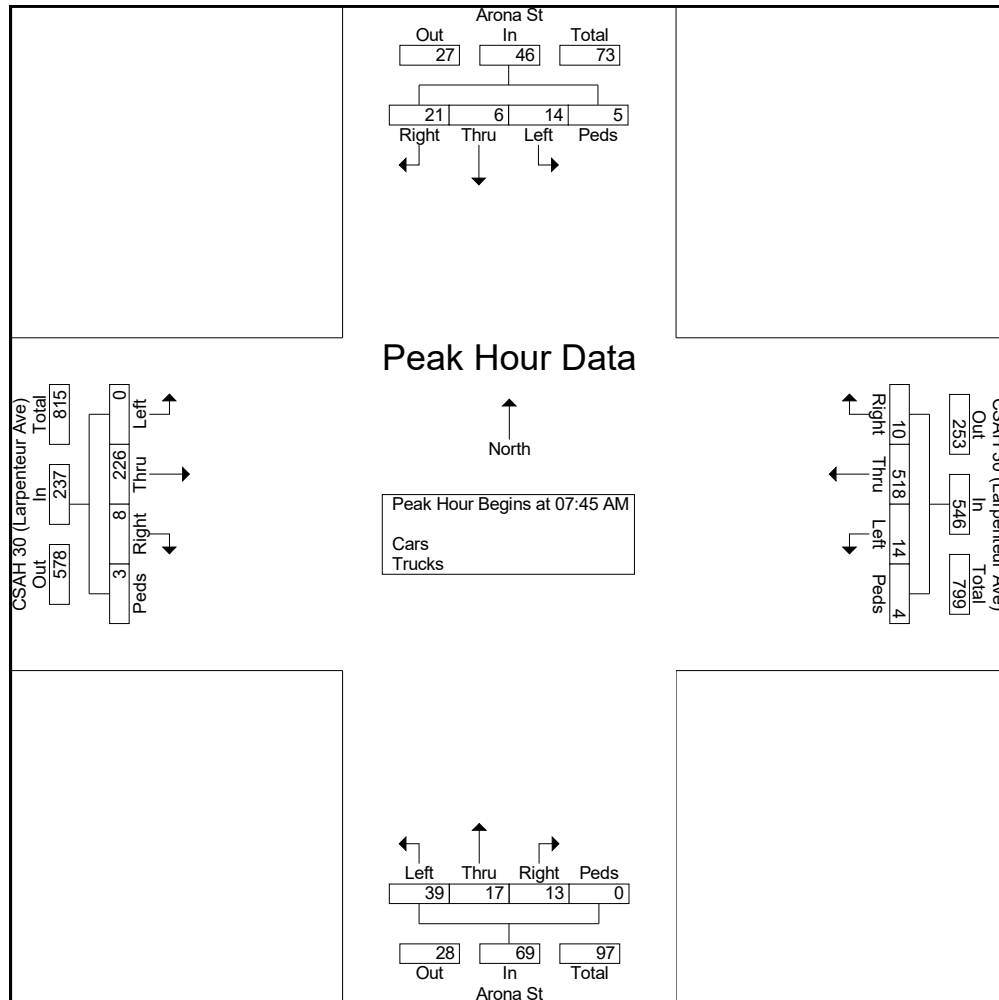
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	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:45 AM																					
07:45 AM	4	0	5	0	9	1	143	4	0	148	12	5	6	0	23	0	61	2	0	63	243
08:00 AM	2	1	5	2	10	5	127	3	0	135	10	2	5	0	17	0	46	1	1	48	210
08:15 AM	4	1	4	2	11	5	134	1	3	143	5	6	1	0	12	0	53	3	0	56	222
08:30 AM	4	4	7	1	16	3	114	2	1	120	12	4	1	0	17	0	66	2	2	70	223
Total Volume	14	6	21	5	46	14	518	10	4	546	39	17	13	0	69	0	226	8	3	237	898
% App. Total	30.4	13	45.7	10.9		2.6	94.9	1.8	0.7		56.5	24.6	18.8	0		0	95.4	3.4	1.3		
PHF	.875	.375	.750	.625	.719	.700	.906	.625	.333	.922	.813	.708	.542	.000	.750	.000	.856	.667	.375	.846	.924



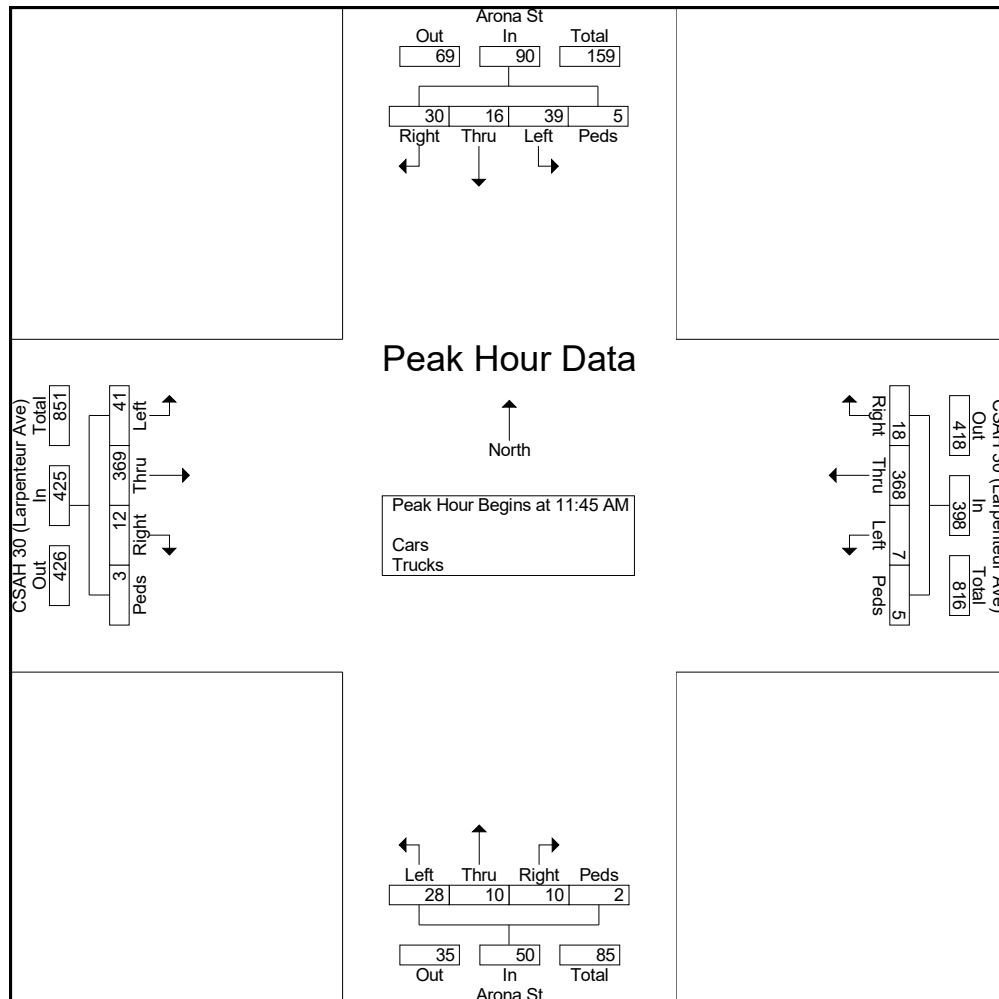
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Start Time	Arona St Southbound					CSAH 30 (Larpenteur Ave) Westbound					Arona St Northbound					CSAH 30 (Larpenteur Ave) Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	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 11:45 AM																					
11:45 AM	14	3	4	2	23	3	91	3	2	99	10	2	2	1	15	10	89	4	0	103	240
12:00 PM	10	4	7	1	22	1	100	2	1	104	6	2	3	0	11	8	95	4	0	107	244
12:15 PM	8	4	8	1	21	2	93	7	0	102	10	2	5	1	18	10	88	1	3	102	243
12:30 PM	7	5	11	1	24	1	84	6	2	93	2	4	0	0	6	13	97	3	0	113	236
Total Volume	39	16	30	5	90	7	368	18	5	398	28	10	10	2	50	41	369	12	3	425	963
% App. Total	43.3	17.8	33.3	5.6		1.8	92.5	4.5	1.3		56	20	20	4		9.6	86.8	2.8	0.7		
PHF	.696	.800	.682	.625	.938	.583	.920	.643	.625	.957	.700	.625	.500	.500	.694	.788	.951	.750	.250	.940	.987



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 Site Code : 104
 Start Date : 10/19/2021
 Page No : 5

Start Time	Arona St Southbound					CSAH 30 (Larpenteur Ave) Westbound					Arona St Northbound					CSAH 30 (Larpenteur 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 06:15 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	13	4	0	3	20	4	106	2	3	115	6	4	5	0	15	3	224	3	0	230	380
04:45 PM	19	2	5	2	28	8	123	8	2	141	8	2	6	0	16	3	226	1	3	233	418
05:00 PM	16	7	5	1	29	5	101	5	4	115	8	2	3	1	14	8	235	5	3	251	409
05:15 PM	21	9	5	5	40	5	119	4	2	130	11	4	10	0	25	11	212	9	2	234	429
Total Volume	69	22	15	11	117	22	449	19	11	501	33	12	24	1	70	25	897	18	8	948	1636
% App. Total	59	18.8	12.8	9.4		4.4	89.6	3.8	2.2		47.1	17.1	34.3	1.4		2.6	94.6	1.9	0.8		
PHF	.821	.611	.750	.550	.731	.688	.913	.594	.688	.888	.750	.750	.600	.250	.700	.568	.954	.500	.667	.944	.953

