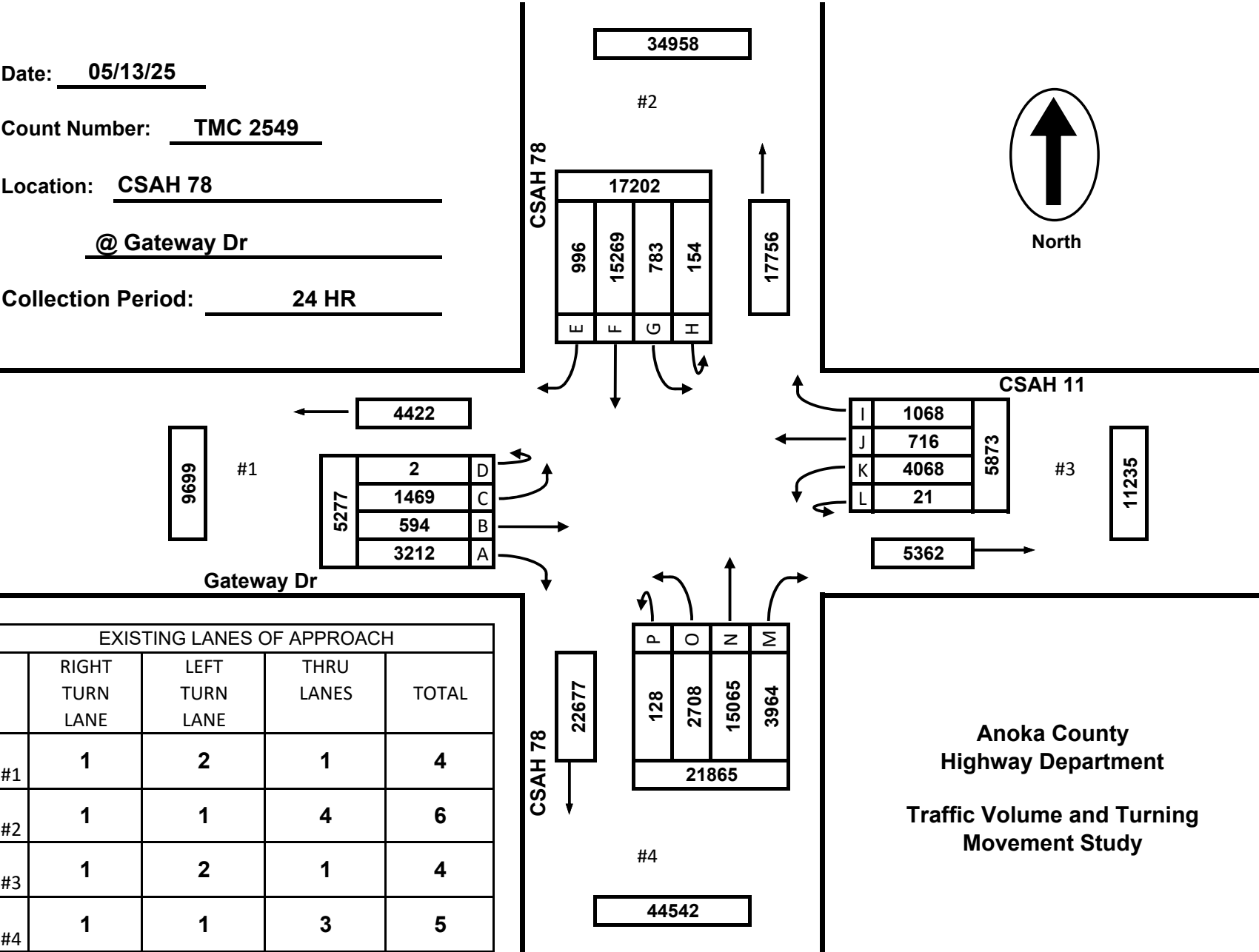


Date: 05/13/25
Count Number: TMC 2549
Location: CSAH 78
@ Gateway Dr
Collection Period: 24 HR



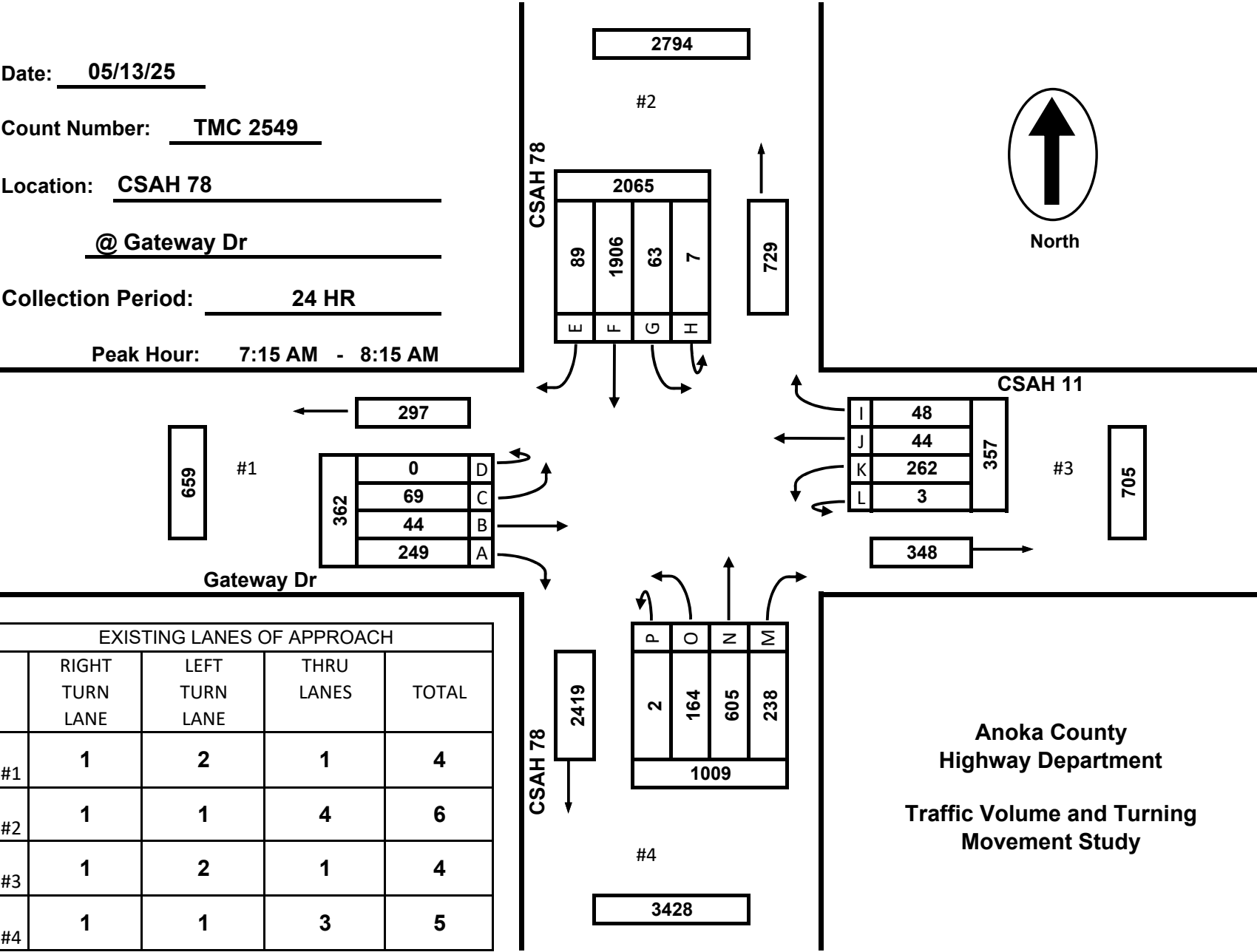
Date: 05/13/25

Count Number: TMC 2549

Location: CSAH 78
@ Gateway Dr

Collection Period: 24 HR

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



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

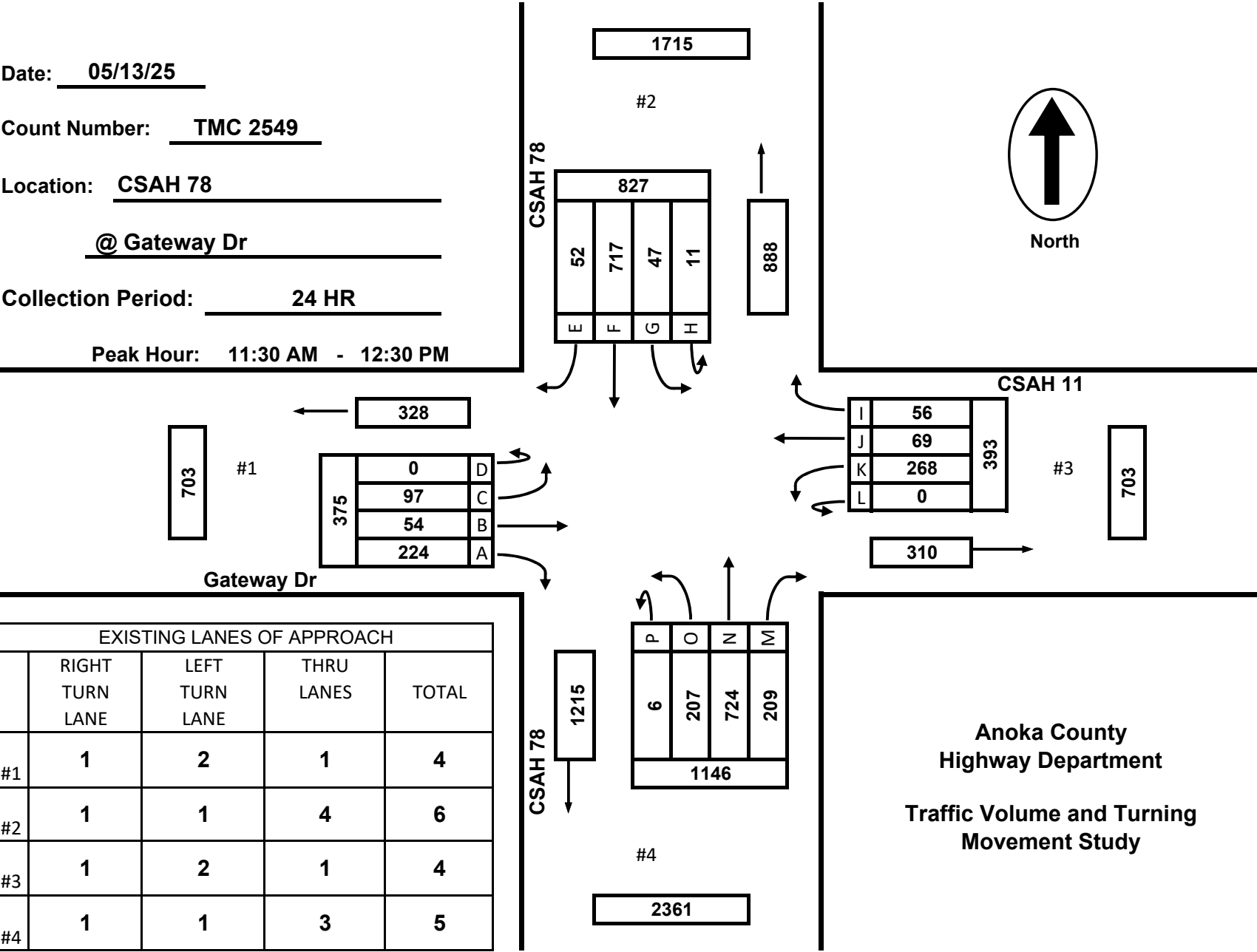
Date: 05/13/25

Count Number: TMC 2549

Location: CSAH 78
@ Gateway Dr

Collection Period: 24 HR

Peak Hour: 11:30 AM - 12:30 PM



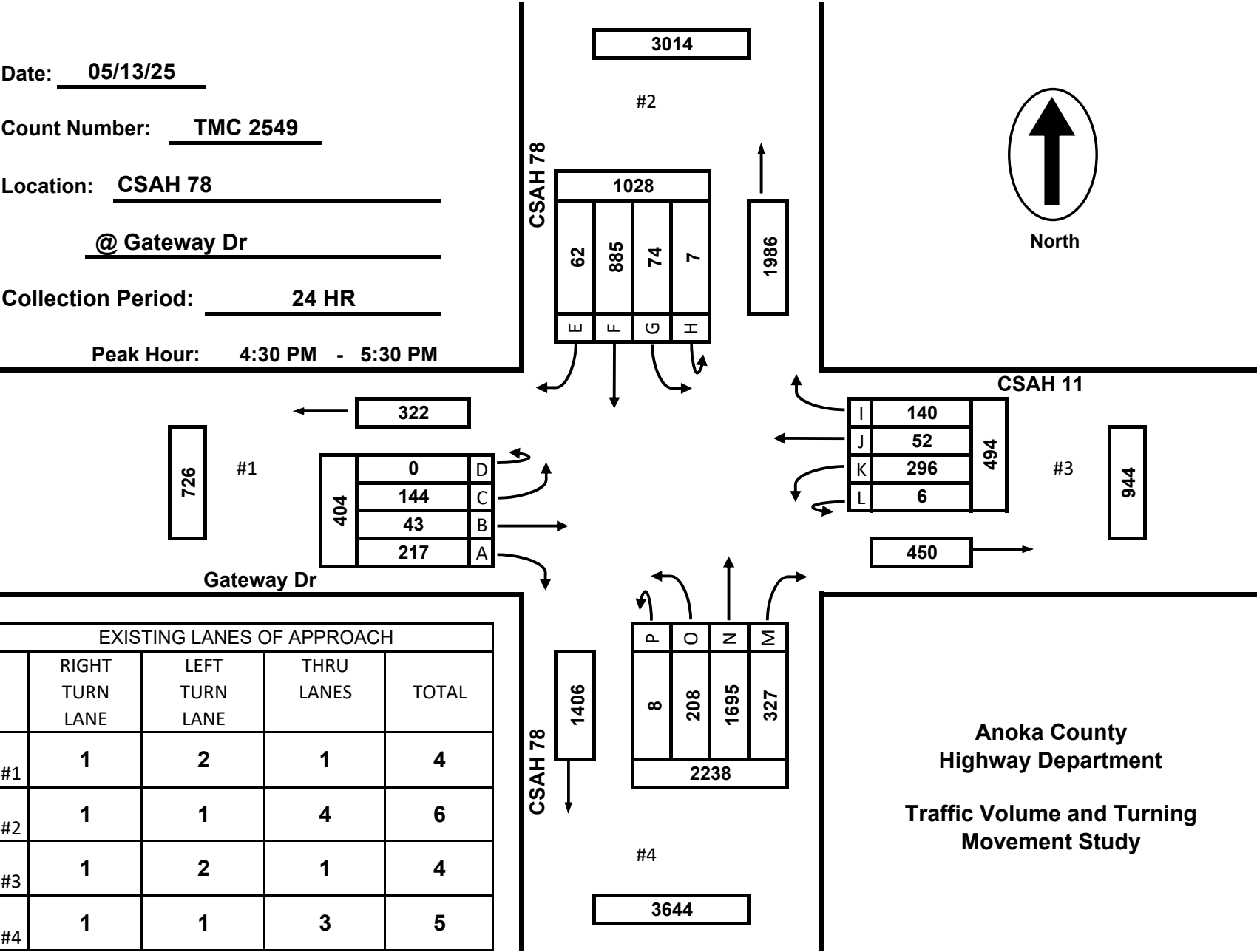
Date: 05/13/25

Count Number: TMC 2549

Location: CSAH 78
@ Gateway Dr

Collection Period: 24 HR

Peak Hour: 4:30 PM - 5:30 PM



TMC 2549 - CSAH 78 @ Gateway Dr
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound CSAH 78						Westbound CSAH 11						Northbound CSAH 78						Eastbound Gateway Dr						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	12	2	0	14	0	2	3	1	0	6	2	5	33	10	0	50	0	6	3	6	0	15	85
12:15 AM	0	0	16	2	0	18	0	1	2	0	0	3	2	4	23	8	0	37	0	2	2	5	0	9	67
12:30 AM	0	1	11	0	0	12	0	6	0	2	0	8	1	4	15	0	0	20	0	1	2	8	1	11	51
12:45 AM	0	0	6	0	0	6	0	2	0	0	0	2	0	6	11	6	0	23	0	3	0	5	0	8	39
Hourly Total	0	1	45	4	0	50	0	11	5	3	0	19	5	19	82	24	0	130	0	12	7	24	1	43	242
1:00 AM	0	1	13	1	0	15	0	2	0	1	0	3	0	5	23	10	0	38	0	2	0	3	0	5	61
1:15 AM	0	1	14	1	0	16	0	2	0	1	0	3	1	3	18	2	0	24	0	0	1	3	0	4	47
1:30 AM	0	0	3	2	0	5	0	1	0	0	0	1	0	2	10	2	0	14	0	3	0	5	0	8	28
1:45 AM	0	0	8	1	0	9	0	3	0	1	0	4	0	1	11	3	0	15	0	1	0	2	0	3	31
Hourly Total	0	2	38	5	0	45	0	8	0	3	0	11	1	11	62	17	0	91	0	6	1	13	0	20	167
2:00 AM	0	1	5	1	0	7	0	2	0	0	0	2	0	0	15	5	0	20	0	0	0	1	0	1	30
2:15 AM	0	0	4	0	0	4	0	3	1	1	0	5	0	0	13	3	0	16	0	0	0	3	0	3	28
2:30 AM	0	0	8	0	0	8	0	5	1	0	0	6	0	0	16	0	0	16	0	0	0	1	0	1	31
2:45 AM	0	0	7	2	0	9	0	0	0	0	0	0	0	4	14	2	0	20	0	2	1	0	0	3	32
Hourly Total	0	1	24	3	0	28	0	10	2	1	0	13	0	4	58	10	0	72	0	2	1	5	0	8	121
3:00 AM	0	0	14	1	0	15	0	0	1	0	0	1	0	2	6	3	0	11	0	2	1	5	0	8	35
3:15 AM	0	0	23	1	0	24	0	1	1	0	0	2	0	0	10	2	0	12	0	1	1	2	0	4	42
3:30 AM	0	0	24	2	0	26	0	6	0	0	0	6	0	0	8	2	0	10	0	0	0	4	0	4	46
3:45 AM	0	1	19	2	0	22	0	1	0	2	0	3	0	1	12	3	0	16	0	0	0	3	0	3	44
Hourly Total	0	1	80	6	0	87	0	8	2	2	0	12	0	3	36	10	0	49	0	3	2	14	0	19	167
4:00 AM	0	0	30	0	0	30	0	5	1	1	0	7	0	9	8	5	0	22	0	1	0	3	0	4	63
4:15 AM	0	1	54	2	0	57	0	4	2	1	0	7	0	9	5	4	0	18	0	0	1	7	0	8	90
4:30 AM	0	1	73	3	0	77	0	11	1	2	0	14	1	3	11	8	0	23	0	0	0	10	0	10	124
4:45 AM	0	2	79	2	0	83	0	8	2	1	0	11	2	6	14	14	0	36	0	1	2	8	1	11	141
Hourly Total	0	4	236	7	0	247	0	28	6	5	0	39	3	27	38	31	0	99	0	2	3	28	1	33	418
5:00 AM	0	1	105	12	0	118	0	14	3	1	0	18	1	7	14	13	0	35	0	1	4	12	0	17	188
5:15 AM	0	3	177	13	0	193	0	17	1	3	0	21	0	7	22	22	0	51	0	2	1	26	0	29	294
5:30 AM	0	1	214	13	0	228	0	25	5	4	0	34	0	10	49	32	0	91	0	0	2	32	0	34	387
5:45 AM	0	5	232	6	0	243	0	25	3	3	0	31	0	25	36	37	0	98	0	1	2	21	0	24	396
Hourly Total	0	10	728	44	0	782	0	81	12	11	0	104	1	49	121	104	0	275	0	4	9	91	0	104	1265
6:00 AM	1	1	242	15	0	259	0	25	7	1	0	33	0	23	59	21	0	103	0	9	0	34	0	43	438
6:15 AM	3	5	326	21	0	355	0	34	6	3	0	43	0	22	107	37	0	166	0	5	7	43	0	55	619
6:30 AM	1	8	377	16	0	402	0	47	6	3	0	56	1	30	109	51	0	191	0	6	6	47	0	59	708
6:45 AM	0	9	407	19	0	435	0	38	6	5	0	49	0	39	124	44	0	207	0	7	6	60	0	73	764
Hourly Total	5	23	1352	71	0	1451	0	144	25	12	0	181	1	114	399	153	0	667	0	27	19	184	0	230	2529
7:00 AM	0	12	449	26	0	487	0	69	17	6	0	92	1	32	124	45	0	202	0	8	3	61	0	72	853
7:15 AM	0	7	519	18	0	544	0	87	8	11	0	106	1	43	134	48	0	226	0	20	10	54	0	84	960
7:30 AM	0	13	485	21	0	519	1	79	9	11	0	100	1	38	168	52	0	259	0	18	10	65	0	93	971
7:45 AM	4	22	492	24	0	542	2	50	17	20	0	89	0	40	140	67	0	247	0	17	12	62	0	91	969
Hourly Total	4	54	1945	89	0	2092	3	285	51	48	0	387	3	153	566	212	0	934	0	63	35	242	0	340	3753

TMC 2549 - CSAH 78 @ Gateway Dr
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound CSAH 78						Westbound CSAH 11						Northbound CSAH 78						Eastbound Gateway Dr						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	3	21	410	26	0	460	0	46	10	6	0	62	0	43	163	71	0	277	0	14	12	68	0	94	893
8:15 AM	6	14	330	29	0	379	0	45	13	14	0	72	0	49	146	54	0	249	0	21	11	69	2	101	801
8:30 AM	4	8	276	6	0	294	0	67	10	5	0	82	0	34	169	56	0	259	0	22	6	48	0	76	711
8:45 AM	5	10	267	19	0	301	0	47	12	13	0	72	2	47	144	53	0	246	0	15	6	37	0	58	677
Hourly Total	18	53	1283	80	0	1434	0	205	45	38	0	288	2	173	622	234	0	1031	0	72	35	222	2	329	3082
9:00 AM	1	11	235	18	1	265	0	56	10	9	0	75	1	32	133	47	0	213	0	13	9	46	0	68	621
9:15 AM	1	13	301	17	0	332	0	61	8	11	0	80	0	45	171	55	0	271	0	8	11	47	0	66	749
9:30 AM	8	11	238	18	0	275	0	71	11	11	0	93	0	36	149	62	0	247	0	21	6	46	0	73	688
9:45 AM	2	9	224	13	0	248	0	57	7	13	0	77	2	51	156	55	0	264	0	15	7	47	0	69	658
Hourly Total	12	44	998	66	1	1120	0	245	36	44	0	325	3	164	609	219	0	995	0	57	33	186	0	276	2716
10:00 AM	3	4	210	8	0	225	2	58	5	8	0	73	0	35	153	51	0	239	0	13	11	46	0	70	607
10:15 AM	4	5	185	12	0	206	0	59	12	5	0	76	2	30	157	55	0	244	0	28	6	34	0	68	594
10:30 AM	3	11	193	18	0	225	0	45	10	9	0	64	1	29	145	57	0	232	0	18	5	55	0	78	599
10:45 AM	0	8	167	14	0	189	2	69	12	13	0	96	1	37	156	59	0	253	0	12	13	38	0	63	601
Hourly Total	10	28	755	52	0	845	4	231	39	35	0	309	4	131	611	222	0	968	0	71	35	173	0	279	2401
11:00 AM	4	10	174	20	0	208	0	67	15	11	0	93	0	40	178	46	0	264	0	19	9	43	0	71	636
11:15 AM	3	7	174	14	0	198	0	50	10	12	0	72	0	53	197	52	0	302	0	24	13	37	0	74	646
11:30 AM	3	12	177	16	0	208	0	77	11	9	0	97	0	43	191	54	0	288	0	26	11	56	0	93	686
11:45 AM	4	11	194	14	0	223	0	57	17	11	0	85	1	56	185	59	0	301	0	15	12	58	0	85	694
Hourly Total	14	40	719	64	0	837	0	251	53	43	0	347	1	192	751	211	0	1155	0	84	45	194	0	323	2662
12:00 PM	2	13	160	12	0	187	0	65	23	25	0	113	3	57	168	49	0	277	0	26	18	55	0	99	676
12:15 PM	2	11	186	10	0	209	0	69	18	11	0	98	2	51	180	47	0	280	0	30	13	55	0	98	685
12:30 PM	5	9	163	8	0	185	0	56	12	10	0	78	2	54	180	40	0	276	0	23	14	51	0	88	627
12:45 PM	1	9	185	13	0	208	0	63	18	10	0	91	1	41	204	63	0	309	0	27	16	40	0	83	691
Hourly Total	10	42	694	43	0	789	0	253	71	56	0	380	8	203	732	199	0	1142	0	106	61	201	0	368	2679
1:00 PM	1	13	162	10	0	186	1	54	15	9	0	79	3	43	183	55	0	284	0	23	14	46	0	83	632
1:15 PM	1	11	150	15	0	177	0	44	15	10	0	69	1	47	204	48	0	300	0	35	10	45	0	90	636
1:30 PM	3	17	183	13	0	216	0	50	8	11	0	69	2	43	239	45	0	329	0	21	11	38	0	70	684
1:45 PM	4	11	191	13	0	219	0	61	6	8	0	75	2	35	223	67	0	327	0	21	3	51	0	75	696
Hourly Total	9	52	686	51	0	798	1	209	44	38	0	292	8	168	849	215	0	1240	0	100	38	180	0	318	2648
2:00 PM	1	9	186	13	0	209	0	79	15	17	0	111	4	45	244	65	0	358	0	22	8	51	0	81	759
2:15 PM	2	14	192	12	0	220	0	84	7	13	0	104	4	41	262	81	0	388	1	21	10	60	0	92	804
2:30 PM	1	5	173	17	0	196	0	64	9	22	0	95	1	49	324	81	0	455	0	31	10	44	0	85	831
2:45 PM	2	14	193	15	0	224	0	60	11	15	0	86	3	44	349	65	0	461	0	26	9	48	0	83	854
Hourly Total	6	42	744	57	0	849	0	287	42	67	0	396	12	179	1179	292	0	1662	1	100	37	203	0	341	3248
3:00 PM	3	12	224	11	0	250	0	77	9	25	0	111	1	43	346	72	0	462	0	27	10	44	0	81	904
3:15 PM	3	5	196	16	0	220	0	102	17	22	0	141	3	44	363	81	0	491	0	20	10	47	0	77	929
3:30 PM	1	5	223	12	0	241	0	102	13	32	0	147	5	32	382	98	0	517	0	30	6	59	0	95	1000
3:45 PM	4	10	175	14	0	203	0	75	15	32	0	122	0	43	354	96	0	493	0	28	13	46	0	87	905
Hourly Total	11	32	818	53	0	914	0	356	54	111	0	521	9	162	1445	347	0	1963	0	105	39	196	0	340	3738

TMC 2549 - CSAH 78 @ Gateway Dr
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound CSAH 78						Westbound CSAH 11						Northbound CSAH 78						Eastbound Gateway Dr						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	2	17	206	12	5	237	0	97	18	32	0	147	2	46	399	67	0	514	0	35	8	46	5	89	987
4:15 PM	3	10	268	14	1	295	0	95	15	31	0	141	2	40	415	59	0	516	0	27	10	66	0	103	1055
4:30 PM	3	12	219	9	4	243	0	93	18	38	0	149	2	57	406	74	0	539	0	35	13	49	0	97	1028
4:45 PM	2	14	218	17	0	251	0	77	11	30	0	118	3	45	454	73	0	575	0	32	14	49	0	95	1039
Hourly Total	10	53	911	52	10	1026	0	362	62	131	0	555	9	188	1674	273	0	2144	0	129	45	210	5	384	4109
5:00 PM	0	22	219	18	0	259	5	71	13	35	0	124	2	46	412	85	0	545	0	39	7	63	0	109	1037
5:15 PM	2	26	229	18	4	275	1	55	10	37	0	103	1	60	423	95	0	579	0	38	9	56	4	103	1060
5:30 PM	7	24	222	15	3	268	0	47	7	18	0	72	2	41	381	89	0	513	0	32	9	62	0	103	966
5:45 PM	5	28	232	14	5	279	0	64	5	18	0	87	1	32	342	96	0	471	0	25	8	35	0	68	905
Hourly Total	14	100	902	65	12	1081	6	237	35	108	0	386	6	179	1558	365	0	2108	0	134	33	216	4	383	3958
6:00 PM	2	19	180	10	9	211	1	64	13	13	0	91	3	34	299	83	0	419	0	25	8	45	0	78	799
6:15 PM	1	11	182	16	0	210	1	50	10	13	0	74	1	29	305	71	0	406	0	24	7	47	0	78	768
6:30 PM	3	15	192	8	0	218	0	70	10	11	0	91	3	29	235	58	0	325	0	20	14	36	1	70	704
6:45 PM	3	23	177	7	5	210	0	49	7	34	2	90	4	42	216	61	0	323	0	11	7	33	0	51	674
Hourly Total	9	68	731	41	14	849	2	233	40	71	2	346	11	134	1055	273	0	1473	0	80	36	161	1	277	2945
7:00 PM	3	18	149	8	0	178	0	61	8	19	0	88	1	29	250	60	0	340	0	23	7	37	0	67	673
7:15 PM	4	10	122	18	0	154	0	53	6	17	0	76	1	37	222	54	0	314	0	21	7	33	5	61	605
7:30 PM	2	20	127	11	1	160	0	69	11	30	0	110	0	30	167	53	0	250	0	38	10	39	0	87	607
7:45 PM	2	12	118	7	1	139	1	48	6	14	0	69	7	20	187	47	0	261	0	16	7	29	0	52	521
Hourly Total	11	60	516	44	2	631	1	231	31	80	0	343	9	116	826	214	0	1165	0	98	31	138	5	267	2406
8:00 PM	3	8	117	9	1	137	3	59	7	25	0	94	1	42	164	45	0	252	0	17	2	29	5	48	531
8:15 PM	3	4	130	9	0	146	0	46	7	21	0	74	3	24	199	45	0	271	0	22	6	29	0	57	548
8:30 PM	2	7	118	5	0	132	0	32	2	17	0	51	5	22	214	36	0	277	0	21	4	27	0	52	512
8:45 PM	1	9	117	7	1	134	0	54	4	14	0	72	3	30	163	33	0	229	0	18	4	18	0	40	475
Hourly Total	9	28	482	30	2	549	3	191	20	77	0	291	12	118	740	159	0	1029	0	78	16	103	5	197	2066
9:00 PM	0	4	96	11	0	111	0	21	4	7	0	32	3	26	153	27	0	209	0	23	6	25	0	54	406
9:15 PM	0	9	85	7	0	101	0	30	4	14	0	48	1	21	117	24	0	163	0	13	1	24	0	38	350
9:30 PM	0	1	86	8	0	95	0	13	4	7	0	24	1	27	118	20	0	166	0	14	4	30	0	48	333
9:45 PM	0	8	54	9	0	71	0	25	5	20	0	50	4	23	103	14	1	144	0	12	4	24	0	40	305
Hourly Total	0	22	321	35	0	378	0	89	17	48	0	154	9	97	491	85	1	682	0	62	15	103	0	180	1394
10:00 PM	1	3	57	2	0	63	1	21	4	8	0	34	1	19	99	19	0	138	0	13	3	19	0	35	270
10:15 PM	1	3	56	9	1	69	0	17	3	11	0	31	1	20	107	14	0	142	0	7	3	17	0	27	269
10:30 PM	0	6	45	8	0	59	0	24	3	8	0	35	2	13	73	17	0	105	0	19	0	25	0	44	243
10:45 PM	0	2	31	3	0	36	0	5	2	4	0	11	0	19	58	12	0	89	1	13	1	13	0	28	164
Hourly Total	2	14	189	22	1	227	1	67	12	31	0	111	4	71	337	62	0	474	1	52	7	74	0	134	946
11:00 PM	0	3	20	3	0	26	0	13	2	1	0	16	2	16	64	11	0	93	0	6	4	15	0	25	160
11:15 PM	0	1	20	2	0	23	0	24	5	2	0	31	1	9	72	7	0	89	0	6	2	13	0	21	164
11:30 PM	0	3	18	6	0	27	0	6	3	2	0	11	1	16	52	6	0	75	0	8	2	11	0	21	134
11:45 PM	0	2	14	1	0	17	0	3	2	0	0	5	3	12	36	9	0	60	0	2	3	12	0	17	99
Hourly Total	0	9	72	12	0	93	0	46	12	5	0	63	7	53	224	33	0	317	0	22	11	51	0	84	557
DAILY TOTAL	154	783	15269	996	42	17202	21	4068	716	1068	2	5873	128	2708	15065	3964	1	21865	2	1469	594	3212	24	5277	50217
Cars	154	759	14946	985	18	16844	21	3835	704	1034	0	5594	126	2681	14672	3650	1	21129	2	1460	582	3168	16	5212	48779
Heavy Vehicles	0	24	323	11	24	358	0	233	12	34	2	279	2	27	393	314	0	736	0	9	12	44	8	65	1438
Heavy Vehicle %	0.00%	3.07%	2.12%	1.10%	57.14%	2.08%	0.00%	5.73%	1.68%	3.18%	100.00%	4.75%	1.56%	1.00%	2.61%	7.92%	0.00%	3.37%	0.00%	0.61%	2.02%	1.37%	33.33%	1.23%	2.86%

TMC 2549 - CSAH 78 @ Gateway Dr
Coon Rapids MN
Tuesday, May 13, 2025
AM Peak Hour (00:00 to 10:00)

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
7:15 AM	0	7	519	18	0	544	0	87	8	11	0	106	1	43	134	48	0	226	0	20	10	54	0	84	960
7:30 AM	0	13	485	21	0	519	1	79	9	11	0	100	1	38	168	52	0	259	0	18	10	65	0	93	971
7:45 AM	4	22	492	24	0	542	2	50	17	20	0	89	0	40	140	67	0	247	0	17	12	62	0	91	969
8:00 AM	3	21	410	26	0	460	0	46	10	6	0	62	0	43	163	71	0	277	0	14	12	68	0	94	893
Peak Hour Total	7	63	1906	89	0	2065	3	262	44	48	0	357	2	164	605	238	0	1009	0	69	44	249	0	362	3793
Peak Hour Heavy Vehicles	0	2	35	3	0	40	0	21	1	5	0	27	0	4	34	25	0	63	0	1	2	6	0	9	139
Peak Hour Heavy Vehicles %	0.00%	3.17%	1.84%	3.37%	0.00%	1.94%	0.00%	8.02%	2.27%	10.42%	0.00%	7.56%	0.00%	2.44%	5.62%	10.50%	0.00%	6.24%	0.00%	1.45%	4.55%	2.41%	0.00%	2.49%	3.66%
PHF	0.438	0.716	0.918	0.856	0.000	0.949	0.375	0.753	0.647	0.600	0.000	0.842	0.500	0.953	0.900	0.838	0.000	0.911	0.000	0.863	0.917	0.915	0.000	0.963	0.977

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

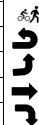
Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
11:30 AM	3	12	177	16	0	208	0	77	11	9	0	97	0	43	191	54	0	288	0	26	11	56	0	93	686
11:45 AM	4	11	194	14	0	223	0	57	17	11	0	85	1	56	185	59	0	301	0	15	12	58	0	85	694
12:00 PM	2	13	160	12	0	187	0	65	23	25	0	113	3	57	168	49	0	277	0	26	18	55	0	99	676
12:15 PM	2	11	186	10	0	209	0	69	18	11	0	98	2	51	180	47	0	280	0	30	13	55	0	98	685
Peak Hour Total	11	47	717	52	0	827	0	268	69	56	0	393	6	207	724	209	0	1146	0	97	54	224	0	375	2741
Peak Hour Heavy Vehicles	0	3	17	0	0	20	0	27	1	8	0	36	0	5	27	17	0	49	0	2	2	6	0	10	115
Peak Hour Heavy Vehicles %	0.00%	6.38%	2.37%	0.00%	0.00%	2.42%	0.00%	10.07%	1.45%	14.29%	0.00%	9.16%	0.00%	2.42%	3.73%	8.13%	0.00%	4.28%	0.00%	2.06%	3.70%	2.68%	0.00%	2.67%	4.20%
PHF	0.688	0.904	0.924	0.813	0.000	0.927	0.000	0.870	0.750	0.560	0.000	0.869	0.500	0.908	0.948	0.886	0.000	0.952	0.000	0.808	0.750	0.966	0.000	0.947	0.987

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

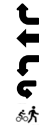
Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:30 PM	3	12	219	9	4	243	0	93	18	38	0	149	2	57	406	74	0	539	0	35	13	49	0	97	1028
4:45 PM	2	14	218	17	0	251	0	77	11	30	0	118	3	45	454	73	0	575	0	32	14	49	0	95	1039
5:00 PM	0	22	219	18	0	259	5	71	13	35	0	124	2	46	412	85	0	545	0	39	7	63	0	109	1037
5:15 PM	2	26	229	18	4	275	1	55	10	37	0	103	1	60	423	95	0	579	0	38	9	56	4	103	1060
Peak Hour Total	7	74	885	62	8	1028	6	296	52	140	0	494	8	208	1695	327	0	2238	0	144	43	217	4	404	4164
Peak Hour Heavy Vehicles	0	1	10	0	4	11	0	5	0	0	0	5	0	1	26	15	4	42	0	1	1	2	4	4	62
Peak Hour Heavy Vehicles %	0.00%	1.35%	1.13%	0.00%	50.00%	1.07%	0.00%	1.69%	0.00%	0.00%	0.00%	1.01%	0.00%	0.48%	1.53%	4.59%	0.00%	1.88%	0.00%	0.69%	2.33%	0.92%	100.00%	0.99%	1.49%
PHF	0.583	0.712	0.966	0.861	0.500	0.935	0.300	0.796	0.722	0.921	0.000	0.829	0.667	0.867	0.933	0.861	0.000	0.966	0.000	0.923	0.768	0.861	0.250	0.927	0.982

Total Vehicles On Leg			34958		
Vehicles Entering Intersection 17202			Vehicles Exiting Intersection 17756		
Southbound					
Cars	985	14946	759	154	18
Heavy	11	323	24	0	24
Total	996	15269	783	154	42

Total Vehicles on Leg 9699	Vehicles Entering Intersection 5277	Eastbound	Cars	Heavy	Total
	Exiting Intersection 4422		16	8	24
			2	0	2
			1460	9	1469
			582	12	594
			3168	44	3212



Daily Volumes



Cars	Heavy	Total	Westbound	Vehicles Entering Intersection	Total Vehicles on Leg 11235
1034	34	1068		n 5873	
704	12	716		Exiting Intersection	
3835	233	4068		n 5362	
21	0	21			
0	2	2			

					
Cars	1	126	2681	14672	3650
Heavy	0	2	27	393	314
Total	1	128	2708	15065	3964
Northbound					
Vehicles Entering Intersection 21865			Vehicles Exiting Intersection 22677		
Total Vehicles On Leg			44542		

TMC 2549 - CSAH 78 @ Gateway Dr
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy CSAH 11						Northbound Heavy CSAH 78						Eastbound Heavy Gateway Dr						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	0	0	0	0	0	0	0	0	0	0	0	0	1	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	1	0	1	0	0	0	0	0	0	1
12:30 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	2	0	0	0	1	0	1	4
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	2
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	1	0	0	1	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	4
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	1	0	0	0	1	0	1	0	3	0	4	0	0	0	1	0	1	7
2:00 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
2:15 AM	0	0	0	0	0	0	0	1	0	0	0	1	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	2	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	2	0	2	0	0	0	0	0	0	4
3:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
3:15 AM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	4
3:30 AM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	3	0	0	3	0	1	1	0	0	2	0	0	0	4	0	4	0	0	0	1	0	1	10
4:00 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	2
4:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	1	3
4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
4:45 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	2
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	2	0	0	0	2	0	0	2	2	0	4	0	0	0	1	1	1	8
5:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	0	4
5:15 AM	0	0	3	0	0	3	0	4	0	0	0	4	0	0	1	1	0	2	0	0	0	0	0	0	9
5:30 AM	0	0	1	1	0	2	0	0	0	1	0	1	0	0	1	3	0	4	0	0	0	0	0	0	7
5:45 AM	0	0	4	0	0	4	0	3	0	0	0	3	0	1	0	1	0	2	0	0	0	0	0	0	9
Hourly 'Heavy Vehicles'	0	0	9	1	0	10	0	7	0	1	0	8	0	1	3	7	0	11	0	0	0	0	0	0	29
6:00 AM	0	0	6	0	0	6	0	1	0	0	0	1	0	0	7	5	0	12	0	0	0	0	0	0	19
6:15 AM	0	0	8	0	0	8	0	2	0	0	0	2	0	0	6	4	0	10	0	0	0	0	0	0	20
6:30 AM	0	1	17	0	0	18	0	5	0	0	0	5	1	0	6	2	0	9	0	0	0	0	0	0	32
6:45 AM	0	0	6	0	0	6	0	8	0	0	0	8	0	0	5	4	0	9	0	0	0	0	0	0	23
Hourly 'Heavy Vehicles'	0	1	37	0	0	38	0	16	0	0	0	16	1	0	24	15	0	40	0	0	0	0	0	0	94
7:00 AM	0	0	7	1	0	8	0	9	1	0	0	10	0	0	6	5	0	11	0	0	0	1	0	1	30
7:15 AM	0	0	6	0	0	6	0	7	0	0	0	7	0	1	7	6	0	14	0	0	1	2	0	3	30
7:30 AM	0	1	13	0	0	14	0	5	1	0	0	6	0	0	6	5	0	11	0	1	0	1	0	2	33
7:45 AM	0	1	2	0	0	3	0	5	0	5	0	10	0	1	10	6	0	17	0	0	0	0	0	0	30
Hourly 'Heavy Vehicles'	0	2	28	1	0	31	0	26	2	5	0	33	0	2	29	22	0	53	0	1	1	4	0	6	123

**TMC 2549 - CSAH 78 @ Gateway Dr
Coon Rapids MN
Tuesday, May 13, 2025**

Time	Southbound Heavy CSAH 78						Westbound Heavy CSAH 11						Northbound Heavy CSAH 78						Eastbound Heavy Gateway Dr						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	14	3	0	17	0	4	0	0	0	4	0	2	11	8	0	21	0	0	1	3	0	4	46
8:15 AM	0	0	6	0	0	6	0	5	0	0	0	5	0	0	12	9	0	21	0	0	0	2	0	2	34
8:30 AM	0	0	4	0	0	4	0	9	0	1	0	10	0	0	7	6	0	13	0	1	0	1	0	2	29
8:45 AM	0	2	10	0	0	12	0	8	1	1	0	10	0	0	5	8	0	13	0	0	0	0	0	0	35
Hourly 'Heavy Vehicles'	0	2	34	3	0	39	0	26	1	2	0	29	0	2	35	31	0	68	0	1	1	6	0	8	144
9:00 AM	0	2	7	0	0	9	0	4	0	0	0	4	0	2	6	6	0	14	0	0	0	0	0	0	27
9:15 AM	0	0	7	0	0	7	0	1	0	1	0	2	0	2	17	10	0	29	0	0	1	0	0	1	39
9:30 AM	0	0	4	0	0	4	0	7	0	0	0	7	0	0	12	12	0	24	0	0	1	2	0	3	38
9:45 AM	0	1	5	0	0	6	0	8	1	1	0	10	0	0	6	4	0	10	0	0	0	0	0	0	26
Hourly 'Heavy Vehicles'	0	3	23	0	0	26	0	20	1	2	0	23	0	4	41	32	0	77	0	0	2	2	0	4	130
10:00 AM	0	0	5	0	0	5	0	7	0	0	0	7	0	1	4	4	0	9	0	0	0	3	0	3	24
10:15 AM	0	0	5	0	0	5	0	6	1	0	0	7	0	0	11	9	0	20	0	0	0	0	0	0	32
10:30 AM	0	0	4	1	0	5	0	5	0	1	0	6	0	0	8	9	0	17	0	2	0	2	0	4	32
10:45 AM	0	1	7	0	0	8	0	5	0	2	0	7	0	2	11	11	0	24	0	0	0	0	0	0	39
Hourly 'Heavy Vehicles'	0	1	21	1	0	23	0	23	1	3	0	27	0	3	34	33	0	70	0	2	0	5	0	7	127
11:00 AM	0	0	11	3	0	14	0	8	0	0	0	8	0	1	5	5	0	11	0	1	1	1	0	3	36
11:15 AM	0	0	3	0	0	3	0	5	1	0	0	6	0	0	5	4	0	9	0	1	0	0	0	1	19
11:30 AM	0	1	5	0	0	6	0	3	0	1	0	4	0	1	6	5	0	12	0	0	1	2	0	3	25
11:45 AM	0	0	3	0	0	3	0	7	1	1	0	9	0	1	5	6	0	12	0	0	1	1	0	2	26
Hourly 'Heavy Vehicles'	0	1	22	3	0	26	0	23	2	2	0	27	0	3	21	20	0	44	0	2	3	4	0	9	106
12:00 PM	0	1	6	0	0	7	0	14	0	3	0	17	0	1	10	2	0	13	0	0	0	1	0	1	38
12:15 PM	0	1	3	0	0	4	0	3	0	3	0	6	0	2	6	4	0	12	0	2	0	2	0	4	26
12:30 PM	0	0	2	0	0	2	0	1	0	1	0	2	0	0	8	5	0	13	0	0	0	2	0	2	19
12:45 PM	0	0	5	0	0	5	0	3	0	4	0	7	0	1	6	1	0	8	0	0	0	0	0	0	20
Hourly 'Heavy Vehicles'	0	2	16	0	0	18	0	21	0	11	0	32	0	4	30	12	0	46	0	2	0	5	0	7	103
1:00 PM	0	0	5	0	0	5	0	0	2	0	0	2	0	0	8	8	0	16	0	0	1	0	0	1	24
1:15 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	4	0	6	0	0	0	0	0	0	9
1:30 PM	0	3	12	0	0	15	0	1	0	0	0	1	0	0	12	5	0	17	0	0	0	2	0	2	35
1:45 PM	0	4	15	1	0	20	0	7	0	0	0	7	0	0	8	6	0	14	0	0	0	0	0	0	41
Hourly 'Heavy Vehicles'	0	7	35	1	0	43	0	8	2	0	0	10	0	0	30	23	0	53	0	0	1	2	0	3	109
2:00 PM	0	1	19	0	0	20	0	6	0	1	0	7	0	1	3	8	0	12	0	0	0	1	0	1	40
2:15 PM	0	0	12	0	0	12	0	6	0	0	0	6	0	0	12	10	0	22	0	0	0	2	0	2	42
2:30 PM	0	1	5	0	0	6	0	6	0	1	0	7	0	0	12	9	0	21	0	0	1	0	0	1	35
2:45 PM	0	1	6	1	0	8	0	5	1	1	0	7	0	0	9	4	0	13	0	0	0	0	0	0	28
Hourly 'Heavy Vehicles'	0	3	42	1	0	46	0	23	1	3	0	27	0	1	36	31	0	68	0	0	1	3	0	4	145
3:00 PM	0	0	5	0	0	5	0	2	1	1	0	4	0	0	3	4	0	7	0	0	0	3	0	3	19
3:15 PM	0	0	5	0	0	5	0	2	0	1	0	3	0	0	13	4	0	17	0	0	0	0	0	0	25
3:30 PM	0	0	8	0	0	8	0	3	0	0	0	3	0	1	12	7	0	20	0	0	0	0	0	0	31
3:45 PM	0	1	3	0	0	4	0	2	0	0	0	2	0	0	2	4	0	6	0	0	0	2	0	2	14
Hourly 'Heavy Vehicles'	0	1	21	0	0	22	0	9	1	2	0	12	0	1	30	19	0	50	0	0	0	5	0	5	89

TMC 2549 - CSAH 78 @ Gateway Dr
Coon Rapids MN
Tuesday, May 13, 2025

Time	Southbound Heavy CSAH 78						Westbound Heavy CSAH 11						Northbound Heavy CSAH 78						Eastbound Heavy Gateway Dr						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	4	0	5	4	0	2	0	2	0	4	0	1	6	2	0	9	0	0	1	2	1	3	20
4:15 PM	0	0	1	0	0	1	0	2	0	1	0	3	0	0	9	3	0	12	0	0	0	0	0	0	16
4:30 PM	0	0	3	0	0	3	0	2	0	0	0	2	0	1	8	7	0	16	0	1	1	0	0	2	23
4:45 PM	0	1	4	0	0	5	0	2	0	0	0	2	0	0	6	2	0	8	0	0	0	1	0	1	16
Hourly 'Heavy Vehicles'	0	1	12	0	5	13	0	8	0	3	0	11	0	2	29	14	0	45	0	1	2	3	1	6	75
5:00 PM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	7	4	0	11	0	0	0	0	0	0	13
5:15 PM	0	0	2	0	4	2	0	0	0	0	0	0	0	0	5	2	0	7	0	0	0	1	4	1	10
5:30 PM	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3
5:45 PM	0	0	1	0	3	1	0	0	0	0	0	0	0	0	5	4	0	9	0	0	0	0	0	0	10
Hourly 'Heavy Vehicles'	0	0	4	0	10	4	0	1	0	0	0	1	0	0	20	10	0	30	0	0	0	1	4	1	36
6:00 PM	0	0	2	0	5	2	0	0	0	0	0	0	0	0	6	4	0	10	0	0	0	0	0	0	12
6:15 PM	0	0	2	0	0	2	0	1	0	0	0	1	0	0	2	6	0	8	0	0	0	0	0	0	11
6:30 PM	0	0	1	0	0	1	0	2	0	0	0	2	0	0	0	4	0	4	0	0	0	0	0	0	7
6:45 PM	0	0	0	0	3	0	0	2	0	0	2	2	1	0	4	2	0	7	0	0	0	0	0	0	9
Hourly 'Heavy Vehicles'	0	0	5	0	8	5	0	5	0	0	2	5	1	0	12	16	0	29	0	0	0	0	0	0	39
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	3
7:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	3	0	5	0	0	0	0	0	0	7
7:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	3
7:45 PM	0	0	1	0	1	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	4	0	1	4	0	0	0	0	0	0	0	0	5	5	0	10	0	0	0	0	0	0	14
8:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	2	3	0	6	0	0	0	0	2	0	7
8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	0	0	1	0	0	1	4
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
8:45 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	0	0	0	0	0	0	1	4	6	0	11	0	0	1	0	2	1	16
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2
9:15 PM	0	0	0	0	0	0	0	3	0	0	0	3	0	0	1	1	0	2	0	0	0	0	0	0	5
9:30 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	3
9:45 PM	0	0	0	0	0	0	0	3	0	0	0	3	0	0	2	0	0	2	0	0	0	0	0	0	5
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	7	0	0	0	7	0	0	4	4	0	8	0	0	0	0	0	0	15
10:00 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
10:15 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10:30 PM	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
10:45 PM	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	0	0	0	0	0	3	0	0	0	3	0	2	2	0	0	4	0	0	0	0	0	0	7
11:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	3
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	4
DAILY 'Heavy Vehicles'	0	24	323	11	24	358	0	233	12	34	2	279	2	27	393	314	0	736	0	9	12	44	8	65	1438

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2549

Study Date : 05/29/2025

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 78

Number of Lanes : 2+

Total Approach Volume: 21,865

Southbound: CSAH 78

Number of Lanes :2+

Total Approach Volume: 17,202

Minor Street Approaches

Eastbound: Gateway Dr

Number of Lanes :2+

Total Approach Volume: 2,065

Westbound: CSAH 11

Number of Lanes :2+

Total Approach Volume: 4,805

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 15 hours, 8 are needed

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

Required volumes reached for 18 hours, 8 are needed

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

Required 1A volumes reached for 16 hours, 8 are needed

Required 1B volumes reached for 19 hours, 8 are needed

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

Number of hours (17) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (60) 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 2549

Study Date : 05/29/2025

Warrant 1A - Minimum Volumes

Description

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

Summary

15 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

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

Veh/Hr Minor = **140**

Major Road						Minor Road			
CSAH 78						Gateway Dr			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:45 - 17:45	2212	+	1053	=	3265	180	297	Yes	
15:45 - 16:45	2062	+	978	=	3040	169	426	Yes	
06:45 - 07:45	894	+	1985	=	2879	82	314	Yes	
14:45 - 15:45	1931	+	935	=	2866	138	391	Yes	
07:45 - 08:45	1032	+	1675	=	2707	115	260	Yes	
17:45 - 18:45	1621	+	918	=	2539	131	288	Yes	
13:45 - 14:45	1528	+	844	=	2372	127	325	Yes	
08:45 - 09:45	977	+	1173	=	2150	89	276	Yes	
12:45 - 13:45	1222	+	787	=	2009	157	268	Yes	
11:45 - 12:45	1134	+	804	=	1938	151	317	Yes	
18:45 - 19:45	1227	+	702	=	1929	124	264	Yes	
10:45 - 11:45	1107	+	803	=	1910	127	313	Yes	
09:45 - 10:45	979	+	904	=	1883	103	255	Yes	
05:45 - 06:45	558	+	1259	=	1817	36	153	Yes	
19:45 - 20:45	1061	+	554	=	1615	95	211	Yes	
05:30 - 06:30	458	+	1085	=	1543	26	130	No	
05:15 - 06:15	343	+	923	=	1266	17	108	No	
20:45 - 21:45	767	+	441	=	1208	83	134	No	
21:00 - 22:00	682	+	378	=	1060	77	106	No	
05:00 - 06:00	275	+	782	=	1057	13	93	No	
21:15 - 22:15	611	+	330	=	941	64	107	No	
21:30 - 22:30	590	+	298	=	888	60	93	No	
04:45 - 05:45	213	+	622	=	835	13	75	No	
21:45 - 22:45	529	+	262	=	791	61	103	No	
22:00 - 23:00	474		227		701	60	80	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2549

Study Date : 05/29/2025

Warrant 1B - Interruption of Continuous Traffic

Description

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

Summary

18 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

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

Veh/Hr Minor = **70**

Major Road						Minor Road			
CSAH 78						Gateway Dr			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:45 - 17:45	2212	+	1053	=	3265	180	297	Yes	
15:45 - 16:45	2062	+	978	=	3040	169	426	Yes	
06:45 - 07:45	894	+	1985	=	2879	82	314	Yes	
14:45 - 15:45	1931	+	935	=	2866	138	391	Yes	
07:45 - 08:45	1032	+	1675	=	2707	115	260	Yes	
17:45 - 18:45	1621	+	918	=	2539	131	288	Yes	
13:45 - 14:45	1528	+	844	=	2372	127	325	Yes	
08:45 - 09:45	977	+	1173	=	2150	89	276	Yes	
12:45 - 13:45	1222	+	787	=	2009	157	268	Yes	
11:45 - 12:45	1134	+	804	=	1938	151	317	Yes	
18:45 - 19:45	1227	+	702	=	1929	124	264	Yes	
10:45 - 11:45	1107	+	803	=	1910	127	313	Yes	
09:45 - 10:45	979	+	904	=	1883	103	255	Yes	
05:45 - 06:45	558	+	1259	=	1817	36	153	Yes	
19:45 - 20:45	1061	+	554	=	1615	95	211	Yes	
20:45 - 21:45	767	+	441	=	1208	83	134	Yes	
04:45 - 05:45	213	+	622	=	835	13	75	Yes	
21:45 - 22:45	529	+	262	=	791	61	103	Yes	
04:30 - 05:30	145	+	471	=	616	11	57	No	
22:45 - 23:45	346	+	112	=	458	43	60	No	
04:15 - 05:15	112	+	335	=	447	9	45	No	
23:00 - 00:00	317	+	93	=	410	33	58	No	
04:00 - 05:00	99	+	247	=	346	5	34	No	
23:15 - 00:15	224	+	67	=	291	23	43	No	
03:45 - 04:45	79		186		265	2	25	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2549

Study Date : 05/29/2025

Warrant 1C Combination of Warrants

Description

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

Summary

16 hours meet 1A minimums.
19 hours meet 1B minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

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

Major Road CSAH 78						Minor Road Gateway Dr				
Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1A?
16:30 - 17:30	2238	+	1028	=	3266	187		354		Yes
15:30 - 16:30	2040	+	976	=	3016	157		430		Yes
07:30 - 08:30	1032	+	1900	=	2932	115		272		Yes
17:30 - 18:30	1809	+	968	=	2777	138		262		Yes
14:30 - 15:30	1869	+	890	=	2759	143		349		Yes
06:30 - 07:30	826	+	1868	=	2694	66		278		Yes
13:30 - 14:30	1402	+	864	=	2266	118		310		Yes
08:30 - 09:30	989	+	1192	=	2181	90		271		Yes
18:30 - 19:30	1302	+	760	=	2062	110		264		Yes
11:30 - 12:30	1146	+	827	=	1973	151		337		Yes
09:30 - 10:30	994	+	954	=	1948	107		282		Yes
12:30 - 13:30	1169		756		1925	162		278		Yes

Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1B?
16:30 - 17:30	2238	+	1028	=	3266	187		354		Yes
15:30 - 16:30	2040	+	976	=	3016	157		430		Yes
07:30 - 08:30	1032	+	1900	=	2932	115		272		Yes
17:30 - 18:30	1809	+	968	=	2777	138		262		Yes
14:30 - 15:30	1869	+	890	=	2759	143		349		Yes
06:30 - 07:30	826	+	1868	=	2694	66		278		Yes
13:30 - 14:30	1402	+	864	=	2266	118		310		Yes
08:30 - 09:30	989	+	1192	=	2181	90		271		Yes
18:30 - 19:30	1302	+	760	=	2062	110		264		Yes
11:30 - 12:30	1146	+	827	=	1973	151		337		Yes
09:30 - 10:30	994	+	954	=	1948	107		282		Yes
12:30 - 13:30	1169		756		1925	162		278		Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2549

Study Date : 05/29/2025

Warrant 2 - Four Hour Volumes

Description

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

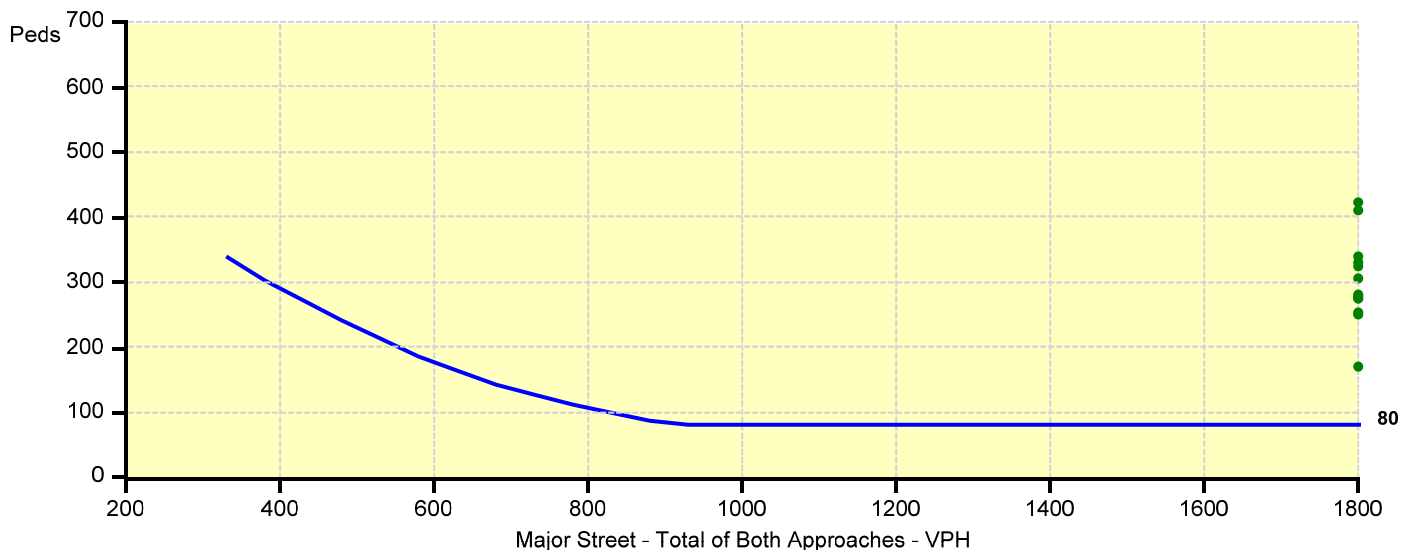
Summary

17 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road CSAH 78						Minor Road Gateway Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
17:00 - 18:00	2108	+	1081	=	3189	167	278	Yes
16:00 - 17:00	2144	+	1026	=	3170	174	424	Yes
07:00 - 08:00	934	+	2092	=	3026	98	339	Yes
15:00 - 16:00	1963	+	914	=	2877	144	410	Yes
14:00 - 15:00	1662	+	849	=	2511	138	329	Yes
08:00 - 09:00	1031	+	1434	=	2465	107	250	Yes
18:00 - 19:00	1473	+	849	=	2322	116	275	Yes
06:00 - 07:00	667	+	1451	=	2118	46	169	Yes
09:00 - 10:00	995	+	1120	=	2115	90	281	Yes
13:00 - 14:00	1240	+	798	=	2038	138	254	Yes
11:00 - 12:00	1155	+	837	=	1992	129	304	Yes
12:00 - 13:00	1142	+	789	=	1931	167	324	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2549

Study Date : 05/29/2025

Warrant 3B - Peak Hour Volumes

Description

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

Summary

63 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road CSAH 78						Minor Road Gateway Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	2238	+	1028	=	3266	187	354	Yes
16:45 - 17:45	2212	+	1053	=	3265	180	297	Yes
16:15 - 17:15	2175	+	1048	=	3223	177	398	Yes
17:00 - 18:00	2108	+	1081	=	3189	167	278	Yes
16:00 - 17:00	2144	+	1026	=	3170	174	424	Yes
07:15 - 08:15	1009	+	2065	=	3074	113	309	Yes
15:45 - 16:45	2062	+	978	=	3040	169	426	Yes
07:00 - 08:00	934	+	2092	=	3026	98	339	Yes
15:30 - 16:30	2040	+	976	=	3016	157	430	Yes
17:15 - 18:15	1982	+	1033	=	3015	154	267	Yes
07:30 - 08:30	1032	+	1900	=	2932	115	272	Yes
15:15 - 16:15	2015		901		2916	150	439	Yes

