

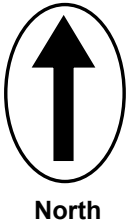
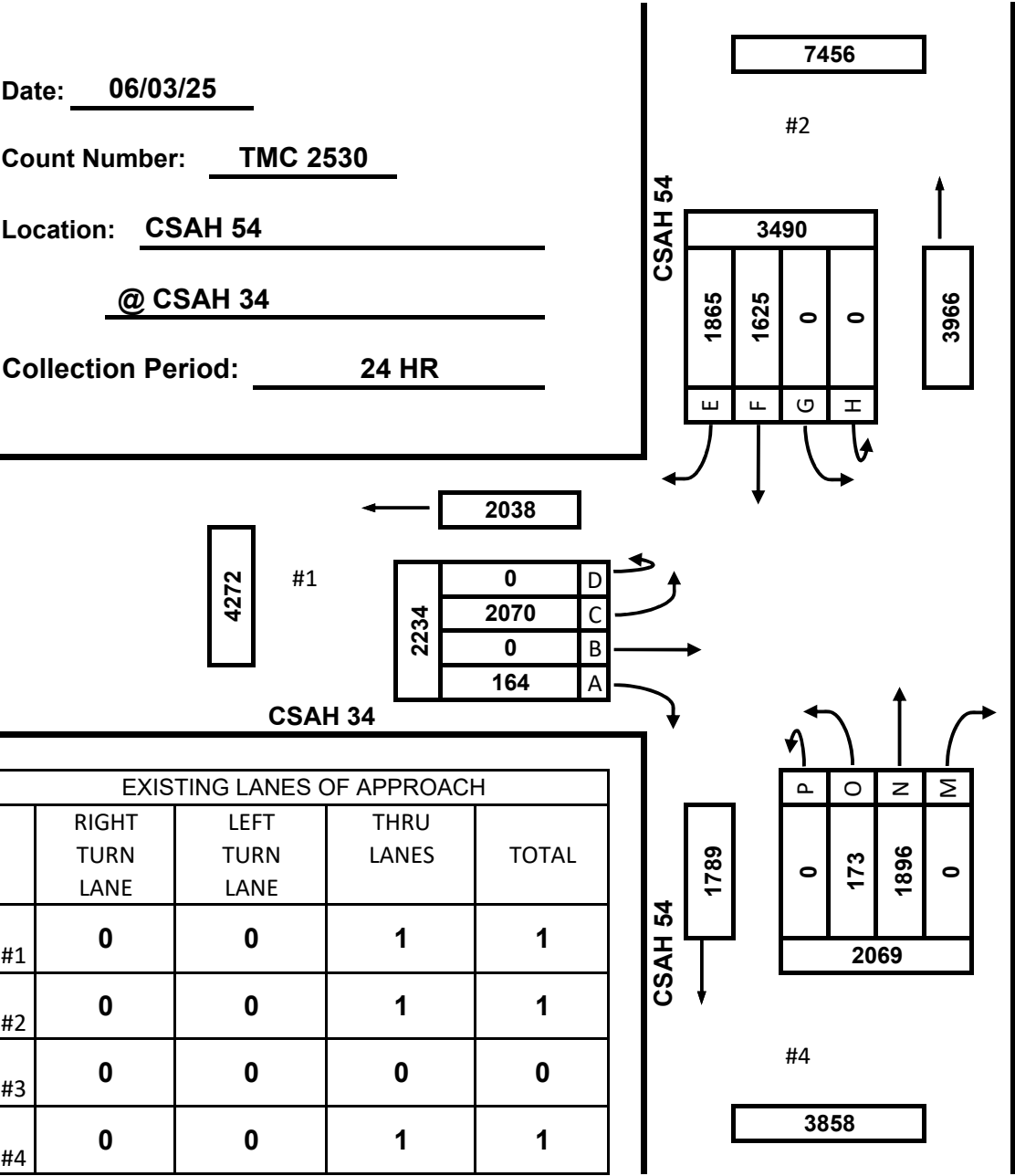
Date: 06/03/25

Count Number: TMC 2530

Location: CSAH 54

@ CSAH 34

Collection Period: 24 HR



Anoka County
Highway Department

Traffic Volume and Turning
Movement Study

Date: 06/03/25

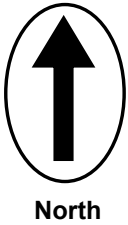
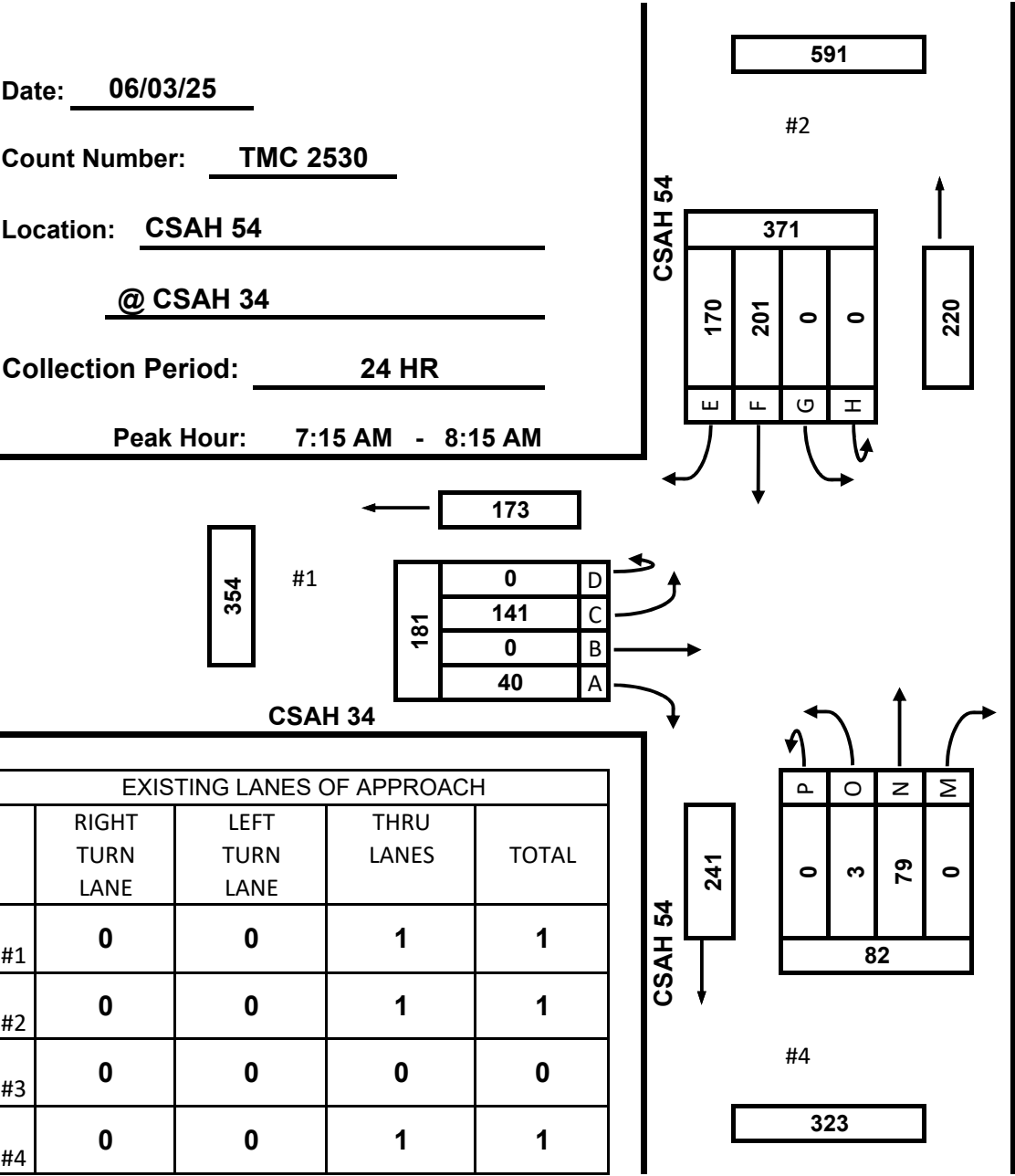
Count Number: TMC 2530

Location: CSAH 54

@ CSAH 34

Collection Period: 24 HR

Peak Hour: 7:15 AM - 8:15 AM



Anoka County
Highway Department

Traffic Volume and Turning
Movement Study

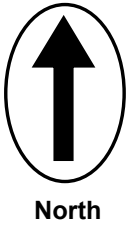
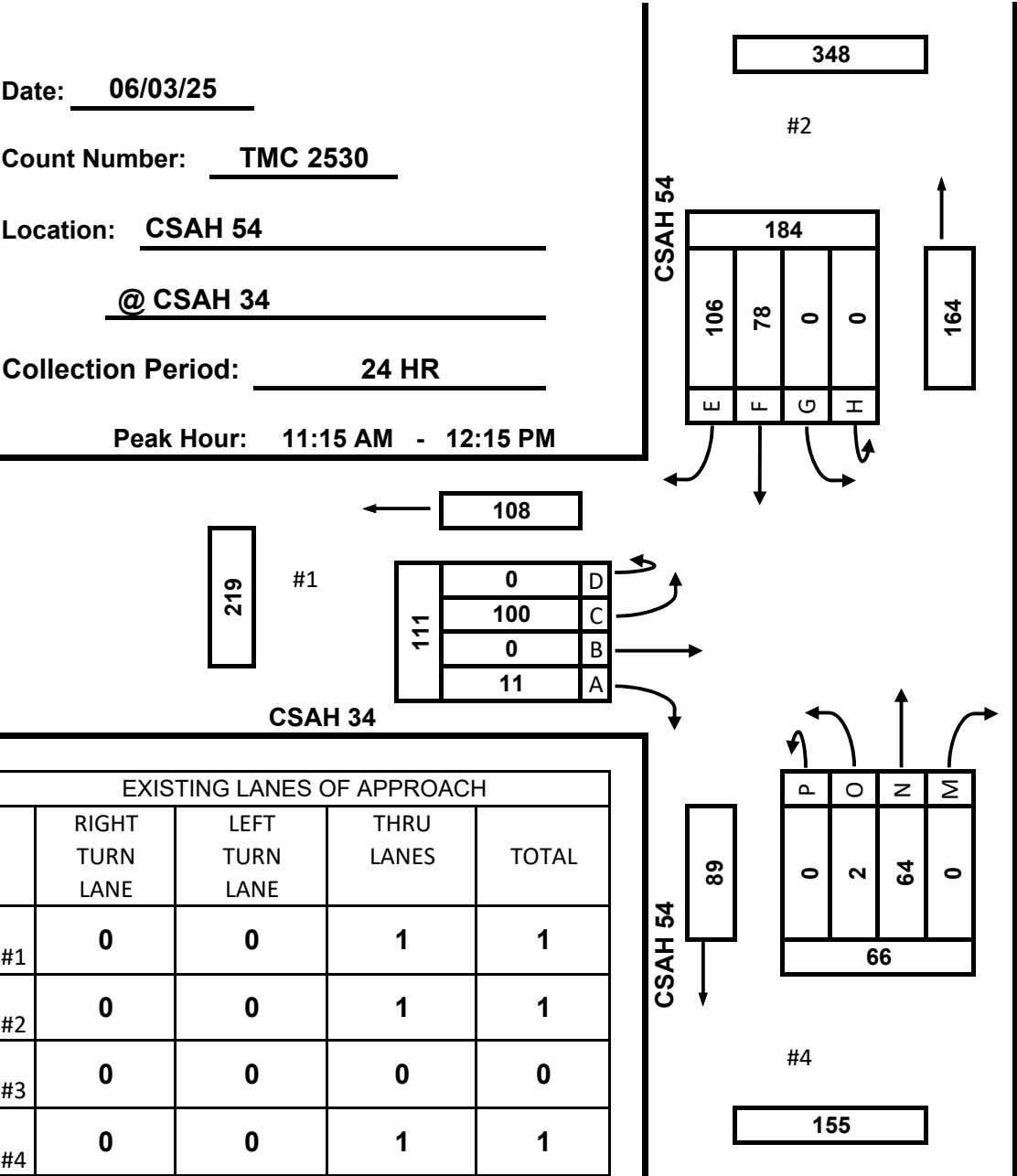
Date: 06/03/25

Count Number: TMC 2530

Location: CSAH 54
@ CSAH 34

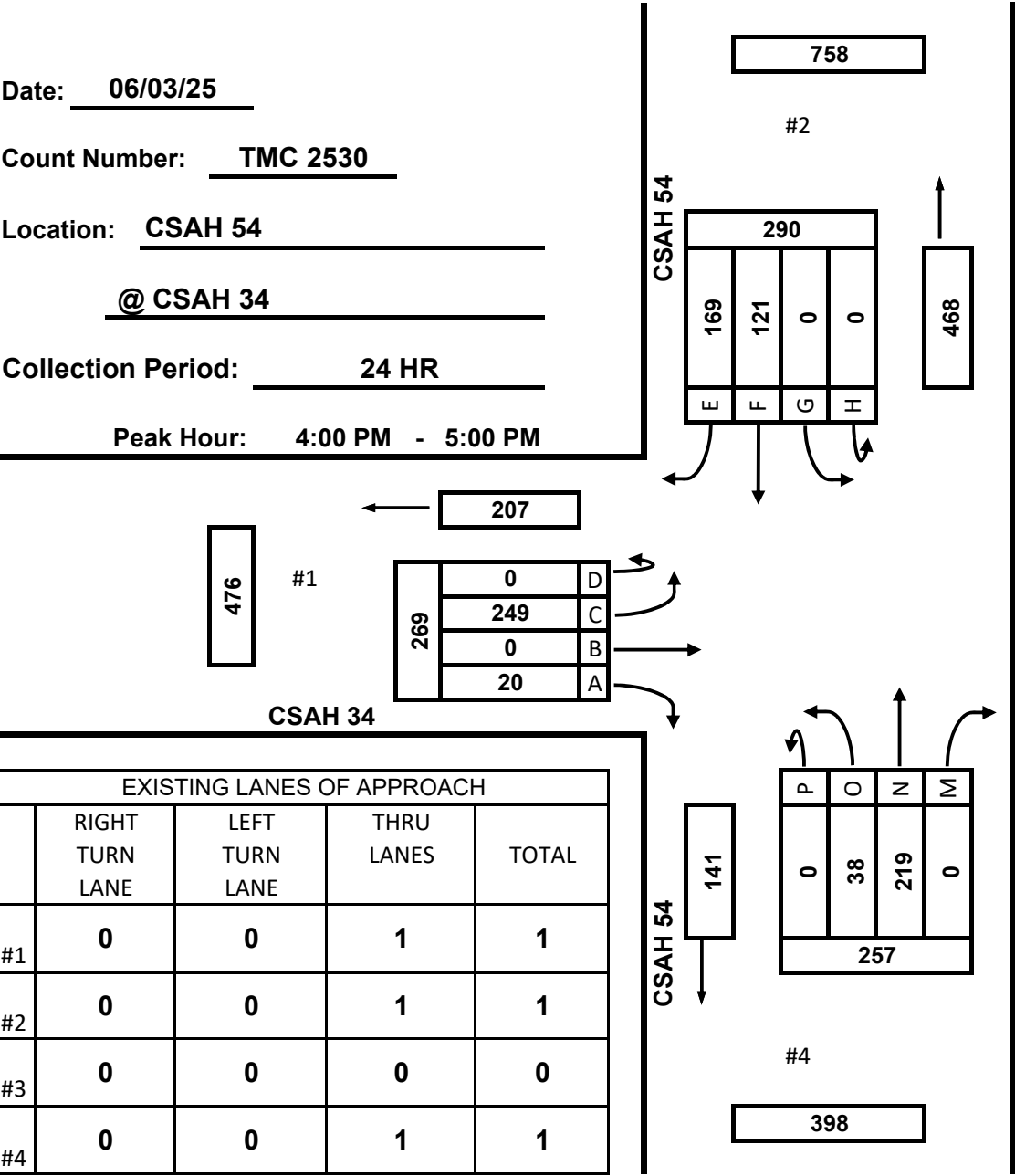
Collection Period: 24 HR

Peak Hour: 11:15 AM - 12:15 PM

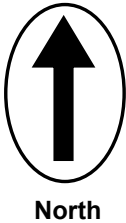


Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

Date: 06/03/25
 Count Number: TMC 2530
 Location: CSAH 54
@ CSAH 34
 Collection Period: 24 HR
 Peak Hour: 4:00 PM - 5:00 PM



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



Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

TMC 2530 - CSAH 54 @ CSAH 34
Lino Lakes MN
Tuesday, June 3, 2025

Time	Southbound CSAH 54						Westbound 0						Northbound CSAH 54						Eastbound CSAH 34						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	2	3	0	5	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	8
12:15 AM	0	0	1	3	0	4	0	0	0	0	0	0	0	0	5	0	0	5	0	2	0	1	0	3	12
12:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	7	0	0	7	0	1	0	0	0	1	9
12:45 AM	0	0	1	2	0	3	0	0	0	0	0	0	0	0	4	0	0	4	0	3	0	0	0	3	10
Hourly Total	0	0	4	9	0	13	0	0	0	0	0	0	0	0	18	0	0	18	0	6	0	2	0	8	39
1:00 AM	0	0	2	1	0	3	0	0	0	0	0	0	0	0	12	0	0	12	0	1	0	0	0	1	16
1:15 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	4	0	0	4	0	4	0	0	0	4	9
1:30 AM	0	0	3	1	0	4	0	0	0	0	0	0	0	0	5	0	0	5	0	1	0	0	0	1	10
1:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	4	0	1	0	0	0	1	7
Hourly Total	0	0	7	3	0	10	0	0	0	0	0	0	0	0	25	0	0	25	0	7	0	0	0	7	42
2:00 AM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	5
2:15 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	0	1	4
2:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	5	0	0	5	0	1	0	1	0	2	8
2:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	14
Hourly Total	0	0	2	3	0	5	0	0	0	0	0	0	0	0	20	0	0	20	0	5	0	1	0	6	31
3:00 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	14	0	0	14	0	5	0	1	0	6	21
3:15 AM	0	0	5	2	0	7	0	0	0	0	0	0	0	1	19	0	0	20	0	1	0	0	0	1	28
3:30 AM	0	0	2	2	0	4	0	0	0	0	0	0	0	0	16	0	0	16	0	2	0	0	0	2	22
3:45 AM	0	0	4	3	0	7	0	0	0	0	0	0	0	0	4	0	0	4	0	4	0	0	0	4	15
Hourly Total	0	0	11	8	0	19	0	0	0	0	0	0	0	1	53	0	0	54	0	12	0	1	0	13	86
4:00 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	1	0	0	1	0	3	0	0	0	3	11
4:15 AM	0	0	12	2	0	14	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	15
4:30 AM	0	0	16	1	0	17	0	0	0	0	0	0	0	0	3	0	0	3	0	3	0	0	0	3	23
4:45 AM	0	0	15	3	0	18	0	0	0	0	0	0	0	0	1	0	0	1	0	4	0	0	0	4	23
Hourly Total	0	0	50	6	0	56	0	0	0	0	0	0	0	0	6	0	0	6	0	10	0	0	0	10	72
5:00 AM	0	0	7	1	0	8	0	0	0	0	0	0	0	0	1	0	0	1	0	4	0	0	0	4	13
5:15 AM	0	0	14	8	0	22	0	0	0	0	0	0	0	1	1	0	0	2	0	6	0	0	0	6	30
5:30 AM	0	0	34	9	0	43	0	0	0	0	0	0	0	0	3	0	0	3	0	10	0	0	0	10	56
5:45 AM	0	0	29	18	0	47	0	0	0	0	0	0	0	1	18	0	0	19	0	10	0	1	0	11	77
Hourly Total	0	0	84	36	0	120	0	0	0	0	0	0	0	2	23	0	0	25	0	30	0	1	0	31	176
6:00 AM	0	0	25	14	0	39	0	0	0	0	0	0	0	0	28	0	0	28	0	14	0	1	0	15	82
6:15 AM	0	0	24	20	0	44	0	0	0	0	0	0	0	0	22	0	0	22	0	21	0	0	0	21	87
6:30 AM	0	0	23	25	0	48	0	0	0	0	0	0	0	0	32	0	0	32	0	32	0	2	0	34	114
6:45 AM	0	0	36	13	0	49	0	0	0	0	0	0	0	1	24	0	0	25	0	18	0	4	0	22	96
Hourly Total	0	0	108	72	0	180	0	0	0	0	0	0	0	1	106	0	0	107	0	85	0	7	0	92	379
7:00 AM	0	0	50	31	0	81	0	0	0	0	0	0	0	0	14	0	0	14	0	33	0	2	0	35	130
7:15 AM	0	0	54	50	0	104	0	0	0	0	0	0	0	2	14	0	0	16	0	39	0	14	0	53	173
7:30 AM	0	0	43	41	0	84	0	0	0	0	0	0	0	0	20	0	0	20	0	34	0	13	0	47	151
7:45 AM	0	0	54	38	0	92	0	0	0	0	0	0	0	0	22	0	0	22	0	40	0	4	0	44	158
Hourly Total	0	0	201	160	0	361	0	0	0	0	0	0	0	2	70	0	0	72	0	146	0	33	0	179	612

TMC 2530 - CSAH 54 @ CSAH 34
Lino Lakes MN
Tuesday, June 3, 2025

Time	Southbound CSAH 54						Westbound 0						Northbound CSAH 54						Eastbound CSAH 34						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	0	50	41	0	91	0	0	0	0	0	0	0	1	23	0	0	24	0	28	0	9	0	37	152
8:15 AM	0	0	31	39	0	70	0	0	0	0	0	0	0	2	20	0	0	22	0	20	0	2	0	22	114
8:30 AM	0	0	31	36	0	67	0	0	0	0	0	0	0	1	18	0	0	19	0	29	0	5	0	34	120
8:45 AM	0	0	22	37	0	59	0	0	0	0	0	0	0	2	23	0	0	25	0	30	0	3	0	33	117
Hourly Total	0	0	134	153	0	287	0	0	0	0	0	0	0	6	84	0	0	90	0	107	0	19	0	126	503
9:00 AM	0	0	30	30	0	60	0	0	0	0	0	0	0	1	32	0	0	33	0	31	0	1	0	32	125
9:15 AM	0	0	12	22	0	34	0	0	0	0	0	0	0	1	27	0	0	28	0	33	0	3	0	36	98
9:30 AM	0	0	16	16	0	32	0	0	0	0	0	0	0	0	20	0	0	20	0	32	0	0	0	32	84
9:45 AM	0	0	23	24	0	47	0	0	0	0	0	0	0	0	23	0	0	23	0	33	0	4	0	37	107
Hourly Total	0	0	81	92	0	173	0	0	0	0	0	0	0	2	102	0	0	104	0	129	0	8	0	137	414
10:00 AM	0	0	19	19	0	38	0	0	0	0	0	0	0	0	10	0	0	10	0	29	0	1	0	30	78
10:15 AM	0	0	12	19	0	31	0	0	0	0	0	0	0	0	17	0	0	17	0	30	0	4	0	34	82
10:30 AM	0	0	10	17	0	27	0	0	0	0	0	0	0	1	23	0	0	24	0	19	0	0	0	19	70
10:45 AM	0	0	15	11	0	26	0	0	0	0	0	0	0	2	26	0	0	28	0	20	0	0	0	20	74
Hourly Total	0	0	56	66	0	122	0	0	0	0	0	0	0	3	76	0	0	79	0	98	0	5	0	103	304
11:00 AM	0	0	28	26	0	54	0	0	0	0	0	0	0	0	13	0	0	13	0	20	0	1	0	21	88
11:15 AM	0	0	12	22	0	34	0	0	0	0	0	0	0	0	14	0	0	14	0	23	0	6	0	29	77
11:30 AM	0	0	23	15	0	38	0	0	0	0	0	0	0	2	20	0	0	22	0	28	0	3	0	31	91
11:45 AM	0	0	18	38	0	56	0	0	0	0	0	0	0	0	8	0	0	8	0	26	0	1	0	27	91
Hourly Total	0	0	81	101	0	182	0	0	0	0	0	0	0	2	55	0	0	57	0	97	0	11	0	108	347
12:00 PM	0	0	25	31	0	56	0	0	0	0	0	0	0	0	22	0	0	22	0	23	0	1	0	24	102
12:15 PM	0	0	20	19	0	39	0	0	0	0	0	0	0	0	9	0	0	9	0	29	0	0	0	29	77
12:30 PM	0	0	19	28	0	47	0	0	0	0	0	0	0	2	18	0	0	20	0	20	0	2	0	22	89
12:45 PM	0	0	19	21	0	40	0	0	0	0	0	0	0	1	22	0	0	23	0	20	0	0	0	20	83
Hourly Total	0	0	83	99	0	182	0	0	0	0	0	0	0	3	71	0	0	74	0	92	0	3	0	95	351
1:00 PM	0	0	21	26	0	47	0	0	0	0	0	0	0	2	17	0	0	19	0	17	0	1	0	18	84
1:15 PM	0	0	20	15	0	35	0	0	0	0	0	0	0	2	16	0	0	18	0	19	0	1	0	20	73
1:30 PM	0	0	25	25	0	50	0	0	0	0	0	0	0	2	26	0	0	28	0	14	0	1	0	15	93
1:45 PM	0	0	19	24	0	43	0	0	0	0	0	0	0	2	10	0	0	12	0	20	0	2	0	22	77
Hourly Total	0	0	85	90	0	175	0	0	0	0	0	0	0	8	69	0	0	77	0	70	0	5	0	75	327
2:00 PM	0	0	24	23	0	47	0	0	0	0	0	0	0	3	18	0	0	21	0	32	0	2	0	34	102
2:15 PM	0	0	14	24	0	38	0	0	0	0	0	0	0	2	30	0	0	32	0	28	0	0	0	28	98
2:30 PM	0	0	16	34	0	50	0	0	0	0	0	0	0	2	55	0	0	57	0	26	0	2	0	28	135
2:45 PM	0	0	20	24	0	44	0	0	0	0	0	0	0	1	30	0	0	31	0	36	0	1	0	37	112
Hourly Total	0	0	74	105	0	179	0	0	0	0	0	0	0	8	133	0	0	141	0	122	0	5	0	127	447
3:00 PM	0	0	31	27	0	58	0	0	0	0	0	0	0	10	30	0	0	40	0	46	0	3	0	49	147
3:15 PM	0	0	21	36	0	57	0	0	0	0	0	0	0	7	36	0	0	43	0	51	0	2	0	53	153
3:30 PM	0	0	22	28	0	50	0	0	0	0	0	0	0	3	61	0	0	64	0	59	0	3	0	62	176
3:45 PM	0	0	25	32	0	57	0	0	0	0	0	0	0	11	47	0	0	58	0	53	0	3	0	56	171
Hourly Total	0	0	99	123	0	222	0	0	0	0	0	0	0	31	174	0	0	205	0	209	0	11	0	220	647

TMC 2530 - CSAH 54 @ CSAH 34
Lino Lakes MN
Tuesday, June 3, 2025

Time	Southbound CSAH 54						Westbound 0						Northbound CSAH 54						Eastbound CSAH 34						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	0	29	41	0	70	0	0	0	0	0	0	0	4	60	0	0	64	0	65	0	3	0	68	202
4:15 PM	0	0	25	42	0	67	0	0	0	0	0	0	0	14	54	0	0	68	0	55	0	3	0	58	193
4:30 PM	0	0	34	37	0	71	0	0	0	0	0	0	0	15	54	0	0	69	0	53	0	2	0	55	195
4:45 PM	0	0	33	49	0	82	0	0	0	0	0	0	0	5	51	0	0	56	0	76	0	12	0	88	226
Hourly Total	0	0	121	169	0	290	0	0	0	0	0	0	0	38	219	0	0	257	0	249	0	20	0	269	816
5:00 PM	0	0	33	60	0	93	0	0	0	0	0	0	0	7	38	0	0	45	0	50	0	4	0	54	192
5:15 PM	0	0	34	47	0	81	0	0	0	0	0	0	0	4	43	0	0	47	0	52	0	3	0	55	183
5:30 PM	0	0	27	48	0	75	0	0	0	0	0	0	0	7	42	0	0	49	0	47	0	2	0	49	173
5:45 PM	0	0	28	36	0	64	0	0	0	0	0	0	0	11	30	0	0	41	0	46	0	0	0	46	151
Hourly Total	0	0	122	191	0	313	0	0	0	0	0	0	0	29	153	0	0	182	0	195	0	9	0	204	699
6:00 PM	0	0	24	32	0	56	0	0	0	0	0	0	0	4	26	0	0	30	0	38	0	1	0	39	125
6:15 PM	0	0	18	30	0	48	0	0	0	0	0	0	0	5	35	0	0	40	0	28	0	1	0	29	117
6:30 PM	0	0	18	27	0	45	0	0	0	0	0	0	0	5	23	0	0	28	0	29	0	4	0	33	106
6:45 PM	0	0	17	22	0	39	0	0	0	0	0	0	0	1	45	0	0	46	0	31	0	3	0	34	119
Hourly Total	0	0	77	111	0	188	0	0	0	0	0	0	0	15	129	0	0	144	0	126	0	9	0	135	467
7:00 PM	0	0	16	26	0	42	0	0	0	0	0	0	0	0	35	0	0	35	0	22	0	3	0	25	102
7:15 PM	0	0	21	26	0	47	0	0	0	0	0	0	0	0	32	0	0	32	0	27	0	1	0	28	107
7:30 PM	0	0	15	27	0	42	0	0	0	0	0	0	0	1	25	0	0	26	0	25	0	1	0	26	94
7:45 PM	0	0	11	21	0	32	0	0	0	0	0	0	0	2	27	0	0	29	0	23	0	0	0	23	84
Hourly Total	0	0	63	100	0	163	0	0	0	0	0	0	0	3	119	0	0	122	0	97	0	5	0	102	387
8:00 PM	0	0	12	28	0	40	0	0	0	0	0	0	0	5	23	0	0	28	0	23	0	1	0	24	92
8:15 PM	0	0	8	18	0	26	0	0	0	0	0	0	0	1	22	0	0	23	0	20	0	1	0	21	70
8:30 PM	0	0	9	23	0	32	0	0	0	0	0	0	0	1	30	0	0	31	0	25	0	1	0	26	89
8:45 PM	0	0	9	15	0	24	0	0	0	0	0	0	0	2	19	0	0	21	0	38	0	2	0	40	85
Hourly Total	0	0	38	84	0	122	0	0	0	0	0	0	0	9	94	0	0	103	0	106	0	5	0	111	336
9:00 PM	0	0	6	18	0	24	0	0	0	0	0	0	0	0	18	0	0	18	0	16	0	2	0	18	60
9:15 PM	0	0	14	9	0	23	0	0	0	0	0	0	0	1	23	0	0	24	0	8	0	0	0	8	55
9:30 PM	0	0	7	13	0	20	0	0	0	0	0	0	0	1	7	0	0	8	0	12	0	0	0	12	40
9:45 PM	0	0	3	7	0	10	0	0	0	0	0	0	0	0	9	0	0	9	0	7	0	0	0	7	26
Hourly Total	0	0	30	47	0	77	0	0	0	0	0	0	0	2	57	0	0	59	0	43	0	2	0	45	181
10:00 PM	0	0	4	6	0	10	0	0	0	0	0	0	0	3	6	0	0	9	0	10	0	0	0	10	29
10:15 PM	0	0	0	6	0	6	0	0	0	0	0	0	0	1	4	0	0	5	0	2	0	1	0	3	14
10:30 PM	0	0	4	5	0	9	0	0	0	0	0	0	0	0	9	0	0	9	0	7	0	1	0	8	26
10:45 PM	0	0	1	4	0	5	0	0	0	0	0	0	0	0	4	0	0	4	0	1	0	0	0	1	10
Hourly Total	0	0	9	21	0	30	0	0	0	0	0	0	0	4	23	0	0	27	0	20	0	2	0	22	79
11:00 PM	0	0	1	3	0	4	0	0	0	0	0	0	0	2	0	0	0	2	0	1	0	0	0	1	7
11:15 PM	0	0	0	6	0	6	0	0	0	0	0	0	0	2	4	0	0	6	0	0	0	0	0	0	12
11:30 PM	0	0	2	3	0	5	0	0	0	0	0	0	0	0	3	0	0	3	0	2	0	0	0	2	10
11:45 PM	0	0	2	4	0	6	0	0	0	0	0	0	0	0	10	0	0	10	0	6	0	0	0	6	22
Hourly Total	0	0	5	16	0	21	0	0	0	0	0	0	0	4	17	0	0	21	0	9	0	0	0	9	51
DAILY TOTAL	0	0	1625	1865	0	3490	0	0	0	0	0	0	0	173	1896	0	0	2069	0	2070	0	164	0	2234	7793
Cars	0	0	1585	1793	0	3378	0	0	0	0	0	0	0	168	1840	0	0	2008	0	2001	0	158	0	2159	7545
Heavy Vehicles	0	0	40	72	0	112	0	0	0	0	0	0	0	5	56	0	0	61	0	69	0	6	0	75	248
Heavy Vehicle %	0.00%	0.00%	2.46%	3.86%	0.00%	3.21%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.89%	2.95%	0.00%	0.00%	2.95%	0.00%	3.33%	0.00%	3.66%	0.00%	3.36%	3.18%

TMC 2530 - CSAH 54 @ CSAH 34
Lino Lakes MN
Tuesday, June 3, 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	
7:15 AM	0	0	54	50	0	104	0	0	0	0	0	0	0	2	14	0	0	16	0	39	0	14	0	53	173
7:30 AM	0	0	43	41	0	84	0	0	0	0	0	0	0	0	20	0	0	20	0	34	0	13	0	47	151
7:45 AM	0	0	54	38	0	92	0	0	0	0	0	0	0	0	22	0	0	22	0	40	0	4	0	44	158
8:00 AM	0	0	50	41	0	91	0	0	0	0	0	0	0	1	23	0	0	24	0	28	0	9	0	37	152
Peak Hour Total	0	0	201	170	0	371	0	0	0	0	0	0	0	3	79	0	0	82	0	141	0	40	0	181	634
Peak Hour Heavy Vehicles	0	0	8	9	0	17	0	0	0	0	0	0	0	1	4	0	0	5	0	2	0	1	0	3	25
Peak Hour Heavy Vehicles PHF	0.00%	0.00%	3.98%	5.29%	0.00%	4.58%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	5.06%	0.00%	0.00%	6.10%	0.00%	1.42%	0.00%	2.50%	0.00%	1.66%	3.94%
	0.000	0.000	0.931	0.850	0.000	0.892	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.375	0.859	0.000	0.000	0.854	0.000	0.881	0.000	0.714	0.000	0.854	0.916

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	
11:15 AM	0	0	12	22	0	34	0	0	0	0	0	0	0	0	14	0	0	14	0	23	0	6	0	29	77
11:30 AM	0	0	23	15	0	38	0	0	0	0	0	0	0	2	20	0	0	22	0	28	0	3	0	31	91
11:45 AM	0	0	18	38	0	56	0	0	0	0	0	0	0	0	8	0	0	8	0	26	0	1	0	27	91
12:00 PM	0	0	25	31	0	56	0	0	0	0	0	0	0	0	22	0	0	22	0	23	0	1	0	24	102
Peak Hour Total	0	0	78	106	0	184	0	0	0	0	0	0	0	2	64	0	0	66	0	100	0	11	0	111	361
Peak Hour Heavy Vehicles	0	0	3	7	0	10	0	0	0	0	0	0	0	0	6	0	0	6	0	3	0	0	0	3	19
Peak Hour Heavy Vehicles PHF	0.00%	0.00%	3.85%	6.60%	0.00%	5.43%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	9.38%	0.00%	0.00%	9.09%	0.00%	3.00%	0.00%	0.00%	0.00%	2.70%	5.26%
	0.000	0.000	0.780	0.697	0.000	0.821	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.727	0.000	0.000	0.750	0.000	0.893	0.000	0.458	0.000	0.895	0.885

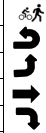
PM Peak Hour (14:00 - 24:00)

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	
4:00 PM	0	0	29	41	0	70	0	0	0	0	0	0	0	4	60	0	0	64	0	65	0	3	0	68	202
4:15 PM	0	0	25	42	0	67	0	0	0	0	0	0	0	14	54	0	0	68	0	55	0	3	0	58	193
4:30 PM	0	0	34	37	0	71	0	0	0	0	0	0	0	15	54	0	0	69	0	53	0	2	0	55	195
4:45 PM	0	0	33	49	0	82	0	0	0	0	0	0	0	5	51	0	0	56	0	76	0	12	0	88	226
Peak Hour Total	0	0	121	169	0	290	0	0	0	0	0	0	0	38	219	0	0	257	0	249	0	20	0	269	816
Peak Hour Heavy Vehicles	0	0	2	8	0	10	0	0	0	0	0	0	0	0	12	0	0	12	0	4	0	1	0	5	27
Peak Hour Heavy Vehicles PHF	0.00%	0.00%	1.65%	4.73%	0.00%	3.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.48%	0.00%	0.00%	4.67%	0.00%	1.61%	0.00%	5.00%	0.00%	1.86%	3.31%
	0.000	0.000	0.890	0.862	0.000	0.884	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.633	0.913	0.000	0.000	0.931	0.000	0.819	0.000	0.417	0.000	0.764	0.903

Total Vehicles On Leg			7456		
Vehicles Entering Intersection 3490			Vehicles Exiting Intersection 3966		
Southbound					
Cars	1793	1585	0	0	0
Heavy	72	40	0	0	0
Total	1865	1625	0	0	0

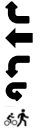


Total Vehicles on Leg 4272	Entering Intersection 2234	Eastbound	Cars	Heavy	Total
			0	0	0
			0	0	0
	Exiting Intersection 2038		2001	69	2070
			0	0	0
			158	6	164



Daily Volumes

Cars	Heavy	Total	Westbound	Entering Intersection 0	Total Vehicles on Leg 0
0	0	0			
0	0	0			
0	0	0		Exiting Intersection 0	
0	0	0			
0	0	0			



Cars	0	0	168	1840	0
Heavy	0	0	5	56	0
Total	0	0	173	1896	0
Northbound					
Vehicles Entering Intersection 2069			Vehicles Exiting Intersection 1789		
Total Vehicles On Leg			3858		



TMC 2530 - CSAH 54 @ CSAH 34
Lino Lakes MN
Tuesday, June 3, 2025

Time	Southbound Heavy CSAH 54						Westbound Heavy 0						Northbound Heavy CSAH 54						Eastbound Heavy CSAH 34						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	1	0	0	1	0	0	0	0	0	0	1
1:45 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	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00 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
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	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 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
4:00 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
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	0	1	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	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:00 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
5:15 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
5:30 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
5:45 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
6:00 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
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
6:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	5
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	0	0	0	0	0	0	0	6	0	0	6	0	1	0	0	0	1	8
7:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2
7:15 AM	0	0	0	6	0	6	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	8
7:30 AM	0	0	3	1	0	4	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	6
7:45 AM	0	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	6
Hourly 'Heavy Vehicles'	0	0	8	8	0	16	0	0	0	0	0	0	0	1	2	0	0	3	0	2	0	1	0	3	22

TMC 2530 - CSAH 54 @ CSAH 34

Lino Lakes MN

Tuesday, June 3, 2025

Time	Southbound Heavy CSAH 54						Westbound Heavy 0						Northbound Heavy CSAH 54						Eastbound Heavy CSAH 34						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	0	1	1	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	0	1	5
8:15 AM	0	0	0	3	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	0	1	6
8:30 AM	0	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	0	6	10
8:45 AM	0	0	2	2	0	4	0	0	0	0	0	0	0	0	4	0	0	4	0	1	0	0	0	1	9
Hourly 'Heavy Vehicles'	0	0	5	8	0	13	0	0	0	0	0	0	0	0	8	0	0	8	0	8	0	1	0	9	30
9:00 AM	0	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	6
9:15 AM	0	0	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	3	6
9:30 AM	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3
9:45 AM	0	0	1	2	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	5	6	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1	0	7	18
10:00 AM	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	6
10:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	4	5
10:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
10:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	3	0	0	4	0	2	0	0	0	2	7
Hourly 'Heavy Vehicles'	0	0	2	4	0	6	0	0	0	0	0	0	0	1	4	0	0	5	0	8	0	1	0	9	20
11:00 AM	0	0	3	2	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	2	8
11:15 AM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	3	0	0	3	0	2	0	0	0	2	7
11:30 AM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	4
11:45 AM	0	0	1	4	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	6
Hourly 'Heavy Vehicles'	0	0	6	8	0	14	0	0	0	0	0	0	0	0	6	0	0	6	0	5	0	0	0	5	25
12:00 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	2	3
12:30 PM	0	0	2	4	0	6	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	8
12:45 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
Hourly 'Heavy Vehicles'	0	0	2	6	0	8	0	0	0	0	0	0	0	0	3	0	0	3	0	4	0	0	0	4	15
1:00 PM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3
1:15 PM	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
1:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
1:45 PM	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	6
Hourly 'Heavy Vehicles'	0	0	3	4	0	7	0	0	0	0	0	0	0	0	1	0	0	1	0	5	0	0	0	5	13
2:00 PM	0	0	1	4	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	7
2:15 PM	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	6
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	1	0	2	5
2:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	4	0	0	0	4	6
Hourly 'Heavy Vehicles'	0	0	2	9	0	11	0	0	0	0	0	0	0	0	5	0	0	5	0	7	0	1	0	8	24
3:00 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3:15 PM	0	0	0	3	0	3	0	0	0	0	0	0	0	0	3	0	0	3	0	4	0	0	0	4	10
3:30 PM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	6
3:45 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	3
Hourly 'Heavy Vehicles'	0	0	1	6	0	7	0	0	0	0	0	0	0	0	4	0	0	4	0	9	0	0	0	9	20

TMC 2530 - CSAH 54 @ CSAH 34
Lino Lakes MN
Tuesday, June 3, 2025

Time	Southbound Heavy CSAH 54						Westbound Heavy 0						Northbound Heavy CSAH 54						Eastbound Heavy CSAH 34						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'		
4:00 PM	0	0	1	4	0	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	0	0	0	12	
4:15 PM	0	0	1	2	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	6	
4:30 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	4	
4:45 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	1	5	
Hourly 'Heavy Vehicles'	0	0	2	8	0	10	0	0	0	0	0	0	0	0	12	0	0	0	12	0	4	0	1	0	5	27
5:00 PM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	4
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	0	0	0	3	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	2	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1	2
Hourly 'Heavy Vehicles'	0	0	1	1	0	2	0	0	0	0	0	0	0	1	3	0	0	0	4	0	7	0	0	0	7	13
6:00 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	3
6:15 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	0	1
6:30 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	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Hourly 'Heavy Vehicles'	0	0	1	1	0	2	0	0	0	0	0	0	0	2	0	0	0	0	2	0	1	0	0	0	1	5
7:00 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	0
7:15 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	0
7:30 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	0	1
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	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	0	1	0	0	0	0	0	0	2
8:00 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	0
8:15 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	0	1
8:30 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	0
8:45 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	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
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	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	0
9:30 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	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
10:00 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	0
10:15 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	0
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	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	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	0
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	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	0
11:30 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	0
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
DAILY 'Heavy Vehicles'	0	0	40	72	0	112	0	0	0	0	0	0	0	5	56	0	0	61	0	69	0	6	0	75	248	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2530

Study Date : 06/09/2025

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 54

Number of Lanes : 1

Total Approach Volume: 2,069

Southbound: CSAH 54

Number of Lanes : 1

Total Approach Volume: 3,490

Minor Street Approaches

Eastbound: CSAH 34

Number of Lanes : 1

Total Approach Volume: 2,234

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 6 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 9 hours, 8 are needed

Required 1B volumes reached for 4 hours, 8 are needed

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

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

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (8) 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 2530

Study Date : 06/09/2025

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

Only 6 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **1**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **350**

Veh/Hr Minor = **105**

Major Road						Minor Road			
CSAH 54						CSAH 34			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:15 - 17:15	238	+	313	=	551	255	0	Yes	
15:15 - 16:15	229	+	234	=	463	239	0	Yes	
17:15 - 18:15	167	+	276	=	443	189	0	Yes	
07:30 - 08:30	88	+	337	=	425	150	0	Yes	
06:30 - 07:30	87	+	282	=	369	144	0	Yes	
14:15 - 15:15	160	+	190	=	350	142	0	Yes	
08:30 - 09:30	105	+	220	=	325	135	0	No	
18:15 - 19:15	149	+	174	=	323	121	0	No	
14:00 - 15:00	141	+	179	=	320	127	0	No	
06:15 - 07:15	93	+	222	=	315	112	0	No	
18:30 - 19:30	141	+	173	=	314	120	0	No	
18:45 - 19:45	139	+	170	=	309	113	0	No	
13:45 - 14:45	122	+	178	=	300	112	0	No	
08:45 - 09:45	106	+	185	=	291	133	0	No	
06:00 - 07:00	107	+	180	=	287	92	0	No	
19:00 - 20:00	122	+	163	=	285	102	0	No	
05:45 - 06:45	101	+	178	=	279	81	0	No	
09:00 - 10:00	104	+	173	=	277	137	0	No	
19:15 - 20:15	115	+	161	=	276	101	0	No	
13:30 - 14:30	93	+	178	=	271	99	0	No	
12:45 - 13:45	88	+	172	=	260	73	0	No	
11:45 - 12:45	59	+	198	=	257	102	0	No	
12:00 - 13:00	74	+	182	=	256	95	0	No	
13:15 - 14:15	79	+	175	=	254	91	0	No	
13:00 - 14:00	77		175		252	75	0	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2530

Study Date : 06/09/2025

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

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

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **1**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **525**

Veh/Hr Minor = **52**

Major Road						Minor Road			
CSAH 54						CSAH 34			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:00 - 17:00	257	+	290	=	547	269	0	Yes	
15:45 - 16:45	259	+	265	=	524	237	0	No	
15:30 - 16:30	254	+	244	=	498	244	0	No	
17:00 - 18:00	182	+	313	=	495	204	0	No	
15:15 - 16:15	229	+	234	=	463	239	0	No	
07:15 - 08:15	82	+	371	=	453	181	0	No	
17:15 - 18:15	167	+	276	=	443	189	0	No	
07:00 - 08:00	72	+	361	=	433	179	0	No	
15:00 - 16:00	205	+	222	=	427	220	0	No	
07:30 - 08:30	88	+	337	=	425	150	0	No	
07:45 - 08:45	87	+	320	=	407	137	0	No	
17:30 - 18:30	160	+	243	=	403	163	0	No	
06:45 - 07:45	75	+	318	=	393	157	0	No	
14:45 - 15:45	178	+	209	=	387	201	0	No	
14:30 - 15:30	171	+	209	=	380	167	0	No	
08:00 - 09:00	90	+	287	=	377	126	0	No	
06:30 - 07:30	87	+	282	=	369	144	0	No	
08:15 - 09:15	99	+	256	=	355	121	0	No	
17:45 - 18:45	139	+	213	=	352	147	0	No	
14:15 - 15:15	160	+	190	=	350	142	0	No	
18:00 - 19:00	144	+	188	=	332	135	0	No	
08:30 - 09:30	105	+	220	=	325	135	0	No	
18:15 - 19:15	149	+	174	=	323	121	0	No	
14:00 - 15:00	141	+	179	=	320	127	0	No	
06:15 - 07:15	93		222		315	112	0	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2530

Study Date : 06/09/2025

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

9 hours meet 1A minimums.
Only 4 hours meet 1B minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **1**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **280 420**

Veh/Hr Minor = **84 42**

Major Road						Minor Road				
CSAH 54						CSAH 34				
Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1A?
16:45 - 17:45	197	+	331	=	528	246		0		Yes
15:45 - 16:45	259	+	265	=	524	237		0		Yes
07:00 - 08:00	72	+	361	=	433	179		0		Yes
14:45 - 15:45	178	+	209	=	387	201		0		Yes
08:00 - 09:00	90	+	287	=	377	126		0		Yes
17:45 - 18:45	139	+	213	=	352	147		0		Yes
18:45 - 19:45	139	+	170	=	309	113		0		Yes
13:45 - 14:45	122	+	178	=	300	112		0		Yes
06:00 - 07:00	107	+	180	=	287	92		0		Yes
05:45 - 06:45	101	+	178	=	279	81		0		No
09:00 - 10:00	104	+	173	=	277	137		0		No
13:30 - 14:30	93		178		271	99		0		No

Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1B?
16:00 - 17:00	257	+	290	=	547	269		0		Yes
17:00 - 18:00	182	+	313	=	495	204		0		Yes
07:00 - 08:00	72	+	361	=	433	179		0		Yes
15:00 - 16:00	205	+	222	=	427	220		0		Yes
06:45 - 07:45	75	+	318	=	393	157		0		No
14:45 - 15:45	178	+	209	=	387	201		0		No
14:30 - 15:30	171	+	209	=	380	167		0		No
08:00 - 09:00	90	+	287	=	377	126		0		No
06:30 - 07:30	87	+	282	=	369	144		0		No
08:15 - 09:15	99	+	256	=	355	121		0		No
14:15 - 15:15	160	+	190	=	350	142		0		No
18:00 - 19:00	144		188		332	135		0		No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2530

Study Date : 06/09/2025

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.

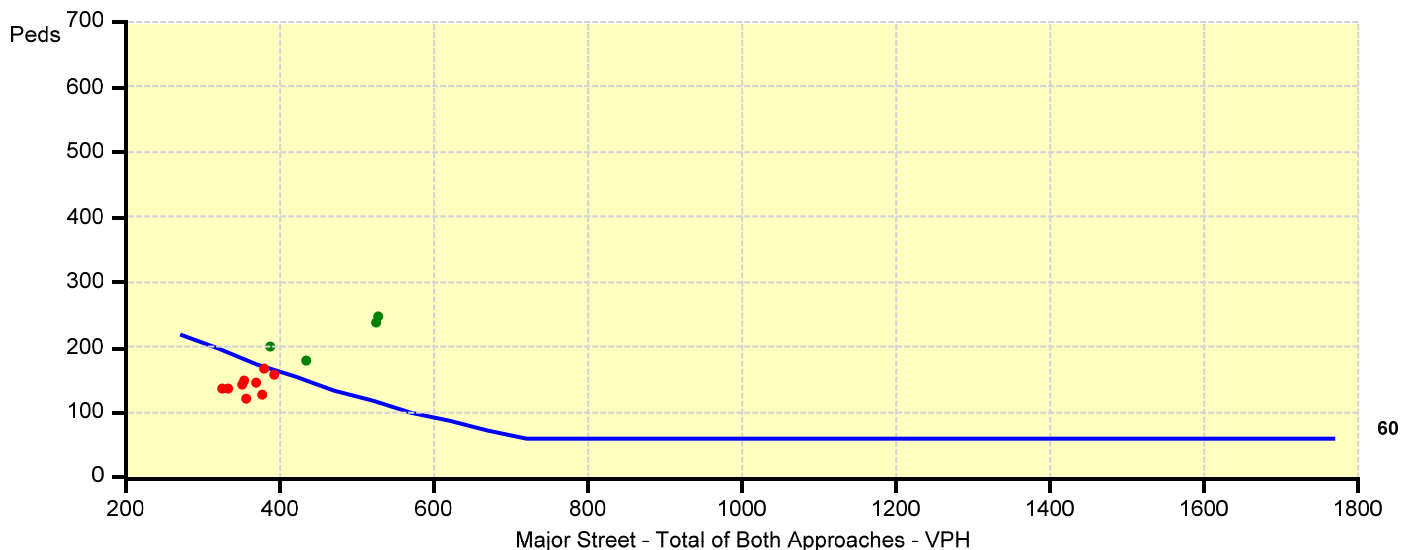
Summary

4 one hour periods meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **1**
Number of Minor Lanes = **1**

Major Road						Minor Road		
CSAH 54						CSAH 34		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:45 - 17:45	197	+	331	=	528	246	0	Yes
15:45 - 16:45	259	+	265	=	524	237	0	Yes
07:00 - 08:00	72	+	361	=	433	179	0	Yes
14:45 - 15:45	178	+	209	=	387	201	0	Yes
06:45 - 07:45	75	+	318	=	393	157	0	No
14:30 - 15:30	171	+	209	=	380	167	0	No
08:00 - 09:00	90	+	287	=	377	126	0	No
06:30 - 07:30	87	+	282	=	369	144	0	No
08:15 - 09:15	99	+	256	=	355	121	0	No
17:45 - 18:45	139	+	213	=	352	147	0	No
14:15 - 15:15	160	+	190	=	350	142	0	No
18:00 - 19:00	144	+	188	=	332	135	0	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2530

Study Date : 06/09/2025

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.

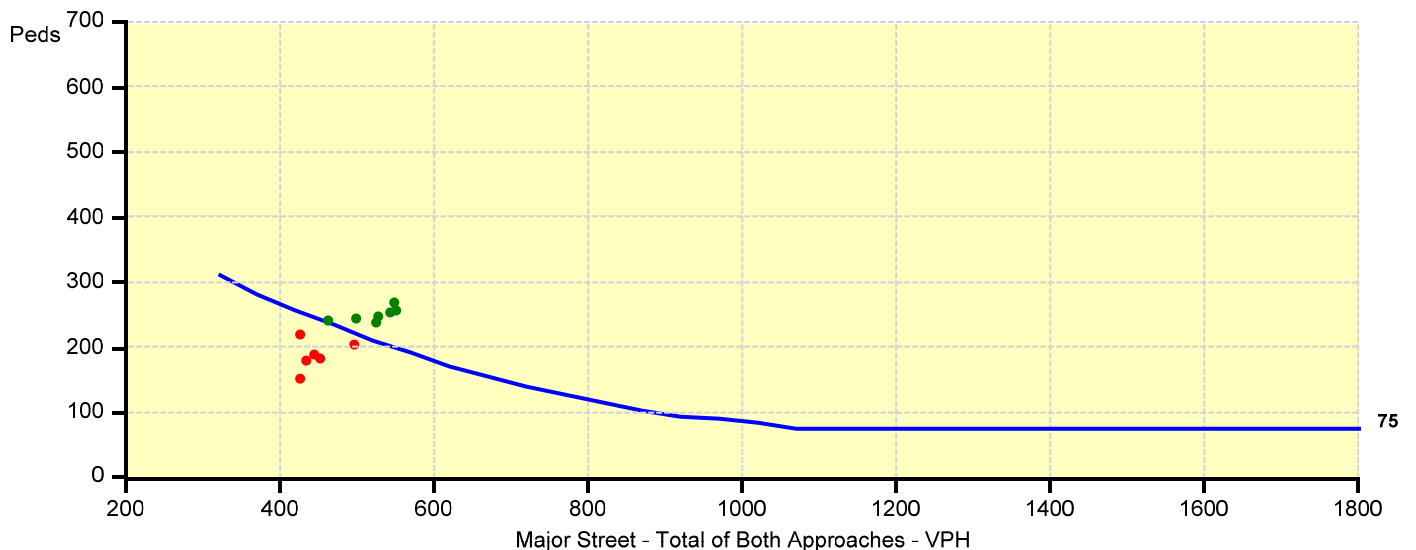
Summary

7 one hour periods meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **1**
Number of Minor Lanes = **1**

Major Road						Minor Road		
CSAH 54						CSAH 34		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:15 - 17:15	238	+	313	=	551	255	0	Yes
16:00 - 17:00	257	+	290	=	547	269	0	Yes
16:30 - 17:30	217	+	327	=	544	252	0	Yes
16:45 - 17:45	197	+	331	=	528	246	0	Yes
15:45 - 16:45	259	+	265	=	524	237	0	Yes
15:30 - 16:30	254	+	244	=	498	244	0	Yes
15:15 - 16:15	229	+	234	=	463	239	0	Yes
17:00 - 18:00	182	+	313	=	495	204	0	No
07:15 - 08:15	82	+	371	=	453	181	0	No
17:15 - 18:15	167	+	276	=	443	189	0	No
07:00 - 08:00	72	+	361	=	433	179	0	No
15:00 - 16:00	205	+	222	=	427	220	0	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2530

Study Date : 08/08/2025

Multiway Stop Warrants - Summary

Major Street Approaches

Northbound: CSAH 54

Number of Lanes : 1

Total Approach Volume: 2,069

Southbound: CSAH 54

Number of Lanes : 1

Total Approach Volume: 3,490

Minor Street Approaches

Eastbound: CSAH 34

Number of Lanes : 1

Total Approach Volume: 2,234

Westbound:

Number of Lanes : 2+

Total Approach Volume: 0

Warrant Summary (Rural Values Apply)

Criteria A - Interim Measure..... **Not Evaluated**
If traffic signals are justified, stop signals can be installed as an interim measure.

Criteria B - Crash Experience..... **Not Satisfied**
Number of crashes (-1) is less than minimum required (5).

Criteria C - Minimum Volumes and Delays..... **Satisfied**
Average of 8 highest hours meets or exceeds volume criteria.

Criteria D - 80% of Volumes, Delays, and Crashes..... **Not Satisfied**
Number of crashes (-1) is less than minimum required (4).
Average of 8 highest hours meets or exceeds volume criteria.

Criteria C Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
16:00 - 17:00	547	405.5	269	171.1	210	140	Yes
17:00 - 18:00	495		204				
15:00 - 16:00	427		220				
07:15 - 08:15	453		181				
08:15 - 09:15	355		121				
18:00 - 19:00	332		135				
14:00 - 15:00	320		127				
06:15 - 07:15	315		112				
19:00 - 20:00	285		102				
09:15 - 10:15	232		135				
11:15 - 12:15	250		111				
20:00 - 21:00	225		111				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
16:00 - 17:00	547	405.5	269	171.1	240	160	Yes
17:00 - 18:00	495		204				
15:00 - 16:00	427		220				
07:15 - 08:15	453		181				
08:15 - 09:15	355		121				
18:00 - 19:00	332		135				
14:00 - 15:00	320		127				
06:15 - 07:15	315		112				
19:00 - 20:00	285		102				
09:15 - 10:15	232		135				
11:15 - 12:15	250		111				
20:00 - 21:00	225		111				