

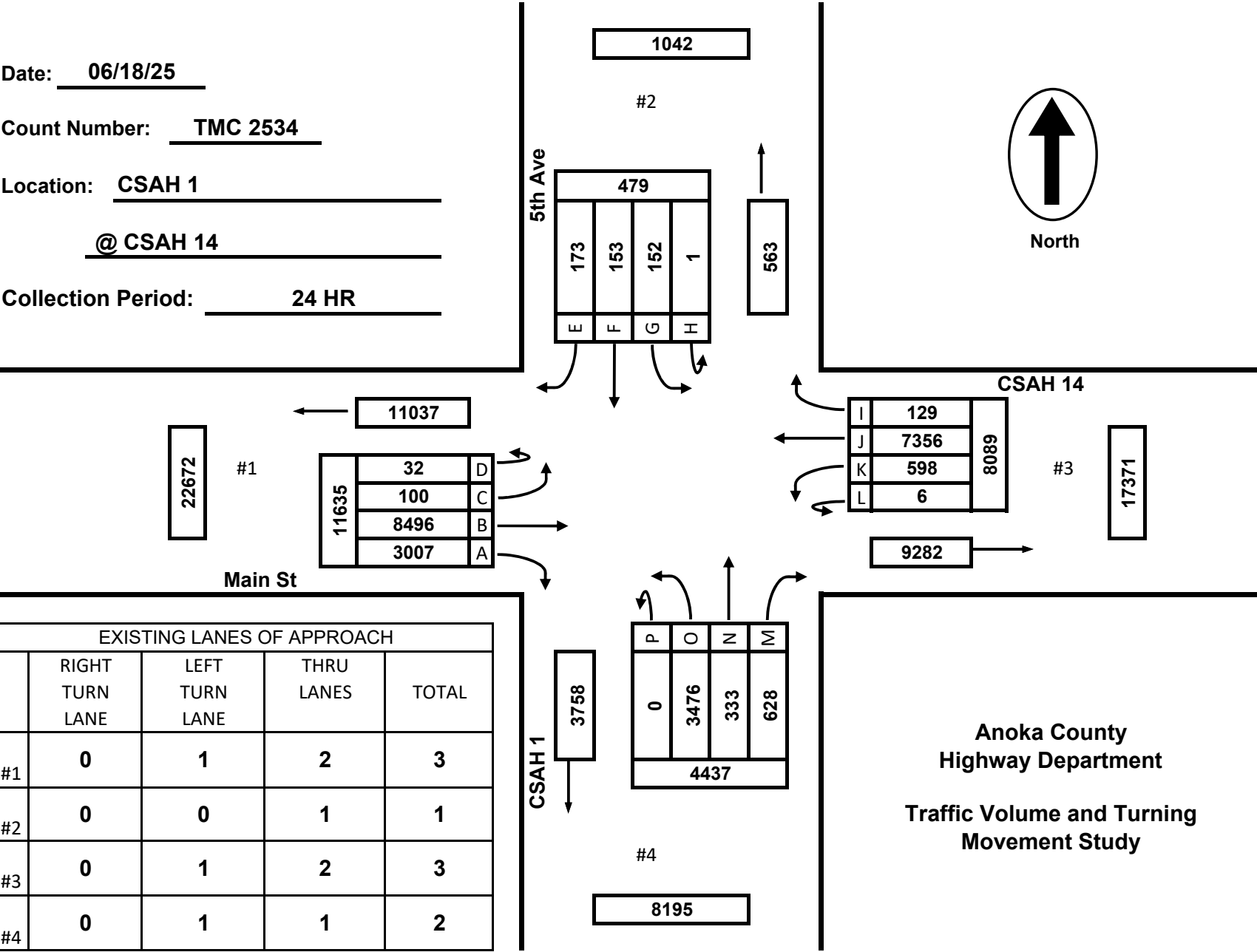
Date: 06/18/25

Count Number: TMC 2534

Location: CSAH 1

@ CSAH 14

Collection Period: 24 HR



Anoka County
Highway Department

Traffic Volume and Turning
Movement Study

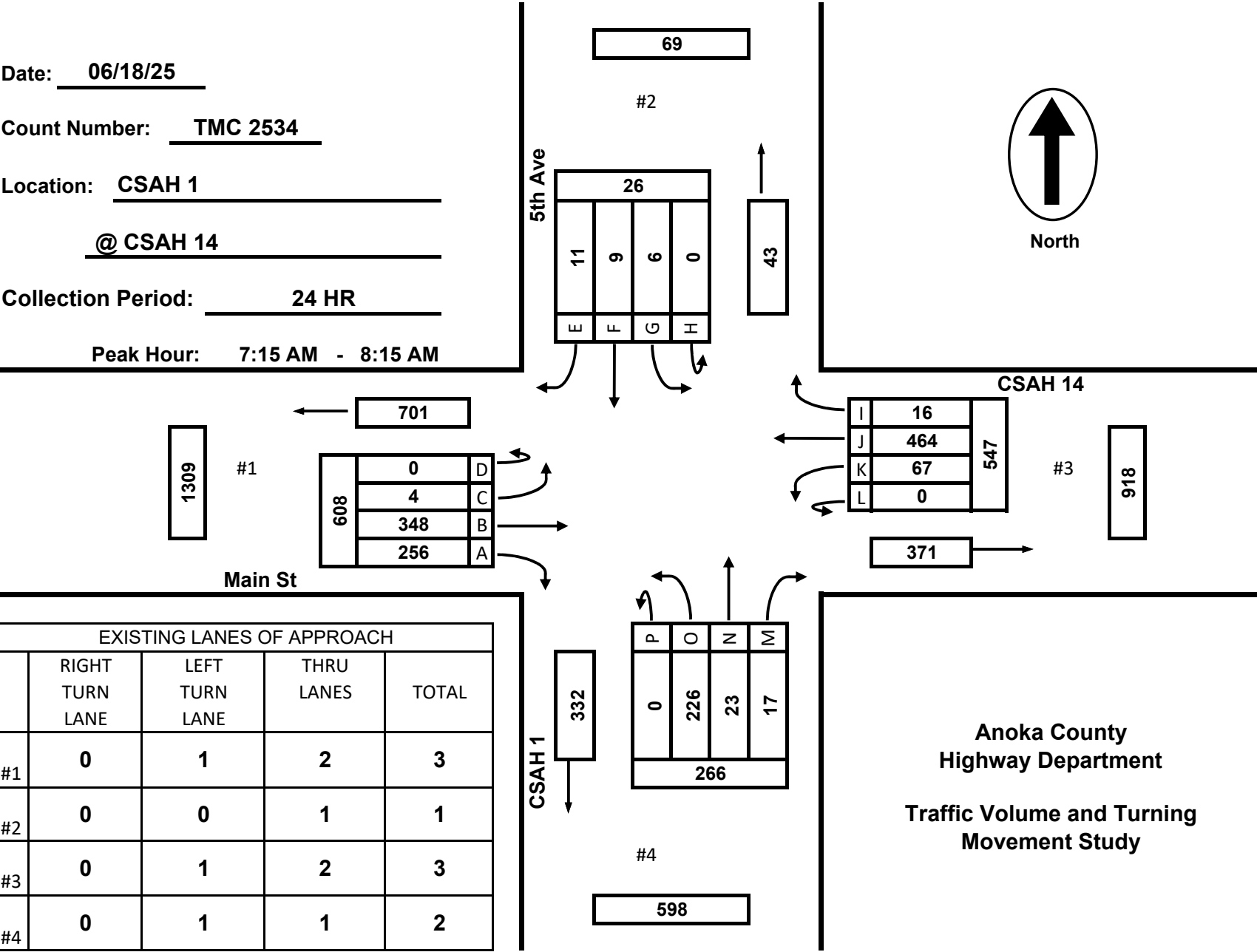
Date: 06/18/25

Count Number: TMC 2534

Location: CSAH 1
@ CSAH 14

Collection Period: 24 HR

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



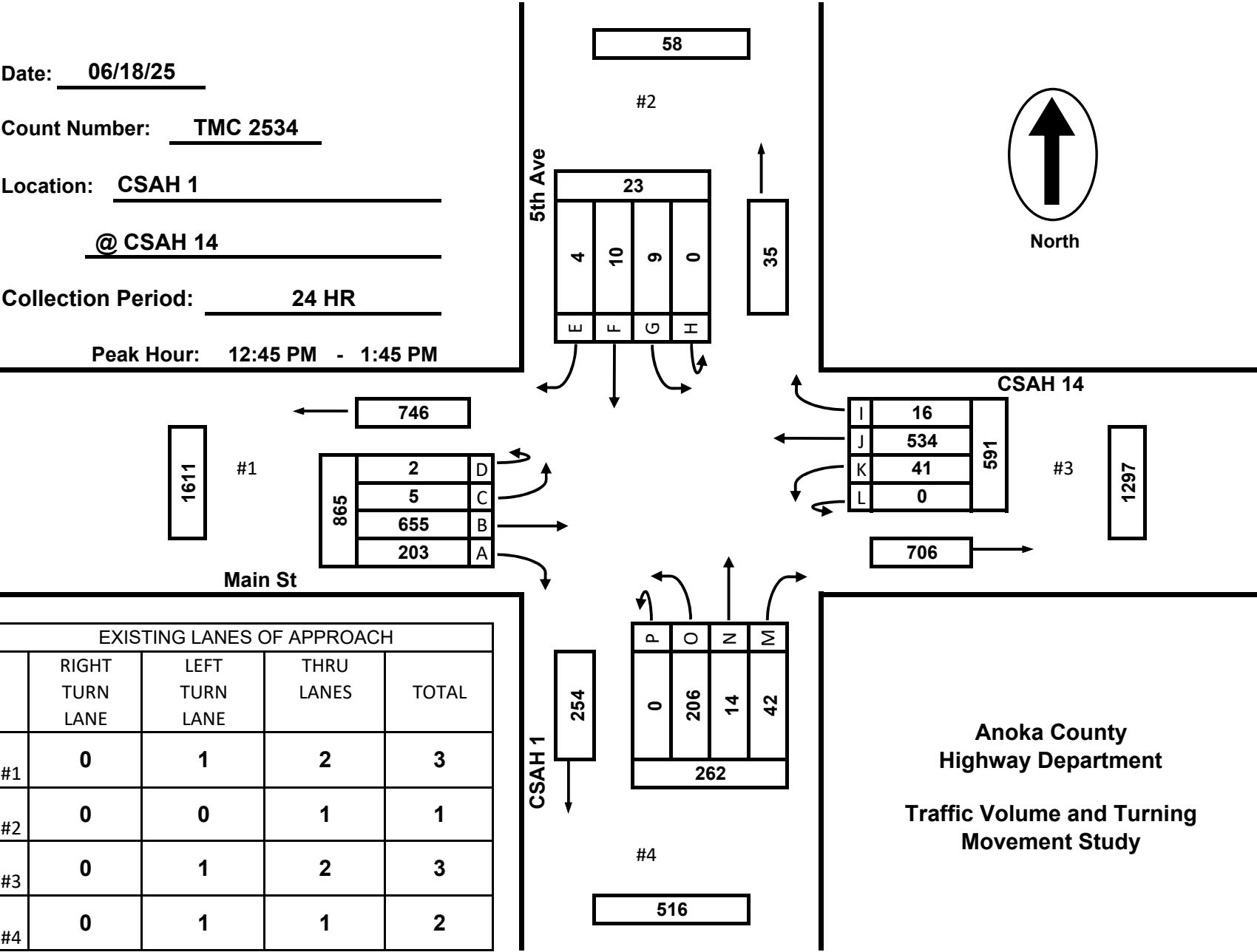
Date: 06/18/25

Count Number: TMC 2534

Location: CSAH 1
@ CSAH 14

Collection Period: 24 HR

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



Date: 06/18/25

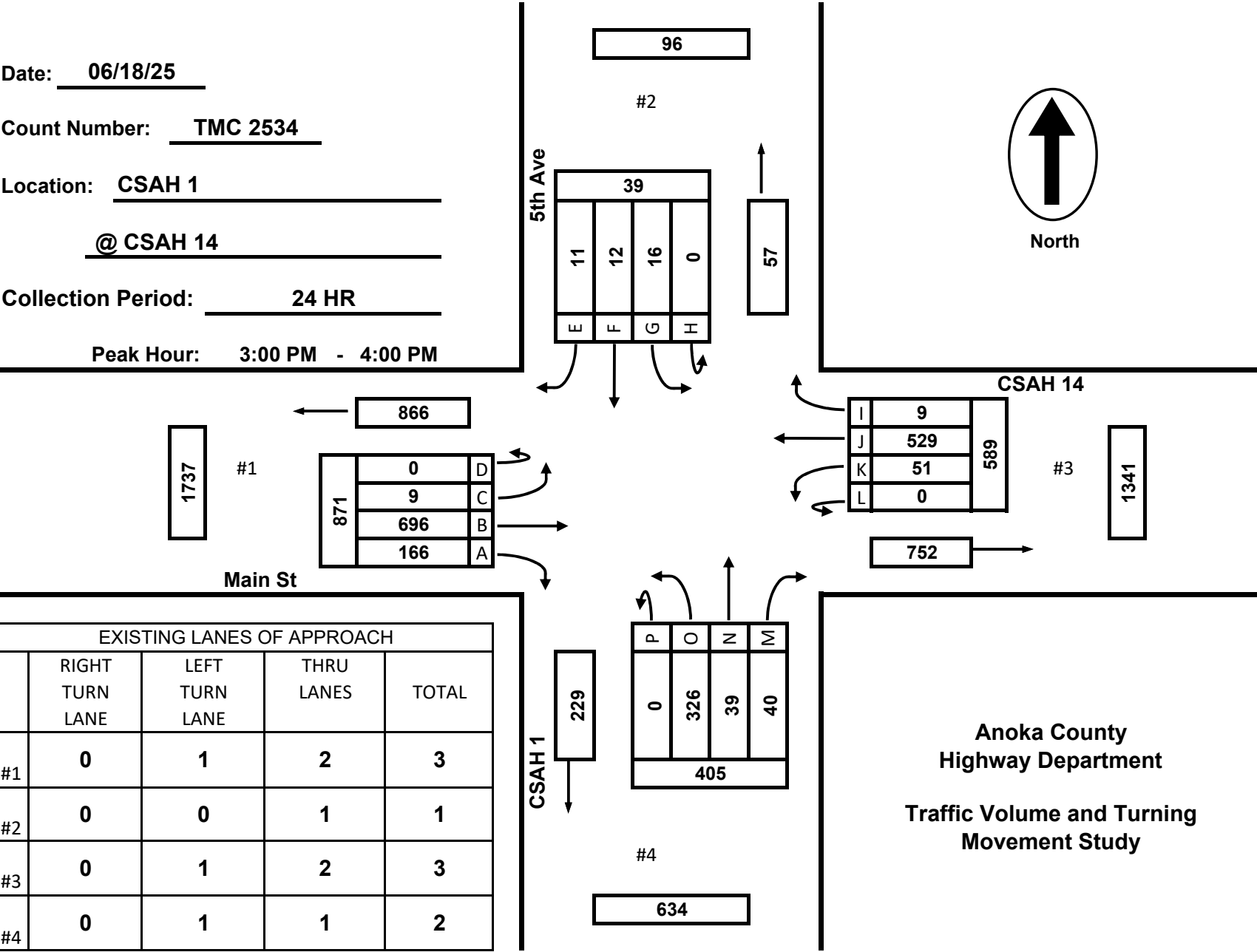
Count Number: TMC 2534

Location: CSAH 1

@ CSAH 14

Collection Period: 24 HR

Peak Hour: 3:00 PM - 4:00 PM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

TMC 2534 - CSAH 1 @ CSAH 14

Anoka MN

Wednesday, June 18, 2025

Time	Southbound 5th Ave						Westbound CSAH 14						Northbound CSAH 1						Eastbound Main St						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	
12:00 AM	0	0	0	1	0	1	0	0	10	0	0	10	0	6	0	2	0	8	0	0	16	3	0	19	38
12:15 AM	0	0	0	1	0	1	0	0	6	2	0	8	0	5	0	0	0	5	0	0	15	4	0	19	33
12:30 AM	0	0	0	1	0	1	0	0	7	0	0	7	0	6	0	1	0	7	0	2	17	3	0	22	37
12:45 AM	0	0	0	0	0	0	0	0	9	0	0	9	0	3	0	0	0	3	0	0	10	4	0	14	26
Hourly Total	0	0	0	3	0	3	0	0	32	2	0	34	0	20	0	3	0	23	0	2	58	14	0	74	134
1:00 AM	0	0	0	1	0	1	0	1	16	0	0	17	0	2	0	0	1	2	0	0	10	3	0	13	33
1:15 AM	0	0	0	0	0	0	0	0	4	0	0	4	0	3	0	0	0	3	0	0	9	4	0	13	20
1:30 AM	0	1	0	0	0	1	0	1	6	0	0	7	0	3	0	0	0	3	0	0	4	3	0	7	18
1:45 AM	0	0	0	0	0	0	0	0	2	0	1	2	0	1	0	0	0	1	0	0	9	5	0	14	17
Hourly Total	0	1	0	1	0	2	0	2	28	0	1	30	0	9	0	0	1	9	0	0	32	15	0	47	88
2:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	2	0	0	0	2	0	0	6	0	0	6	11
2:15 AM	0	0	0	0	0	0	0	0	7	0	0	7	0	1	0	0	0	1	0	0	5	2	0	7	15
2:30 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	0	1	0	0	6	0	0	6	10
2:45 AM	0	0	0	0	0	0	0	0	5	0	1	5	0	2	0	0	0	2	0	0	7	0	0	7	14
Hourly Total	0	0	0	0	0	0	0	0	18	0	1	18	0	6	0	0	0	6	0	0	24	2	0	26	50
3:00 AM	0	0	0	0	0	0	0	0	16	0	0	16	0	2	0	0	0	2	0	0	5	1	0	6	24
3:15 AM	0	0	0	0	0	0	0	1	4	0	0	5	0	6	0	0	0	6	0	0	1	4	0	5	16
3:30 AM	0	0	0	0	0	0	0	0	8	0	0	8	0	1	0	0	0	1	0	0	3	0	0	3	12
3:45 AM	0	0	0	0	0	0	0	0	7	0	0	7	0	3	0	1	0	4	0	0	5	3	1	8	19
Hourly Total	0	0	0	0	0	0	0	1	35	0	0	36	0	12	0	1	0	13	0	0	14	8	1	22	71
4:00 AM	0	0	0	0	0	0	0	1	12	0	0	13	0	1	0	0	0	1	0	0	5	4	0	9	23
4:15 AM	0	0	0	0	0	0	0	2	11	0	0	13	0	4	0	1	0	5	0	0	6	2	0	8	26
4:30 AM	0	0	0	0	0	0	0	1	20	0	0	21	0	10	1	1	0	12	0	0	13	4	0	17	50
4:45 AM	0	0	0	1	0	1	0	0	18	0	0	18	0	4	1	3	0	8	0	0	21	6	0	27	54
Hourly Total	0	0	0	1	0	1	0	4	61	0	0	65	0	19	2	5	0	26	0	0	45	16	0	61	153
5:00 AM	0	0	0	1	0	1	0	2	19	0	0	21	0	12	0	1	0	13	0	0	23	11	0	34	69
5:15 AM	0	0	0	2	0	2	0	1	46	0	0	47	0	16	1	1	3	18	0	0	25	10	0	35	102
5:30 AM	0	0	0	3	1	3	0	0	56	1	0	57	0	23	1	1	0	25	0	0	24	18	0	42	127
5:45 AM	0	0	1	0	1	1	0	2	35	0	0	37	0	18	1	1	0	20	0	0	33	20	0	53	111
Hourly Total	0	0	1	6	2	7	0	5	156	1	0	162	0	69	3	4	3	76	0	0	105	59	0	164	409
6:00 AM	0	0	1	0	0	1	0	1	77	1	0	79	0	23	1	3	0	27	0	0	38	23	0	61	168
6:15 AM	0	0	0	0	0	0	0	1	76	0	0	77	0	26	1	3	0	30	0	1	60	38	0	99	206
6:30 AM	0	1	2	2	1	5	0	6	89	0	0	95	0	46	2	1	0	49	0	1	60	77	1	138	287
6:45 AM	0	0	5	0	0	5	0	5	75	1	0	81	0	27	3	3	0	33	0	2	76	80	0	158	277
Hourly Total	0	1	8	2	1	11	0	13	317	2	0	332	0	122	7	10	0	139	0	4	234	218	1	456	938
7:00 AM	0	1	4	2	0	7	0	3	110	0	0	113	0	56	2	0	0	58	0	0	50	47	0	97	275
7:15 AM	0	0	2	3	0	5	0	12	102	4	0	118	0	48	3	1	0	52	0	3	96	63	0	162	337
7:30 AM	0	4	2	4	0	10	0	20	103	2	1	125	0	74	8	2	2	84	0	1	68	58	0	127	346
7:45 AM	0	1	4	3	0	8	0	26	137	8	0	171	0	56	7	6	0	69	0	0	112	86	0	198	446
Hourly Total	0	6	12	12	0	30	0	61	452	14	1	527	0	234	20	9	2	263	0	4	326	254	0	584	1404

TMC 2534 - CSAH 1 @ CSAH 14

Anoka MN

Wednesday, June 18, 2025

Time	Southbound 5th Ave						Westbound CSAH 14						Northbound CSAH 1						Eastbound Main St						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	1	1	1	0	3	0	9	122	2	0	133	0	48	5	8	1	61	0	0	72	49	2	121	318
8:15 AM	0	2	3	3	0	8	0	7	100	1	0	108	0	49	3	8	3	60	0	1	84	58	0	143	319
8:30 AM	0	3	4	11	1	18	0	13	113	2	0	128	0	51	4	9	0	64	0	0	99	39	1	138	348
8:45 AM	0	2	5	2	2	9	0	23	107	2	0	132	0	51	4	10	2	65	2	4	120	60	0	186	392
Hourly Total	0	8	13	17	3	38	0	52	442	7	0	501	0	199	16	35	6	250	2	5	375	206	3	588	1377
9:00 AM	0	3	1	5	0	9	0	11	97	1	0	109	0	36	3	15	0	54	1	1	123	39	0	164	336
9:15 AM	0	1	1	2	0	4	0	19	87	0	0	106	0	41	4	10	0	55	0	1	99	50	0	150	315
9:30 AM	0	3	0	3	0	6	0	12	101	1	0	114	0	43	5	18	2	66	1	1	115	49	0	166	352
9:45 AM	0	4	1	3	2	8	0	6	85	1	1	92	0	50	2	15	0	67	0	1	125	35	0	161	328
Hourly Total	0	11	3	13	2	27	0	48	370	3	1	421	0	170	14	58	2	242	2	4	462	173	0	641	1331
10:00 AM	0	3	2	4	0	9	0	6	87	0	1	93	0	42	1	14	1	57	3	0	98	35	0	136	295
10:15 AM	0	4	2	0	0	6	0	8	93	0	0	101	0	61	3	8	1	72	0	1	115	48	0	164	343
10:30 AM	0	3	1	6	0	10	0	9	114	1	0	124	0	42	2	13	2	57	0	0	117	52	0	169	360
10:45 AM	0	5	5	2	1	12	0	13	90	1	8	104	0	48	2	11	0	61	0	2	105	47	0	154	331
Hourly Total	0	15	10	12	1	37	0	36	384	2	9	422	0	193	8	46	4	247	3	3	435	182	0	623	1329
11:00 AM	0	1	1	5	1	7	0	9	119	1	1	129	0	50	3	13	0	66	0	1	134	41	0	176	378
11:15 AM	0	2	2	1	0	5	0	8	116	2	0	126	0	73	4	13	3	90	1	0	122	38	0	161	382
11:30 AM	0	3	2	2	0	7	0	18	139	3	25	160	0	52	8	18	1	78	0	1	116	30	0	147	392
11:45 AM	0	1	4	5	0	10	0	31	117	6	0	154	0	57	4	7	0	68	2	0	143	35	0	180	412
Hourly Total	0	7	9	13	1	29	0	66	491	12	26	569	0	232	19	51	4	302	3	2	515	144	0	664	1564
12:00 PM	0	3	0	4	1	7	0	13	133	2	0	148	0	53	4	19	3	76	3	2	155	37	0	197	428
12:15 PM	0	2	1	4	0	7	0	18	142	3	1	163	0	40	5	17	0	62	1	2	134	46	0	183	415
12:30 PM	0	1	1	3	0	5	0	8	117	3	6	128	0	54	5	17	0	76	1	2	140	43	0	186	395
12:45 PM	0	4	2	2	1	8	0	11	150	4	0	165	0	43	2	8	1	53	1	0	157	46	0	204	430
Hourly Total	0	10	4	13	2	27	0	50	542	12	7	604	0	190	16	61	4	267	6	6	586	172	0	770	1668
1:00 PM	0	2	1	2	0	5	0	8	122	3	0	133	0	45	7	15	1	67	1	4	195	64	0	264	469
1:15 PM	0	1	3	0	1	4	0	12	139	4	0	155	0	58	3	13	0	74	0	1	150	47	0	198	431
1:30 PM	0	2	4	0	1	6	0	10	123	5	2	138	0	60	2	6	1	68	0	0	153	46	0	199	411
1:45 PM	0	4	3	3	0	10	0	8	121	5	0	134	0	60	7	7	2	74	0	2	150	47	0	199	417
Hourly Total	0	9	11	5	2	25	0	38	505	17	2	560	0	223	19	41	4	283	1	7	648	204	0	860	1728
2:00 PM	0	2	1	1	2	4	0	8	119	2	0	129	0	75	8	17	3	100	2	1	171	41	0	215	448
2:15 PM	0	3	2	6	0	11	0	8	131	1	1	140	0	72	7	15	0	94	0	1	161	60	0	222	467
2:30 PM	0	3	3	2	1	8	0	10	131	0	24	141	0	64	7	16	1	87	2	3	145	45	0	195	431
2:45 PM	0	0	3	5	0	8	0	8	133	0	0	141	0	49	6	8	0	63	1	2	153	54	0	210	422
Hourly Total	0	8	9	14	3	31	0	34	514	3	25	551	0	260	28	56	4	344	5	7	630	200	0	842	1768
3:00 PM	0	3	2	4	1	9	0	11	139	3	1	153	0	74	5	13	0	92	0	5	197	40	0	242	496
3:15 PM	0	5	5	2	1	12	0	14	126	3	0	143	0	91	11	11	1	113	0	0	130	35	0	165	433
3:30 PM	0	3	2	3	0	8	0	14	137	2	0	153	0	77	8	10	0	95	0	2	181	45	0	228	484
3:45 PM	0	5	3	2	2	10	0	12	127	1	0	140	0	84	15	6	2	105	0	2	188	46	0	236	491
Hourly Total	0	16	12	11	4	39	0	51	529	9	1	589	0	326	39	40	3	405	0	9	696	166	0	871	1904

TMC 2534 - CSAH 1 @ CSAH 14

Anoka MN

Wednesday, June 18, 2025

Time	Southbound 5th Ave						Westbound CSAH 14						Northbound CSAH 1						Eastbound Main St						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	6	7	4	3	17	0	4	108	2	0	114	0	61	16	14	2	91	0	3	188	45	0	236	458
4:15 PM	0	5	5	2	2	12	0	2	98	2	0	102	0	80	12	14	2	106	0	4	156	45	0	205	424
4:30 PM	0	13	8	0	3	21	0	4	116	3	1	123	0	83	16	12	1	111	1	5	204	54	0	264	519
4:45 PM	0	3	6	5	2	14	0	6	131	5	2	142	0	57	13	17	1	87	0	2	152	39	0	193	436
Hourly Total	0	27	26	11	10	64	0	16	453	12	3	481	0	281	57	57	6	395	1	14	700	183	0	898	1838
5:00 PM	0	3	3	5	1	11	0	6	129	2	2	137	0	68	9	17	3	94	4	3	187	42	0	236	478
5:15 PM	0	2	1	2	0	5	0	6	121	2	1	129	0	78	11	6	2	95	1	0	151	43	1	195	424
5:30 PM	0	2	1	0	1	3	0	12	131	1	0	144	0	68	10	5	1	83	0	1	166	42	0	209	439
5:45 PM	0	3	4	3	4	10	1	10	144	1	5	156	0	82	14	15	0	111	0	2	138	37	0	177	454
Hourly Total	0	10	9	10	6	29	1	34	525	6	8	566	0	296	44	43	6	383	5	6	642	164	1	817	1795
6:00 PM	0	1	1	3	4	5	1	10	146	1	0	158	0	50	4	7	1	61	0	3	148	47	0	198	422
6:15 PM	0	2	4	0	1	6	0	8	97	4	1	109	0	45	2	8	0	55	1	2	158	46	0	207	377
6:30 PM	0	1	1	2	0	4	1	7	98	5	0	111	0	31	2	3	0	36	0	3	136	45	0	184	335
6:45 PM	0	2	0	0	0	2	1	8	96	2	0	107	0	27	6	8	0	41	0	2	118	47	0	167	317
Hourly Total	0	6	6	5	5	17	3	33	437	12	1	485	0	153	14	26	1	193	1	10	560	185	0	756	1451
7:00 PM	1	1	2	2	0	6	0	4	117	4	0	125	0	40	3	6	1	49	0	4	139	28	0	171	351
7:15 PM	0	2	1	3	3	6	0	9	97	0	0	106	0	41	5	8	0	54	0	1	102	25	1	128	294
7:30 PM	0	1	2	7	2	10	0	5	86	1	0	92	0	54	1	3	0	58	1	1	99	20	0	121	281
7:45 PM	0	1	2	1	0	4	0	6	76	1	1	83	0	35	2	3	1	40	0	2	99	35	1	136	263
Hourly Total	1	5	7	13	5	26	0	24	376	6	1	406	0	170	11	20	2	201	1	8	439	108	2	556	1189
8:00 PM	0	3	2	2	0	7	0	2	67	3	0	72	0	35	4	11	1	50	0	1	121	30	0	152	281
8:15 PM	0	3	4	1	1	8	0	1	86	1	1	88	0	27	2	6	5	35	0	0	106	34	0	140	271
8:30 PM	0	0	0	1	0	1	0	3	87	1	0	91	0	26	2	6	4	34	0	1	124	23	3	148	274
8:45 PM	0	1	2	2	1	5	0	3	61	1	0	65	0	28	2	5	1	35	0	1	83	25	0	109	214
Hourly Total	0	7	8	6	2	21	0	9	301	6	1	316	0	116	10	28	11	154	0	3	434	112	3	549	1040
9:00 PM	0	1	1	1	2	3	1	2	57	1	0	61	0	20	2	8	0	30	1	0	95	23	0	119	213
9:15 PM	0	0	1	1	2	2	0	3	47	0	1	50	0	21	2	9	1	32	0	0	84	23	0	107	191
9:30 PM	0	1	0	0	0	1	0	3	52	2	0	57	0	19	0	3	0	22	0	0	61	16	0	77	157
9:45 PM	0	0	0	0	2	0	0	4	35	0	0	39	0	18	0	2	1	20	1	0	51	21	1	73	132
Hourly Total	0	2	2	2	6	6	1	12	191	3	1	207	0	78	4	22	2	104	2	0	291	83	1	376	693
10:00 PM	0	0	0	0	0	0	0	3	43	0	0	46	0	17	0	1	0	18	0	1	45	28	0	74	138
10:15 PM	0	0	1	0	2	1	1	3	24	0	0	28	0	16	1	0	1	17	0	1	46	17	0	64	110
10:30 PM	0	1	1	0	0	2	0	0	33	0	0	33	0	10	0	4	0	14	0	1	54	27	0	82	131
10:45 PM	0	0	0	1	0	1	0	2	13	0	0	15	0	6	0	3	0	9	0	1	32	25	0	58	83
Hourly Total	0	1	2	1	2	4	1	8	113	0	0	122	0	49	1	8	1	58	0	4	177	97	0	278	462
11:00 PM	0	2	0	1	0	3	0	1	27	0	0	28	0	8	0	0	2	8	0	0	21	8	0	29	68
11:15 PM	0	0	1	0	0	1	0	0	15	0	0	15	0	12	1	4	2	17	0	1	18	13	0	32	65
11:30 PM	0	0	0	1	0	1	0	0	24	0	0	24	0	23	0	0	4	23	0	0	17	9	0	26	74
11:45 PM	0	0	0	0	0	0	0	0	18	0	0	18	0	6	0	0	2	6	0	1	12	12	0	25	49
Hourly Total	0	2	1	2	0	5	0	1	84	0	0	85	0	49	1	4	10	54	0	2	68	42	0	112	256
DAILY TOTAL	1	152	153	173	57	479	6	598	7356	129	89	8089	0	3476	333	628	76	4437	32	100	8496	3007	12	11635	24640
Cars	1	151	151	173	37	476	6	590	7258	128	74	7982	0	3424	330	621	38	4375	32	100	8384	2958	9	11474	24307
Heavy Vehicles	0	1	2	0	20	3	0	8	98	1	15	107	0	52	3	7	38	62	0	0	112	49	3	161	333
Heavy Vehicle %	0.00%	0.66%	1.31%	0.00%	35.09%	0.63%	0.00%	1.34%	1.33%	0.78%	16.85%	1.32%	0.00%	1.50%	0.90%	1.11%	50.00%	1.40%	0.00%	0.00%	1.32%	1.63%	25.00%	1.38%	1.35%

TMC 2534 - CSAH 1 @ CSAH 14
Anoka MN
Wednesday, June 18, 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	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	
7:15 AM	0	0	2	3	0	5	0	12	102	4	0	118	0	48	3	1	0	52	0	3	96	63	0	162	337
7:30 AM	0	4	2	4	0	10	0	20	103	2	1	125	0	74	8	2	2	84	0	1	68	58	0	127	346
7:45 AM	0	1	4	3	0	8	0	26	137	8	0	171	0	56	7	6	0	69	0	0	112	86	0	198	446
8:00 AM	0	1	1	1	0	3	0	9	122	2	0	133	0	48	5	8	1	61	0	0	72	49	2	121	318
Peak Hour Total	0	6	9	11	0	26	0	67	464	16	1	547	0	226	23	17	3	266	0	4	348	256	2	608	1447
Peak Hour Heavy Vehicles	0	0	0	0	0	0	0	1	10	0	1	11	0	4	0	1	0	5	0	0	16	3	1	19	35
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.49%	2.16%	0.00%	100.00%	2.01%	0.00%	1.77%	0.00%	5.88%	0.00%	1.88%	0.00%	0.00%	4.60%	1.17%	50.00%	3.13%	2.42%
	0.000	0.375	0.563	0.688	0.000	0.650	0.000	0.644	0.847	0.500	0.250	0.800	0.000	0.764	0.719	0.531	0.375	0.792	0.000	0.333	0.777	0.744	0.250	0.768	0.811

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

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	
12:45 PM	0	4	2	2	1	8	0	11	150	4	0	165	0	43	2	8	1	53	1	0	157	46	0	204	430
1:00 PM	0	2	1	2	0	5	0	8	122	3	0	133	0	45	7	15	1	67	1	4	195	64	0	264	469
1:15 PM	0	1	3	0	1	4	0	12	139	4	0	155	0	58	3	13	0	74	0	1	150	47	0	198	431
1:30 PM	0	2	4	0	1	6	0	10	123	5	2	138	0	60	2	6	1	68	0	0	153	46	0	199	411
Peak Hour Total	0	9	10	4	3	23	0	41	534	16	2	591	0	206	14	42	3	262	2	5	655	203	0	865	1741
Peak Hour Heavy Vehicles	0	0	0	0	0	0	0	2	14	0	1	16	0	4	0	2	0	6	0	0	7	5	0	12	34
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.88%	2.62%	0.00%	50.00%	2.71%	0.00%	1.94%	0.00%	4.76%	0.00%	2.29%	0.00%	0.00%	1.07%	2.46%	0.00%	1.39%	1.95%
	0.000	0.563	0.625	0.500	0.750	0.719	0.000	0.854	0.890	0.800	0.250	0.895	0.000	0.858	0.500	0.700	0.750	0.885	0.500	0.313	0.840	0.793	0.000	0.819	0.928

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

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	
3:00 PM	0	3	2	4	1	9	0	11	139	3	1	153	0	74	5	13	0	92	0	5	197	40	0	242	496
3:15 PM	0	5	5	2	1	12	0	14	126	3	0	143	0	91	11	11	1	113	0	0	130	35	0	165	433
3:30 PM	0	3	2	3	0	8	0	14	137	2	0	153	0	77	8	10	0	95	0	2	181	45	0	228	484
3:45 PM	0	5	3	2	2	10	0	12	127	1	0	140	0	84	15	6	2	105	0	2	188	46	0	236	491
Peak Hour Total	0	16	12	11	4	39	0	51	529	9	1	589	0	326	39	40	3	405	0	9	696	166	0	871	1904
Peak Hour Heavy Vehicles	0	0	0	0	2	0	0	0	3	0	1	3	0	3	0	0	2	3	0	0	5	2	0	7	13
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	0.00%	0.00%	50.00%	0.00%	0.00%	0.00%	0.57%	0.00%	100.00%	0.51%	0.00%	0.92%	0.00%	0.00%	66.67%	0.74%	0.00%	0.00%	0.72%	1.20%	0.00%	0.80%	0.68%
	0.000	0.800	0.600	0.688	0.500	0.813	0.000	0.911	0.951	0.750	0.250	0.962	0.000	0.896	0.650	0.769	0.375	0.896	0.000	0.450	0.883	0.902	0.000	0.900	0.960

Total Vehicles On Leg			1042		
Vehicles Entering Intersection 479			Vehicles Exiting Intersection 563		
Southbound					
Cars	173	151	151	1	37
Heavy	0	2	1	0	20
Total	173	153	152	1	57



Total Vehicles on Leg 22672	Vehicles Entering Intersection 11635	Eastbound	Cars	Heavy	Total
			9	3	12
			32	0	32
	Vehicles Exiting Intersection 11037		100	0	100
			8384	112	8496
			2958	49	3007



Daily Volumes



Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 8089	Total Vehicles on Leg 17371
128	1	129		Vehicles Exiting Intersection 9282	
7258	98	7356			
590	8	598			
6	0	6			
74	15	89			

Total Vehicles On Leg			8195		
Vehicles Entering Intersection			Vehicles Exiting Intersection		
4437			3758		
Cars	38	0	3424	330	621
Heavy	38	0	52	3	7
Total	76	0	3476	333	628



TMC 2534 - CSAH 1 @ CSAH 14
Anoka MN
Wednesday, June 18, 2025

Time	Southbound Heavy 5th Ave						Westbound Heavy CSAH 14						Northbound Heavy CSAH 1						Eastbound Heavy Main St						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	1	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	1	0	0	0	1
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	1	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1
1:15 AM	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
1:30 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	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	3	0	0	0	3
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	1	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	1	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	1	0	0	0	1
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	1	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
4:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	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	1	0	0	0	1
4:30 AM	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
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	1	0	0	4
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
5:15 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	3
5:30 AM	0	0	0	0	1	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	1	0	0	0	0	1	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	2	0	0	2	0	1	0	0	0	0	1	0	0	4	1	0	5
6:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	0	0	1	0	0	2	1	0	3
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
6:30 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	3	0	0	0	0	3	0	0	3	1	0	4
6:45 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3	1	0	0	5
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	1	5	0	0	6	0	4	0	0	0	0	4	0	0	8	5	0	13
7:00 AM	0	0	1	0	0	1	0	0	4	0	0	4	0	1	0	0	0	0	1	0	0	3	1	0	4
7:15 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	0	0	1	0	0	2	0	0	2
7:30 AM	0	0	0	0	0	0	0	0	3	0	1	3	0	2	0	0	0	0	2	0	0	4	0	0	4
7:45 AM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	0	1	0	0	4	2	0	6
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	13	0	1	13	0	4	0	1	0	0	5	0	0	13	3	0	16

TMC 2534 - CSAH 1 @ CSAH 14

Anoka MN

Wednesday, June 18, 2025

Time	Southbound Heavy 5th Ave						Westbound Heavy CSAH 14						Northbound Heavy CSAH 1						Eastbound Heavy Main St						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	0	0	0	0	0	1	1	0	0	2	0	1	0	0	0	1	0	0	6	1	1	7	10
8:15 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	2	0	0	0	2	0	0	4	3	0	7	11
8:30 AM	0	0	0	0	1	0	0	0	2	0	0	2	0	2	0	0	0	2	0	0	4	1	0	5	9
8:45 AM	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	0	1	0	0	2	1	0	3	7	
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	2	8	0	0	10	0	5	0	0	1	5	0	0	16	6	1	22	37
9:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	0	1	0	0	0	0	0	0	4
9:15 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	0	1	0	0	3	1	0	4	8
9:30 AM	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	0	2	1	0	3	6
9:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	1	1	0	2	4
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	1	9	0	0	10	0	3	0	0	0	3	0	0	6	3	0	9	22
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	0	1	2	0	3	5
10:15 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	2	0	0	1	2	0	0	2	2	0	4	9
10:30 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	6	0	0	0	6	0	0	2	0	0	2	11
10:45 AM	0	0	0	0	0	0	0	0	2	0	5	2	0	1	0	0	0	1	0	0	2	2	0	4	7
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	8	0	5	8	0	11	0	0	2	11	0	0	7	6	0	13	32
11:00 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	1	1	0	0	2	0	0	2	3	0	5	9
11:15 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	3	0	0	0	3	1	0	4	6
11:30 AM	0	0	1	0	0	1	0	0	2	0	0	2	0	1	1	0	0	2	0	0	0	2	0	2	7
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	4	1	0	5	6
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	6	0	0	6	0	3	2	0	3	5	0	0	9	7	0	16	28
12:00 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	1	0	2	0	0	1	1	0	2	6
12:15 PM	0	0	0	0	0	0	0	0	2	0	1	2	0	1	0	0	0	1	0	0	1	1	0	2	5
12:30 PM	0	0	0	0	0	0	0	2	4	0	1	6	0	0	0	2	0	2	0	0	2	1	0	3	11
12:45 PM	0	0	0	0	0	0	0	0	8	0	0	8	0	2	0	0	0	2	0	0	2	1	0	3	13
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	2	16	0	2	18	0	3	1	3	0	7	0	0	6	4	0	10	35
1:00 PM	0	0	0	0	0	0	0	1	2	0	0	3	0	1	0	0	0	1	0	0	0	1	0	1	5
1:15 PM	0	0	0	0	0	0	0	1	1	0	0	2	0	1	0	2	0	3	0	0	3	3	0	6	11
1:30 PM	0	0	0	0	0	0	0	0	3	0	1	3	0	0	0	0	0	0	0	0	2	0	0	2	5
1:45 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	2
Hourly 'Heavy Vehicles'	0	1	0	0	0	1	0	2	6	0	1	8	0	2	0	2	1	4	0	0	5	5	0	10	23
2:00 PM	0	0	0	0	1	0	0	0	2	0	0	2	0	0	0	0	1	0	0	0	2	0	0	2	4
2:15 PM	0	0	0	0	0	0	0	0	2	0	1	2	0	0	0	0	0	0	0	0	3	0	0	3	5
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	1	2
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	4	0	1	4	0	1	0	0	2	1	0	0	7	1	0	8	13
3:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	3	1	0	4	5
3:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	1	0	1	3
3:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2
3:45 PM	0	0	0	0	2	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	1	0	0	1	3
Hourly 'Heavy Vehicles'	0	0	0	0	2	0	0	0	3	0	1	3	0	3	0	0	0	3	0	0	5	2	0	7	13

TMC 2534 - CSAH 1 @ CSAH 14
Anoka MN
Wednesday, June 18, 2025

Time	Southbound Heavy 5th Ave						Westbound Heavy CSAH 14						Northbound Heavy CSAH 1						Eastbound Heavy Main St						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	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1
4:15 PM	0	0	0	0	1	0	0	0	2	0	0	2	0	1	0	0	1	1	0	0	1	0	0	0	1
4:30 PM	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	0	0	0	2
4:45 PM	0	0	0	0	2	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	2	1	0	0	4
Hourly 'Heavy Vehicles'	0	0	0	0	7	0	0	0	2	0	2	2	0	2	0	0	3	2	0	0	6	1	0	7	11
5:00 PM	0	0	0	0	1	0	0	0	2	0	0	2	0	1	0	0	0	1	0	0	0	1	0	0	4
5:15 PM	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
5:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	2	3
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	4	0	0	4	0	3	0	0	0	3	0	0	1	2	0	3	10
6:00 PM	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	1	0	0	0	4
6:30 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
6:45 PM	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	0	0	0	1	0	0	4
Hourly 'Heavy Vehicles'	0	0	0	0	3	0	0	0	4	1	0	5	0	3	0	0	1	3	0	0	1	1	0	2	10
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
7:15 PM	0	0	0	0	2	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	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	2
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	2	0	0	2	3
8:00 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	1	1	2	0	0	0	0	0	0	4
8:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	5	0	0	0	1	0	0	0	2
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0
8:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	3	0	0	3	0	2	0	1	11	3	0	0	1	0	1	1	7
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	0	0	2	3
9:15 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	2
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
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	2	1	0	0	2	0	1	2	5
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
10:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
10:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
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	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	1
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	1
11:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	3	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	2	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	9	0	0	0	1	1	0	2	3
DAILY 'Heavy Vehicles'	0	1	2	0	20	3	0	8	98	1	15	107	0	52	3	7	38	62	0	0	112	49	3	161	333

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2534

Study Date : 08/04/2025

Signal Warrants - Summary

Major Street Approaches

Eastbound: Main St

Number of Lanes : 2+

Total Approach Volume: 11,635

Westbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 8,089

Minor Street Approaches

Northbound: CSAH 1

Number of Lanes : 2+

Total Approach Volume: 4,437

Southbound: 5th Ave

Number of Lanes : 1

Total Approach Volume: 479

Warrant Summary (Urban Values Apply)

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

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

Required volumes reached for 13 hours, 8 are needed

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

Required volumes reached for 14 hours, 8 are needed

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

Required 1A volumes reached for 14 hours, 8 are needed

Required 1B volumes reached for 15 hours, 8 are needed

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

Number of hours (14) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (56) 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 2534

Study Date : 08/04/2025

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

13 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Veh/Hr Major = **600**

Veh/Hr Minor = **200 150**

Major Road						Minor Road			
Main St						CSAH 1			
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?	
12:45 - 13:45	865	+	591	=	1456	262	23	Yes	
14:45 - 15:45	845	+	590	=	1435	363	37	Yes	
15:45 - 16:45	941	+	479	=	1420	413	60	Yes	
16:45 - 17:45	833	+	552	=	1385	359	33	Yes	
13:45 - 14:45	831	+	544	=	1375	355	33	Yes	
11:45 - 12:45	746	+	593	=	1339	282	29	Yes	
17:45 - 18:45	766	+	534	=	1300	263	25	Yes	
10:45 - 11:45	638	+	519	=	1157	295	31	Yes	
07:45 - 08:45	600	+	540	=	1140	254	37	Yes	
08:45 - 09:45	666	+	461	=	1127	240	28	Yes	
09:45 - 10:45	630	+	410	=	1040	253	33	Yes	
18:45 - 19:45	587	+	430	=	1017	202	24	Yes	
06:45 - 07:45	544	+	437	=	981	227	27	Yes	
06:30 - 07:30	555	+	407	=	962	192	22	No	
19:45 - 20:45	576	+	334	=	910	159	20	No	
20:00 - 21:00	549	+	316	=	865	154	21	No	
06:15 - 07:15	492	+	366	=	858	170	17	No	
20:15 - 21:15	516	+	305	=	821	134	17	No	
06:00 - 07:00	456	+	332	=	788	139	11	No	
20:30 - 21:30	483	+	267	=	750	131	11	No	
20:45 - 21:45	412	+	233	=	645	119	11	No	
05:45 - 06:45	351	+	288	=	639	126	7	No	
21:00 - 22:00	376	+	207	=	583	104	6	No	
21:15 - 22:15	331	+	192	=	523	92	3	No	
05:30 - 06:30	255		250		505	102	5	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2534

Study Date : 08/04/2025

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

14 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Veh/Hr Major = **900**

Veh/Hr Minor = **100 75**

Major Road						Minor Road			
Main St						CSAH 1			
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?	
12:30 - 13:30	852	+	581	=	1433	270	22	Yes	
16:30 - 17:30	888	+	531	=	1419	387	51	Yes	
15:30 - 16:30	905	+	509	=	1414	397	47	Yes	
14:30 - 15:30	812	+	578	=	1390	355	37	Yes	
13:30 - 14:30	835	+	541	=	1376	336	31	Yes	
17:30 - 18:30	791	+	567	=	1358	310	24	Yes	
11:30 - 12:30	707	+	625	=	1332	284	31	Yes	
10:30 - 11:30	660	+	483	=	1143	274	34	Yes	
07:30 - 08:30	589	+	537	=	1126	274	29	Yes	
08:30 - 09:30	638	+	475	=	1113	238	40	Yes	
18:30 - 19:30	650	+	449	=	1099	180	18	Yes	
09:30 - 10:30	627	+	400	=	1027	262	29	Yes	
06:30 - 07:30	555	+	407	=	962	192	22	Yes	
19:45 - 20:45	576	+	334	=	910	159	20	Yes	
19:30 - 20:30	549	+	335	=	884	183	29	No	
06:15 - 07:15	492	+	366	=	858	170	17	No	
06:00 - 07:00	456	+	332	=	788	139	11	No	
20:45 - 21:45	412	+	233	=	645	119	11	No	
05:45 - 06:45	351	+	288	=	639	126	7	No	
21:00 - 22:00	376	+	207	=	583	104	6	No	
21:15 - 22:15	331	+	192	=	523	92	3	No	
05:30 - 06:30	255	+	250	=	505	102	5	No	
21:30 - 22:30	288	+	170	=	458	77	2	No	
21:45 - 22:45	293	+	146	=	439	69	3	No	
05:15 - 06:15	191		220		411	90	7	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2534

Study Date : 08/04/2025

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

14 hours meet 1A minimums.
15 hours meet 1B minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Warrant 1A 1B
Veh/Hr Major = **480 720**
Veh/Hr Minor NB = **160 80**
Veh/Hr Minor SB = **120 60**

Major Road						Minor Road				
Main St						CSAH 1				
Time	Major EB	+	Major WB	=	Total	Minor NB		Minor SB		Met1A?
14:15 - 15:15	869	+	575	=	1444	336		36		Yes
12:15 - 13:15	837	+	589	=	1426	258		25		Yes
15:15 - 16:15	865	+	550	=	1415	404		47		Yes
16:15 - 17:15	898	+	504	=	1402	398		58		Yes
13:15 - 14:15	811	+	556	=	1367	316		24		Yes
17:15 - 18:15	779	+	587	=	1366	350		23		Yes
11:15 - 12:15	685	+	588	=	1273	312		29		Yes
18:15 - 19:15	729	+	452	=	1181	181		18		Yes
07:15 - 08:15	608	+	547	=	1155	266		26		Yes
10:15 - 11:15	663	+	458	=	1121	256		35		Yes
08:15 - 09:15	631	+	477	=	1108	243		44		Yes
09:15 - 10:15	613		405		1018	245		27		Yes

Time	Major EB	+	Major WB	=	Total	Minor NB		Minor SB		Met1B?
15:00 - 16:00	871	+	589	=	1460	405		39		Yes
13:00 - 14:00	860	+	560	=	1420	283		25		Yes
14:00 - 15:00	842	+	551	=	1393	344		31		Yes
17:00 - 18:00	817	+	566	=	1383	383		29		Yes
16:00 - 17:00	898	+	481	=	1379	395		64		Yes
12:00 - 13:00	770	+	604	=	1374	267		27		Yes
18:00 - 19:00	756	+	485	=	1241	193		17		Yes
11:00 - 12:00	664	+	569	=	1233	302		29		Yes
07:00 - 08:00	584	+	527	=	1111	263		30		Yes
08:00 - 09:00	588	+	501	=	1089	250		38		Yes
09:00 - 10:00	641	+	421	=	1062	242		27		Yes
10:00 - 11:00	623		422		1045	247		37		Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2534

Study Date : 08/04/2025

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.

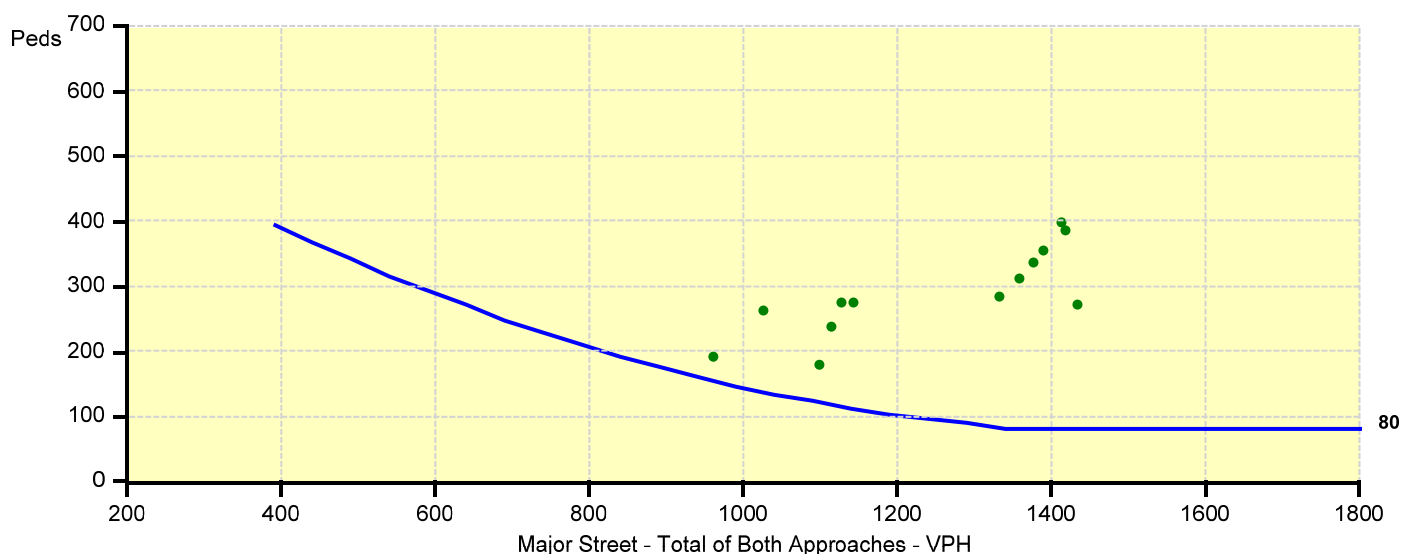
Summary

14 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road						Minor Road		
Main St						CSAH 1		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
12:30 - 13:30	852	+	581	=	1433	270	22	Yes
16:30 - 17:30	888	+	531	=	1419	387	51	Yes
15:30 - 16:30	905	+	509	=	1414	397	47	Yes
14:30 - 15:30	812	+	578	=	1390	355	37	Yes
13:30 - 14:30	835	+	541	=	1376	336	31	Yes
17:30 - 18:30	791	+	567	=	1358	310	24	Yes
11:30 - 12:30	707	+	625	=	1332	284	31	Yes
10:30 - 11:30	660	+	483	=	1143	274	34	Yes
07:30 - 08:30	589	+	537	=	1126	274	29	Yes
08:30 - 09:30	638	+	475	=	1113	238	40	Yes
18:30 - 19:30	650	+	449	=	1099	180	18	Yes
09:30 - 10:30	627	+	400	=	1027	262	29	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2534

Study Date : 08/04/2025

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.

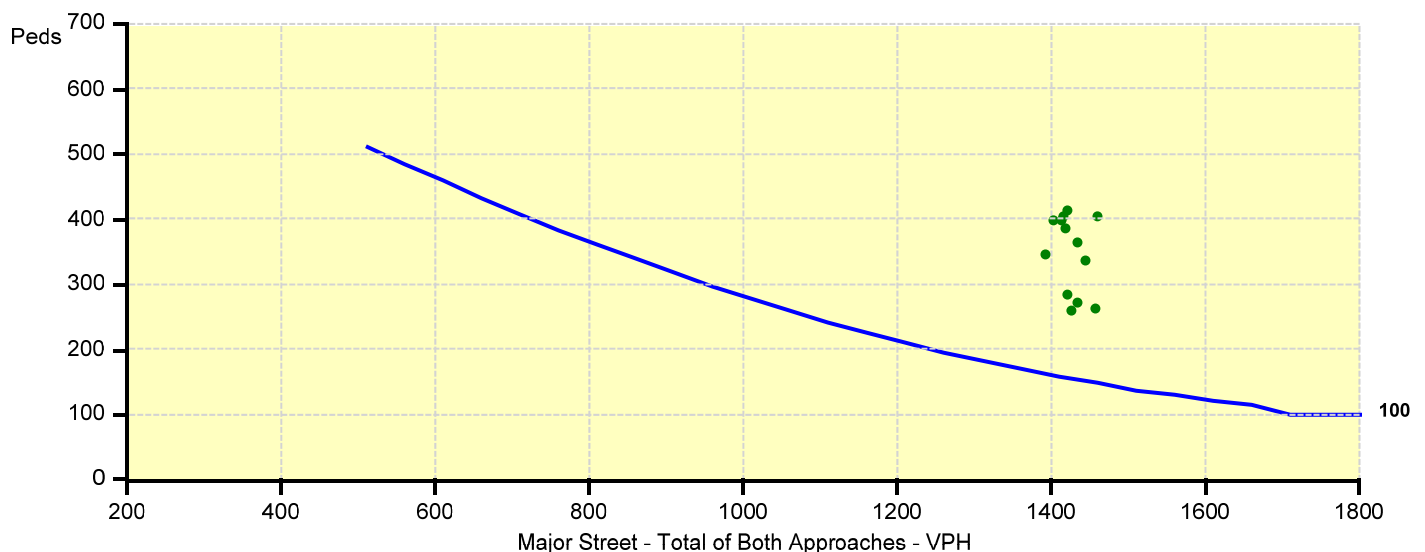
Summary

38 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road						Minor Road		
Main St						CSAH 1		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
15:00 - 16:00	871	+	589	=	1460	405	39	Yes
12:45 - 13:45	865	+	591	=	1456	262	23	Yes
14:15 - 15:15	869	+	575	=	1444	336	36	Yes
14:45 - 15:45	845	+	590	=	1435	363	37	Yes
12:30 - 13:30	852	+	581	=	1433	270	22	Yes
12:15 - 13:15	837	+	589	=	1426	258	25	Yes
15:45 - 16:45	941	+	479	=	1420	413	60	Yes
13:00 - 14:00	860	+	560	=	1420	283	25	Yes
16:30 - 17:30	888	+	531	=	1419	387	51	Yes
15:15 - 16:15	865	+	550	=	1415	404	47	Yes
15:30 - 16:30	905	+	509	=	1414	397	47	Yes
16:15 - 17:15	898	+	504	=	1402	398	58	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2534

Study Date : 08/07/2025 8:26:23 AM

Multiway Stop Warrants - Summary

Major Street Approaches

Eastbound: CSAH 1

Number of Lanes : 2+

Total Approach Volume: 4,437

Westbound: 5th Ave

Number of Lanes :2+

Total Approach Volume: 479

Minor Street Approaches

Northbound: Main St

Number of Lanes :2+

Total Approach Volume: 11,635

Southbound: CSAH 14

Number of Lanes :2+

Total Approach Volume: 8,089

Warrant Summary (Urban 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..... **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?
15:00 - 16:00	444	357.8	1469	1379.8	300	200	Yes
16:15 - 17:15	456		1430				
14:00 - 15:00	375		1474				
12:45 - 13:45	285		1470				
17:15 - 18:15	373		1406				
11:45 - 12:45	311		1365				
10:45 - 11:45	326		1267				
07:15 - 08:15	292		1157				
08:15 - 09:15	287		1117				
18:15 - 19:15	199		1191				
09:45 - 10:45	286		1061				
19:15 - 20:15	229		904				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:00 - 16:00	444	357.8	1469	1379.8	240	160	Yes
16:15 - 17:15	456		1430				
14:00 - 15:00	375		1474				
12:45 - 13:45	285		1470				
17:15 - 18:15	373		1406				
11:45 - 12:45	311		1365				
10:45 - 11:45	326		1267				
07:15 - 08:15	292		1157				
08:15 - 09:15	287		1117				
18:15 - 19:15	199		1191				
09:45 - 10:45	286		1061				
19:15 - 20:15	229		904				