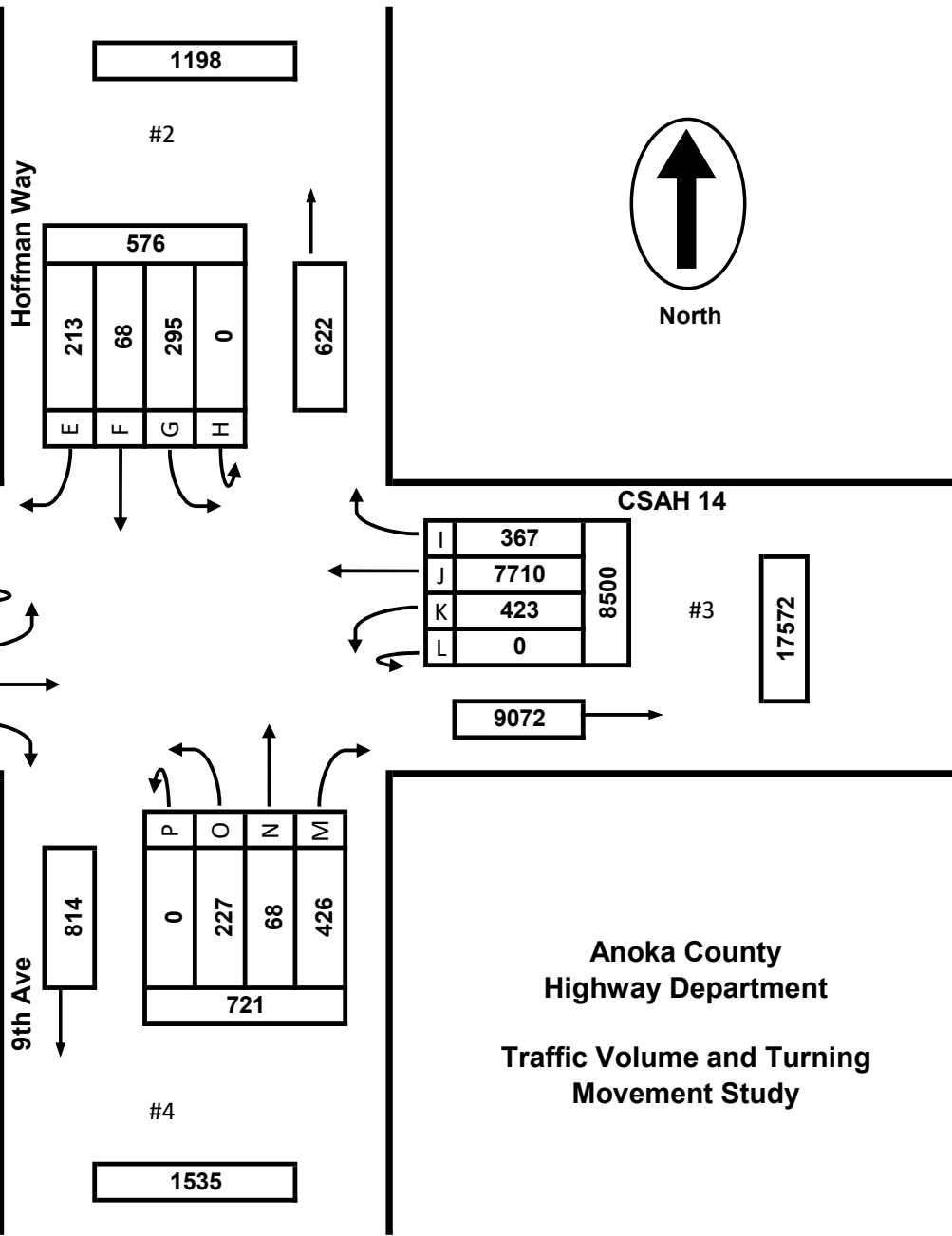
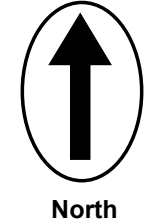


Date: 07/11/24

Count Number: TMC 2422

Location: CSAH 14
@ 9th Ave

Collection Period: 24 HR



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	1	2	3
#2	1	0	1	2
#3	0	1	2	3
#4	0	0	1	1

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

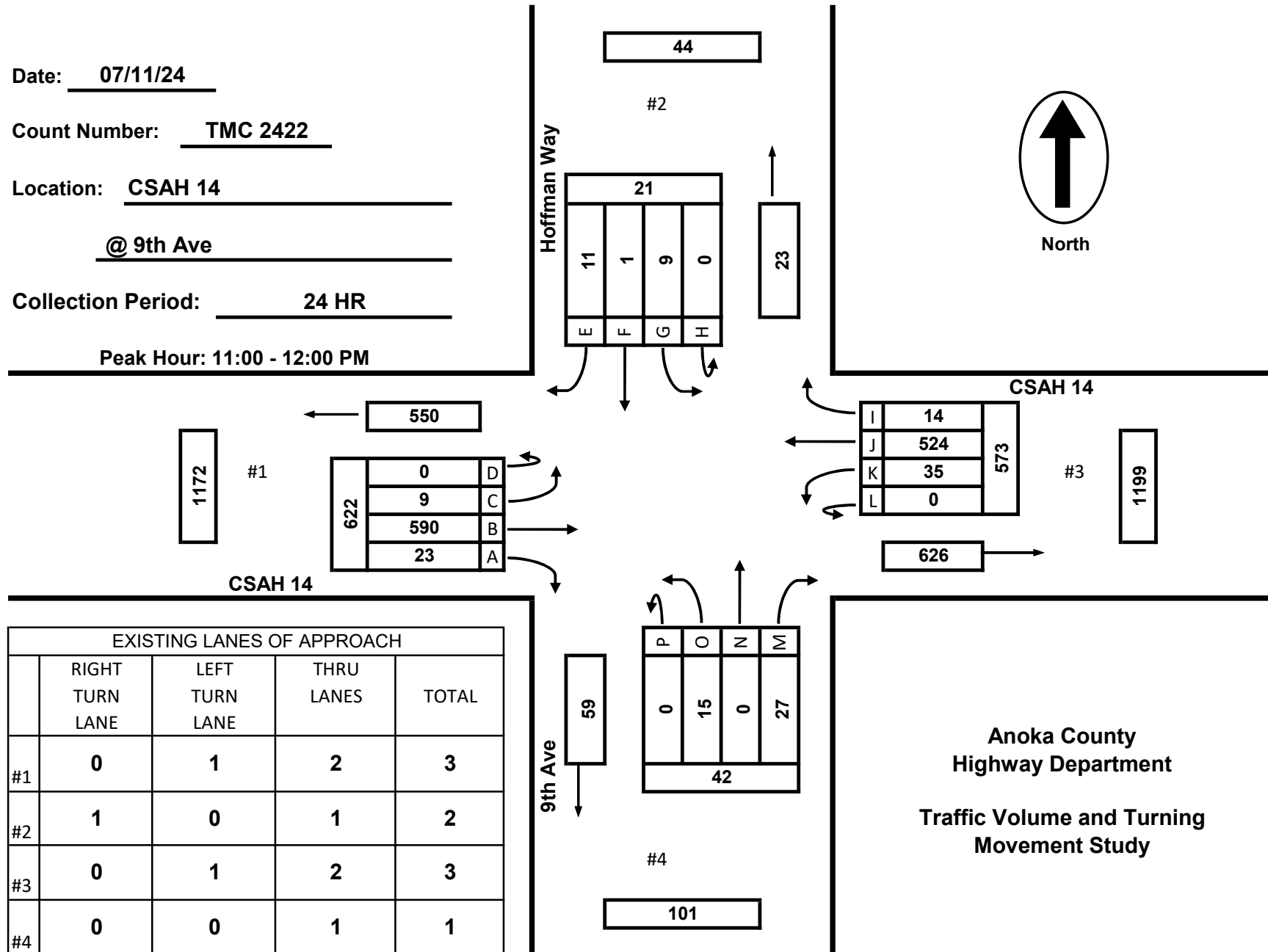
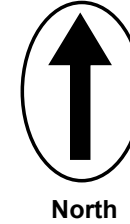
Date: 07/11/24

Count Number: TMC 2422

Location: CSAH 14
@ 9th Ave

Collection Period: 24 HR

Peak Hour: 11:00 - 12:00 PM



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	1	2	3
#2	1	0	1	2
#3	0	1	2	3
#4	0	0	1	1

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

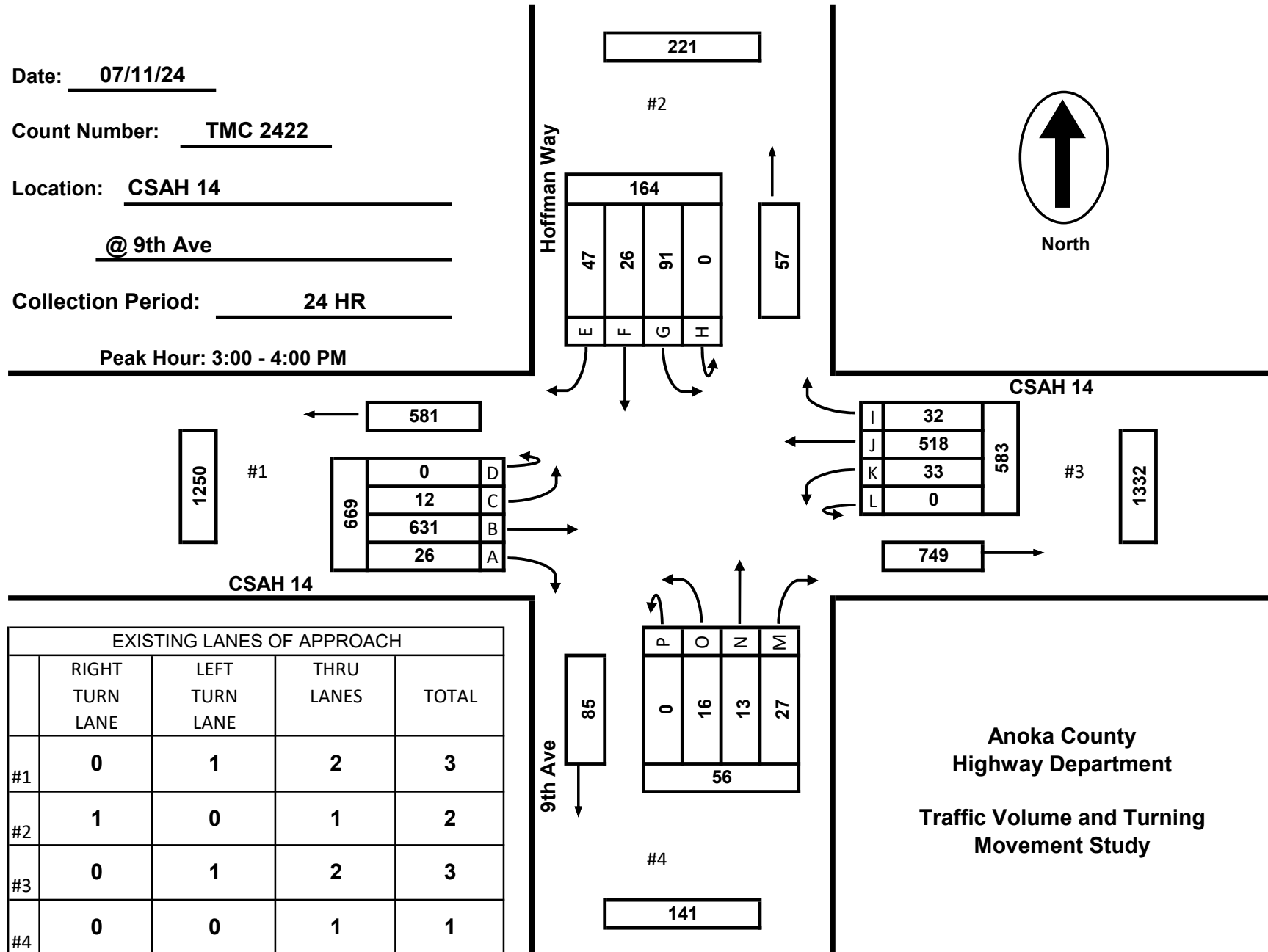
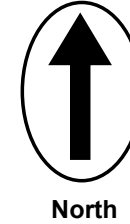
Date: 07/11/24

Count Number: TMC 2422

Location: CSAH 14
@ 9th Ave

Collection Period: 24 HR

Peak Hour: 3:00 - 4:00 PM



**Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study**

**TMC 2422 - CSAH 14 @ 9th Ave
Anoka MN
Thursday, July 11, 2024**

Time	Southbound Hoffman Way						Westbound CSAH 14						Northbound 9th Ave						Eastbound CSAH 14						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 AM	0	5	0	3	0	8	0	0	10	2	0	12	0	0	0	0	0	0	0	1	11	0	0	12	32
12:15 AM	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	0	1	6	0	0	7	18
12:30 AM	0	4	1	3	0	8	0	1	6	0	0	7	0	0	1	0	2	1	0	0	11	0	0	11	27
12:45 AM	0	2	0	0	0	2	0	0	4	0	0	4	0	1	0	0	0	1	0	0	6	0	0	6	13
Hourly Total	0	11	1	6	0	18	0	1	31	2	0	34	0	1	1	0	2	2	0	2	34	0	0	36	90
1:00 AM	0	3	1	4	0	8	0	0	6	1	0	7	0	0	1	1	0	2	0	0	14	0	1	14	31
1:15 AM	0	1	1	0	0	2	0	0	3	0	0	3	0	0	0	0	0	0	0	0	11	0	0	11	16
1:30 AM	0	1	0	0	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	0	10	1	0	11	18
1:45 AM	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	0	0	0	6	4	0	10	14
Hourly Total	0	5	2	4	0	11	0	1	18	1	0	20	0	0	1	1	0	2	0	0	41	5	1	46	79
2:00 AM	0	0	0	0	0	0	0	1	8	0	0	9	0	0	1	0	0	1	0	0	1	1	0	2	12
2:15 AM	0	0	0	1	0	1	0	0	5	0	0	5	0	0	0	0	0	0	0	0	10	0	0	10	16
2:30 AM	0	0	0	1	0	1	0	0	6	1	0	7	0	0	0	0	3	0	0	0	3	0	0	3	11
2:45 AM	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	0	1	9	0	0	10	13
Hourly Total	0	0	0	2	0	2	0	1	21	2	0	24	0	0	1	0	0	1	0	1	23	1	0	25	52
3:00 AM	0	2	0	3	0	5	0	0	4	0	0	4	0	0	0	0	0	0	0	0	10	1	0	11	20
3:15 AM	0	0	0	0	0	0	0	0	5	2	0	7	0	0	0	0	0	0	0	0	3	0	0	3	10
3:30 AM	0	0	0	0	0	0	0	0	9	0	0	9	0	2	0	0	0	2	0	0	3	1	0	4	15
3:45 AM	0	0	0	0	0	0	0	0	7	0	0	7	0	2	0	0	0	2	0	0	5	0	0	5	14
Hourly Total	0	2	0	3	0	5	0	0	25	2	0	27	0	4	0	0	0	4	0	0	21	2	0	23	59
4:00 AM	0	0	0	0	0	0	0	1	11	3	0	15	0	0	2	1	0	3	0	1	7	0	0	8	26
4:15 AM	0	1	0	0	0	1	0	0	9	1	0	10	0	0	0	1	0	1	0	0	7	0	0	7	19
4:30 AM	0	0	0	0	0	0	0	0	17	5	0	22	0	0	0	1	0	1	0	1	9	0	0	10	33
4:45 AM	0	0	0	0	0	0	0	0	14	5	0	19	0	1	4	1	0	6	0	5	15	0	0	20	45
Hourly Total	0	1	0	0	0	1	0	1	51	14	0	66	0	1	6	4	0	11	0	7	38	0	0	45	123
5:00 AM	0	0	0	2	0	2	0	0	13	3	0	16	0	0	1	0	0	1	0	3	20	0	0	23	42
5:15 AM	0	3	0	1	0	4	0	0	48	5	0	53	0	2	1	2	0	5	0	2	21	0	2	23	85
5:30 AM	0	1	0	1	0	2	0	0	36	7	0	43	0	3	1	3	0	7	0	2	18	0	0	20	72
5:45 AM	0	2	0	1	0	3	0	0	40	19	1	59	0	0	2	5	0	7	0	5	28	2	0	35	104
Hourly Total	0	6	0	5	0	11	0	0	137	34	1	171	0	5	5	10	0	20	0	12	87	2	2	101	303
6:00 AM	0	3	0	6	0	9	0	0	59	8	1	67	0	0	1	2	0	3	0	1	39	0	0	40	119
6:15 AM	0	0	1	2	0	3	0	2	72	8	0	82	0	5	1	2	0	8	0	3	57	0	0	60	153
6:30 AM	0	1	1	0	0	2	0	1	89	11	0	101	0	5	7	10	1	22	0	9	61	1	0	71	196
6:45 AM	0	3	1	3	0	7	0	0	92	20	0	112	0	5	5	4	0	14	0	10	61	3	2	74	207
Hourly Total	0	7	3	11	0	21	0	3	312	47	1	362	0	15	14	18	1	47	0	23	218	4	2	245	675
7:00 AM	0	5	0	3	0	8	0	2	115	11	0	128	0	4	1	5	3	10	0	8	52	2	1	62	208
7:15 AM	0	2	0	3	0	5	0	2	76	17	0	95	0	7	4	6	0	17	0	8	65	5	1	78	195
7:30 AM	0	5	0	1	0	6	0	3	99	3	0	105	0	2	0	7	0	9	0	2	73	3	0	78	198
7:45 AM	0	2	0	1	0	3	0	4	148	12	0	164	0	5	0	5	1	10	0	4	77	4	0	85	262
Hourly Total	0	14	0	8	0	22	0	11	438	43	0	492	0	18	5	23	4	46	0	22	267	14	2	303	863

**TMC 2422 - CSAH 14 @ 9th Ave
Anoka MN
Thursday, July 11, 2024**

Time	Southbound Hoffman Way						Westbound CSAH 14						Northbound 9th Ave						Eastbound CSAH 14						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	1	1	0	0	2	0	3	103	6	0	112	0	3	1	4	0	8	0	3	81	2	0	86	208
8:15 AM	0	0	0	2	0	2	0	6	95	3	0	104	0	5	1	8	1	14	0	2	66	4	0	72	192
8:30 AM	0	2	0	3	0	5	0	3	91	5	0	99	0	4	0	3	0	7	0	5	96	4	0	105	216
8:45 AM	0	3	0	0	0	3	0	9	112	4	0	125	0	3	0	7	0	10	0	3	92	3	0	98	236
Hourly Total	0	6	1	5	0	12	0	21	401	18	0	440	0	15	2	22	1	39	0	13	335	13	0	361	852
9:00 AM	0	1	0	2	0	3	0	1	104	4	0	109	0	4	0	8	0	12	1	5	104	6	0	116	240
9:15 AM	0	0	0	3	0	3	0	4	101	2	0	107	0	2	1	5	0	8	0	3	108	9	0	120	238
9:30 AM	0	1	0	2	0	3	0	2	108	1	0	111	0	6	0	2	0	8	0	2	107	3	0	112	234
9:45 AM	0	2	0	6	0	8	0	2	114	5	0	121	0	3	1	5	0	9	0	2	132	3	0	137	275
Hourly Total	0	4	0	13	0	17	0	9	427	12	0	448	0	15	2	20	0	37	1	12	451	21	0	485	987
10:00 AM	0	4	0	2	0	6	0	2	115	3	0	120	0	1	0	4	1	5	0	4	106	3	0	113	244
10:15 AM	0	1	1	3	0	5	0	6	119	5	0	130	0	3	0	5	1	8	0	2	107	5	0	114	257
10:30 AM	0	1	0	4	0	5	0	6	122	2	0	130	0	5	0	7	0	12	0	2	140	6	0	148	295
10:45 AM	0	0	1	1	0	2	0	4	124	5	0	133	0	6	0	10	0	16	0	2	118	4	0	124	275
Hourly Total	0	6	2	10	0	18	0	18	480	15	0	513	0	15	0	26	2	41	0	10	471	18	0	499	1071
11:00 AM	0	2	0	1	0	3	0	5	127	4	0	136	0	5	0	8	0	13	0	3	138	4	0	145	297
11:15 AM	0	1	0	4	0	5	0	10	140	5	0	155	0	2	0	8	0	10	0	4	143	8	0	155	325
11:30 AM	0	4	1	3	0	8	0	6	125	0	0	131	0	2	0	5	1	7	0	1	153	3	0	157	303
11:45 AM	0	2	0	3	0	5	0	14	132	5	0	151	0	6	0	6	0	12	0	1	156	8	0	165	333
Hourly Total	0	9	1	11	0	21	0	35	524	14	0	573	0	15	0	27	1	42	0	9	590	23	0	622	1258
12:00 PM	0	5	0	0	0	5	0	8	139	4	0	151	0	1	0	12	0	13	0	1	170	9	0	180	349
12:15 PM	0	1	0	0	1	1	0	4	168	1	0	173	0	1	1	8	1	10	0	4	152	4	0	160	344
12:30 PM	0	4	0	4	0	8	0	5	153	5	0	163	0	4	0	4	0	8	0	3	187	3	0	193	372
12:45 PM	0	1	0	2	1	3	0	8	144	2	0	154	0	5	0	5	0	10	0	2	179	9	0	190	357
Hourly Total	0	11	0	6	2	17	0	25	604	12	0	641	0	11	1	29	1	41	0	10	688	25	0	723	1422
1:00 PM	0	8	1	5	1	14	0	9	128	3	1	140	0	6	1	8	0	15	0	0	171	7	0	178	347
1:15 PM	0	2	1	1	0	4	0	8	123	3	0	134	0	3	0	8	1	11	0	3	129	6	0	138	287
1:30 PM	0	2	0	2	0	4	0	6	137	3	0	146	0	5	0	4	0	9	0	3	156	5	0	164	323
1:45 PM	0	3	0	3	0	6	0	6	124	7	0	137	0	4	1	9	0	14	0	4	143	4	0	151	308
Hourly Total	0	15	2	11	1	28	0	29	512	16	1	557	0	18	2	29	1	49	0	10	599	22	0	631	1265
2:00 PM	0	11	1	4	0	16	0	9	144	6	0	159	0	1	1	7	0	9	0	3	137	4	2	144	328
2:15 PM	0	1	1	1	0	3	0	11	133	9	3	153	0	4	6	6	0	16	0	8	141	5	3	154	326
2:30 PM	0	3	0	1	0	4	0	9	128	15	0	152	0	2	1	9	1	12	0	14	126	5	0	145	313
2:45 PM	0	4	1	3	0	8	0	10	113	22	1	145	0	1	1	6	1	8	0	4	137	7	1	148	309
Hourly Total	0	19	3	9	0	31	0	39	518	52	4	609	0	8	9	28	2	45	0	29	541	21	6	591	1276
3:00 PM	0	45	13	21	1	79	0	4	117	16	2	137	0	3	3	8	0	14	0	4	142	8	1	154	384
3:15 PM	0	11	4	4	0	19	0	5	136	11	0	152	0	7	8	5	1	20	0	3	167	7	1	177	368
3:30 PM	0	27	7	17	0	51	0	12	128	1	0	141	0	1	1	3	1	5	0	4	178	5	0	187	384
3:45 PM	0	8	2	5	0	15	0	12	137	4	0	153	0	5	1	11	0	17	0	1	144	6	0	151	336
Hourly Total	0	91	26	47	1	164	0	33	518	32	2	583	0	16	13	27	2	56	0	12	631	26	2	669	1472

**TMC 2422 - CSAH 14 @ 9th Ave
Anoka MN
Thursday, July 11, 2024**

Time	Southbound Hoffman Way						Westbound CSAH 14						Northbound 9th Ave						Eastbound CSAH 14						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	3	0	4	0	7	0	10	126	5	0	141	0	6	0	7	1	13	0	0	188	6	0	194	355
4:15 PM	0	4	0	2	0	6	0	10	139	4	0	153	0	5	0	9	0	14	0	0	167	6	1	173	346
4:30 PM	0	3	0	3	0	6	0	8	138	4	0	150	0	7	0	8	1	15	0	0	171	3	0	174	345
4:45 PM	0	5	0	1	0	6	0	11	134	3	0	148	0	2	0	12	2	14	0	1	181	4	1	186	354
Hourly Total	0	15	0	10	0	25	0	39	537	16	0	592	0	20	0	36	4	56	0	1	707	19	2	727	1400
5:00 PM	0	3	1	5	0	9	0	13	123	1	0	137	0	2	0	6	1	8	0	0	152	7	0	159	313
5:15 PM	0	1	1	6	0	8	0	7	148	0	0	155	0	0	0	8	0	8	0	1	166	4	0	171	342
5:30 PM	0	2	1	1	0	4	0	15	140	1	0	156	0	5	0	5	1	10	0	0	139	10	0	149	319
5:45 PM	0	2	1	1	0	4	0	5	151	2	0	158	0	2	1	5	0	8	0	1	175	10	0	186	356
Hourly Total	0	8	4	13	0	25	0	40	562	4	0	606	0	9	1	24	2	34	0	2	632	31	0	665	1330
6:00 PM	0	1	0	1	0	2	0	9	133	1	0	143	0	2	1	5	0	8	0	1	155	6	0	162	315
6:15 PM	0	0	0	1	0	1	0	8	114	2	0	124	0	1	0	5	0	6	0	2	165	5	0	172	303
6:30 PM	0	1	0	1	0	2	0	13	116	1	0	130	0	2	0	10	1	12	0	0	129	3	1	132	276
6:45 PM	0	2	0	0	0	2	0	5	129	1	0	135	0	1	0	8	0	9	0	0	129	7	0	136	282
Hourly Total	0	4	0	3	0	7	0	35	492	5	0	532	0	6	1	28	1	35	0	3	578	21	1	602	1176
7:00 PM	0	2	0	1	0	3	0	7	129	1	0	137	0	0	0	9	0	9	0	0	122	1	0	123	272
7:15 PM	0	2	0	0	0	2	0	7	102	0	0	109	0	4	0	10	0	14	0	0	106	3	1	109	234
7:30 PM	0	0	1	1	0	2	0	3	85	0	0	88	0	1	0	6	0	7	0	0	117	4	0	121	218
7:45 PM	0	1	0	1	0	2	0	5	87	3	0	95	0	2	0	6	0	8	0	0	114	3	0	117	222
Hourly Total	0	5	1	3	0	9	0	22	403	4	0	429	0	7	0	31	0	38	0	0	459	11	1	470	946
8:00 PM	0	0	0	0	0	0	0	6	97	0	0	103	0	3	0	7	2	10	0	0	108	5	0	113	226
8:15 PM	0	0	1	0	0	1	0	5	72	2	0	79	0	3	0	4	0	7	0	0	95	3	0	98	185
8:30 PM	0	1	2	0	0	3	0	9	67	0	0	76	0	7	1	7	0	15	0	0	94	2	1	96	190
8:45 PM	0	0	0	0	1	0	0	4	68	0	0	72	0	2	1	4	3	7	0	3	98	2	0	103	182
Hourly Total	0	1	3	0	1	4	0	24	304	2	0	330	0	15	2	22	5	39	0	3	395	12	1	410	783
9:00 PM	0	1	0	1	0	2	0	3	73	1	0	77	0	3	0	1	0	4	1	0	80	2	0	83	166
9:15 PM	0	2	0	0	1	2	0	6	56	1	1	63	0	1	0	2	3	3	0	1	61	3	0	65	133
9:30 PM	0	0	0	1	0	1	0	5	50	1	0	56	0	2	0	5	0	7	0	1	66	1	0	68	132
9:45 PM	0	0	0	0	0	0	0	5	43	2	0	50	0	2	0	3	0	5	0	1	37	3	0	41	96
Hourly Total	0	3	0	2	1	5	0	19	222	5	1	246	0	8	0	11	3	19	1	3	244	9	0	257	527
10:00 PM	0	2	0	1	0	3	0	6	35	0	0	41	0	1	0	2	0	3	0	0	51	4	2	55	102
10:15 PM	0	0	0	0	0	0	0	2	30	2	0	34	0	1	0	2	0	3	0	0	49	4	1	53	90
10:30 PM	0	0	0	1	0	1	0	2	34	5	0	41	0	1	2	1	0	4	0	2	57	6	0	65	111
10:45 PM	0	1	0	0	0	1	0	1	18	6	0	25	0	1	0	2	0	3	0	1	41	5	0	47	76
Hourly Total	0	3	0	2	0	5	0	11	117	13	0	141	0	4	2	7	0	13	0	3	198	19	3	220	379
11:00 PM	0	21	9	16	0	46	0	3	22	1	0	26	0	1	0	2	0	3	0	0	36	1	1	37	112
11:15 PM	0	5	0	3	0	8	0	2	14	1	0	17	0	0	0	1	1	1	0	0	25	0	0	25	51
11:30 PM	0	19	8	9	0	36	0	1	15	0	0	16	0	0	0	0	0	0	0	0	19	3	0	22	74
11:45 PM	0	4	2	1	0	7	0	0	5	0	0	5	0	0	0	0	0	0	0	0	23	0	0	23	35
Hourly Total	0	49	19	29	0	97	0	6	56	2	0	64	0	1	0	3	1	4	0	0	103	4	1	107	272
DAILY TOTAL	0	295	68	213	6	576	0	423	7710	367	10	8500	0	227	68	426	33	721	2	187	8351	323	24	8863	18660
Cars	0	273	68	156	1	497	0	421	7588	334	5	8343	0	226	67	423	24	716	2	141	8236	322	13	8701	18257
Heavy Vehicles	0	22	0	57	5	79	0	2	122	33	5	157	0	1	1	3	9	5	0	46	115	1	11	162	403
Heavy Vehicle %	0.00%	7.46%	0.00%	26.76%	83.33%	13.72%	0.00%	0.47%	1.58%	8.99%	50.00%	1.85%	0.00%	0.44%	1.47%	0.70%	27.27%	0.69%	0.00%	24.60%	1.38%	0.31%	45.83%	1.83%	2.16%

**TMC 2422 - CSAH 14 @ 9th Ave
Anoka MN
Thursday, July 11, 2024
AM Peak Hour**

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
11:00 AM	0	2	0	1	0	3	0	5	127	4	0	136	0	5	0	8	0	13	0	3	138	4	0	145	297
11:15 AM	0	1	0	4	0	5	0	10	140	5	0	155	0	2	0	8	0	10	0	4	143	8	0	155	325
11:30 AM	0	4	1	3	0	8	0	6	125	0	0	131	0	2	0	5	1	7	0	1	153	3	0	157	303
11:45 AM	0	2	0	3	0	5	0	14	132	5	0	151	0	6	0	6	0	12	0	1	156	8	0	165	333
Peak Hour Total	0	9	1	11	0	21	0	35	524	14	0	573	0	15	0	27	1	42	0	9	590	23	0	622	1258
PHF	0.000	0.563	0.250	0.688	0.000	0.656	0.000	0.625	0.936	0.700	0.000	0.924	0.000	0.625	0.000	0.844	0.250	0.808	0.000	0.563	0.946	0.719	0.000	0.942	0.944

PM Peak Hour

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
3:00 PM	0	45	13	21	1	79	0	4	117	16	2	137	0	3	3	8	0	14	0	4	142	8	1	154	384
3:15 PM	0	11	4	4	0	19	0	5	136	11	0	152	0	7	8	5	1	20	0	3	167	7	1	177	368
3:30 PM	0	27	7	17	0	51	0	12	128	1	0	141	0	1	1	3	1	5	0	4	178	5	0	187	384
3:45 PM	0	8	2	5	0	15	0	12	137	4	0	153	0	5	1	11	0	17	0	1	144	6	0	151	336
Peak Hour Total	0	91	26	47	1	164	0	33	518	32	2	583	0	16	13	27	2	56	0	12	631	26	2	669	1472
PHF	0.000	0.506	0.500	0.560	0.250	0.519	0.000	0.688	0.945	0.500	0.250	0.953	0.000	0.571	0.406	0.614	0.500	0.700	0.000	0.750	0.886	0.813	0.500	0.894	0.958

Total Vehicles On Leg				1198	
Vehicles Entering Intersection			576	Vehicles Exiting Intersection	
				622	
Southbound					
Cars	156	68	273	0	1
Heavy	57	0	22	0	5
Total	213	68	295	0	6



Total Vehicles on Leg 17015	Eastbound	Vehicles Entering Intersection	8863	Total Vehicles on Leg 17572		
		Cars	13		11	24
		Heavy	2		0	2
		Total	141		46	187
		Vehicles Exiting Intersection	8152		8236	115
		322	1	323		



Daily Volumes

Cars	334	33	367	Westbound	Vehicles Entering Intersection	8500	Total Vehicles on Leg 17572
Heavy	7588	122	7710				
Total	421	2	423				
Vehicles Exiting Intersection	0	0	0				
	5	5	10				



Cars	24	0	226	67	423
Heavy	9	0	1	1	3
Total	33	0	227	68	426
Northbound					
Vehicles Entering Intersection			721	Vehicles Exiting Intersection	
				814	
Total Vehicles On Leg			1535		



Heavy Vehicles

Date	Time	Southbound						Westbound						Northbound						Eastbound					
		U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk
07/11/2024	0:00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:45	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	4:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	5:15	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	5:30	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0
	6:00	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	6:15	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	6:30	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
	6:45	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1
	7:00	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0
	7:15	0	0	0	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3	6	0	0
	7:30	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	7:45	0	1	0	1	0	0	0	0	11	0	0	0	0	0	0	0	1	0	0	0	0	7	0	0
	8:00	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	1	3	0	0
	8:15	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0
	8:30	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	8:45	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0
	9:00	0	0	0	1	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0
	9:15	0	0	0	3	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0
	9:30	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	5	0	0
	9:45	0	0	0	4	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	4	0	0
	10:00	0	2	0	2	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	2	4	0	0
	10:15	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	2	3	0	0
	10:30	0	1	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0
	10:45	0	0	0	1	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	1	3	0	0
	11:00	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	2	1	0
	11:15	0	1	0	2	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0
	11:30	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	11:45	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	5	0	0
12:00	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	2	1	0	0	
12:30	0	1	0	2	0	0	0	0	1	2	0	0	0	0	0	0	1	0	0	0	3	2	0	0	
12:45	0	0	0	2	1	0	0	0	8	1	0	0	0	0	0	0	0	0	0	0	1	4	0	0	
13:00	0	1	0	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	
13:15	0	1	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0	0	0	1	5	0	0	
13:30	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	4	0	0	
13:45	0	1	0	2	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
14:00	0	1	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	
14:15	0	0	0	0	0	0	0	0	1	3	0	0	2	0	0	0	0	0	0	0	0	0	0	2	
14:30	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
14:45	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
15:00	0	1	0	0	0	1	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
15:15	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
15:30	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
15:45	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
16:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:15	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:30	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
16:45	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
17:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	
17:15	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
17:45	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
18:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
18:30	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:45	0	0	0	0	0	0	0	0	0	1															

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2422

Study Date : 07/16/2024

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 8,863

Westbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 8,500

Minor Street Approaches

Northbound: 9th Ave

Number of Lanes : 1

Total Approach Volume: 721

Southbound: Hoffman Way

Number of Lanes : 1

Total Approach Volume: 363

Warrant Summary (Urban Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Not Satisfied

Warrant 1A - Minimum Vehicular Volume.....Not Satisfied

Required volumes reached for 0 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Not Satisfied

Required volumes reached for 1 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Not Satisfied

Required 1A volumes reached for 0 hours, 8 are needed

Required 1B volumes reached for 3 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Not Satisfied

Number of hours (1) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

Warrant 3A - Peak Hour Delay.....Satisfied

Number of one hour periods (2) volumes exceed minimum >= required (1). Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Not Satisfied

Volumes do not exceed minimums for any one hour period.

Warrant 4 - Pedestrian Volumes.....Not Evaluated

Warrant 5 - School Crossing.....Not Evaluated

Warrant 6 - Coordinated Signal System.....Not Evaluated

Warrant 7 - Crash Experience.....Not Evaluated

Warrant 8 - Roadway Network.....Not Evaluated

Warrant 9 - Intersection Near a Grade Crossing.....Not Evaluated

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2422

Study Date : 07/16/2024

Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **False**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Veh/Hr Major = **600**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
12:00 - 13:00	723	+	641	=	1364	41	11	No
12:15 - 13:15	721	+	630	=	1351	43	15	No
11:45 - 12:45	698	+	638	=	1336	43	12	No
16:00 - 17:00	727	+	592	=	1319	56	15	No
15:15 - 16:15	709	+	587	=	1296	55	62	No
15:30 - 16:30	705	+	588	=	1293	49	51	No
12:30 - 13:30	699	+	591	=	1290	44	17	No
15:45 - 16:45	692	+	597	=	1289	59	20	No
16:15 - 17:15	692	+	588	=	1280	51	16	No
16:30 - 17:30	690	+	590	=	1280	45	14	No
17:15 - 18:15	668	+	612	=	1280	34	9	No
17:00 - 18:00	665	+	606	=	1271	34	12	No
11:30 - 12:30	662	+	606	=	1268	42	13	No
16:45 - 17:45	665	+	596	=	1261	40	14	No
15:00 - 16:00	669	+	583	=	1252	56	117	No
17:30 - 18:30	669	+	581	=	1250	32	7	No
11:15 - 12:15	657	+	588	=	1245	42	13	No
12:45 - 13:45	670	+	574	=	1244	45	15	No
14:45 - 15:45	666	+	575	=	1241	47	112	No
14:30 - 15:30	624	+	586	=	1210	54	81	No
13:30 - 14:30	613	+	595	=	1208	48	19	No
17:45 - 18:45	652	+	555	=	1207	34	5	No
14:00 - 15:00	591	+	609	=	1200	45	22	No
11:00 - 12:00	622	+	573	=	1195	42	10	No
13:45 - 14:45	594		601		1195	51	20	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2422

Study Date : 07/16/2024

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Summary

Only 1 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **False**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Veh/Hr Major = **900**

Veh/Hr Minor = **75**

Time	Major Road					Minor Road		Met?
	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	
14:30 - 15:30	624	+	586	=	1210	54	81	Yes
12:00 - 13:00	723	+	641	=	1364	41	11	No
12:15 - 13:15	721	+	630	=	1351	43	15	No
11:45 - 12:45	698	+	638	=	1336	43	12	No
16:00 - 17:00	727	+	592	=	1319	56	15	No
15:30 - 16:30	705	+	588	=	1293	49	51	No
12:30 - 13:30	699	+	591	=	1290	44	17	No
15:45 - 16:45	692	+	597	=	1289	59	20	No
16:15 - 17:15	692	+	588	=	1280	51	16	No
16:30 - 17:30	690	+	590	=	1280	45	14	No
17:15 - 18:15	668	+	612	=	1280	34	9	No
17:00 - 18:00	665	+	606	=	1271	34	12	No
11:30 - 12:30	662	+	606	=	1268	42	13	No
16:45 - 17:45	665	+	596	=	1261	40	14	No
17:30 - 18:30	669	+	581	=	1250	32	7	No
11:15 - 12:15	657	+	588	=	1245	42	13	No
12:45 - 13:45	670	+	574	=	1244	45	15	No
13:30 - 14:30	613	+	595	=	1208	48	19	No
17:45 - 18:45	652	+	555	=	1207	34	5	No
14:00 - 15:00	591	+	609	=	1200	45	22	No
11:00 - 12:00	622	+	573	=	1195	42	10	No
13:45 - 14:45	594	+	601	=	1195	51	20	No
13:00 - 14:00	631	+	557	=	1188	49	17	No
14:15 - 15:15	601	+	587	=	1188	50	68	No
13:15 - 14:15	597		576		1173	43	20	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2422

Study Date : 07/16/2024

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Summary

Only 0 hours meet 1A minimums.
Only 3 hours meet 1B minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **False**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Warrant 1A 1B
Veh/Hr Major = **480 720**

Veh/Hr Minor = **120 60**

Time	Major Road				Total	Minor Road		Met1A?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	CSAH 14					9th Ave		
12:00 - 13:00	723	+	641	=	1364	41	11	No
12:15 - 13:15	721	+	630	=	1351	43	15	No
11:45 - 12:45	698	+	638	=	1336	43	12	No
16:00 - 17:00	727	+	592	=	1319	56	15	No
15:15 - 16:15	709	+	587	=	1296	55	62	No
15:30 - 16:30	705	+	588	=	1293	49	51	No
12:30 - 13:30	699	+	591	=	1290	44	17	No
15:45 - 16:45	692	+	597	=	1289	59	20	No
16:15 - 17:15	692	+	588	=	1280	51	16	No
16:30 - 17:30	690	+	590	=	1280	45	14	No
17:15 - 18:15	668	+	612	=	1280	34	9	No
17:00 - 18:00	665	+	606	=	1271	34	12	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
15:15 - 16:15	709	+	587	=	1296	55	62	Yes
14:15 - 15:15	601	+	587	=	1188	50	68	Yes
06:30 - 07:30	285	+	436	=	721	63	13	Yes
12:00 - 13:00	723	+	641	=	1364	41	11	No
12:15 - 13:15	721	+	630	=	1351	43	15	No
11:45 - 12:45	698	+	638	=	1336	43	12	No
12:30 - 13:30	699	+	591	=	1290	44	17	No
16:15 - 17:15	692	+	588	=	1280	51	16	No
16:30 - 17:30	690	+	590	=	1280	45	14	No
17:15 - 18:15	668	+	612	=	1280	34	9	No
17:00 - 18:00	665	+	606	=	1271	34	12	No
11:30 - 12:30	662	+	606	=	1268	42	13	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2422

Study Date : 07/16/2024

Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

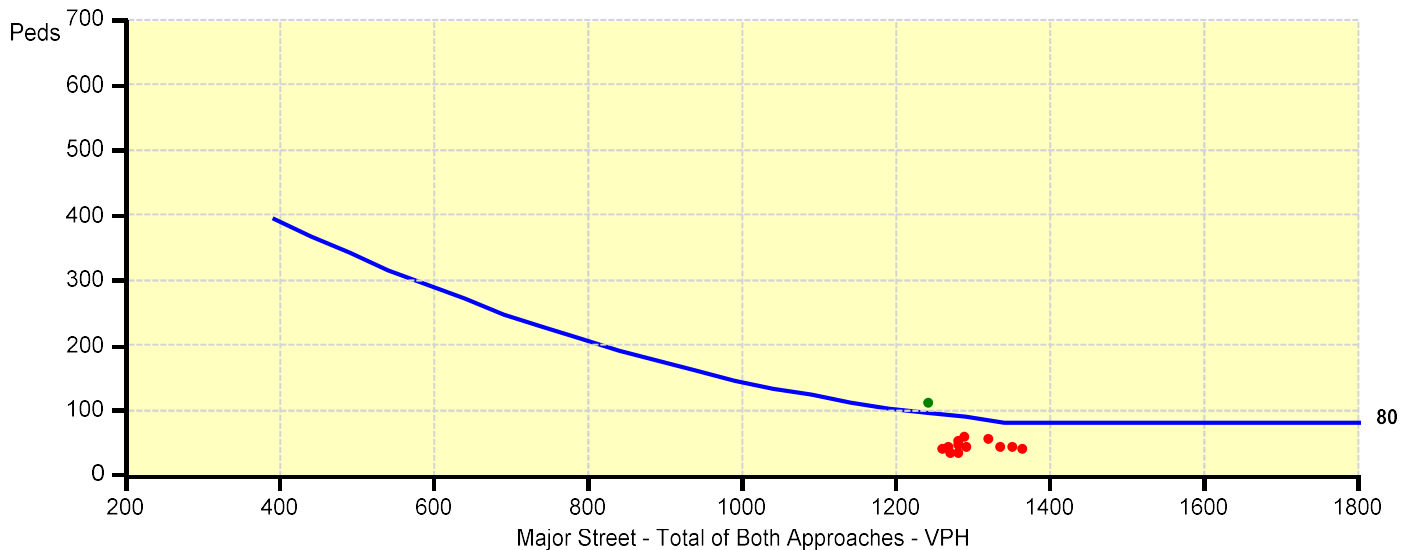
Summary

Only 1 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **False**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 14				Total	Minor Road 9th Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
14:45 - 15:45	666	+	575	=	1241	47	112	Yes
12:00 - 13:00	723	+	641	=	1364	41	11	No
12:15 - 13:15	721	+	630	=	1351	43	15	No
11:45 - 12:45	698	+	638	=	1336	43	12	No
16:00 - 17:00	727	+	592	=	1319	56	15	No
12:30 - 13:30	699	+	591	=	1290	44	17	No
15:45 - 16:45	692	+	597	=	1289	59	20	No
16:15 - 17:15	692	+	588	=	1280	51	16	No
16:30 - 17:30	690	+	590	=	1280	45	14	No
17:15 - 18:15	668	+	612	=	1280	34	9	No
17:00 - 18:00	665	+	606	=	1271	34	12	No
11:30 - 12:30	662	+	606	=	1268	42	13	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2422

Study Date : 07/16/2024

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **False**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 14				Total	Minor Road 9th Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
12:00 - 13:00	723	+	641	=	1364	41	11	No
12:15 - 13:15	721	+	630	=	1351	43	15	No
11:45 - 12:45	698	+	638	=	1336	43	12	No
16:00 - 17:00	727	+	592	=	1319	56	15	No
15:15 - 16:15	709	+	587	=	1296	55	62	No
15:30 - 16:30	705	+	588	=	1293	49	51	No
12:30 - 13:30	699	+	591	=	1290	44	17	No
15:45 - 16:45	692	+	597	=	1289	59	20	No
16:15 - 17:15	692	+	588	=	1280	51	16	No
16:30 - 17:30	690	+	590	=	1280	45	14	No
17:15 - 18:15	668	+	612	=	1280	34	9	No
17:00 - 18:00	665	+	606	=	1271	34	12	No

