

Collection Period: 24 HR

Date: 05/13/25

Count Number: TMC 2550

Location: CSAH 78
@ 121st Ave

Collection Period: 24 HR

EXISTING LANES OF APPROACH

	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	1	1	1	3
#2	1	1	2	4
#3	1	1	1	3
#4	1	1	2	4

**Anoka County
Highway Department**

**Traffic Volume and Turning
Movement Study**

Diagram Data:

- Approach #1 (Westbound):** Total Volume: 5670. Turning Movements: 0 (D), 201 (C), 496 (B), 2062 (A).
- Approach #2 (Northbound):** Total Volume: 30093. Turning Movements: 188 (E), 13941 (F), 712 (G), 16 (H).
- Approach #3 (Eastbound):** Total Volume: 5831. Turning Movements: 748 (I), 580 (J), 1805 (K), 0 (L).
- Approach #4 (Southbound):** Total Volume: 36280. Turning Movements: 284 (P), 2143 (O), 14271 (N), 1490 (M).

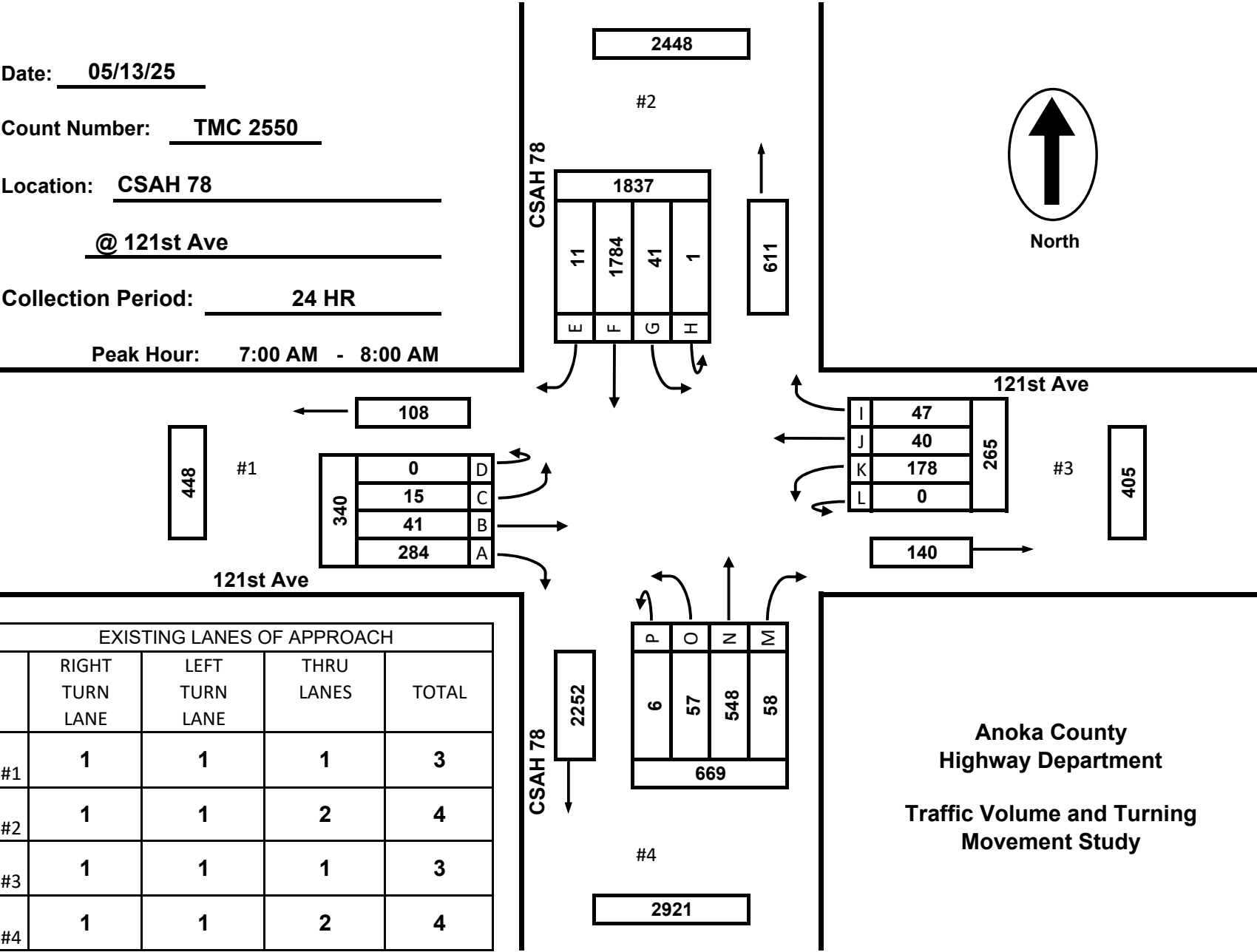
Date: 05/13/25

Count Number: TMC 2550

Location: CSAH 78
@ 121st Ave

Collection Period: 24 HR

Peak Hour: 7:00 AM - 8:00 AM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

Date: 05/13/25

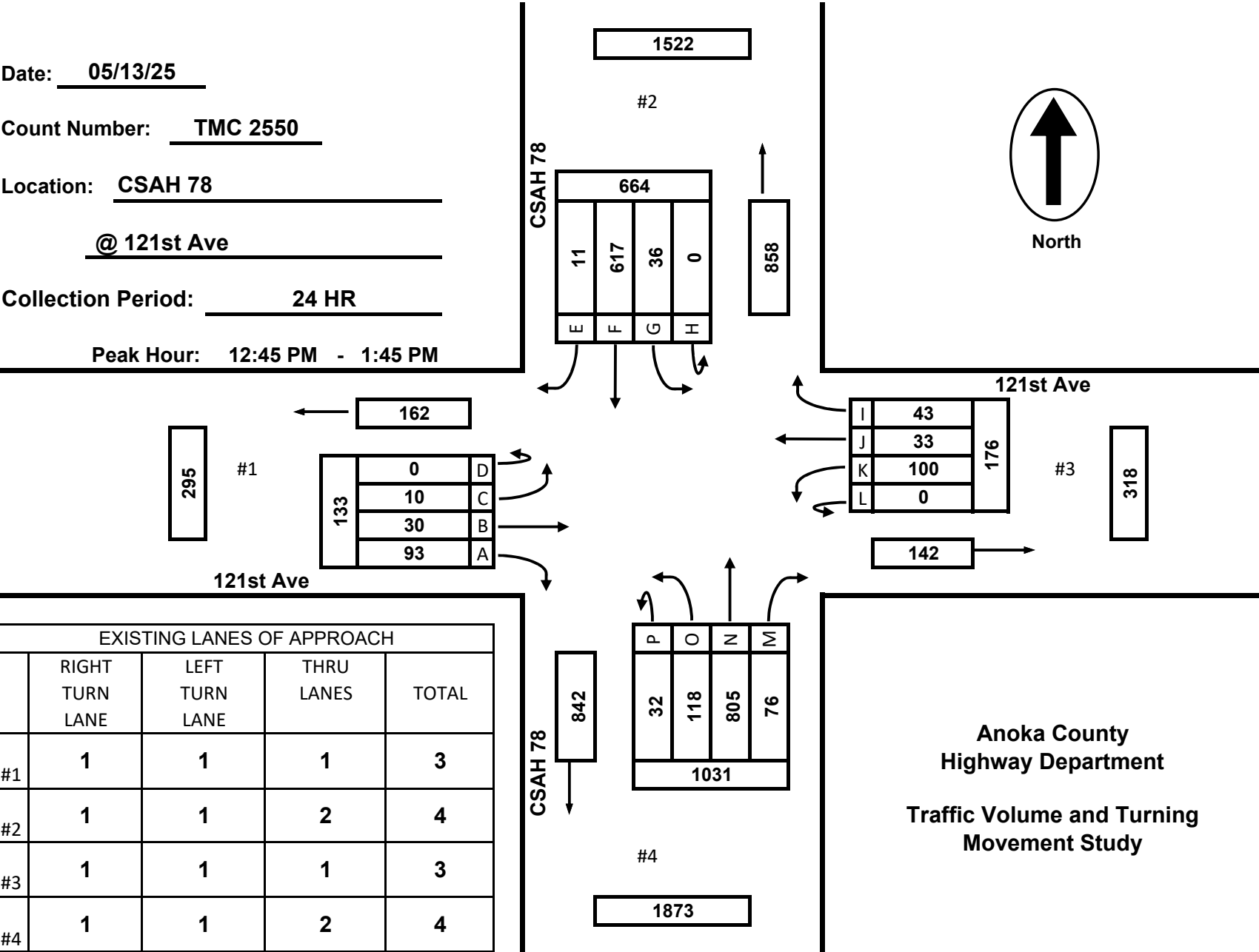
Count Number: TMC 2550

Location: CSAH 78

@ 121st Ave

Collection Period: 24 HR

Peak Hour: 12:45 PM - 1:45 PM



Date: 05/13/25

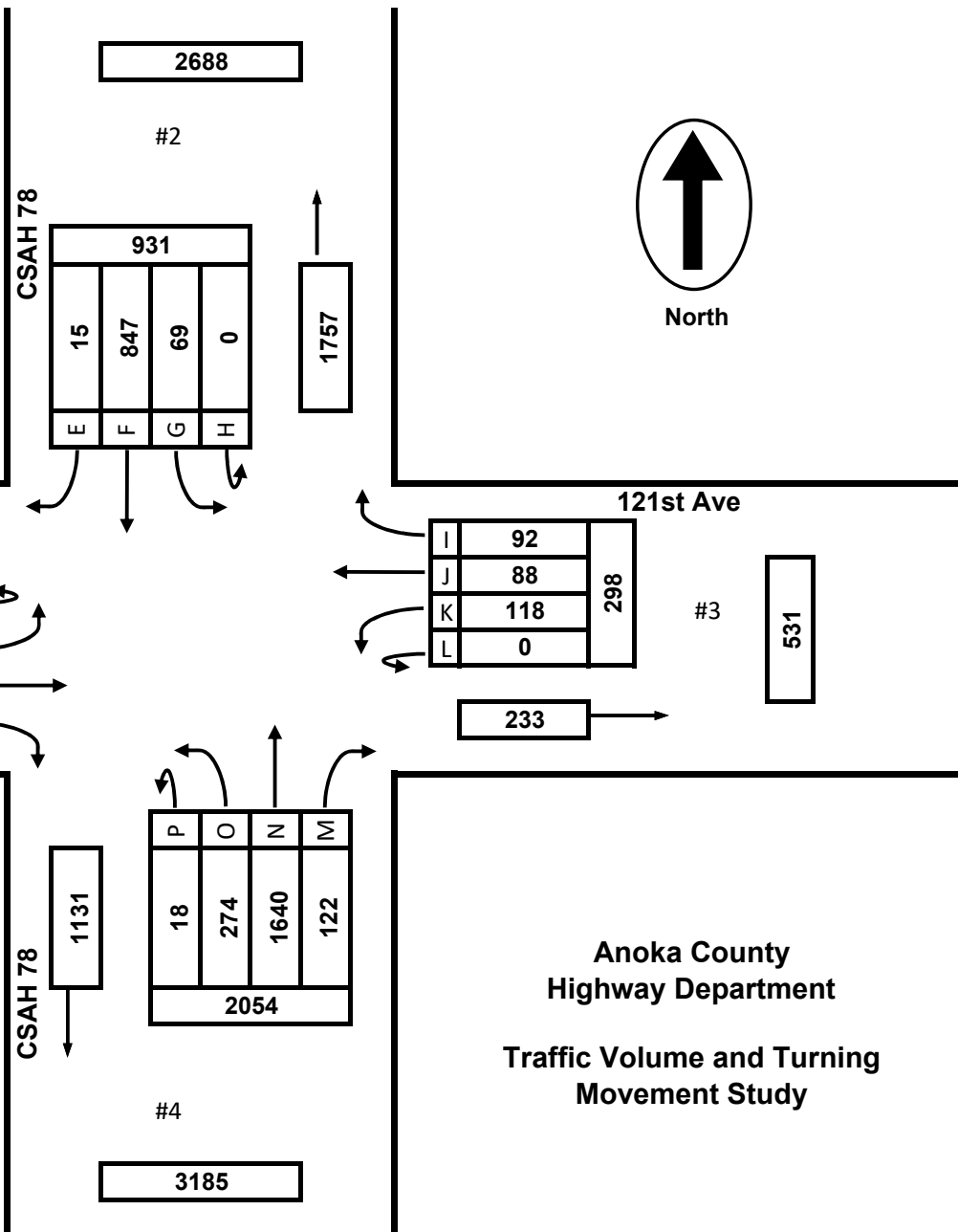
Count Number: TMC 2550

Location: CSAH 78

@ 121st Ave

Collection Period: 24 HR

Peak Hour: 4:15 PM - 5:15 PM



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

Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

TMC 2550 - CSAH 78 @ 121st Ave
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound CSAH 78						Westbound 121st Ave						Northbound CSAH 78						Eastbound 121st Ave						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	2	11	0	0	13	0	2	0	0	0	2	1	6	33	3	0	43	0	0	0	2	0	2	60
12:15 AM	0	0	14	0	0	14	0	2	1	1	0	4	0	4	18	1	0	23	0	0	1	4	0	5	46
12:30 AM	0	1	7	1	0	9	0	3	0	2	0	5	0	5	11	2	0	18	0	0	0	2	0	2	34
12:45 AM	0	0	6	0	0	6	0	2	0	2	0	4	0	1	13	1	0	15	0	0	1	0	0	1	26
Hourly Total	0	3	38	1	0	42	0	9	1	5	0	15	1	16	75	7	0	99	0	0	2	8	0	10	166
1:00 AM	0	1	10	0	0	11	0	2	0	1	0	3	1	1	18	5	0	25	0	0	0	1	0	1	40
1:15 AM	0	1	14	0	0	15	0	2	0	0	0	2	1	4	15	0	0	20	0	0	0	1	0	1	38
1:30 AM	0	0	3	0	0	3	0	0	0	0	0	0	1	1	9	2	0	13	0	0	1	2	0	3	19
1:45 AM	0	0	8	0	0	8	0	1	0	1	0	2	0	2	8	2	0	12	0	0	0	1	0	1	23
Hourly Total	0	2	35	0	0	37	0	5	0	2	0	7	3	8	50	9	0	70	0	0	1	5	0	6	120
2:00 AM	0	1	4	0	0	5	0	0	1	0	0	1	0	2	12	2	0	16	0	1	0	1	0	2	24
2:15 AM	0	0	5	1	0	6	0	1	3	0	0	4	0	1	13	0	0	14	0	0	0	0	0	0	24
2:30 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	3	7	4	0	14	0	0	0	0	0	0	20
2:45 AM	0	0	8	1	0	9	0	0	0	0	0	0	1	3	9	3	0	16	0	0	0	0	0	0	25
Hourly Total	0	1	23	2	0	26	0	1	4	0	0	5	1	9	41	9	0	60	0	1	0	1	0	2	93
3:00 AM	0	0	10	1	0	11	0	2	0	0	0	2	0	2	8	0	0	10	0	0	0	3	0	3	26
3:15 AM	0	0	17	0	0	17	0	6	0	0	0	6	0	3	6	1	0	10	0	0	0	1	0	1	34
3:30 AM	0	0	17	0	0	17	0	7	0	1	0	8	0	0	8	2	0	10	0	0	0	1	0	1	36
3:45 AM	0	0	16	0	0	16	0	0	1	1	0	2	0	2	13	0	0	15	0	0	0	3	0	3	36
Hourly Total	0	0	60	1	0	61	0	15	1	2	0	18	0	7	35	3	0	45	0	0	0	8	0	8	132
4:00 AM	0	0	30	0	0	30	0	4	1	0	0	5	0	0	9	2	0	11	0	0	0	3	0	3	49
4:15 AM	0	0	45	0	0	45	0	4	0	1	0	5	0	0	5	0	0	5	0	1	0	10	0	11	66
4:30 AM	0	0	57	0	0	57	0	9	0	0	0	9	2	0	11	0	0	13	0	2	0	9	0	11	90
4:45 AM	0	1	63	0	0	64	0	12	1	3	0	16	2	1	14	3	0	20	0	0	1	9	0	10	110
Hourly Total	0	1	195	0	0	196	0	29	2	4	0	35	4	1	39	5	0	49	0	3	1	31	0	35	315
5:00 AM	0	0	101	0	0	101	0	7	0	0	0	7	2	1	13	0	0	16	0	0	0	5	0	5	129
5:15 AM	0	1	155	1	0	157	0	19	1	2	0	22	1	2	24	0	0	27	0	2	1	21	0	24	230
5:30 AM	0	0	192	0	0	192	0	27	1	2	0	30	0	3	54	1	0	58	0	2	1	24	0	27	307
5:45 AM	1	4	190	1	0	196	0	16	0	6	0	22	0	0	32	2	0	34	0	1	0	25	0	26	278
Hourly Total	1	5	638	2	0	646	0	69	2	10	0	81	3	6	123	3	0	135	0	5	2	75	0	82	944
6:00 AM	0	3	237	1	0	241	0	21	1	8	0	30	2	10	53	2	0	67	0	1	2	30	0	33	371
6:15 AM	0	6	292	1	0	299	0	30	4	13	0	47	0	8	91	4	0	103	0	1	2	39	0	42	491
6:30 AM	0	8	369	1	0	378	0	45	3	7	0	55	0	4	104	9	0	117	0	6	4	34	0	44	594
6:45 AM	0	9	371	1	0	381	0	36	3	11	0	50	6	13	111	9	0	139	0	4	5	45	0	54	624
Hourly Total	0	26	1269	4	0	1299	0	132	11	39	0	182	8	35	359	24	0	426	0	12	13	148	0	173	2080
7:00 AM	0	13	469	0	0	482	0	41	10	9	0	60	0	7	101	10	0	118	0	3	2	63	0	68	728
7:15 AM	1	11	429	5	0	446	0	62	10	12	0	84	2	17	141	18	0	178	0	3	10	74	1	87	795
7:30 AM	0	7	419	3	0	429	0	39	12	14	0	65	2	10	154	18	3	184	0	5	17	90	0	112	790
7:45 AM	0	10	467	3	0	480	0	36	8	12	0	56	2	23	152	12	0	189	0	4	12	57	0	73	798
Hourly Total	1	41	1784	11	0	1837	0	178	40	47	0	265	6	57	548	58	3	669	0	15	41	284	1	340	3111

TMC 2550 - CSAH 78 @ 121st Ave
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound CSAH 78						Westbound 121st Ave						Northbound CSAH 78						Eastbound 121st Ave						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	13	375	4	0	392	0	29	6	5	0	40	2	20	140	15	1	177	0	6	11	55	0	72	681
8:15 AM	0	8	311	1	3	320	0	24	8	8	1	40	5	21	137	15	0	178	0	1	7	54	0	62	600
8:30 AM	1	8	249	2	0	260	0	24	6	12	0	42	2	22	157	20	0	201	0	2	6	34	1	42	545
8:45 AM	0	16	235	3	0	254	0	31	8	4	1	43	4	11	147	13	1	175	0	5	12	32	0	49	521
Hourly Total	1	45	1170	10	3	1226	0	108	28	29	2	165	13	74	581	63	2	731	0	14	36	175	1	225	2347
9:00 AM	0	7	221	2	0	230	0	23	6	15	0	44	2	11	124	11	1	148	0	6	6	35	0	47	469
9:15 AM	0	6	276	5	0	287	0	28	9	17	0	54	3	19	160	15	1	197	0	0	3	29	0	32	570
9:30 AM	0	5	242	4	1	251	0	18	10	7	0	35	4	17	153	16	0	190	0	6	5	35	2	46	522
9:45 AM	0	15	189	1	0	205	0	36	7	5	1	48	5	12	161	14	0	192	0	3	6	22	0	31	476
Hourly Total	0	33	928	12	1	973	0	105	32	44	1	181	14	59	598	56	2	727	0	15	20	121	2	156	2037
10:00 AM	1	3	190	3	0	197	0	25	7	6	0	38	6	21	127	10	2	164	0	1	5	28	0	34	433
10:15 AM	0	12	170	1	0	183	0	22	10	9	0	41	2	19	138	22	0	181	0	5	5	21	0	31	436
10:30 AM	0	6	182	2	0	190	0	20	9	6	0	35	4	18	136	16	0	174	0	4	4	26	0	34	433
10:45 AM	0	12	150	1	0	163	0	20	5	8	0	33	0	10	164	15	0	189	0	2	14	25	1	41	426
Hourly Total	1	33	692	7	0	733	0	87	31	29	0	147	12	68	565	63	2	708	0	12	28	100	1	140	1728
11:00 AM	0	7	157	1	0	165	0	27	10	8	0	45	4	15	160	24	0	203	0	2	10	20	2	32	445
11:15 AM	0	10	182	4	0	196	0	13	7	12	0	32	1	21	173	17	0	212	0	3	8	18	0	29	469
11:30 AM	0	7	167	1	0	175	0	24	10	7	0	41	1	20	180	30	0	231	0	2	5	30	0	37	484
11:45 AM	0	13	183	4	0	200	0	17	8	12	0	37	5	35	171	18	0	229	0	1	9	19	0	29	495
Hourly Total	0	37	689	10	0	736	0	81	35	39	0	155	11	91	684	89	0	875	0	8	32	87	2	127	1893
12:00 PM	0	15	136	2	2	153	0	22	12	9	0	43	8	29	156	28	1	221	0	0	3	30	2	33	450
12:15 PM	0	14	160	0	0	174	0	25	7	8	0	40	5	26	173	18	2	222	0	4	7	25	1	36	472
12:30 PM	0	4	150	2	1	156	0	20	9	11	0	40	6	19	179	16	2	220	0	3	8	27	0	38	454
12:45 PM	0	9	160	3	0	172	0	32	13	13	0	58	8	30	214	14	0	266	0	1	15	27	0	43	539
Hourly Total	0	42	606	7	3	655	0	99	41	41	0	181	27	104	722	76	5	929	0	8	33	109	3	150	1915
1:00 PM	0	11	142	1	0	154	0	29	5	10	0	44	10	27	166	16	1	219	0	6	7	20	0	33	450
1:15 PM	0	7	150	5	0	162	0	21	6	7	1	34	7	30	197	19	2	253	0	1	2	24	0	27	476
1:30 PM	0	9	165	2	0	176	0	18	9	13	0	40	7	31	228	27	0	293	0	2	6	22	0	30	539
1:45 PM	0	10	175	2	0	187	0	28	11	11	0	50	2	29	197	21	1	249	0	4	4	25	0	33	519
Hourly Total	0	37	632	10	0	679	0	96	31	41	1	168	26	117	788	83	4	1014	0	13	19	91	0	123	1984
2:00 PM	0	10	168	5	1	183	0	24	11	9	1	44	5	23	228	30	1	286	0	4	4	24	1	32	545
2:15 PM	0	14	190	7	2	211	0	24	4	12	0	40	6	42	263	28	1	339	0	2	8	31	0	41	631
2:30 PM	1	14	164	2	0	181	0	21	11	9	0	41	6	50	347	34	1	437	0	4	14	27	1	45	704
2:45 PM	0	9	179	1	0	189	0	30	10	11	0	51	4	41	327	28	1	400	0	3	3	27	2	33	673
Hourly Total	1	47	701	15	3	764	0	99	36	41	1	176	21	156	1165	120	4	1462	0	13	29	109	4	151	2553
3:00 PM	0	11	167	3	0	181	0	31	10	19	0	60	3	41	316	22	0	382	0	3	13	36	0	52	675
3:15 PM	0	4	181	3	0	188	0	25	10	17	0	52	0	45	401	23	3	469	0	1	12	25	0	38	747
3:30 PM	1	15	204	4	0	224	0	29	19	16	0	64	5	45	366	24	2	440	0	1	10	14	0	25	753
3:45 PM	0	15	193	1	0	209	0	14	18	23	0	55	1	67	363	33	0	464	0	0	5	21	0	26	754
Hourly Total	1	45	745	11	0	802	0	99	57	75	0	231	9	198	1446	102	5	1755	0	5	40	96	0	141	2929

TMC 2550 - CSAH 78 @ 121st Ave
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound CSAH 78						Westbound 121st Ave						Northbound CSAH 78						Eastbound 121st Ave						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	17	194	1	0	212	0	34	21	24	0	79	3	55	381	32	2	471	0	0	13	29	0	42	804
4:15 PM	0	13	224	2	0	239	0	37	33	35	0	105	5	71	363	30	3	469	0	6	9	24	0	39	852
4:30 PM	0	23	182	6	0	211	0	33	21	17	0	71	5	56	393	34	3	488	0	8	9	29	0	46	816
4:45 PM	0	21	217	4	0	242	0	21	21	19	0	61	1	63	436	26	0	526	0	6	8	44	0	58	887
Hourly Total	0	74	817	13	0	904	0	125	96	95	0	316	14	245	1573	122	8	1954	0	20	39	126	0	185	3359
5:00 PM	0	12	224	3	0	239	0	27	13	21	0	61	7	84	448	32	0	571	0	5	16	51	0	72	943
5:15 PM	0	21	192	4	0	217	0	29	14	13	3	56	6	68	383	36	1	493	0	4	14	37	0	55	821
5:30 PM	0	17	188	7	0	212	0	36	10	25	0	71	8	63	365	41	0	477	0	8	10	40	1	58	818
5:45 PM	1	18	227	0	0	246	0	30	12	20	0	62	2	48	317	33	2	400	0	4	21	34	0	59	767
Hourly Total	1	68	831	14	0	914	0	122	49	79	3	250	23	263	1513	142	3	1941	0	21	61	162	1	244	3349
6:00 PM	0	14	162	2	0	178	0	26	8	13	2	47	9	54	266	24	0	353	0	2	10	34	0	46	624
6:15 PM	0	9	177	2	0	188	0	26	8	9	0	43	3	43	282	30	1	358	0	2	3	26	0	31	620
6:30 PM	0	12	168	2	0	182	0	25	9	14	0	48	5	36	204	29	3	274	0	2	8	24	0	34	538
6:45 PM	1	9	155	6	0	171	0	30	5	10	0	45	9	30	229	19	7	287	0	6	10	26	0	42	545
Hourly Total	1	44	662	12	0	719	0	107	30	46	2	183	26	163	981	102	11	1272	0	12	31	110	0	153	2327
7:00 PM	0	11	150	6	0	167	0	15	3	8	4	26	6	40	245	26	0	317	0	3	9	13	0	25	535
7:15 PM	0	13	112	1	0	126	0	21	8	6	0	35	3	28	212	22	2	265	0	2	5	31	0	38	464
7:30 PM	0	14	124	5	0	143	0	23	4	10	0	37	5	39	161	36	3	241	0	3	14	15	0	32	453
7:45 PM	0	15	101	2	0	118	0	21	7	2	0	30	3	35	165	22	2	225	0	1	8	19	0	28	401
Hourly Total	0	53	487	14	0	554	0	80	22	26	4	128	17	142	783	106	7	1048	0	9	36	78	0	123	1853
8:00 PM	0	8	108	3	0	119	0	15	4	8	0	27	7	19	163	21	1	210	0	1	6	18	0	25	381
8:15 PM	0	8	128	2	0	138	0	9	4	8	2	21	10	37	181	30	2	258	0	1	5	11	0	17	434
8:30 PM	0	10	103	3	0	116	0	13	7	3	0	23	7	30	187	22	1	246	0	1	1	16	0	18	403
8:45 PM	0	7	104	1	0	112	0	11	2	7	0	20	2	29	143	23	3	197	0	1	5	10	1	16	345
Hourly Total	0	33	443	9	0	485	0	48	17	26	2	91	26	115	674	96	7	911	0	4	17	55	1	76	1563
9:00 PM	0	8	85	2	0	95	0	20	5	4	0	29	4	29	130	24	1	187	0	5	2	9	1	16	327
9:15 PM	1	4	74	4	0	83	0	10	3	5	0	18	4	30	120	11	0	165	0	0	1	11	0	12	278
9:30 PM	7	4	77	4	0	92	0	14	1	1	0	16	0	17	101	19	0	137	0	2	7	4	0	13	258
9:45 PM	0	4	51	1	0	56	0	13	0	2	0	15	2	19	102	13	0	136	0	2	1	5	0	8	215
Hourly Total	8	20	287	11	0	326	0	57	9	12	0	78	10	95	453	67	1	625	0	9	11	29	1	49	1078
10:00 PM	0	8	43	3	0	54	0	13	1	3	0	17	4	19	96	23	0	142	0	0	1	10	0	11	224
10:15 PM	0	2	44	3	0	49	0	15	1	4	0	20	0	21	84	15	0	120	0	0	0	8	0	8	197
10:30 PM	0	1	36	1	0	38	0	13	0	3	0	16	1	24	65	11	0	101	0	1	0	10	0	11	166
10:45 PM	0	3	19	2	0	24	0	6	1	0	0	7	1	13	46	7	0	67	0	0	1	11	0	12	110
Hourly Total	0	14	142	9	0	165	0	47	3	10	0	60	6	77	291	56	0	430	0	1	2	39	0	42	697
11:00 PM	0	3	20	2	0	25	0	3	1	2	0	6	1	11	55	10	0	77	0	0	0	5	0	5	113
11:15 PM	0	2	17	1	0	20	0	2	1	0	0	3	0	13	50	8	0	71	0	0	0	5	0	5	99
11:30 PM	0	2	17	0	0	19	0	1	0	1	0	2	1	7	47	6	0	61	0	1	0	4	0	5	87
11:45 PM	0	1	13	0	0	14	0	1	0	3	0	4	1	6	32	5	0	44	0	0	2	1	0	3	65
Hourly Total	0	8	67	3	0	78	0	7	2	6	0	15	3	37	184	29	0	253	0	1	2	15	0	18	364
DAILY TOTAL	16	712	13941	188	10	14857	0	1805	580	748	16	3133	284	2143	14271	1490	64	18188	0	201	496	2062	17	2759	38937
Cars	16	692	13616	179	9	14503	0	1775	569	711	12	3055	284	2092	13926	1450	39	17752	0	194	480	2005	11	2679	37989
Heavy Vehicles	0	20	325	9	1	354	0	30	11	37	4	78	0	51	345	40	25	436	0	7	16	57	6	80	948
Heavy Vehicle %	0.00%	2.81%	2.33%	4.79%	10.00%	2.38%	0.00%	1.66%	1.90%	4.95%	25.00%	2.49%	0.00%	2.38%	2.42%	2.68%	39.06%	2.40%	0.00%	3.48%	3.23%	2.76%	35.29%	2.90%	2.43%

TMC 2550 - CSAH 78 @ 121st Ave
Coon Rapids MN
Tuesday, May 13, 2025
AM Peak Hour (00:00 to 10:00)

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	
7:00 AM	0	13	469	0	0	482	0	41	10	9	0	60	0	7	101	10	0	118	0	3	2	63	0	68	728
7:15 AM	1	11	429	5	0	446	0	62	10	12	0	84	2	17	141	18	0	178	0	3	10	74	1	87	795
7:30 AM	0	7	419	3	0	429	0	39	12	14	0	65	2	10	154	18	3	184	0	5	17	90	0	112	790
7:45 AM	0	10	467	3	0	480	0	36	8	12	0	56	2	23	152	12	0	189	0	4	12	57	0	73	798
Peak Hour Total	1	41	1784	11	0	1837	0	178	40	47	0	265	6	57	548	58	3	669	0	15	41	284	1	340	3111
Peak Hour Heavy Vehicles	0	2	35	1	0	38	0	2	6	5	0	13	0	7	20	6	0	33	0	1	3	8	1	12	96
Peak Hour Heavy Vehicles PHF	0.00%	4.88%	1.96%	9.09%	0.00%	2.07%	0.00%	1.12%	15.00%	10.64%	0.00%	4.91%	0.00%	12.28%	3.65%	10.34%	0.00%	4.93%	0.00%	6.67%	7.32%	2.82%	100.00%	3.53%	3.09%
	0.250	0.788	0.951	0.550	0.000	0.953	0.000	0.718	0.833	0.839	0.000	0.789	0.750	0.620	0.890	0.806	0.250	0.885	0.000	0.750	0.603	0.789	0.250	0.759	0.975

Mid Peak Hour (10:00 - 14:00)

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	
12:45 PM	0	9	160	3	0	172	0	32	13	13	0	58	8	30	214	14	0	266	0	1	15	27	0	43	539
1:00 PM	0	11	142	1	0	154	0	29	5	10	0	44	10	27	166	16	1	219	0	6	7	20	0	33	450
1:15 PM	0	7	150	5	0	162	0	21	6	7	1	34	7	30	197	19	2	253	0	1	2	24	0	27	476
1:30 PM	0	9	165	2	0	176	0	18	9	13	0	40	7	31	228	27	0	293	0	2	6	22	0	30	539
Peak Hour Total	0	36	617	11	0	664	0	100	33	43	1	176	32	118	805	76	3	1031	0	10	30	93	0	133	2004
Peak Hour Heavy Vehicles	0	1	22	0	0	23	0	3	0	1	0	4	0	5	19	3	0	27	0	0	1	4	0	5	59
Peak Hour Heavy Vehicles PHF	0.00%	2.78%	3.57%	0.00%	0.00%	3.46%	0.00%	3.00%	0.00%	2.33%	0.00%	2.27%	0.00%	4.24%	2.36%	3.95%	0.00%	2.62%	0.00%	0.00%	3.33%	4.30%	0.00%	3.76%	2.94%
	0.000	0.818	0.935	0.550	0.000	0.943	0.000	0.781	0.635	0.827	0.250	0.759	0.800	0.952	0.883	0.704	0.375	0.880	0.000	0.417	0.500	0.861	0.000	0.773	0.929

PM Peak Hour (14:00 - 24:00)

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	
4:15 PM	0	13	224	2	0	239	0	37	33	35	0	105	5	71	363	30	3	469	0	6	9	24	0	39	852
4:30 PM	0	23	182	6	0	211	0	33	21	17	0	71	5	56	393	34	3	488	0	8	9	29	0	46	816
4:45 PM	0	21	217	4	0	242	0	21	21	19	0	61	1	63	436	26	0	526	0	6	8	44	0	58	887
5:00 PM	0	12	224	3	0	239	0	27	13	21	0	61	7	84	448	32	0	571	0	5	16	51	0	72	943
Peak Hour Total	0	69	847	15	0	931	0	118	88	92	0	298	18	274	1640	122	6	2054	0	25	42	148	0	215	3498
Peak Hour Heavy Vehicles	0	1	7	0	0	8	0	2	2	5	0	9	0	7	22	4	0	33	0	1	2	2	0	5	55
Peak Hour Heavy Vehicles PHF	0.00%	1.45%	0.83%	0.00%	0.00%	0.86%	0.00%	1.69%	2.27%	5.43%	0.00%	3.02%	0.00%	2.55%	1.34%	3.28%	0.00%	1.61%	0.00%	4.00%	4.76%	1.35%	0.00%	2.33%	1.57%
	0.000	0.750	0.945	0.625	0.000	0.962	0.000	0.797	0.667	0.657	0.000	0.710	0.643	0.815	0.915	0.897	0.500	0.899	0.000	0.781	0.656	0.725	0.000	0.747	0.927

Total Vehicles On Leg			30093		
Vehicles Entering Intersection 14857			Vehicles Exiting Intersection 15236		
Southbound					
Cars	179	13616	692	16	9
Heavy	9	325	20	0	1
Total	188	13941	712	16	10



Total Vehicles on Leg 5670	Vehicles Entering Intersection 2759	Eastbound	Cars	Heavy	Total
	Exiting Intersection 2911		11	6	17
			0	0	0
			194	7	201
			480	16	496
			2005	57	2062

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 3133	Total Vehicles on Leg 5831
711	37	748			
569	11	580			
1775	30	1805			
0	0	0			
12	4	16		Exiting Intersection 2698	

Cars	39	284	2092	13926	1450
Heavy	25	0	51	345	40
Total	64	284	2143	14271	1490
Northbound					
Vehicles Entering Intersection 18188			Vehicles Exiting Intersection 18092		
Total Vehicles On Leg			36280		

TMC 2550 - CSAH 78 @ 121st Ave
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy 121st Ave						Northbound Heavy CSAH 78						Eastbound Heavy 121st Ave						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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	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
12:30 AM	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
12:45 AM	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
Hourly 'Heavy Vehicles'	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
1:00 AM	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
1:15 AM	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
1:30 AM	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
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
2:00 AM	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
2:15 AM	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
2:30 AM	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
2:45 AM	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
Hourly 'Heavy Vehicles'	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
3:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3:15 AM	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
3:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3:45 AM	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
Hourly 'Heavy Vehicles'	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
4:15 AM	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
4:30 AM	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
4:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
5:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4
5:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	0	10	0	0	10	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	13
6:00 AM	0	1	7	0	0	8	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	15
6:15 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	11
6:30 AM	0	2	19	0	0	21	0	0	0	2	0	2	0	0	5	1	0	6	0	0	1	0	0	1	30
6:45 AM	0	0	8	0	0	8	0	1	1	1	0	3	0	0	4	2	0	6	0	0	0	1	0	1	18
Hourly 'Heavy Vehicles'	0	3	41	0	0	44	0	1	1	3	0	5	0	0	19	3	0	22	0	0	1	2	0	3	74
7:00 AM	0	1	9	0	0	10	0	2	4	0	0	6	0	2	2	1	0	5	0	0	0	4	0	4	25
7:15 AM	0	0	4	1	0	5	0	0	0	1	0	1	0	1	5	3	0	9	0	0	0	1	1	1	16
7:30 AM	0	0	15	0	0	15	0	0	1	3	0	4	0	1	3	2	3	6	0	0	2	2	0	4	29
7:45 AM	0	1	7	0	0	8	0	0	1	1	0	2	0	3	10	0	0	13	0	1	1	1	0	3	26
Hourly 'Heavy Vehicles'	0	2	35	1	0	38	0	2	6	5	0	13	0	7	20	6	3	33	0	1	3	8	1	12	96

TMC 2550 - CSAH 78 @ 121st Ave
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy 121st Ave						Northbound Heavy CSAH 78						Eastbound Heavy 121st Ave						VEHICLE 'Heavy Vehicles'
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	
8:00 AM	0	2	12	1	0	15	0	2	0	0	0	2	0	1	7	2	0	10	0	0	0	3	0	3	30
8:15 AM	0	1	3	0	0	4	0	1	0	0	0	1	0	0	12	0	0	12	0	0	1	2	0	3	20
8:30 AM	0	0	18	0	0	18	0	1	0	0	0	1	0	3	10	1	0	14	0	0	0	0	1	0	33
8:45 AM	0	2	10	2	0	14	0	1	0	1	1	2	0	1	6	1	1	8	0	0	1	3	0	4	28
Hourly 'Heavy Vehicles'	0	5	43	3	0	51	0	5	0	1	1	6	0	5	35	4	1	44	0	0	2	8	1	10	111
9:00 AM	0	2	5	0	0	7	0	0	0	1	0	1	0	2	4	1	0	7	0	0	0	3	0	3	18
9:15 AM	0	0	4	1	0	5	0	0	0	5	0	5	0	1	18	0	1	19	0	0	0	3	0	3	32
9:30 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	2	8	1	0	11	0	0	0	1	1	1	15
9:45 AM	0	0	6	0	0	6	0	1	0	1	1	2	0	1	6	0	0	7	0	0	0	1	0	1	16
Hourly 'Heavy Vehicles'	0	2	18	1	0	21	0	1	0	7	1	8	0	6	36	2	1	44	0	0	0	8	1	8	81
10:00 AM	0	0	3	0	0	3	0	0	0	1	0	1	0	1	1	0	1	2	0	0	0	1	0	1	7
10:15 AM	0	0	3	0	0	3	0	1	0	0	0	1	0	1	10	0	0	11	0	0	0	1	0	1	16
10:30 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	1	8	2	0	11	0	0	0	0	0	0	20
10:45 AM	0	1	6	0	0	7	0	0	0	1	0	1	0	1	12	1	0	14	0	0	0	1	1	1	23
Hourly 'Heavy Vehicles'	0	1	21	0	0	22	0	1	0	2	0	3	0	4	31	3	1	38	0	0	0	3	1	3	66
11:00 AM	0	0	11	0	0	11	0	1	0	1	0	2	0	0	5	0	0	5	0	0	0	2	0	2	20
11:15 AM	0	0	2	2	0	4	0	0	0	0	0	0	0	0	6	0	0	6	0	1	1	0	0	2	12
11:30 AM	0	0	5	0	0	5	0	1	0	0	0	1	0	1	4	1	0	6	0	1	0	2	0	3	15
11:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	2	5	0	0	7	0	0	0	0	0	0	10
Hourly 'Heavy Vehicles'	0	0	21	2	0	23	0	2	0	1	0	3	0	3	20	1	0	24	0	2	1	4	0	7	57
12:00 PM	0	0	4	0	0	4	0	2	0	1	0	3	0	0	10	0	0	10	0	0	0	3	0	3	20
12:15 PM	0	1	2	0	0	3	0	0	0	0	0	0	0	0	12	3	0	15	0	1	1	1	0	3	21
12:30 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	8	0	1	8	0	0	0	0	0	0	11
12:45 PM	0	0	7	0	0	7	0	0	0	1	0	1	0	4	4	0	0	8	0	0	0	0	0	0	16
Hourly 'Heavy Vehicles'	0	1	16	0	0	17	0	2	0	2	0	4	0	4	34	3	1	41	0	1	1	4	0	6	68
1:00 PM	0	1	2	0	0	3	0	0	0	0	0	0	0	0	8	0	0	8	0	0	1	2	0	3	14
1:15 PM	0	0	5	0	0	5	0	1	0	0	0	1	0	1	2	0	0	3	0	0	0	0	0	0	9
1:30 PM	0	0	8	0	0	8	0	2	0	0	0	2	0	0	5	3	0	8	0	0	0	2	0	2	20
1:45 PM	0	0	19	1	0	20	0	2	0	0	0	2	0	1	8	1	0	10	0	0	1	0	0	1	33
Hourly 'Heavy Vehicles'	0	1	34	1	0	36	0	5	0	0	0	5	0	2	23	4	0	29	0	0	2	4	0	6	76
2:00 PM	0	0	18	0	0	18	0	1	0	0	0	1	0	0	6	1	0	7	0	0	0	2	0	2	28
2:15 PM	0	0	10	0	1	10	0	0	0	0	0	0	0	2	10	1	1	13	0	0	0	1	0	1	24
2:30 PM	0	2	4	0	0	6	0	1	1	1	0	3	0	3	11	2	0	16	0	1	0	0	1	1	26
2:45 PM	0	0	6	0	0	6	0	0	0	2	0	2	0	0	10	1	1	11	0	0	0	4	1	4	23
Hourly 'Heavy Vehicles'	0	2	38	0	1	40	0	2	1	3	0	6	0	5	37	5	2	47	0	1	0	7	2	8	101
3:00 PM	0	0	3	0	0	3	0	1	0	0	0	1	0	1	3	0	0	4	0	0	1	2	0	3	11
3:15 PM	0	0	3	0	0	3	0	1	0	0	0	1	0	4	8	0	3	12	0	0	1	2	0	3	19
3:30 PM	0	0	7	1	0	8	0	2	0	1	0	3	0	1	10	1	2	12	0	1	1	0	0	2	25
3:45 PM	0	1	4	0	0	5	0	0	0	0	0	0	0	1	3	1	0	5	0	0	0	0	0	0	10
Hourly 'Heavy Vehicles'	0	1	17	1	0	19	0	4	0	1	0	5	0	7	24	2	5	33	0	1	3	4	0	8	65

TMC 2550 - CSAH 78 @ 121st Ave
Coon Rapids MN
Tuesday, May 13, 2025

	Southbound Heavy CSAH 78						Westbound Heavy 121st Ave						Northbound Heavy CSAH 78						Eastbound Heavy 121st Ave						VEHICLE 'Heavy Vehicles'	
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'		
4:00 PM	0	0	3	0	0	3	0	1	0	3	0	4	0	1	8	0	1	9	0	0	1	2	0	3	19	
4:15 PM	0	0	0	0	0	0	0	0	2	2	0	4	0	4	2	3	1	9	0	1	1	0	0	2	15	
4:30 PM	0	0	2	0	0	2	0	1	0	2	0	3	0	2	11	0	0	13	0	0	1	1	0	2	20	
4:45 PM	0	1	5	0	0	6	0	0	0	1	0	1	0	0	3	0	0	3	0	0	0	1	0	1	11	
Hourly 'Heavy Vehicles'	0	1	10	0	0	11	0	2	2	8	0	12	0	7	24	3	2	34	0	1	3	4	0	8	65	
5:00 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	1	6	1	0	8	0	0	0	0	0	0	9	
5:15 PM	0	0	1	0	0	1	0	1	1	0	1	2	0	0	5	0	0	5	0	0	0	0	0	0	8	
5:30 PM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	2	0	0	2	0	0	0	0	0	0	5	
5:45 PM	0	1	1	0	0	2	0	0	0	0	0	0	0	0	1	1	2	2	0	0	0	0	0	0	4	
Hourly 'Heavy Vehicles'	0	1	2	0	0	3	0	2	1	3	1	6	0	1	14	2	2	17	0	0	0	0	0	0	0	26
6:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	1	0	6	0	0	0	1	0	1	9	
6:15 PM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	4	
6:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	2	
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	3	0	0	0	0	0	0	3	
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	1	0	0	0	1	0	0	10	2	2	12	0	0	0	1	0	1	18	
7:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	3	0	0	0	0	0	0	3	
7:15 PM	0	0	2	0	0	2	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	5	
7:30 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	3	
7:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	5	0	0	5	0	0	0	1	1	1	0	0	6	0	3	6	0	0	0	0	0	0	0	12
8:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	
8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	1	
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
8:45 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	2	4	0	0	0	0	0	0	0	8
9:00 PM	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	
9:15 PM	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	
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
9:45 PM	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	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	
10:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
10:30 PM	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	
10:45 PM	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	
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	3
11:00 PM	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	
11:15 PM	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	
11:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
11:45 PM	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	
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
DAILY 'Heavy Vehicles'	0	20	325	9	1	354	0	30	11	37	4	78	0	51	345	40	25	436	0	7	16	57	6	80	948	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2550

Study Date : 05/29/2025

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 78

Number of Lanes : 2+

Total Approach Volume: 18,188

Southbound: CSAH 78

Number of Lanes :2+

Total Approach Volume: 14,857

Minor Street Approaches

Eastbound: 121st Ave

Number of Lanes :2+

Total Approach Volume: 697

Westbound: 121st Ave

Number of Lanes :2+

Total Approach Volume: 2,385

Warrant Summary (Rural Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Satisfied

Warrant 1A - Minimum Vehicular Volume.....Satisfied

Required volumes reached for 8 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Satisfied

Required volumes reached for 16 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Satisfied

Required 1A volumes reached for 13 hours, 8 are needed

Required 1B volumes reached for 18 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Satisfied

Number of hours (15) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (18) volumes exceed minimum >= required (1). Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Satisfied

Volumes exceed minimums for at least 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 2550

Study Date : 05/29/2025

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

8 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **420**

Veh/Hr Minor = **140**

Major Road						Minor Road			
CSAH 78						121st Ave			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:15 - 17:15	2054	+	931	=	2985	67	206	Yes	
15:15 - 16:15	1844	+	833	=	2677	42	170	Yes	
17:15 - 18:15	1723	+	853	=	2576	73	165	Yes	
07:00 - 08:00	669	+	1837	=	2506	56	218	Yes	
14:15 - 15:15	1558	+	762	=	2320	50	141	Yes	
06:00 - 07:00	426	+	1299	=	1725	25	143	Yes	
09:15 - 10:15	743	+	940	=	1683	29	140	Yes	
12:00 - 13:00	929	+	655	=	1584	41	140	Yes	
14:00 - 15:00	1462	+	764	=	2226	42	135	No	
13:45 - 14:45	1311	+	762	=	2073	44	134	No	
08:00 - 09:00	731	+	1226	=	1957	50	136	No	
18:15 - 19:15	1236	+	708	=	1944	43	121	No	
13:30 - 14:30	1167	+	757	=	1924	34	129	No	
18:30 - 19:30	1143	+	646	=	1789	45	116	No	
13:15 - 14:15	1081	+	708	=	1789	27	128	No	
08:15 - 09:15	702	+	1064	=	1766	45	130	No	
08:30 - 09:30	721	+	1031	=	1752	40	135	No	
08:45 - 09:45	710	+	1022	=	1732	43	133	No	
18:45 - 19:45	1110	+	607	=	1717	52	109	No	
09:00 - 10:00	727	+	973	=	1700	35	137	No	
13:00 - 14:00	1014	+	679	=	1693	32	127	No	
11:15 - 12:15	893	+	724	=	1617	31	113	No	
11:00 - 12:00	875	+	736	=	1611	40	116	No	
11:30 - 12:30	903	+	702	=	1605	31	125	No	
19:00 - 20:00	1048		554		1602	45	102	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2550

Study Date : 05/29/2025

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

16 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **630**

Veh/Hr Minor = **70**

Major Road						Minor Road			
CSAH 78						121st Ave			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:00 - 17:00	1954	+	904	=	2858	59	221	Yes	
17:00 - 18:00	1941	+	914	=	2855	82	171	Yes	
15:00 - 16:00	1755	+	802	=	2557	45	156	Yes	
07:00 - 08:00	669	+	1837	=	2506	56	218	Yes	
14:00 - 15:00	1462	+	764	=	2226	42	135	Yes	
18:00 - 19:00	1272	+	719	=	1991	43	137	Yes	
08:00 - 09:00	731	+	1226	=	1957	50	136	Yes	
06:00 - 07:00	426	+	1299	=	1725	25	143	Yes	
09:00 - 10:00	727	+	973	=	1700	35	137	Yes	
13:00 - 14:00	1014	+	679	=	1693	32	127	Yes	
11:00 - 12:00	875	+	736	=	1611	40	116	Yes	
19:00 - 20:00	1048	+	554	=	1602	45	102	Yes	
12:00 - 13:00	929	+	655	=	1584	41	140	Yes	
10:00 - 11:00	708	+	733	=	1441	40	118	Yes	
20:15 - 21:15	888	+	461	=	1349	21	71	Yes	
05:00 - 06:00	135	+	646	=	781	7	71	Yes	
20:00 - 21:00	911	+	485	=	1396	21	65	No	
21:15 - 22:15	580	+	285	=	865	14	55	No	
21:30 - 22:30	535	+	251	=	786	13	58	No	
21:45 - 22:45	499	+	197	=	696	5	56	No	
04:45 - 05:45	121	+	514	=	635	7	68	No	
22:00 - 23:00	430	+	165	=	595	3	50	No	
22:15 - 23:15	365	+	136	=	501	2	40	No	
04:30 - 05:30	76	+	379	=	455	6	49	No	
22:30 - 23:30	316		107		423	2	27	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2550

Study Date : 05/29/2025

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

13 hours meet 1A minimums.
18 hours meet 1B minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **336 504**
Veh/Hr Minor = **112 56**

Major Road						Minor Road				
CSAH 78						121st Ave				
Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1A?
16:45 - 17:45	2067	+	910	=	2977	71		171		Yes
15:45 - 16:45	1892	+	871	=	2763	50		211		Yes
14:45 - 15:45	1691	+	782	=	2473	46		164		Yes
06:45 - 07:45	619	+	1738	=	2357	49		213		Yes
07:45 - 08:45	745	+	1452	=	2197	49		141		Yes
17:45 - 18:45	1385	+	794	=	2179	52		144		Yes
13:45 - 14:45	1311	+	762	=	2073	44		134		Yes
08:45 - 09:45	710	+	1022	=	1732	43		133		Yes
12:45 - 13:45	1031	+	664	=	1695	40		133		Yes
11:45 - 12:45	892	+	683	=	1575	35		120		Yes
10:45 - 11:45	835	+	699	=	1534	46		116		Yes
09:45 - 10:45	711		775		1486	33		136		Yes

Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1B?
16:45 - 17:45	2067	+	910	=	2977	71		171		Yes
15:45 - 16:45	1892	+	871	=	2763	50		211		Yes
14:45 - 15:45	1691	+	782	=	2473	46		164		Yes
06:45 - 07:45	619	+	1738	=	2357	49		213		Yes
07:45 - 08:45	745	+	1452	=	2197	49		141		Yes
17:45 - 18:45	1385	+	794	=	2179	52		144		Yes
13:45 - 14:45	1311	+	762	=	2073	44		134		Yes
08:45 - 09:45	710	+	1022	=	1732	43		133		Yes
18:45 - 19:45	1110	+	607	=	1717	52		109		Yes
12:45 - 13:45	1031	+	664	=	1695	40		133		Yes
11:45 - 12:45	892	+	683	=	1575	35		120		Yes
10:45 - 11:45	835		699		1534	46		116		Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2550

Study Date : 05/29/2025

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.

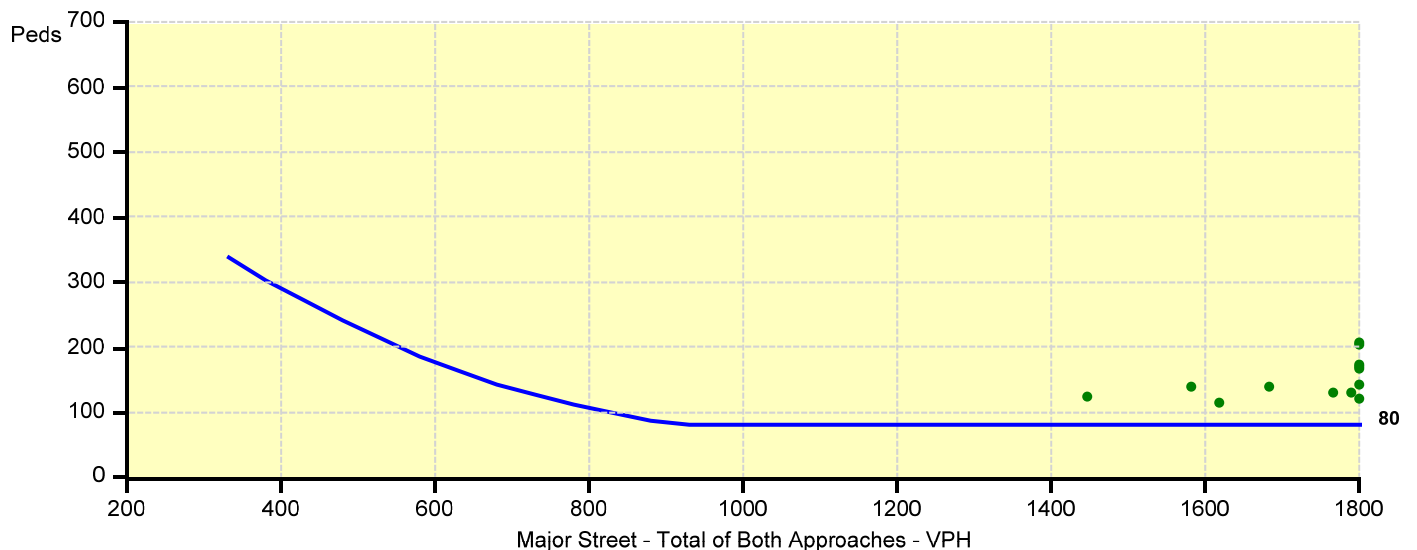
Summary

15 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road						Minor Road			
CSAH 78						121st Ave			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:15 - 17:15	2054	+	931	=	2985	67	206	Yes	
15:15 - 16:15	1844	+	833	=	2677	42	170	Yes	
17:15 - 18:15	1723	+	853	=	2576	73	165	Yes	
07:15 - 08:15	728	+	1747	=	2475	68	202	Yes	
14:15 - 15:15	1558	+	762	=	2320	50	141	Yes	
06:15 - 07:15	477	+	1540	=	2017	27	172	Yes	
18:15 - 19:15	1236	+	708	=	1944	43	121	Yes	
13:15 - 14:15	1081	+	708	=	1789	27	128	Yes	
08:15 - 09:15	702	+	1064	=	1766	45	130	Yes	
09:15 - 10:15	743	+	940	=	1683	29	140	Yes	
11:15 - 12:15	893	+	724	=	1617	31	113	Yes	
12:15 - 13:15	927	+	656	=	1583	51	140	Yes	



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2550

Study Date : 05/29/2025

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

56 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road						Minor Road			
CSAH 78						121st Ave			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:30 - 17:30	2078	+	909	=	2987	70	179	Yes	
16:15 - 17:15	2054	+	931	=	2985	67	206	Yes	
16:45 - 17:45	2067	+	910	=	2977	71	171	Yes	
16:00 - 17:00	1954	+	904	=	2858	59	221	Yes	
17:00 - 18:00	1941	+	914	=	2855	82	171	Yes	
15:45 - 16:45	1892	+	871	=	2763	50	211	Yes	
15:30 - 16:30	1844	+	884	=	2728	44	205	Yes	
15:15 - 16:15	1844	+	833	=	2677	42	170	Yes	
17:15 - 18:15	1723	+	853	=	2576	73	165	Yes	
15:00 - 16:00	1755	+	802	=	2557	45	156	Yes	
07:00 - 08:00	669	+	1837	=	2506	56	218	Yes	
07:15 - 08:15	728	+	1747	=	2475	68	202	Yes	

