

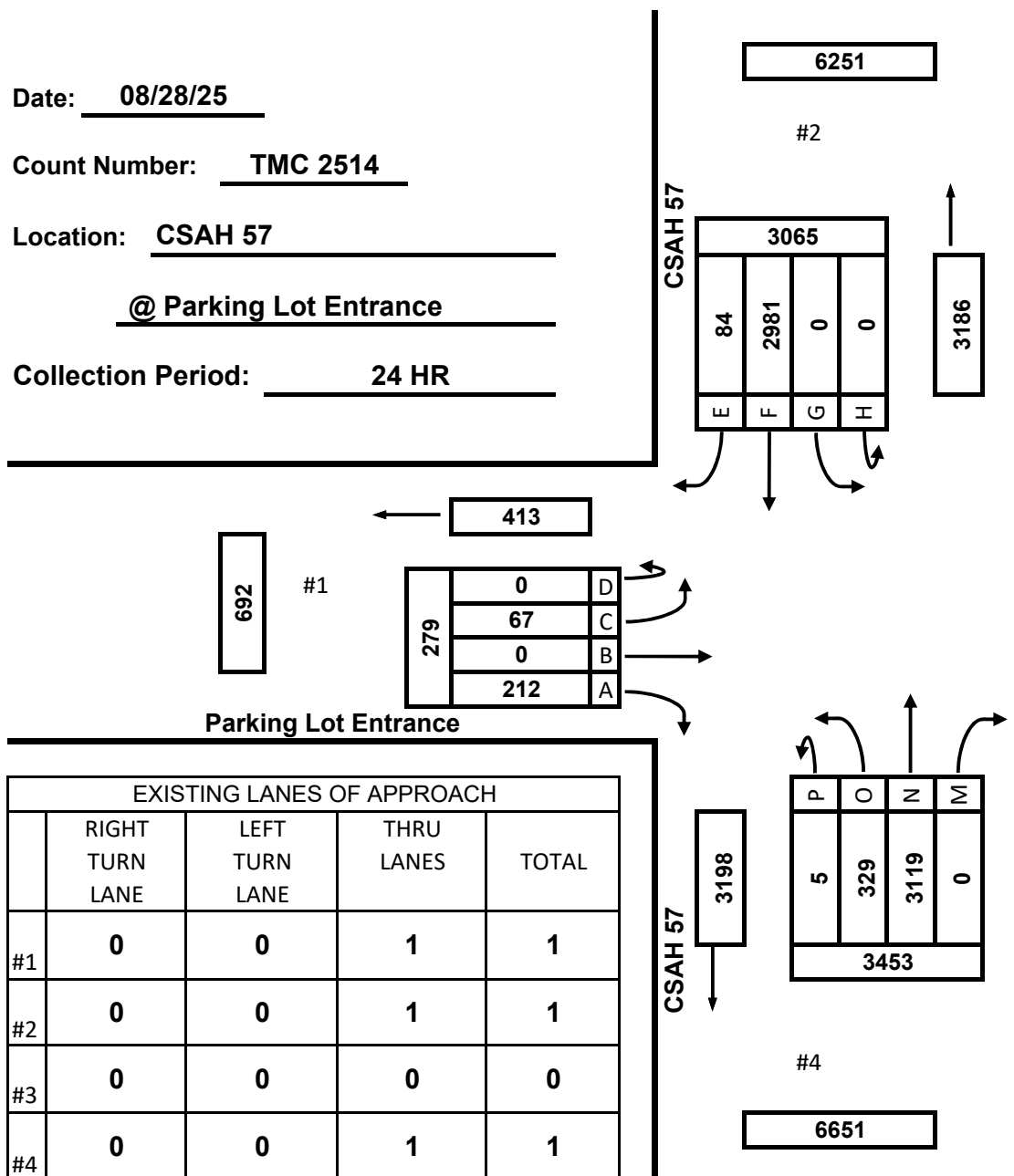
Date: 08/28/25

Count Number: TMC 2514

Location: CSAH 57

@ Parking Lot Entrance

Collection Period: 24 HR



Date: 08/28/25

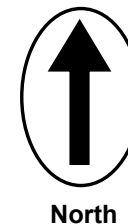
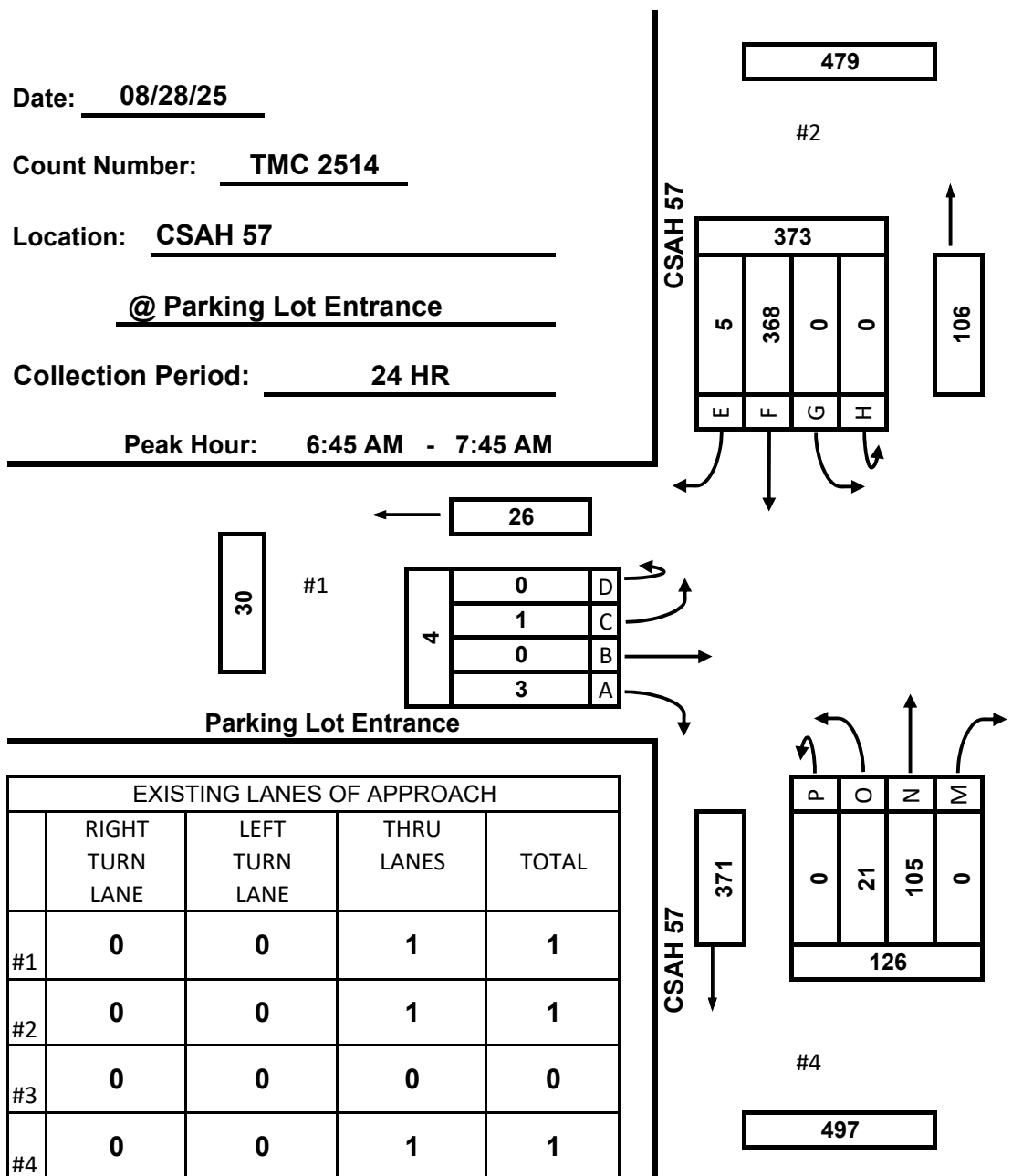
Count Number: TMC 2514

Location: CSAH 57

@ Parking Lot Entrance

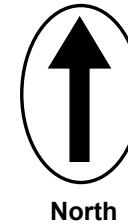
Collection Period: 24 HR

Peak Hour: 6:45 AM - 7:45 AM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

Peak Hour: 11:00 AM - 12:00 PM



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

Date: 08/28/25

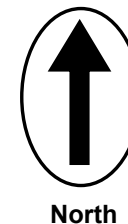
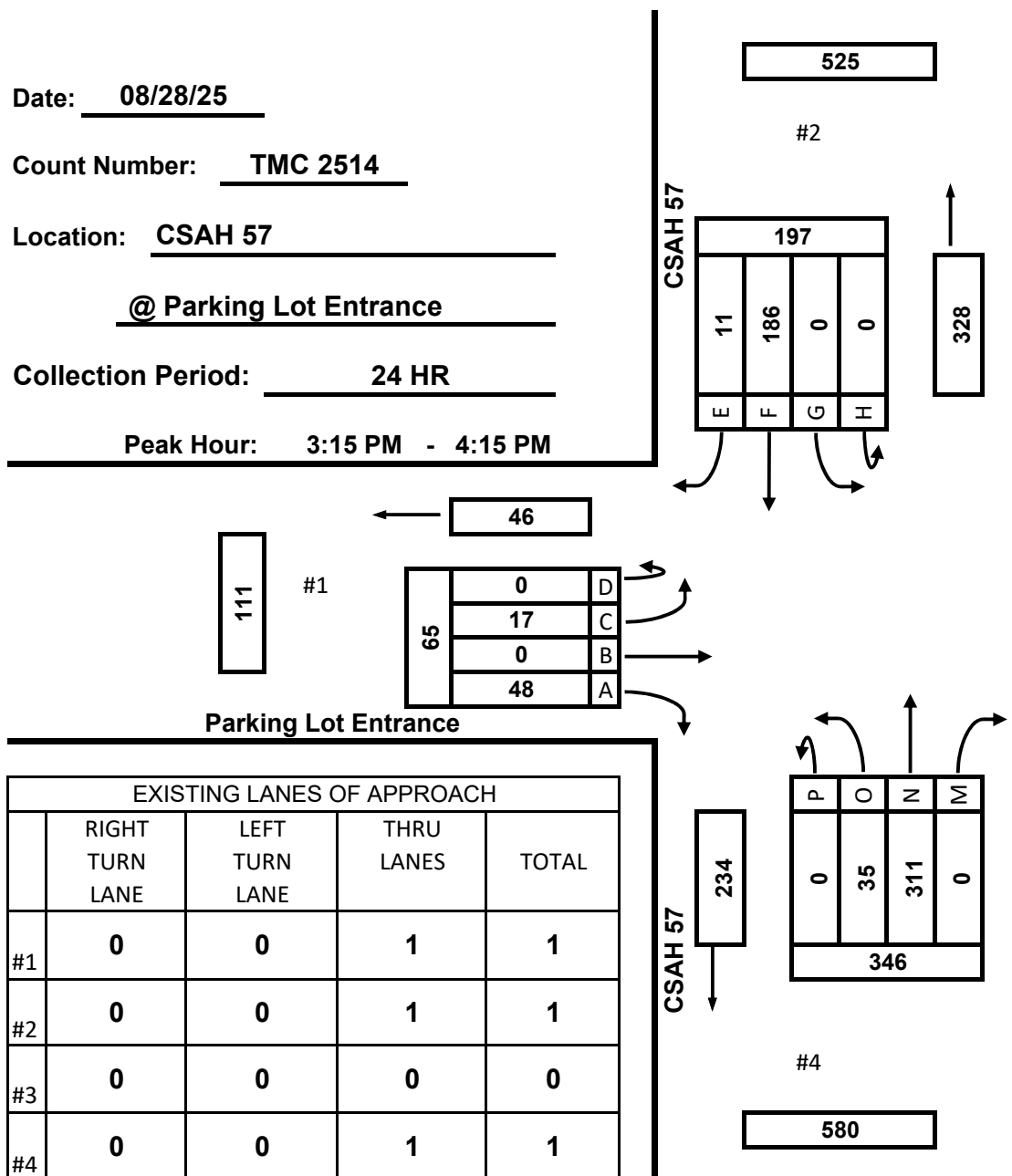
Count Number: TMC 2514

Location: CSAH 57

@ Parking Lot Entrance

Collection Period: 24 HR

Peak Hour: 3:15 PM - 4:15 PM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

TMC 2514 - CSAH 57 @ Parking Lot Entrance
Ramsey MN
Thursday, August 28, 2025

Time	Southbound CSAH 57						Westbound 0						Northbound CSAH 57						Eastbound Parking Lot						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	1	0	0	1	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	3	0	3	13
12:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	8
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	1	5
12:45 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	7	0	0	7	0	1	0	0	0	1	13
Hourly Total	0	0	8	0	0	8	0	0	0	0	0	0	0	0	26	0	0	26	0	1	0	4	0	5	39
1:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	7
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	1	0	1	4
1:30 AM	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
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	2	0	2	5
Hourly Total	0	0	4	0	0	4	0	0	0	0	0	0	0	2	9	0	0	11	0	0	0	3	0	3	18
2:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	2	3	0	0	5	0	11	0	44	0	55	61
2:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	3	0	3	8
2:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	1	0	2	7
2:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2	0	2	6
Hourly Total	0	0	7	0	0	7	0	0	0	0	0	0	0	2	11	0	0	13	0	12	0	50	0	62	82
3:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	2	0	2	6
3:15 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
3:30 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	6
3:45 AM	0	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Hourly Total	0	0	13	1	0	14	0	0	0	0	0	0	0	1	4	0	0	5	0	0	0	2	0	2	21
4:00 AM	0	0	11	0	0	11	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	14
4:15 AM	0	0	7	3	0	10	0	0	0	0	0	0	0	10	1	0	0	11	0	0	0	0	0	0	21
4:30 AM	0	0	13	7	0	20	0	0	0	0	0	0	0	20	2	0	0	22	0	0	0	0	0	0	42
4:45 AM	0	0	18	12	0	30	0	0	0	0	0	0	0	50	4	0	0	54	0	1	0	3	0	4	88
Hourly Total	0	0	49	22	0	71	0	0	0	0	0	0	0	83	7	0	0	90	0	1	0	3	0	4	165
5:00 AM	0	0	27	2	0	29	0	0	0	0	0	0	0	8	4	0	0	12	0	0	0	0	0	0	41
5:15 AM	0	0	32	1	0	33	0	0	0	0	0	0	0	4	6	0	0	10	0	0	0	0	0	0	43
5:30 AM	0	0	49	0	0	49	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	57
5:45 AM	0	0	56	4	0	60	0	0	0	0	0	0	0	1	22	0	0	23	0	0	0	0	0	0	83
Hourly Total	0	0	164	7	0	171	0	0	0	0	0	0	0	13	40	0	0	53	0	0	0	0	0	0	224
6:00 AM	0	0	46	1	0	47	0	0	0	0	0	0	0	4	13	0	0	17	0	0	0	0	0	0	64
6:15 AM	0	0	78	0	0	78	0	0	0	0	0	0	0	5	29	0	0	34	0	0	0	0	0	0	112
6:30 AM	0	0	91	0	0	91	0	0	0	0	0	0	0	5	17	0	0	22	0	0	0	0	0	0	113
6:45 AM	0	0	93	1	0	94	0	0	0	0	0	0	0	2	23	0	0	25	0	1	0	1	0	2	121
Hourly Total	0	0	308	2	0	310	0	0	0	0	0	0	0	16	82	0	0	98	0	1	0	1	0	2	410
7:00 AM	0	0	86	1	0	87	0	0	0	0	0	0	0	7	24	0	0	31	0	0	0	1	0	1	119
7:15 AM	0	0	101	1	0	102	0	0	0	0	0	0	0	6	27	0	0	33	0	0	0	1	0	1	136
7:30 AM	0	0	88	2	0	90	0	0	0	0	0	0	0	6	31	0	0	37	0	0	0	0	0	0	127
7:45 AM	0	0	56	2	0	58	0	0	0	0	0	0	0	5	27	0	0	32	0	0	0	1	0	1	91
Hourly Total	0	0	331	6	0	337	0	0	0	0	0	0	0	24	109	0	0	133	0	0	0	3	0	3	473

**TMC 2514 - CSAH 57 @ Parking Lot Entrance
Ramsey MN
Thursday, August 28, 2025**

Time	Southbound CSAH 57						Westbound 0						Northbound CSAH 57						Eastbound Parking Lot						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	55	0	0	55	0	0	0	0	0	0	0	10	35	0	0	45	0	0	0	1	0	1	101
8:15 AM	0	0	50	2	0	52	0	0	0	0	0	0	0	5	28	0	0	33	0	0	0	2	0	2	87
8:30 AM	0	0	62	0	0	62	0	0	0	0	0	0	0	2	20	0	0	22	0	0	0	1	0	1	85
8:45 AM	0	0	36	1	0	37	0	0	0	0	0	0	0	1	31	0	0	32	0	0	0	0	0	0	69
Hourly Total	0	0	203	3	0	206	0	0	0	0	0	0	0	18	114	0	0	132	0	0	0	4	0	4	342
9:00 AM	0	0	47	0	0	47	0	0	0	0	0	0	0	5	23	0	0	28	0	0	0	2	0	2	77
9:15 AM	0	0	52	0	0	52	0	0	0	0	0	0	0	1	31	0	0	32	0	1	0	0	0	1	85
9:30 AM	0	0	55	1	0	56	0	0	0	0	0	0	0	0	30	0	0	30	0	0	0	0	0	0	86
9:45 AM	0	0	37	0	0	37	0	0	0	0	0	0	0	2	26	0	0	28	0	1	0	1	0	2	67
Hourly Total	0	0	191	1	0	192	0	0	0	0	0	0	0	8	110	0	0	118	0	2	0	3	0	5	315
10:00 AM	0	0	36	0	0	36	0	0	0	0	0	0	0	1	20	0	0	21	0	1	0	3	0	4	61
10:15 AM	0	0	41	1	0	42	0	0	0	0	0	0	0	3	26	0	0	29	0	0	0	1	0	1	72
10:30 AM	0	0	39	0	0	39	0	0	0	0	0	0	0	3	28	0	0	31	0	1	0	2	0	3	73
10:45 AM	0	0	33	1	0	34	0	0	0	0	0	0	0	0	35	0	0	35	0	4	0	4	0	8	77
Hourly Total	0	0	149	2	0	151	0	0	0	0	0	0	0	7	109	0	0	116	0	6	0	10	0	16	283
11:00 AM	0	0	36	3	0	39	0	0	0	0	0	0	0	6	35	0	0	41	0	1	0	8	0	9	89
11:15 AM	0	0	43	2	0	45	0	0	0	0	0	0	0	7	44	0	0	51	0	2	0	0	0	2	98
11:30 AM	0	0	48	0	0	48	0	0	0	0	0	0	0	3	43	0	0	46	0	0	0	7	0	7	101
11:45 AM	0	0	31	1	0	32	0	0	0	0	0	0	0	4	43	0	0	47	0	0	0	0	0	0	79
Hourly Total	0	0	158	6	0	164	0	0	0	0	0	0	0	20	165	0	0	185	0	3	0	15	0	18	367
12:00 PM	0	0	35	0	1	35	0	0	0	0	0	0	1	7	46	0	0	54	0	0	0	0	0	0	89
12:15 PM	0	0	28	0	1	28	0	0	0	0	0	0	0	1	47	0	0	48	0	0	0	2	0	2	78
12:30 PM	0	0	31	0	0	31	0	0	0	0	0	0	0	0	31	0	0	31	0	2	0	0	0	2	64
12:45 PM	0	0	38	0	0	38	0	0	0	0	0	0	0	6	47	0	0	53	0	0	0	1	0	1	92
Hourly Total	0	0	132	0	2	132	0	0	0	0	0	0	1	14	171	0	0	186	0	2	0	3	0	5	323
1:00 PM	0	0	40	0	0	40	0	0	0	0	0	0	0	3	42	0	0	45	0	0	0	1	0	1	86
1:15 PM	0	0	37	0	1	37	0	0	0	0	0	0	0	5	48	0	0	53	0	0	0	2	0	2	92
1:30 PM	0	0	27	0	0	27	0	0	0	0	0	0	0	3	40	0	0	43	0	0	0	0	0	0	70
1:45 PM	0	0	39	1	0	40	0	0	0	0	0	0	0	3	36	0	0	39	0	1	0	2	1	3	82
Hourly Total	0	0	143	1	1	144	0	0	0	0	0	0	0	14	166	0	0	180	0	1	0	5	1	6	330
2:00 PM	0	0	50	0	0	50	0	0	0	0	0	0	0	2	36	0	0	38	0	0	0	0	0	0	88
2:15 PM	0	0	36	2	0	38	0	0	0	0	0	0	0	3	46	0	0	49	0	1	0	3	0	4	91
2:30 PM	0	0	30	2	0	32	0	0	0	0	0	0	0	6	49	0	0	55	0	3	0	2	0	5	92
2:45 PM	0	0	38	6	0	44	0	0	0	0	0	0	0	12	53	0	0	65	0	1	0	7	0	8	117
Hourly Total	0	0	154	10	0	164	0	0	0	0	0	0	0	23	184	0	0	207	0	5	0	12	0	17	388
3:00 PM	0	0	46	7	0	53	0	0	0	0	0	0	0	15	68	0	0	83	0	2	0	3	0	5	141
3:15 PM	0	0	47	9	0	56	0	0	0	0	0	0	0	28	70	0	0	98	0	0	0	2	0	2	156
3:30 PM	0	0	48	2	0	50	0	0	0	0	0	0	0	4	73	0	0	77	0	12	0	37	0	49	176
3:45 PM	0	0	36	0	0	36	0	0	0	0	0	0	0	2	75	0	0	77	0	5	0	5	0	10	123
Hourly Total	0	0	177	18	0	195	0	0	0	0	0	0	0	49	286	0	0	335	0	19	0	47	0	66	596

TMC 2514 - CSAH 57 @ Parking Lot Entrance
Ramsey MN
Thursday, August 28, 2025

Time	Southbound CSAH 57						Westbound 0						Northbound CSAH 57						Eastbound Parking Lot						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	55	0	0	55	0	0	0	0	0	0	0	1	93	0	0	94	0	0	0	4	0	4	153
4:15 PM	0	0	47	0	0	47	0	0	0	0	0	0	0	2	81	0	0	83	0	2	0	2	0	4	134
4:30 PM	0	0	65	0	0	65	0	0	0	0	0	0	0	0	90	0	0	90	0	0	0	4	0	4	159
4:45 PM	0	0	49	0	0	49	0	0	0	0	0	0	0	2	84	0	0	86	0	1	0	0	0	1	136
Hourly Total	0	0	216	0	0	216	0	0	0	0	0	0	0	5	348	0	0	353	0	3	0	10	0	13	582
5:00 PM	0	0	58	0	0	58	0	0	0	0	0	0	1	0	99	0	0	100	0	3	0	2	1	5	163
5:15 PM	0	0	48	0	0	48	0	0	0	0	0	0	0	1	76	0	0	77	0	0	0	4	0	4	129
5:30 PM	0	0	51	0	0	51	0	0	0	0	0	0	0	0	78	0	0	78	0	2	0	1	0	3	132
5:45 PM	0	0	27	0	0	27	0	0	0	0	0	0	0	1	70	0	0	71	0	1	0	1	0	2	100
Hourly Total	0	0	184	0	0	184	0	0	0	0	0	0	1	2	323	0	0	326	0	6	0	8	1	14	524
6:00 PM	0	0	34	1	0	35	0	0	0	0	0	0	0	0	61	0	0	61	0	2	0	1	0	3	99
6:15 PM	0	0	31	0	0	31	0	0	0	0	0	0	0	0	66	0	0	66	0	0	0	0	0	0	97
6:30 PM	0	0	32	1	0	33	0	0	0	0	0	0	0	1	52	0	0	53	0	1	0	2	0	3	89
6:45 PM	0	0	33	0	0	33	0	0	0	0	0	0	0	0	51	0	0	51	0	0	0	1	0	1	85
Hourly Total	0	0	130	2	0	132	0	0	0	0	0	0	0	1	230	0	0	231	0	3	0	4	0	7	370
7:00 PM	0	0	28	0	0	28	0	0	0	0	0	0	0	0	71	0	0	71	0	0	0	0	0	0	99
7:15 PM	0	0	29	0	0	29	0	0	0	0	0	0	0	1	47	0	0	48	0	0	0	1	0	1	78
7:30 PM	0	0	23	0	0	23	0	0	0	0	0	0	0	4	39	0	0	43	0	1	0	15	0	16	82
7:45 PM	0	0	16	2	0	18	0	0	0	0	0	0	0	11	38	0	0	49	0	0	0	1	0	1	68
Hourly Total	0	0	96	2	0	98	0	0	0	0	0	0	0	16	195	0	0	211	0	1	0	17	0	18	327
8:00 PM	0	0	16	0	0	16	0	0	0	0	0	0	0	4	46	0	0	50	0	0	0	0	0	0	66
8:15 PM	0	0	17	0	0	17	0	0	0	0	0	0	1	1	43	0	0	45	0	0	0	1	0	1	63
8:30 PM	0	0	25	0	0	25	0	0	0	0	0	0	1	2	41	0	0	44	0	0	0	1	0	1	70
8:45 PM	0	0	18	0	0	18	0	0	0	0	0	0	0	1	40	0	0	41	0	0	0	0	0	0	59
Hourly Total	0	0	76	0	0	76	0	0	0	0	0	0	2	8	170	0	0	180	0	0	0	2	0	2	258
9:00 PM	0	0	11	0	0	11	0	0	0	0	0	0	0	1	44	0	0	45	0	1	0	0	0	1	57
9:15 PM	0	0	11	0	0	11	0	0	0	0	0	0	0	0	33	0	0	33	0	0	0	0	0	0	44
9:30 PM	0	0	16	1	0	17	0	0	0	0	0	0	0	0	25	0	0	25	0	0	0	2	0	2	44
9:45 PM	0	0	11	0	0	11	0	0	0	0	0	0	0	1	22	0	0	23	0	0	0	0	0	0	34
Hourly Total	0	0	49	1	0	50	0	0	0	0	0	0	0	2	124	0	0	126	0	1	0	2	0	3	179
10:00 PM	0	0	9	0	0	9	0	0	0	0	0	0	1	0	19	0	0	20	0	0	0	1	0	1	30
10:15 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	1	23	0	0	24	0	0	0	1	0	1	32
10:30 PM	0	0	8	0	0	8	0	0	0	0	0	0	0	0	28	0	0	28	0	0	0	0	0	0	36
10:45 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	0	21
Hourly Total	0	0	29	0	0	29	0	0	0	0	0	0	1	1	86	0	0	88	0	0	0	2	0	2	119
11:00 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0	17
11:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0	13
11:30 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	1	0	1	18
11:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	1	0	1	14
Hourly Total	0	0	10	0	0	10	0	0	0	0	0	0	0	0	50	0	0	50	0	0	0	2	0	2	62
DAILY TOTAL	0	0	2981	84	3	3065	0	0	0	0	0	0	5	329	3119	0	0	3453	0	67	0	212	2	279	6797
Cars	0	0	2921	84	3	3005	0	0	0	0	0	0	5	298	3046	0	0	3349	0	65	0	209	2	274	6628
Heavy Vehicles	0	0	60	0	0	60	0	0	0	0	0	0	0	31	73	0	0	104	0	2	0	3	0	5	169
Heavy Vehicle %	0.00%	0.00%	2.01%	0.00%	0.00%	1.96%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	9.42%	2.34%	0.00%	0.00%	3.01%	0.00%	2.99%	0.00%	1.42%	0.00%	1.79%	2.49%

TMC 2514 - CSAH 57 @ Parking Lot Entrance
Ramsey MN
Thursday, August 28, 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	
6:45 AM	0	0	93	1	0	94	0	0	0	0	0	0	0	2	23	0	0	25	0	1	0	1	0	2	121
7:00 AM	0	0	86	1	0	87	0	0	0	0	0	0	0	7	24	0	0	31	0	0	0	1	0	1	119
7:15 AM	0	0	101	1	0	102	0	0	0	0	0	0	0	6	27	0	0	33	0	0	0	1	0	1	136
7:30 AM	0	0	88	2	0	90	0	0	0	0	0	0	0	6	31	0	0	37	0	0	0	0	0	0	127
Peak Hour Total	0	0	368	5	0	373	0	0	0	0	0	0	0	21	105	0	0	126	0	1	0	3	0	4	503
Peak Hour Heavy Vehicles	0	0	9	0	0	9	0	0	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	0	17
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	2.45%	0.00%	0.00%	2.41%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.76%	6.67%	0.00%	0.00%	6.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.38%
	0.000	0.000	0.911	0.625	0.000	0.914	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.847	0.000	0.000	0.851	0.000	0.250	0.000	0.750	0.000	0.500	0.925

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	
11:00 AM	0	0	36	3	0	39	0	0	0	0	0	0	0	6	35	0	0	41	0	1	0	8	0	9	89
11:15 AM	0	0	43	2	0	45	0	0	0	0	0	0	0	7	44	0	0	51	0	2	0	0	0	2	98
11:30 AM	0	0	48	0	0	48	0	0	0	0	0	0	0	3	43	0	0	46	0	0	0	7	0	7	101
11:45 AM	0	0	31	1	0	32	0	0	0	0	0	0	0	4	43	0	0	47	0	0	0	0	0	0	79
Peak Hour Total	0	0	158	6	0	164	0	0	0	0	0	0	0	20	165	0	0	185	0	3	0	15	0	18	367
Peak Hour Heavy Vehicles	0	0	6	0	0	6	0	0	0	0	0	0	0	5	5	0	0	10	0	1	0	0	0	1	17
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	3.80%	0.00%	0.00%	3.66%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	25.00%	3.03%	0.00%	0.00%	5.41%	0.00%	33.33%	0.00%	0.00%	0.00%	5.56%	4.63%
	0.000	0.000	0.823	0.500	0.000	0.854	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.714	0.938	0.000	0.000	0.907	0.000	0.375	0.000	0.469	0.000	0.500	0.908

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	
3:15 PM	0	0	47	9	0	56	0	0	0	0	0	0	0	28	70	0	0	98	0	0	0	2	0	2	156
3:30 PM	0	0	48	2	0	50	0	0	0	0	0	0	0	4	73	0	0	77	0	12	0	37	0	49	176
3:45 PM	0	0	36	0	0	36	0	0	0	0	0	0	0	2	75	0	0	77	0	5	0	5	0	10	123
4:00 PM	0	0	55	0	0	55	0	0	0	0	0	0	0	1	93	0	0	94	0	0	0	4	0	4	153
Peak Hour Total	0	0	186	11	0	197	0	0	0	0	0	0	0	35	311	0	0	346	0	17	0	48	0	65	608
Peak Hour Heavy Vehicles	0	0	8	0	0	8	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	0	14
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	4.30%	0.00%	0.00%	4.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.86%	1.61%	0.00%	0.00%	1.73%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.30%
	0.000	0.000	0.845	0.306	0.000	0.879	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.313	0.836	0.000	0.000	0.883	0.000	0.354	0.000	0.324	0.000	0.332	0.864

Total Vehicles On Leg			6251		
Vehicles Entering Intersection 3065			Vehicles Exiting Intersection 3186		
Southbound					
Cars	84	2921	0	0	3
Heavy	0	60	0	0	0
Total	84	2981	0	0	3



Total Vehicles on Leg 692	Vehicles Entering Intersection 279	Eastbound	Cars	Heavy	Total
	Vehicles Exiting Intersection 413		2	0	2
			0	0	0
			65	2	67
			0	0	0
			209	3	212



Daily Volumes

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



Vehicles Entering Intersection 3453			Vehicles Exiting Intersection 3198		
Total Vehicles On Leg			6651		
Cars	0	5	298	3046	0
Heavy	0	0	31	73	0
Total	0	5	329	3119	0
Northbound					



TMC 2514 - CSAH 57 @ Parking Lot Entrance
 Ramsey MN
 Thursday, August 28, 2025

Time	Southbound Heavy CSAH 57						Westbound Heavy 0						Northbound Heavy CSAH 57						Eastbound Heavy Parking Lot						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	1	0	0	1	0	0	0	0	0	0	1
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	1	0	0	1	0	0	0	0	0	0	1
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	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
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	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	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
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	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
6:15 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
6:30 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
6:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	0	8	0	0	8	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	0	14
7:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5
7:15 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	5
7:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	3
7:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	0	7	0	0	7	0	0	0	0	0	0	0	3	6	0	0	9	0	0	0	0	0	0	16

**TMC 2514 - CSAH 57 @ Parking Lot Entrance
Ramsey MN
Thursday, August 28, 2025**

Time	Southbound Heavy CSAH 57						Westbound Heavy 0						Northbound Heavy CSAH 57						Eastbound Heavy Parking Lot						VEHICLE 'Heavy Vehicles'
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	
8:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	2	2	0	0	4	0	0	0	0	0	0	6
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	2	0	2	5
8:30 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
8:45 AM	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
Hourly 'Heavy Vehicles'	0	0	5	0	0	5	0	0	0	0	0	0	0	3	7	0	0	10	0	0	0	2	0	2	17
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	0	0	0	0	0	4
9:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
9:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	4
9:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	0	3	0	0	3	0	0	0	0	0	0	0	5	5	0	0	10	0	0	0	0	0	0	13
10:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	0	0	7	0	0	0	1	0	1	8
10:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	4
10:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	0	7	0	0	7	0	0	0	0	0	0	0	2	8	0	0	10	0	1	0	1	0	2	19
11:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
11:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	4
11:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	0	5
11:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	2	2	0	0	4	0	0	0	0	0	0	6
Hourly 'Heavy Vehicles'	0	0	6	0	0	6	0	0	0	0	0	0	0	5	5	0	0	10	0	1	0	0	0	1	17
12:00 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	6
12:15 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
12:30 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
12:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	5
Hourly 'Heavy Vehicles'	0	0	5	0	0	5	0	0	0	0	0	0	0	2	6	0	0	8	0	0	0	0	0	0	13
1:00 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
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	2
1:30 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
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	2	4	0	0	6	0	0	0	0	0	0	7
2:00 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
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	2
2:30 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	4
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	0	3	0	0	3	0	0	0	0	0	0	0	5	4	0	0	9	0	0	0	0	0	0	12
3:00 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	5
3:15 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	5
3:30 PM	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
3:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	0	10	0	0	10	0	0	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	0	15

TMC 2514 - CSAH 57 @ Parking Lot Entrance
 Ramsey MN
 Thursday, August 28, 2025

Time	Southbound Heavy CSAH 57						Westbound Heavy 0						Northbound Heavy CSAH 57						Eastbound Heavy Parking Lot						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	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	4
4:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	3
4:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	4
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	13
5:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	4
5:15 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
5:30 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
5:45 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	5	0	0	0	5	0	0	0	0	0	0	6
6:00 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
6:15 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
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	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	0	1	0	0	0	0	0	0	1
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	1	1	0	0	0	2	0	0	0	0	0	0	2
7:30 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
7:45 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	1	1	0	0	0	2	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	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	2
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	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	2
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	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
10:00 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
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	1	0	0	0	1	0	0	0	0	0	0	1
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	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
DAILY 'Heavy Vehicles'	0	0	60	0	0	60	0	0	0	0	0	0	0	31	73	0	0	104	0	2	0	3	0	5	169	

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2514

Study Date : 09/11/2025

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 57

Number of Lanes : 1

Total Approach Volume: 3,453

Southbound: CSAH 57

Number of Lanes : 1

Total Approach Volume: 3,065

Minor Street Approaches

Eastbound: Parking Lot

Number of Lanes : 1

Total Approach Volume: 279

Warrant Summary (Rural 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 1 hours, 8 are needed

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

Number of hours (0) volumes exceed minimum < minimum required (4).

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

Warrant 3A - Peak Hour Delay.....Not Satisfied

Approach volumes on minor street don't exceed minimums for any one hour period. 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 2514

Study Date : 09/11/2025

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 0 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 57						Parking Lot		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:15 - 17:15	359	+	219	=	578	14	0	No
16:30 - 17:30	353	+	220	=	573	14	0	No
16:00 - 17:00	353	+	216	=	569	13	0	No
15:45 - 16:45	344	+	203	=	547	22	0	No
16:45 - 17:45	341	+	206	=	547	13	0	No
15:15 - 16:15	346	+	197	=	543	65	0	No
15:00 - 16:00	335	+	195	=	530	66	0	No
14:45 - 15:45	323	+	203	=	526	64	0	No
15:30 - 16:30	331	+	188	=	519	67	0	No
17:00 - 18:00	326	+	184	=	510	14	0	No
06:45 - 07:45	126	+	373	=	499	4	0	No
14:30 - 15:30	301	+	185	=	486	20	0	No
06:30 - 07:30	111	+	374	=	485	4	0	No
07:00 - 08:00	133	+	337	=	470	3	0	No
06:15 - 07:15	112	+	350	=	462	3	0	No
07:15 - 08:15	147	+	305	=	452	3	0	No
17:15 - 18:15	287	+	161	=	448	12	0	No
17:30 - 18:30	276	+	144	=	420	8	0	No
14:15 - 15:15	252	+	167	=	419	22	0	No
06:00 - 07:00	98	+	310	=	408	2	0	No
07:30 - 08:30	147	+	255	=	402	4	0	No
17:45 - 18:45	251	+	126	=	377	8	0	No
05:45 - 06:45	96	+	276	=	372	0	0	No
14:00 - 15:00	207	+	164	=	371	17	0	No
18:15 - 19:15	241		125		366	4	0	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2514

Study Date : 09/11/2025

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 57						Parking Lot		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
14:45 - 15:45	323	+	203	=	526	64	0	Yes
16:15 - 17:15	359	+	219	=	578	14	0	No
16:30 - 17:30	353	+	220	=	573	14	0	No
16:00 - 17:00	353	+	216	=	569	13	0	No
15:45 - 16:45	344	+	203	=	547	22	0	No
16:45 - 17:45	341	+	206	=	547	13	0	No
17:00 - 18:00	326	+	184	=	510	14	0	No
06:45 - 07:45	126	+	373	=	499	4	0	No
14:30 - 15:30	301	+	185	=	486	20	0	No
06:30 - 07:30	111	+	374	=	485	4	0	No
07:00 - 08:00	133	+	337	=	470	3	0	No
06:15 - 07:15	112	+	350	=	462	3	0	No
07:15 - 08:15	147	+	305	=	452	3	0	No
17:15 - 18:15	287	+	161	=	448	12	0	No
17:30 - 18:30	276	+	144	=	420	8	0	No
14:15 - 15:15	252	+	167	=	419	22	0	No
06:00 - 07:00	98	+	310	=	408	2	0	No
07:30 - 08:30	147	+	255	=	402	4	0	No
17:45 - 18:45	251	+	126	=	377	8	0	No
05:45 - 06:45	96	+	276	=	372	0	0	No
14:00 - 15:00	207	+	164	=	371	17	0	No
18:15 - 19:15	241	+	125	=	366	4	0	No
18:00 - 19:00	231	+	132	=	363	7	0	No
07:45 - 08:45	132	+	227	=	359	5	0	No
11:15 - 12:15	198		160		358	9	0	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2514

Study Date : 09/11/2025

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

Only 0 hours meet 1A minimums.
Only 1 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 57						Parking Lot				
Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1A?
16:15 - 17:15	359	+	219	=	578	14		0		No
16:30 - 17:30	353	+	220	=	573	14		0		No
16:00 - 17:00	353	+	216	=	569	13		0		No
15:45 - 16:45	344	+	203	=	547	22		0		No
16:45 - 17:45	341	+	206	=	547	13		0		No
15:15 - 16:15	346	+	197	=	543	65		0		No
15:00 - 16:00	335	+	195	=	530	66		0		No
14:45 - 15:45	323	+	203	=	526	64		0		No
15:30 - 16:30	331	+	188	=	519	67		0		No
17:00 - 18:00	326	+	184	=	510	14		0		No
06:45 - 07:45	126	+	373	=	499	4		0		No
14:30 - 15:30	301		185		486	20		0		No

Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1B?
14:45 - 15:45	323	+	203	=	526	64		0		Yes
16:15 - 17:15	359	+	219	=	578	14		0		No
16:30 - 17:30	353	+	220	=	573	14		0		No
16:00 - 17:00	353	+	216	=	569	13		0		No
15:45 - 16:45	344	+	203	=	547	22		0		No
16:45 - 17:45	341	+	206	=	547	13		0		No
17:00 - 18:00	326	+	184	=	510	14		0		No
06:45 - 07:45	126	+	373	=	499	4		0		No
14:30 - 15:30	301	+	185	=	486	20		0		No
06:30 - 07:30	111	+	374	=	485	4		0		No
07:00 - 08:00	133	+	337	=	470	3		0		No
06:15 - 07:15	112		350		462	3		0		No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2514

Study Date : 09/11/2025

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.

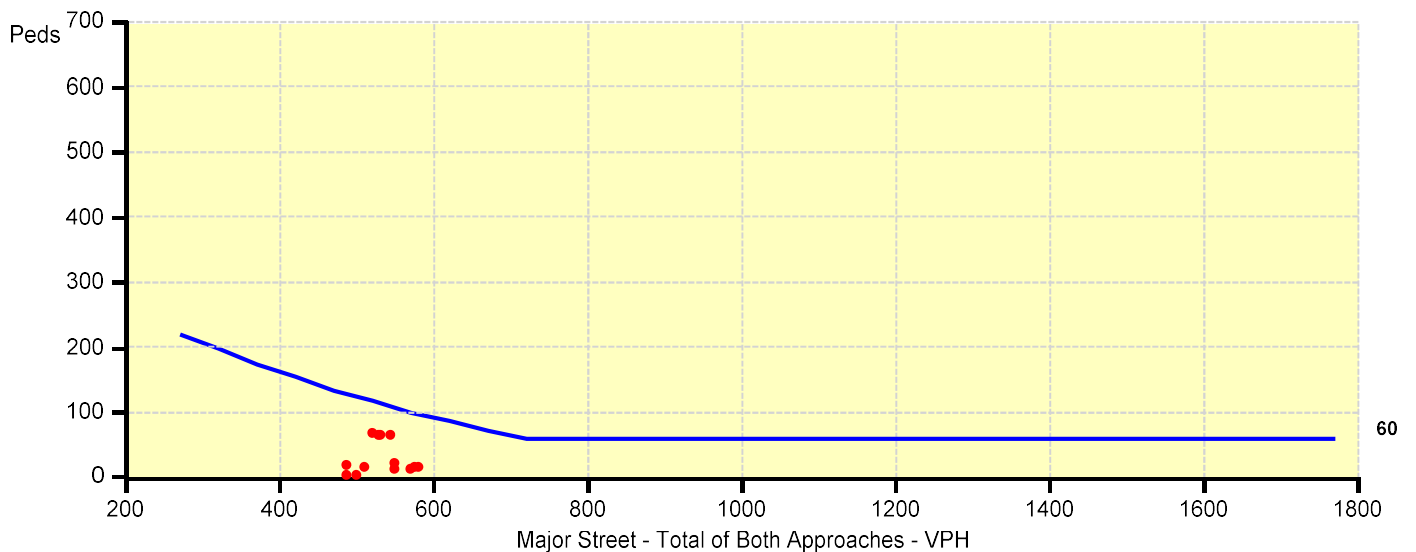
Summary

Only 0 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**

Major Road CSAH 57						Minor Road Parking Lot		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:15 - 17:15	359	+	219	=	578	14	0	No
16:30 - 17:30	353	+	220	=	573	14	0	No
16:00 - 17:00	353	+	216	=	569	13	0	No
15:45 - 16:45	344	+	203	=	547	22	0	No
16:45 - 17:45	341	+	206	=	547	13	0	No
15:15 - 16:15	346	+	197	=	543	65	0	No
15:00 - 16:00	335	+	195	=	530	66	0	No
14:45 - 15:45	323	+	203	=	526	64	0	No
15:30 - 16:30	331	+	188	=	519	67	0	No
17:00 - 18:00	326	+	184	=	510	14	0	No
06:45 - 07:45	126	+	373	=	499	4	0	No
14:30 - 15:30	301	+	185	=	486	20	0	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2514

Study Date : 09/11/2025

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.

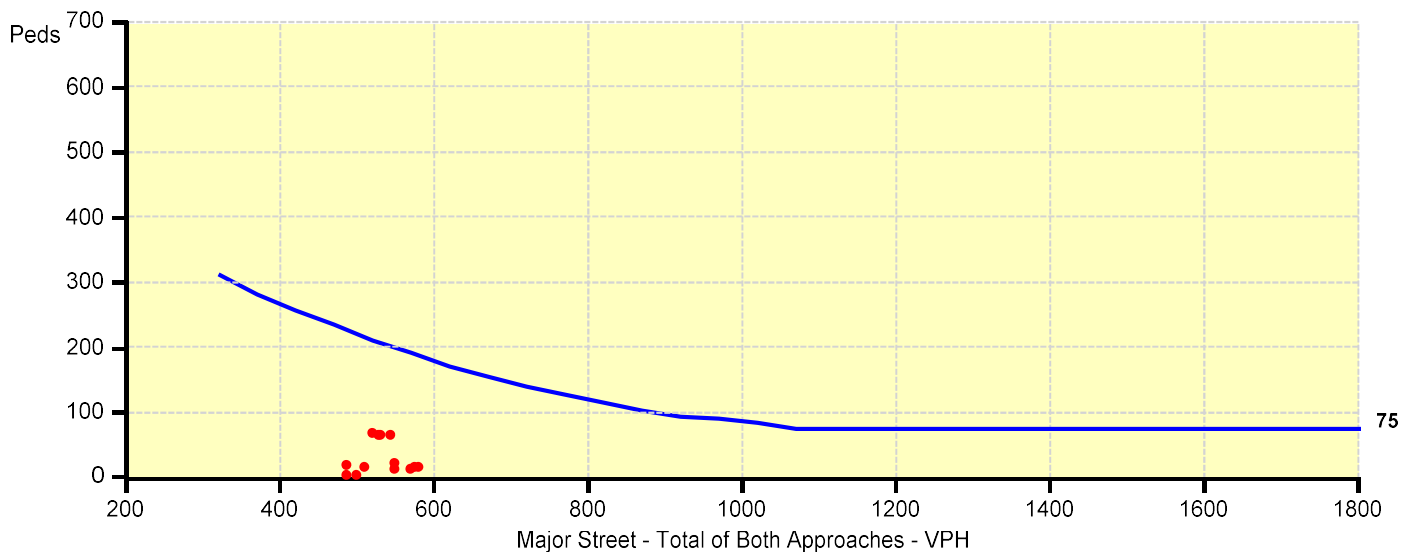
Summary

Only 0 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**

Major Road CSAH 57						Minor Road Parking Lot		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:15 - 17:15	359	+	219	=	578	14	0	No
16:30 - 17:30	353	+	220	=	573	14	0	No
16:00 - 17:00	353	+	216	=	569	13	0	No
15:45 - 16:45	344	+	203	=	547	22	0	No
16:45 - 17:45	341	+	206	=	547	13	0	No
15:15 - 16:15	346	+	197	=	543	65	0	No
15:00 - 16:00	335	+	195	=	530	66	0	No
14:45 - 15:45	323	+	203	=	526	64	0	No
15:30 - 16:30	331	+	188	=	519	67	0	No
17:00 - 18:00	326	+	184	=	510	14	0	No
06:45 - 07:45	126	+	373	=	499	4	0	No
14:30 - 15:30	301	+	185	=	486	20	0	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2514

Study Date : 09/11/2025

Multiway Stop Warrants - Summary

Major Street Approaches

Northbound: CSAH 57

Number of Lanes : 1

Total Approach Volume: 3,453

Southbound: CSAH 57

Number of Lanes : 1

Total Approach Volume: 3,065

Minor Street Approaches

Eastbound: Parking Lot

Number of Lanes : 1

Total Approach Volume: 279

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 signs 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..... **Not Satisfied**
Average of 8 highest hours is less than 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 is less than volume criteria.

Criteria C Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:15 - 16:15	543	446.8	65	18.0	210	140	No
16:15 - 17:15	578		14				
06:45 - 07:45	499		4				
17:15 - 18:15	448		12				
14:15 - 15:15	419		22				
05:45 - 06:45	372		0				
18:15 - 19:15	366		4				
11:00 - 12:00	349		23				
07:45 - 08:45	359		5				
12:45 - 13:45	336		7				
08:45 - 09:45	314		3				
19:15 - 20:15	276		18				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:15 - 16:15	543	446.8	65	18.0	240	160	No
16:15 - 17:15	578		14				
06:45 - 07:45	499		4				
17:15 - 18:15	448		12				
14:15 - 15:15	419		22				
05:45 - 06:45	372		0				
18:15 - 19:15	366		4				
11:00 - 12:00	349		23				
07:45 - 08:45	359		5				
12:45 - 13:45	336		7				
08:45 - 09:45	314		3				
19:15 - 20:15	276		18				