

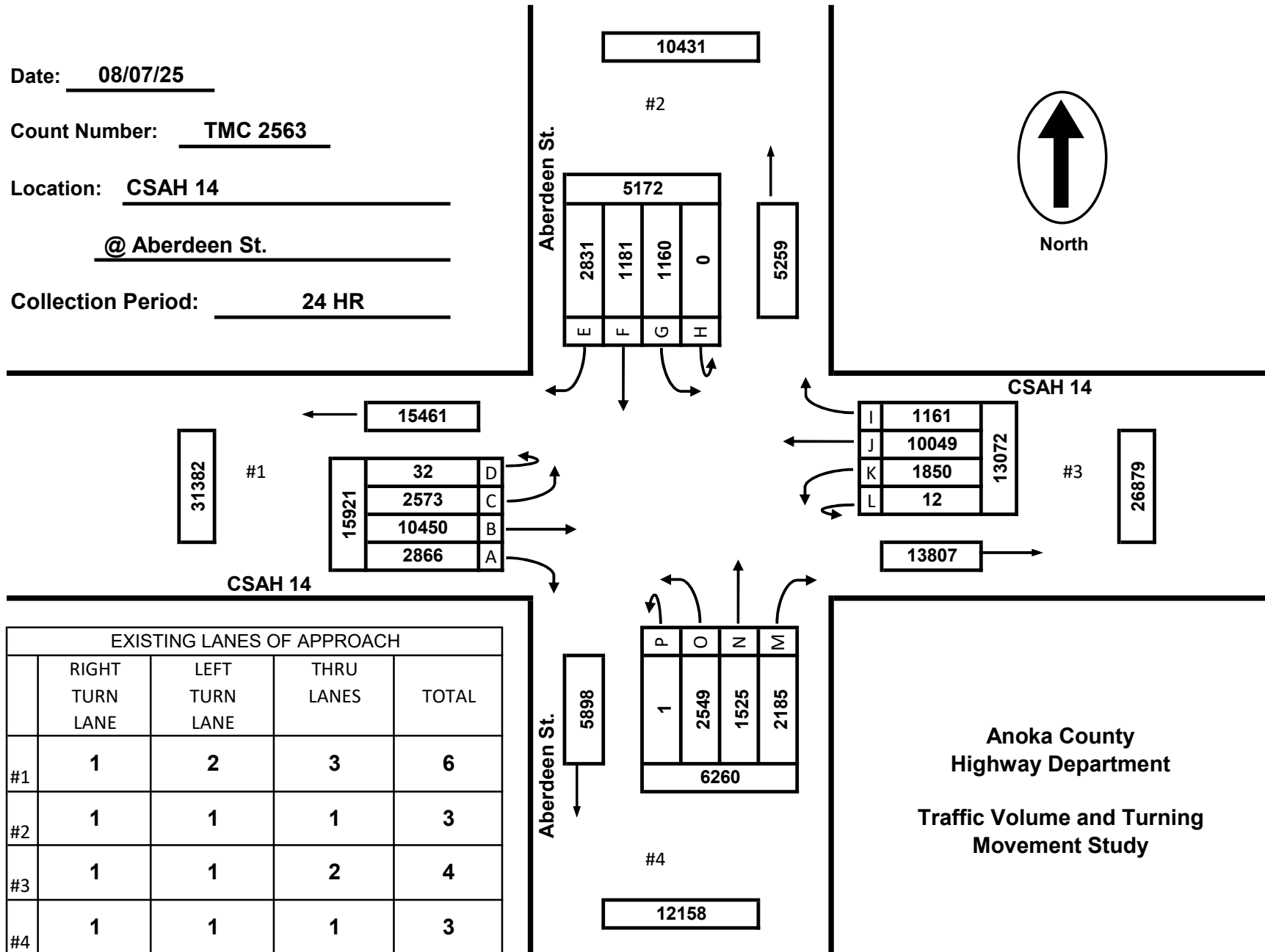
Date: 08/07/25

Count Number: TMC 2563

Location: CSAH 14

@ Aberdeen St.

Collection Period: 24 HR



Date: 08/07/25

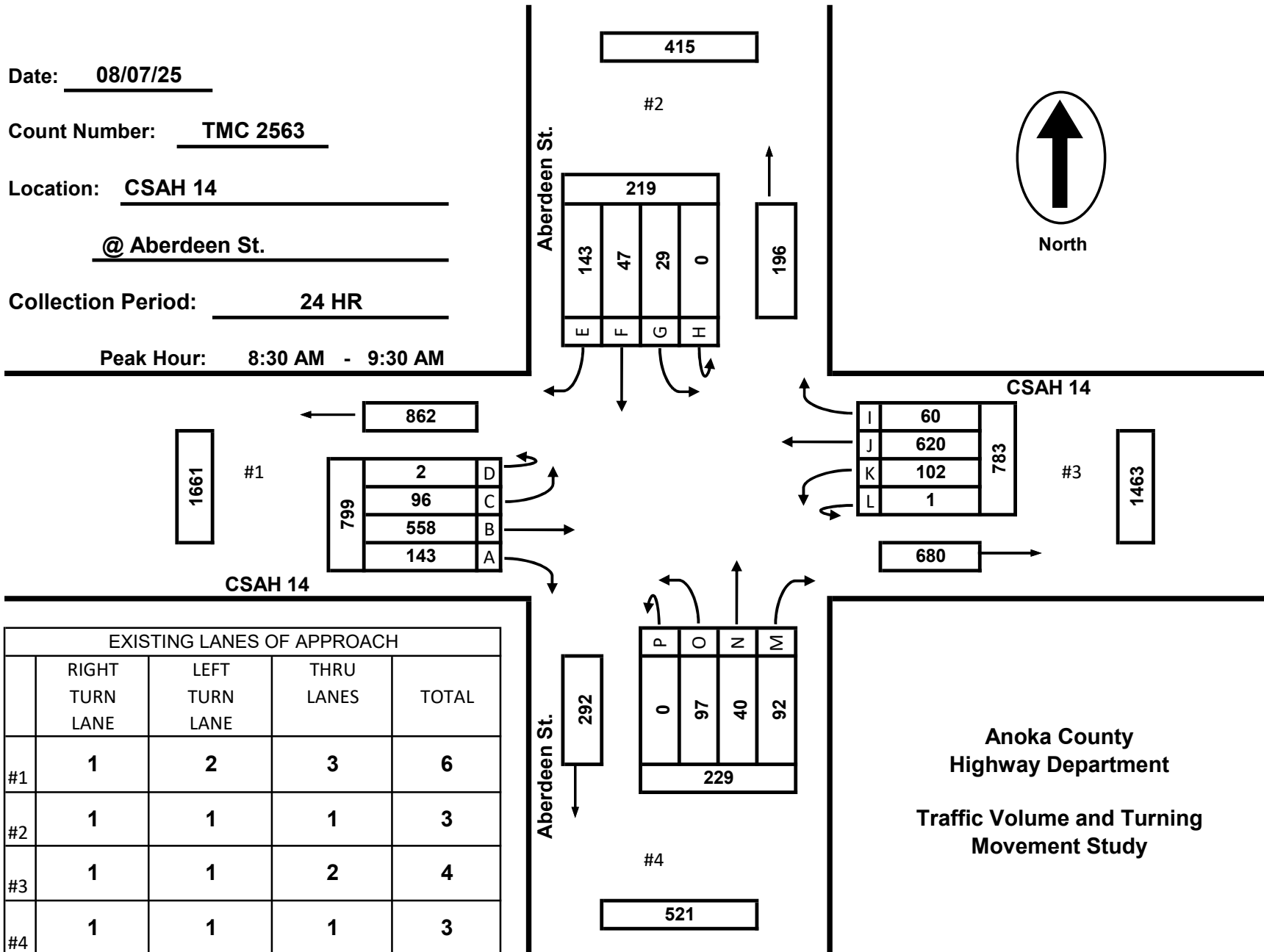
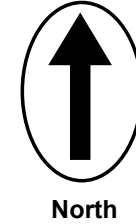
Count Number: TMC 2563

Location: CSAH 14

@ Aberdeen St.

Collection Period: 24 HR

Peak Hour: 8:30 AM - 9:30 AM



Date: 08/07/25

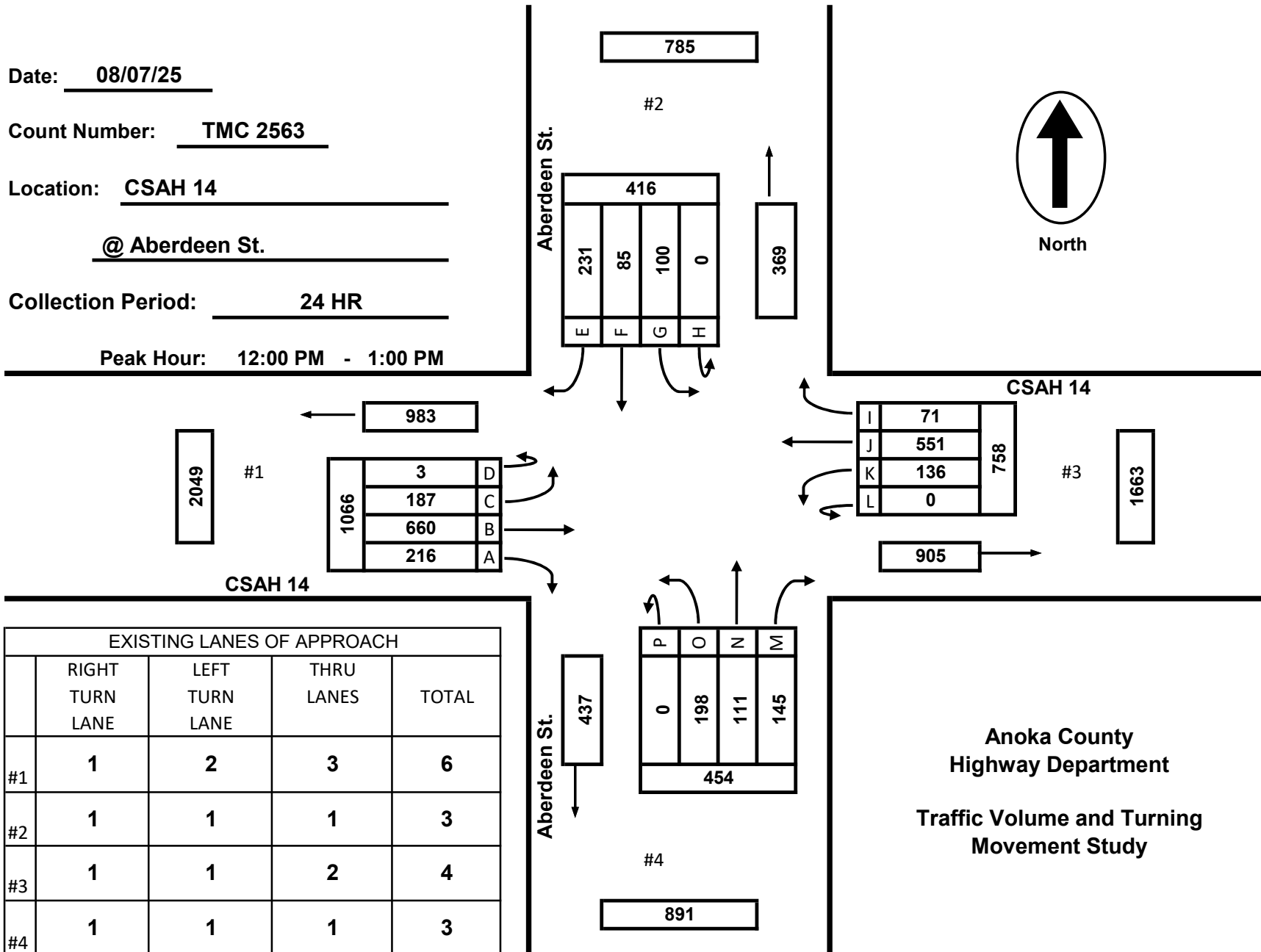
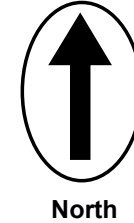
Count Number: TMC 2563

Location: CSAH 14

@ Aberdeen St.

Collection Period: 24 HR

Peak Hour: 12:00 PM - 1:00 PM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

Date: 08/07/25

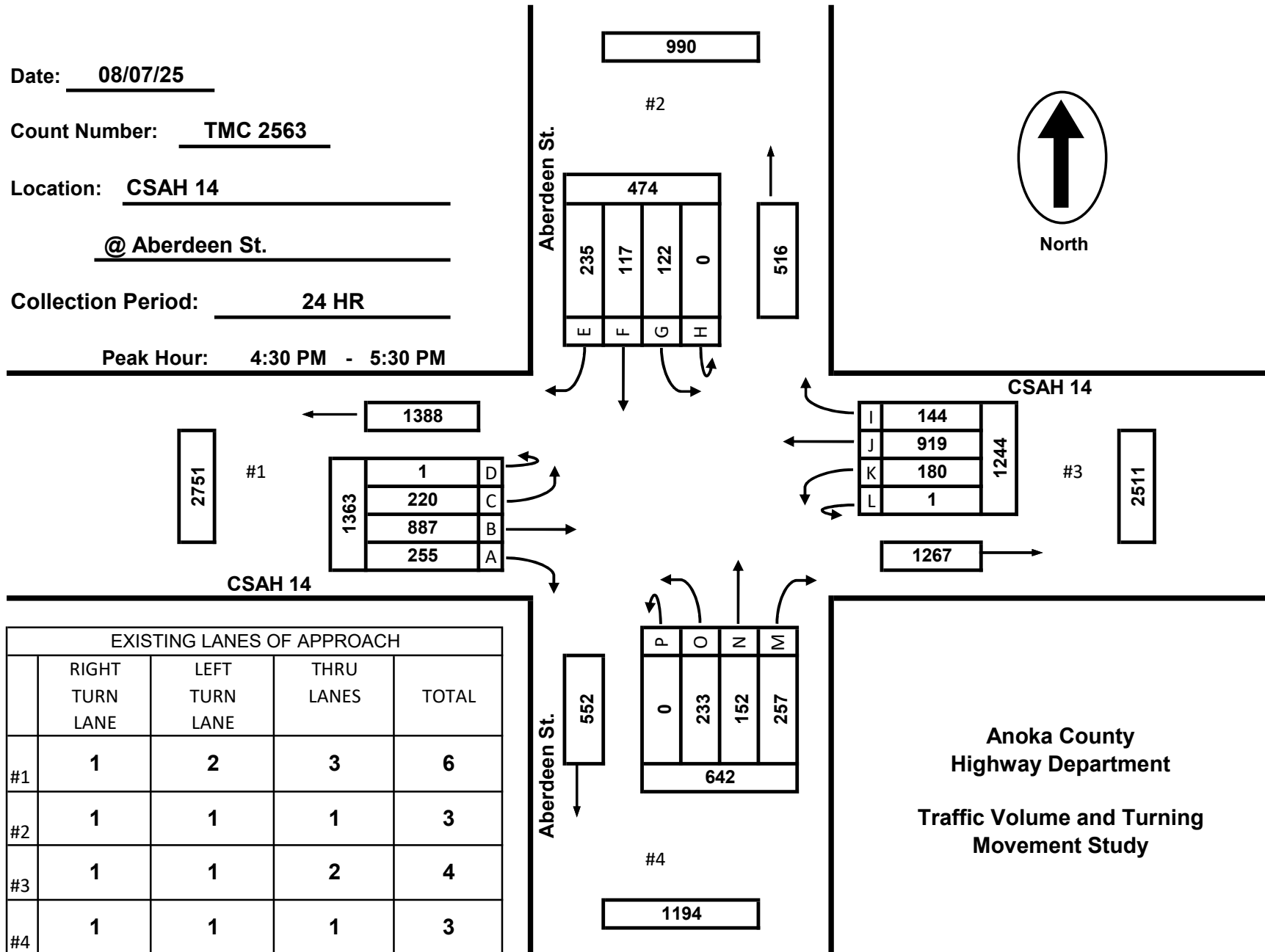
Count Number: TMC 2563

Location: CSAH 14

@ Aberdeen St.

Collection Period: 24 HR

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



**TMC 2563 - CSAH 14 @ Aberdeen St.
Blaine MN
Thursday, August 7, 2025**

Time	Southbound Aberdeen St.						Westbound CSAH 14						Northbound Aberdeen St.						Eastbound CSAH 14						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	3	1	7	0	11	0	3	7	0	0	10	0	1	1	2	0	4	0	4	20	3	0	27	52
12:15 AM	0	0	2	2	0	4	0	1	13	2	0	16	0	1	1	0	0	2	0	3	16	3	0	22	44
12:30 AM	0	1	0	2	0	3	0	0	10	3	0	13	0	2	0	0	0	2	0	7	16	0	0	23	41
12:45 AM	0	2	2	4	0	8	0	0	10	1	0	11	0	1	2	0	0	3	0	3	9	0	0	12	34
Hourly Total	0	6	5	15	0	26	0	4	40	6	0	50	0	5	4	2	0	11	0	17	61	6	0	84	171
1:00 AM	0	0	1	2	0	3	0	0	10	0	0	10	0	1	0	2	2	3	0	3	9	0	0	12	28
1:15 AM	0	1	1	2	0	4	0	1	7	0	0	8	0	1	3	0	0	4	0	3	6	2	0	11	27
1:30 AM	0	2	2	4	0	8	0	2	10	0	0	12	0	0	0	0	0	0	0	9	7	0	0	16	36
1:45 AM	0	2	1	4	0	7	0	0	9	0	0	9	0	0	0	1	0	1	0	3	6	0	0	9	26
Hourly Total	0	5	5	12	0	22	0	3	36	0	0	39	0	2	3	3	2	8	0	18	28	2	0	48	117
2:00 AM	0	1	0	1	0	2	0	0	4	0	0	4	0	0	0	0	0	0	0	5	4	0	0	9	15
2:15 AM	0	2	0	3	0	5	0	0	4	0	0	4	0	0	1	0	0	1	0	5	9	2	0	16	26
2:30 AM	0	3	1	2	0	6	0	0	4	1	0	5	0	0	0	1	0	1	0	4	6	0	0	10	22
2:45 AM	0	1	0	2	0	3	0	0	9	1	0	10	0	0	1	0	0	1	0	2	9	0	0	11	25
Hourly Total	0	7	1	8	0	16	0	0	21	2	0	23	0	0	2	1	0	3	0	16	28	2	0	46	88
3:00 AM	0	1	1	3	0	5	0	1	2	0	0	3	0	0	0	0	0	0	0	3	7	0	0	10	18
3:15 AM	0	0	0	7	0	7	0	0	3	2	0	5	0	1	1	0	0	2	0	3	6	0	0	9	23
3:30 AM	0	0	0	4	0	4	0	0	4	0	1	4	0	1	0	0	0	1	0	1	2	1	0	4	13
3:45 AM	0	0	0	2	0	2	0	0	11	0	0	11	0	0	0	0	0	0	0	3	16	1	0	20	33
Hourly Total	0	1	1	16	0	18	0	1	20	2	1	23	0	2	1	0	0	3	0	10	31	2	0	43	87
4:00 AM	0	0	1	3	0	4	0	2	6	2	0	10	0	0	0	0	0	0	0	4	6	1	0	11	25
4:15 AM	0	0	3	6	0	9	0	6	13	1	0	20	0	0	0	0	0	0	0	2	7	9	0	18	47
4:30 AM	0	1	2	13	0	16	0	9	26	0	0	35	0	2	0	1	0	3	0	5	18	6	0	29	83
4:45 AM	0	3	4	5	0	12	0	6	29	6	0	41	0	0	1	0	0	1	0	6	19	13	0	38	92
Hourly Total	0	4	10	27	0	41	0	23	74	9	0	106	0	2	1	1	0	4	0	17	50	29	0	96	247
5:00 AM	0	3	4	7	0	14	0	16	33	3	1	52	0	3	1	3	0	7	0	6	32	19	0	57	130
5:15 AM	0	4	3	4	0	11	0	8	37	4	0	49	0	10	1	3	0	14	1	3	38	5	0	47	121
5:30 AM	0	4	4	15	0	23	0	10	54	2	0	66	0	10	3	15	0	28	1	6	56	14	0	77	194
5:45 AM	0	6	4	15	0	25	0	10	68	6	0	84	0	5	6	4	0	15	0	12	59	9	0	80	204
Hourly Total	0	17	15	41	0	73	0	44	192	15	1	251	0	28	11	25	0	64	2	27	185	47	0	261	649
6:00 AM	0	6	2	15	0	23	0	6	56	5	0	67	0	15	8	4	0	27	0	8	61	18	0	87	204
6:15 AM	0	2	1	21	0	24	0	9	78	3	0	90	0	9	7	6	0	22	1	6	99	10	0	116	252
6:30 AM	0	6	0	24	0	30	0	6	117	1	0	124	0	12	5	18	0	35	0	7	123	16	0	146	335
6:45 AM	0	5	2	20	0	27	0	11	150	6	0	167	0	10	2	11	0	23	0	14	126	17	0	157	374
Hourly Total	0	19	5	80	0	104	0	32	401	15	0	448	0	46	22	39	0	107	1	35	409	61	0	506	1165
7:00 AM	0	7	8	17	0	32	0	10	143	2	0	155	0	11	4	14	0	29	0	11	92	23	0	126	342
7:15 AM	0	6	8	23	0	37	0	25	181	5	2	211	0	21	6	18	0	45	0	12	106	27	0	145	438
7:30 AM	0	8	7	27	0	42	0	19	176	11	0	206	0	10	5	14	0	29	2	20	177	24	0	223	500
7:45 AM	0	11	13	22	0	46	0	26	203	15	0	244	0	23	8	14	0	45	0	18	158	32	0	208	543
Hourly Total	0	32	36	89	0	157	0	80	703	33	2	816	0	65	23	60	0	148	2	61	533	106	0	702	1823

**TMC 2563 - CSAH 14 @ Aberdeen St.
Blaine MN
Thursday, August 7, 2025**

Time	Southbound Aberdeen St.						Westbound CSAH 14						Northbound Aberdeen St.						Eastbound CSAH 14						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	16	8	28	0	52	0	14	182	3	0	199	1	15	18	16	0	50	0	17	135	35	0	187	488
8:15 AM	0	14	14	25	0	53	0	26	149	14	0	189	0	19	5	17	0	41	0	19	127	27	0	173	456
8:30 AM	0	2	18	36	0	56	1	25	174	17	0	217	0	16	10	21	0	47	0	24	137	29	0	190	510
8:45 AM	0	12	10	36	0	58	0	38	168	14	0	220	0	26	15	20	0	61	1	27	155	37	0	220	559
Hourly Total	0	44	50	125	0	219	1	103	673	48	0	825	1	76	48	74	0	199	1	87	554	128	0	770	2013
9:00 AM	0	7	14	32	0	53	0	16	145	17	0	178	0	24	5	27	0	56	1	22	146	41	0	210	497
9:15 AM	0	8	5	39	0	52	0	23	133	12	0	168	0	31	10	24	0	65	0	23	120	36	0	179	464
9:30 AM	0	16	12	30	0	58	0	20	123	11	2	154	0	34	13	21	0	68	0	28	114	50	0	192	472
9:45 AM	0	14	16	34	0	64	0	27	142	12	4	181	0	24	21	16	0	61	0	24	149	63	0	236	542
Hourly Total	0	45	47	135	0	227	0	86	543	52	6	681	0	113	49	88	0	250	1	97	529	190	0	817	1975
10:00 AM	0	12	13	37	0	62	2	32	135	15	0	184	0	35	22	24	0	81	0	45	114	53	0	212	539
10:15 AM	0	16	18	35	0	69	0	35	145	10	2	190	0	44	19	35	0	98	0	31	133	44	0	208	565
10:30 AM	0	20	13	38	0	71	0	40	128	10	1	178	0	49	28	31	0	108	0	41	139	41	0	221	578
10:45 AM	0	18	25	46	0	89	0	40	154	18	0	212	0	43	20	21	0	84	0	41	125	45	0	211	596
Hourly Total	0	66	69	156	0	291	2	147	562	53	3	764	0	171	89	111	0	371	0	158	511	183	0	852	2278
11:00 AM	0	14	16	46	0	76	0	18	147	27	0	192	0	39	33	31	0	103	0	30	124	34	0	188	559
11:15 AM	0	19	27	36	0	82	1	27	115	19	0	162	0	42	16	31	0	89	0	45	147	53	0	245	578
11:30 AM	0	19	18	46	0	83	0	27	150	22	0	199	0	36	27	26	0	89	0	42	133	43	0	218	589
11:45 AM	0	15	23	46	0	84	0	33	164	14	4	211	0	33	21	37	0	91	0	54	146	44	0	244	630
Hourly Total	0	67	84	174	0	325	1	105	576	82	4	764	0	150	97	125	0	372	0	171	550	174	0	895	2356
12:00 PM	0	28	18	64	0	110	0	24	142	17	0	183	0	51	30	29	0	110	2	41	170	56	0	269	672
12:15 PM	0	17	22	50	0	89	0	31	167	13	0	211	0	48	36	39	0	123	0	42	157	56	0	255	678
12:30 PM	0	18	22	52	0	92	0	35	136	16	2	187	0	38	24	40	1	102	0	39	185	40	0	264	645
12:45 PM	0	37	23	65	0	125	0	46	106	25	5	177	0	61	21	37	0	119	1	65	148	64	0	278	699
Hourly Total	0	100	85	231	0	416	0	136	551	71	7	758	0	198	111	145	1	454	3	187	660	216	0	1066	2694
1:00 PM	0	28	20	52	1	100	0	26	117	29	3	172	0	46	30	37	1	113	0	42	147	48	0	237	622
1:15 PM	0	23	18	46	0	87	0	24	112	23	0	159	0	56	29	38	1	123	0	53	131	33	0	217	586
1:30 PM	0	22	20	46	0	88	0	17	158	22	1	197	0	45	22	37	3	104	1	51	157	39	0	248	637
1:45 PM	0	23	26	39	0	88	0	23	138	15	5	176	0	36	26	27	0	89	0	37	136	43	0	216	569
Hourly Total	0	96	84	183	1	363	0	90	525	89	9	704	0	183	107	139	5	429	1	183	571	163	0	918	2414
2:00 PM	0	18	21	46	0	85	0	23	141	16	0	180	0	40	32	39	0	111	0	39	148	43	0	230	606
2:15 PM	0	14	16	52	0	82	1	23	176	18	0	218	0	31	32	29	0	92	0	60	161	49	0	270	662
2:30 PM	0	15	22	58	0	95	1	17	156	19	2	193	0	43	23	32	0	98	0	52	153	52	0	257	643
2:45 PM	0	21	23	50	0	94	0	30	172	23	0	225	0	34	32	39	0	105	1	62	178	60	0	301	725
Hourly Total	0	68	82	206	0	356	2	93	645	76	2	816	0	148	119	139	0	406	1	213	640	204	0	1058	2636
3:00 PM	0	18	28	59	0	105	0	28	151	19	3	198	0	41	35	36	0	112	1	49	191	51	0	292	707
3:15 PM	0	21	28	58	0	107	1	38	171	22	0	232	0	43	43	37	0	123	1	61	178	52	0	292	754
3:30 PM	0	30	16	56	0	102	0	33	225	21	4	279	0	50	27	37	0	114	1	55	183	55	0	294	789
3:45 PM	0	23	29	45	0	97	0	49	192	27	1	268	0	54	46	43	0	143	1	55	209	53	0	318	826
Hourly Total	0	92	101	218	0	411	1	148	739	89	8	977	0	188	151	153	0	492	4	220	761	211	0	1196	3076

**TMC 2563 - CSAH 14 @ Aberdeen St.
Blaine MN
Thursday, August 7, 2025**

Time	Southbound Aberdeen St.						Westbound CSAH 14						Northbound Aberdeen St.						Eastbound CSAH 14						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>	
4:00 PM	0	14	26	56	0	96	0	25	198	30	0	253	0	52	39	55	0	146	0	49	212	74	0	335	830
4:15 PM	0	24	23	56	0	103	0	58	226	32	1	316	0	46	43	47	0	136	2	49	189	65	1	305	860
4:30 PM	0	41	33	58	0	132	0	43	251	36	0	330	0	55	40	72	0	167	0	60	219	51	0	330	959
4:45 PM	0	28	31	63	0	122	0	51	230	48	0	329	0	48	43	56	0	147	0	51	207	74	0	332	930
Hourly Total	0	107	113	233	0	453	0	177	905	146	1	1228	0	201	165	230	0	596	2	209	827	264	1	1302	3579
5:00 PM	0	27	22	47	0	96	1	41	200	28	1	270	0	71	30	73	0	174	0	54	239	58	0	351	891
5:15 PM	0	26	31	67	0	124	0	45	238	32	0	315	0	59	39	56	0	154	1	55	222	72	0	350	943
5:30 PM	0	34	24	66	0	124	0	31	238	29	1	298	0	72	41	55	2	168	0	64	228	55	0	347	937
5:45 PM	0	17	31	47	0	95	0	33	178	35	0	246	0	58	35	53	1	146	1	50	193	43	0	287	774
Hourly Total	0	104	108	227	0	439	1	150	854	124	2	1129	0	260	145	237	3	642	2	223	882	228	0	1335	3545
6:00 PM	0	36	26	73	0	135	1	31	189	25	0	246	0	44	37	41	0	122	1	45	191	57	0	294	797
6:15 PM	0	21	34	58	0	113	1	39	160	23	0	223	0	51	35	52	0	138	0	53	167	56	0	276	750
6:30 PM	0	20	19	55	0	94	0	42	167	20	0	229	0	56	25	34	0	115	3	54	175	51	0	283	721
6:45 PM	0	25	20	50	0	95	2	29	107	19	0	157	0	72	29	54	0	155	0	43	151	60	0	254	661
Hourly Total	0	102	99	236	0	437	4	141	623	87	0	855	0	223	126	181	0	530	4	195	684	224	0	1107	2929
7:00 PM	0	20	16	39	0	75	0	43	119	17	1	179	0	67	34	43	0	144	0	39	176	55	0	270	668
7:15 PM	0	23	23	46	0	92	0	22	123	15	1	160	0	52	29	39	0	120	1	37	148	39	0	225	597
7:30 PM	0	14	16	38	0	68	0	24	118	15	1	157	0	49	18	33	0	100	0	29	155	52	1	236	561
7:45 PM	0	17	18	31	0	66	0	28	145	19	0	192	0	48	18	40	0	106	0	39	148	39	0	226	590
Hourly Total	0	74	73	154	0	301	0	117	505	66	3	688	0	216	99	155	0	470	1	144	627	185	1	957	2416
8:00 PM	0	18	19	35	0	72	0	19	97	14	0	130	0	36	21	47	0	104	0	28	175	20	0	223	529
8:15 PM	0	16	13	22	0	51	0	26	90	9	3	125	0	32	22	30	0	84	0	28	130	33	0	191	451
8:30 PM	0	11	8	30	0	49	0	29	86	8	0	123	0	33	21	25	0	79	0	32	150	34	0	216	467
8:45 PM	0	6	5	22	0	33	0	16	75	8	1	99	0	29	13	39	0	81	0	23	124	34	0	181	394
Hourly Total	0	51	45	109	0	205	0	90	348	39	4	477	0	130	77	141	0	348	0	111	579	121	0	811	1841
9:00 PM	0	9	15	28	0	52	0	11	87	6	0	104	0	23	16	23	0	62	1	28	113	18	0	160	378
9:15 PM	0	5	10	13	0	28	0	13	62	5	0	80	0	23	8	21	0	52	1	21	106	18	0	146	306
9:30 PM	0	7	8	17	0	32	0	13	57	10	0	80	0	17	6	10	0	33	1	19	100	19	0	139	284
9:45 PM	0	4	4	12	0	20	0	7	65	7	0	79	0	18	7	13	0	38	0	12	87	18	0	117	254
Hourly Total	0	25	37	70	0	132	0	44	271	28	0	343	0	81	37	67	0	185	3	80	406	73	0	562	1222
10:00 PM	0	7	6	18	0	31	0	13	44	5	0	62	0	8	6	9	0	23	3	17	62	13	0	95	211
10:15 PM	0	7	4	14	0	25	0	10	36	4	0	50	0	22	7	21	0	50	1	10	68	12	0	91	216
10:30 PM	0	1	2	12	0	15	0	4	39	7	0	50	0	13	4	16	0	33	0	10	43	4	0	57	155
10:45 PM	0	5	3	5	0	13	0	4	29	4	0	37	0	4	6	10	0	20	0	18	48	2	0	68	138
Hourly Total	0	20	15	49	0	84	0	31	148	20	0	199	0	47	23	56	0	126	4	55	221	31	0	311	720
11:00 PM	0	4	2	7	0	13	0	1	41	6	0	48	0	6	9	9	0	24	0	9	33	7	0	49	134
11:15 PM	0	1	7	18	0	26	0	1	17	0	0	18	0	5	1	2	0	8	0	16	30	2	0	48	100
11:30 PM	0	2	1	5	0	8	0	2	20	1	0	23	0	2	2	2	0	6	0	9	25	4	0	38	75
11:45 PM	0	1	1	7	0	9	0	1	16	2	0	19	0	1	3	0	0	4	0	5	35	3	0	43	75
Hourly Total	0	8	11	37	0	56	0	5	94	9	0	108	0	14	15	13	0	42	0	39	123	16	0	178	384
DAILY TOTAL	0	1160	1181	2831	1	5172	12	1850	10049	1161	53	13072	1	2549	1525	2185	11	6260	32	2573	10450	2866	2	15921	40425
Cars	0	1149	1176	2791	1	5116	12	1842	9900	1151	37	12905	1	2534	1521	2174	8	6230	32	2539	10294	2850	2	15715	39966
Heavy Vehicles	0	11	5	40	0	56	0	8	149	10	16	167	0	15	4	11	3	30	0	34	156	16	0	206	459
Heavy Vehicle %	0.00%	0.95%	0.42%	1.41%	0.00%	1.08%	0.00%	0.43%	1.48%	0.86%	30.19%	1.28%	0.00%	0.59%	0.26%	0.50%	27.27%	0.48%	0.00%	1.32%	1.49%	0.56%	0.00%	1.29%	1.14%

TMC 2563 - CSAH 14 @ Aberdeen St.
Blaine MN
Thursday, August 7, 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	
8:30 AM	0	2	18	36	0	56	1	25	174	17	0	217	0	16	10	21	0	47	0	24	137	29	0	190	510
8:45 AM	0	12	10	36	0	58	0	38	168	14	0	220	0	26	15	20	0	61	1	27	155	37	0	220	559
9:00 AM	0	7	14	32	0	53	0	16	145	17	0	178	0	24	5	27	0	56	1	22	146	41	0	210	497
9:15 AM	0	8	5	39	0	52	0	23	133	12	0	168	0	31	10	24	0	65	0	23	120	36	0	179	464
Peak Hour Total	0	29	47	143	0	219	1	102	620	60	0	783	0	97	40	92	0	229	2	96	558	143	0	799	2030
Peak Hour Heavy Vehicles	0	0	2	1	0	3	0	2	17	1	0	20	0	1	1	4	0	6	0	1	16	1	0	18	47
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	4.26%	0.70%	0.00%	1.37%	0.00%	1.96%	2.74%	1.67%	0.00%	2.55%	0.00%	1.03%	2.50%	4.35%	0.00%	2.62%	0.00%	1.04%	2.87%	0.70%	0.00%	2.25%	2.32%
	0.000	0.604	0.653	0.917	0.000	0.944	0.250	0.671	0.891	0.882	0.000	0.890	0.000	0.782	0.667	0.852	0.000	0.881	0.500	0.889	0.900	0.872	0.000	0.908	0.908

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

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 PM	0	28	18	64	0	110	0	24	142	17	0	183	0	51	30	29	0	110	2	41	170	56	0	269	672
12:15 PM	0	17	22	50	0	89	0	31	167	13	0	211	0	48	36	39	0	123	0	42	157	56	0	255	678
12:30 PM	0	18	22	52	0	92	0	35	136	16	2	187	0	38	24	40	1	102	0	39	185	40	0	264	645
12:45 PM	0	37	23	65	0	125	0	46	106	25	5	177	0	61	21	37	0	119	1	65	148	64	0	278	699
Peak Hour Total	0	100	85	231	0	416	0	136	551	71	7	758	0	198	111	145	1	454	3	187	660	216	0	1066	2694
Peak Hour Heavy Vehicles	0	1	1	6	0	8	0	0	9	0	0	9	0	3	0	1	0	4	0	0	12	1	0	13	34
Peak Hour Heavy Vehicles % PHF	0.00%	1.00%	1.18%	2.60%	0.00%	1.92%	0.00%	0.00%	1.63%	0.00%	0.00%	1.19%	0.00%	1.52%	0.00%	0.69%	0.00%	0.88%	0.00%	0.00%	1.82%	0.46%	0.00%	1.22%	1.26%
	0.000	0.676	0.924	0.888	0.000	0.832	0.000	0.739	0.825	0.710	0.350	0.898	0.000	0.811	0.771	0.906	0.250	0.923	0.375	0.719	0.892	0.844	0.000	0.959	0.964

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	0	41	33	58	0	132	0	43	251	36	0	330	0	55	40	72	0	167	0	60	219	51	0	330	959
4:45 PM	0	28	31	63	0	122	0	51	230	48	0	329	0	48	43	56	0	147	0	51	207	74	0	332	930
5:00 PM	0	27	22	47	0	96	1	41	200	28	1	270	0	71	30	73	0	174	0	54	239	58	0	351	891
5:15 PM	0	26	31	67	0	124	0	45	238	32	0	315	0	59	39	56	0	154	1	55	222	72	0	350	943
Peak Hour Total	0	122	117	235	0	474	1	180	919	144	1	1244	0	233	152	257	0	642	1	220	887	255	0	1363	3723
Peak Hour Heavy Vehicles	0	1	0	0	0	1	0	0	9	2	1	11	0	0	0	1	0	1	1	0	6	2	0	8	21
Peak Hour Heavy Vehicles % PHF	0.00%	0.82%	0.00%	0.00%	0.00%	0.21%	0.00%	0.00%	0.98%	1.39%	100.00%	0.88%	0.00%	0.00%	0.00%	0.39%	0.00%	0.16%	0.00%	0.00%	0.68%	0.78%	0.00%	0.59%	0.56%
	0.000	0.744	0.886	0.877	0.000	0.898	0.250	0.882	0.915	0.750	0.250	0.942	0.000	0.820	0.884	0.880	0.000	0.922	0.250	0.917	0.928	0.861	0.000	0.971	0.971

Total Vehicles On Leg				10431			
Vehicles Entering Intersection				Vehicles Exiting Intersection			
Southbound				Northbound			
Cars	2791	1176	1149	0	1		
Heavy	40	5	11	0	0		
Total	2831	1181	1160	0	1		



Total Vehicles on Leg 31382	Vehicles Entering Intersection 15921	Eastbound	Cars	Heavy	Total
			2	0	2
			32	0	32
	Vehicles Exiting Intersection 15461		2539	34	2573
			10294	156	10450
			2850	16	2866

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 13072	Total Vehicles on Leg 26879
1151	10	1161		Vehicles Exiting Intersection 13807	
9900	149	10049			
1842	8	1850			
12	0	12			
37	16	53			

Cars	8	1	2534	1521	2174
Heavy	3	0	15	4	11
Total	11	1	2549	1525	2185
Northbound					
Vehicles Entering Intersection 6260			Vehicles Exiting Intersection 5898		
Total Vehicles On Leg			12158		

TMC 2563 - CSAH 14 @ Aberdeen St.
Blaine MN
Thursday, August 7, 2025

Time	Southbound Heavy Aberdeen St.						Westbound Heavy CSAH 14						Northbound Heavy Aberdeen St.						Eastbound Heavy CSAH 14						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	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
1:00 AM	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
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	2	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	1	0	0	0	0	1
2:15 AM	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:30 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
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	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
3:00 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
3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	2
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	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	1
4:00 AM	0	0	0	0	0	0	0	0	0	1	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	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
4:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:45 AM	0	0	0	1	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	1	0	0	0	1	4
Hourly 'Heavy Vehicles'	0	0	0	2	0	2	0	0	3	2	0	5	0	0	0	0	0	0	0	1	0	0	0	0	1
5:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	2
5:15 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	3	4
5:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
5:45 AM	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
Hourly 'Heavy Vehicles'	0	0	0	2	0	2	0	0	3	0	0	3	0	0	0	0	0	0	0	3	1	1	0	5	10
6:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	4
6:15 AM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	6
6:30 AM	0	1	0	1	0	2	0	0	1	0	0	1	0	0	0	1	0	1	0	3	3	1	0	7	11
6:45 AM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	1	4	0	0	5	9
Hourly 'Heavy Vehicles'	0	2	0	1	0	3	0	0	11	0	0	11	0	0	0	1	0	1	0	4	10	1	0	15	30
7:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	4
7:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	6
7:30 AM	0	0	1	1	0	2	0	0	2	0	0	2	0	1	0	0	0	1	0	0	7	1	0	8	13
7:45 AM	0	1	0	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	1	0	5	10
Hourly 'Heavy Vehicles'	0	2	1	1	0	4	0	0	9	0	0	9	0	1	0	0	0	1	0	0	17	2	0	19	33

**TMC 2563 - CSAH 14 @ Aberdeen St.
Blaine MN
Thursday, August 7, 2025**

	Southbound Heavy Aberdeen St.						Westbound Heavy CSAH 14						Northbound Heavy Aberdeen St.						Eastbound Heavy CSAH 14						VEHICLE 'Heavy Vehicles'	
Time	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	0	1	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	2	4
8:15 AM	0	0	0	0	0	0	0	0	8	0	0	8	0	1	0	0	0	1	0	0	8	1	0	9	18	
8:30 AM	0	0	2	0	0	2	0	1	1	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	6	
8:45 AM	0	0	0	0	0	0	0	1	7	0	0	8	0	1	0	2	0	3	0	0	4	1	0	5	16	
Hourly 'Heavy Vehicles'	0	0	2	1	0	3	0	3	16	0	0	19	0	2	0	2	0	4	0	0	16	2	0	18	44	
9:00 AM	0	0	0	0	0	0	0	0	4	1	0	5	0	0	1	2	0	3	0	0	4	0	0	4	12	
9:15 AM	0	0	0	1	0	1	0	0	5	0	0	5	0	0	0	0	0	0	0	1	6	0	0	7	13	
9:30 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3	0	0	3	6	
9:45 AM	0	0	0	0	0	0	0	1	5	0	3	6	0	1	0	0	0	1	0	1	3	1	0	5	12	
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	1	17	1	3	19	0	1	1	2	0	4	0	2	16	1	0	19	43	
10:00 AM	0	0	0	0	0	0	0	1	2	0	0	3	0	0	1	0	0	1	0	1	8	1	0	10	14	
10:15 AM	0	1	0	1	0	2	0	0	1	0	2	1	0	1	1	0	0	2	0	2	3	1	0	6	11	
10:30 AM	0	0	0	1	0	1	0	0	3	0	0	3	0	0	0	1	0	1	0	0	3	0	0	3	8	
10:45 AM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	1	6	0	0	7	11	
Hourly 'Heavy Vehicles'	0	1	0	2	0	3	0	1	10	0	2	11	0	1	2	1	0	4	0	4	20	2	0	26	44	
11:00 AM	0	1	0	2	0	3	0	0	2	0	0	2	0	0	0	0	0	0	0	1	1	0	0	2	7	
11:15 AM	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	5	
11:30 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	1	2	0	0	3	6	
11:45 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	2	2	0	0	4	7	
Hourly 'Heavy Vehicles'	0	1	0	3	0	4	0	0	9	0	0	9	0	0	0	0	0	0	0	0	4	8	0	0	12	25
12:00 PM	0	0	0	4	0	4	0	0	5	0	0	5	0	1	0	0	0	1	0	0	1	0	0	1	11	
12:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	3	1	0	4	6	
12:30 PM	0	0	0	1	0	1	0	0	2	0	0	2	0	1	0	0	0	1	0	0	1	0	0	1	5	
12:45 PM	0	1	0	1	0	2	0	0	2	0	0	2	0	1	0	0	0	1	0	0	7	0	0	7	12	
Hourly 'Heavy Vehicles'	0	1	1	6	0	8	0	0	9	0	0	9	0	3	0	1	0	4	0	0	12	1	0	13	34	
1:00 PM	0	0	0	0	0	0	0	0	8	1	0	9	0	0	0	1	0	1	0	2	3	0	0	5	15	
1:15 PM	0	1	0	0	0	1	0	1	2	0	0	3	0	1	0	0	0	1	0	0	4	0	0	4	9	
1:30 PM	0	0	0	2	0	2	0	0	2	0	0	2	0	0	0	0	1	0	0	1	6	0	0	7	11	
1:45 PM	0	1	0	0	0	1	0	0	1	1	4	2	0	0	0	0	0	0	0	1	1	1	0	3	6	
Hourly 'Heavy Vehicles'	0	2	0	2	0	4	0	1	13	2	4	16	0	1	0	1	1	2	0	4	14	1	0	19	41	
2:00 PM	0	0	0	1	0	1	0	0	6	0	0	6	0	1	0	1	0	2	0	1	4	0	0	5	14	
2:15 PM	0	0	0	3	0	3	0	0	4	0	0	4	0	0	1	1	0	2	0	2	4	0	0	6	15	
2:30 PM	0	0	0	1	0	1	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	4	9	
2:45 PM	0	0	0	1	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	0	4	0	0	4	11	
Hourly 'Heavy Vehicles'	0	0	0	6	0	6	0	0	20	0	0	20	0	1	1	2	0	4	0	3	16	0	0	19	49	
3:00 PM	0	0	0	0	0	0	0	0	2	0	1	2	0	0	0	0	0	0	0	0	2	0	0	2	4	
3:15 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	3	0	0	3	7	
3:30 PM	0	0	0	1	0	1	0	1	4	0	3	5	0	0	0	0	0	0	0	0	4	0	0	4	10	
3:45 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	
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	1	12	0	4	13	0	0	0	0	0	0	0	0	9	0	0	9	23	

TMC 2563 - CSAH 14 @ Aberdeen St.
Blaine MN

Thursday, August 7, 2025

Time	Southbound Heavy Aberdeen St.						Westbound Heavy CSAH 14						Northbound Heavy Aberdeen St.						Eastbound Heavy CSAH 14						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	1	0	1	0	0	2	1	0	3	0	0	0	0	0	0	0	0	0	3	1	0	4	8
4:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1	0	0	2	1	0	3	5
4:30 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	2	4
4:45 PM	0	0	0	0	0	0	0	0	4	2	0	6	0	0	0	1	0	0	1	0	0	1	0	0	1	8
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	0	9	3	0	12	0	1	0	1	0	0	2	0	0	8	2	0	10	25
5:00 PM	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	3	0	0	3	4
5:15 PM	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	2	5
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
5:45 PM	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	2	4
Hourly 'Heavy Vehicles'	0	2	0	0	0	2	0	0	4	0	1	4	0	1	0	0	0	0	1	0	1	4	2	0	7	14
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	1	2
6:15 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6:30 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	0	1
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	1	0	1	0	0	1	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	1	4
7:00 PM	0	0	0	0	0	0	0	0	1	1	1	2	0	0	0	0	0	0	0	0	2	0	0	0	2	4
7:15 PM	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:30 PM	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	3
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
Hourly 'Heavy Vehicles'	0	0	0	3	0	3	0	0	2	1	1	3	0	0	0	0	0	0	0	0	4	0	0	0	4	10
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
8:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	1	0	0	0	1	2
8:30 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	0	0	1	1	1	0	1	0	0	0	0	1	0	0	1	1	0	2	5
9:00 PM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9:15 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1
11:45 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	5
DAILY 'Heavy Vehicles'	0	11	5	40	0	56	0	8	149	10	16	167	0	15	4	11	3	30	0	34	156	16	0	206	459	

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2563

Study Date : 08/28/2025

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 15,921

Westbound: CSAH 14

Number of Lanes :2+

Total Approach Volume: 13,072

Minor Street Approaches

Northbound: Aberdeen St.

Number of Lanes :2+

Total Approach Volume: 4,075

Southbound: Aberdeen St.

Number of Lanes :2+

Total Approach Volume: 2,341

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 12 hours, 8 are needed

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

Required volumes reached for 16 hours, 8 are needed

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

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

Required 1B volumes reached for 17 hours, 8 are needed

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

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

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (48) 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 2563

Study Date : 08/28/2025

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

12 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 14						Aberdeen St.			
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?	
16:45 - 17:45	1380	+	1212	=	2592	403	223	Yes	
15:45 - 16:45	1288	+	1167	=	2455	375	213	Yes	
14:45 - 15:45	1179	+	934	=	2113	305	185	Yes	
17:45 - 18:45	1140	+	944	=	2084	341	204	Yes	
11:45 - 12:45	1032	+	792	=	1824	281	163	Yes	
13:45 - 14:45	973	+	767	=	1740	263	155	Yes	
12:45 - 13:45	980	+	705	=	1685	310	191	Yes	
18:45 - 19:45	985	+	653	=	1638	350	157	Yes	
10:45 - 11:45	862	+	765	=	1627	256	156	Yes	
09:45 - 10:45	877	+	733	=	1610	242	122	Yes	
08:45 - 09:45	801	+	720	=	1521	158	84	Yes	
19:45 - 20:45	856	+	570	=	1426	231	120	Yes	
07:30 - 08:30	791	+	838	=	1629	104	91	No	
07:15 - 08:15	763	+	860	=	1623	107	77	No	
07:45 - 08:45	758	+	849	=	1607	115	96	No	
08:15 - 09:15	793	+	804	=	1597	120	91	No	
08:00 - 09:00	770	+	825	=	1595	125	94	No	
08:30 - 09:30	799	+	783	=	1582	137	76	No	
07:00 - 08:00	702	+	816	=	1518	88	68	No	
06:45 - 07:45	651	+	739	=	1390	69	51	No	
06:30 - 07:30	574	+	657	=	1231	71	42	No	
06:15 - 07:15	545	+	536	=	1081	60	31	No	
20:45 - 21:45	626	+	363	=	989	135	65	No	
06:00 - 07:00	506	+	448	=	954	68	24	No	
21:00 - 22:00	562		343		905	118	62	No	

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2563

Study Date : 08/28/2025

Warrant 1B - Interruption of Continuous Traffic

Description

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

Summary

16 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

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

Veh/Hr Minor = **70**

Major Road						Minor Road		
CSAH 14						Aberdeen St.		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
16:30 - 17:30	1363	+	1244	=	2607	385	239	Yes
15:30 - 16:30	1252	+	1116	=	2368	357	185	Yes
17:30 - 18:30	1204	+	1013	=	2217	373	223	Yes
14:30 - 15:30	1142	+	848	=	1990	294	176	Yes
11:30 - 12:30	986	+	804	=	1790	282	160	Yes
18:30 - 19:30	1032	+	725	=	1757	364	166	Yes
13:30 - 14:30	964	+	771	=	1735	264	160	Yes
12:30 - 13:30	996	+	695	=	1691	305	189	Yes
07:30 - 08:30	791	+	838	=	1629	104	91	Yes
10:30 - 11:30	865	+	744	=	1609	270	152	Yes
08:30 - 09:30	799	+	783	=	1582	137	76	Yes
09:30 - 10:30	848	+	709	=	1557	212	117	Yes
19:30 - 20:30	876	+	604	=	1480	244	131	Yes
06:30 - 07:30	574	+	657	=	1231	71	42	Yes
20:30 - 21:30	703	+	406	=	1109	166	69	Yes
21:30 - 22:30	442	+	271	=	713	91	47	Yes
06:15 - 07:15	545	+	536	=	1081	60	31	No
06:00 - 07:00	506	+	448	=	954	68	24	No
05:45 - 06:45	429	+	365	=	794	67	27	No
05:30 - 06:30	360	+	307	=	667	63	29	No
05:15 - 06:15	291	+	266	=	557	58	33	No
05:00 - 06:00	261	+	251	=	512	39	32	No
04:45 - 05:45	219	+	208	=	427	29	29	No
22:30 - 23:30	222	+	153	=	375	48	25	No
04:30 - 05:30	171		177		348	18	24	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2563

Study Date : 08/28/2025

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.
17 hours meet 1B minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

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

Major Road						Minor Road				
CSAH 14						Aberdeen St.				
Time	Major EB	+	Major WB	=	Total	Minor NB		Minor SB		Met1A?
16:45 - 17:45	1380	+	1212	=	2592	403		223		Yes
15:45 - 16:45	1288	+	1167	=	2455	375		213		Yes
14:45 - 15:45	1179	+	934	=	2113	305		185		Yes
17:45 - 18:45	1140	+	944	=	2084	341		204		Yes
11:45 - 12:45	1032	+	792	=	1824	281		163		Yes
13:45 - 14:45	973	+	767	=	1740	263		155		Yes
12:45 - 13:45	980	+	705	=	1685	310		191		Yes
18:45 - 19:45	985	+	653	=	1638	350		157		Yes
10:45 - 11:45	862	+	765	=	1627	256		156		Yes
09:45 - 10:45	877	+	733	=	1610	242		122		Yes
07:45 - 08:45	758	+	849	=	1607	115		96		Yes
08:45 - 09:45	801		720		1521	158		84		Yes

Time	Major EB	+	Major WB	=	Total	Minor NB		Minor SB		Met1B?
16:15 - 17:15	1318	+	1245	=	2563	376		229		Yes
17:15 - 18:15	1278	+	1105	=	2383	385		225		Yes
15:15 - 16:15	1239	+	1032	=	2271	354		187		Yes
14:15 - 15:15	1120	+	834	=	1954	271		157		Yes
18:15 - 19:15	1083	+	788	=	1871	369		175		Yes
12:15 - 13:15	1034	+	747	=	1781	304		187		Yes
11:15 - 12:15	976	+	755	=	1731	256		167		Yes
13:15 - 14:15	911	+	712	=	1623	286		171		Yes
07:15 - 08:15	763	+	860	=	1623	107		77		Yes
10:15 - 11:15	828	+	772	=	1600	275		140		Yes
08:15 - 09:15	793	+	804	=	1597	120		91		Yes
19:15 - 20:15	910		639		1549	271		148		Yes

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2563

Study Date : 08/28/2025

Warrant 2 - Four Hour Volumes

Description

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

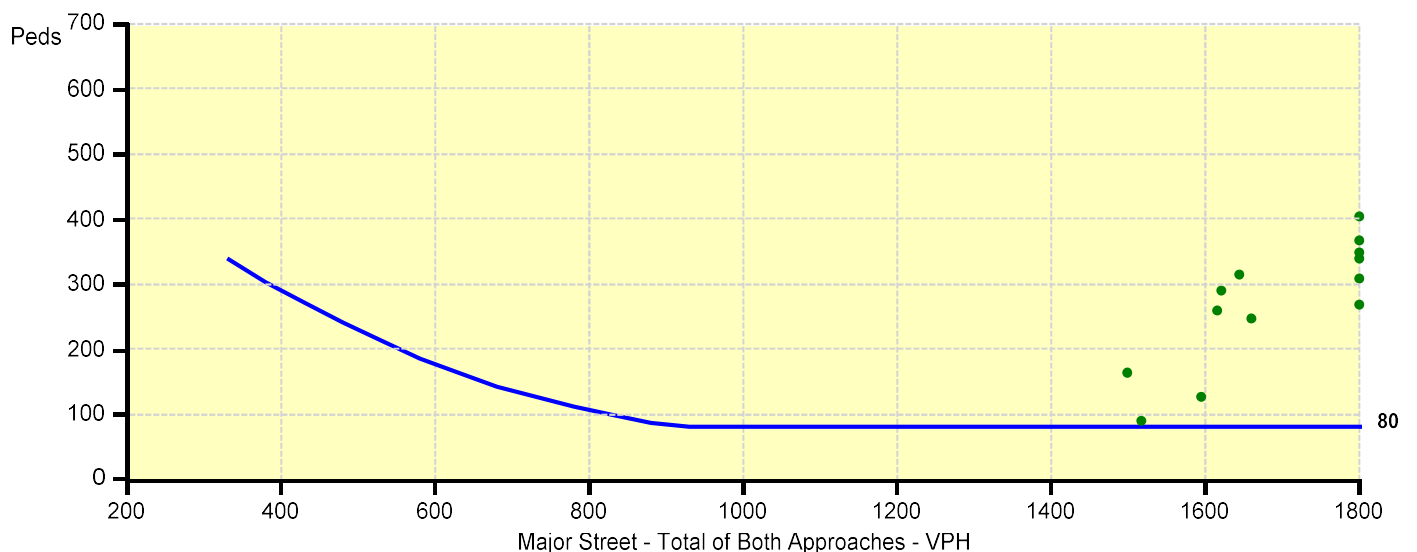
Summary

15 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Major Road CSAH 14						Minor Road Aberdeen St.		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
16:00 - 17:00	1302	+	1228	=	2530	366	220	Yes
17:00 - 18:00	1335	+	1129	=	2464	405	212	Yes
15:00 - 16:00	1196	+	977	=	2173	339	193	Yes
18:00 - 19:00	1107	+	855	=	1962	349	201	Yes
14:00 - 15:00	1058	+	816	=	1874	267	150	Yes
12:00 - 13:00	1066	+	758	=	1824	309	185	Yes
11:00 - 12:00	895	+	764	=	1659	247	151	Yes
19:00 - 20:00	957	+	688	=	1645	315	147	Yes
13:00 - 14:00	918	+	704	=	1622	290	180	Yes
10:00 - 11:00	852	+	764	=	1616	260	135	Yes
08:00 - 09:00	770	+	825	=	1595	125	94	Yes
07:00 - 08:00	702	+	816	=	1518	88	68	Yes



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2563

Study Date : 08/28/2025

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.

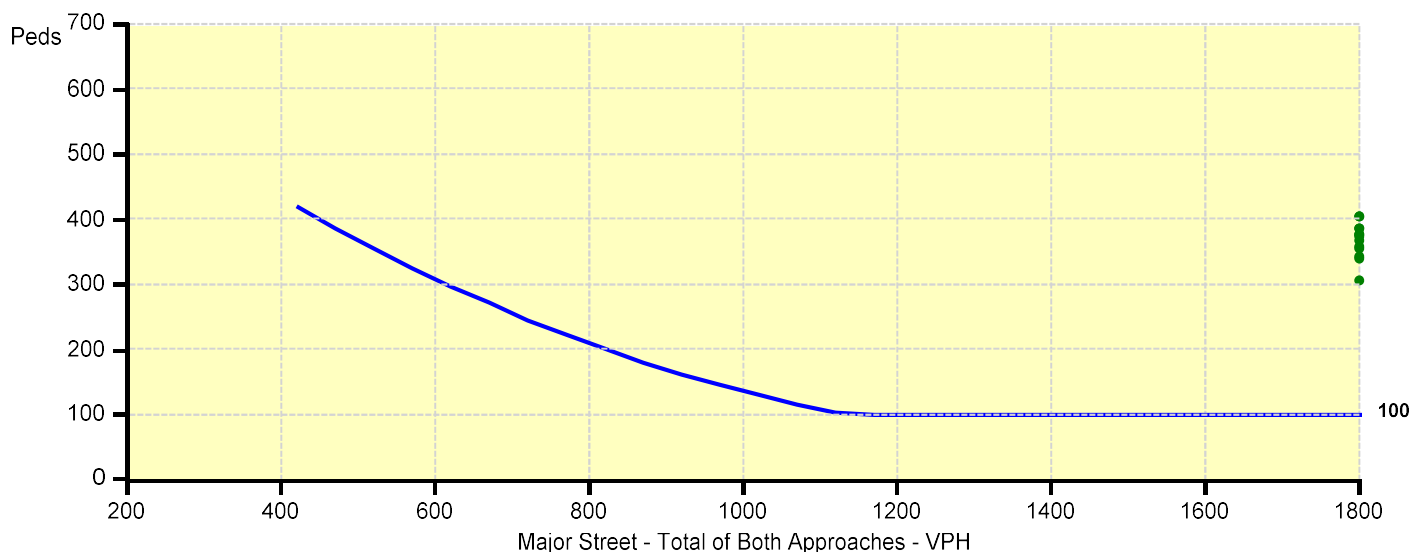
Summary

54 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 14						Minor Road Aberdeen St.		
Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met?
16:30 - 17:30	1363	+	1244	=	2607	385	239	Yes
16:45 - 17:45	1380	+	1212	=	2592	403	223	Yes
16:15 - 17:15	1318	+	1245	=	2563	376	229	Yes
16:00 - 17:00	1302	+	1228	=	2530	366	220	Yes
17:00 - 18:00	1335	+	1129	=	2464	405	212	Yes
15:45 - 16:45	1288	+	1167	=	2455	375	213	Yes
17:15 - 18:15	1278	+	1105	=	2383	385	225	Yes
15:30 - 16:30	1252	+	1116	=	2368	357	185	Yes
15:15 - 16:15	1239	+	1032	=	2271	354	187	Yes
17:30 - 18:30	1204	+	1013	=	2217	373	223	Yes
15:00 - 16:00	1196	+	977	=	2173	339	193	Yes
14:45 - 15:45	1179	+	934	=	2113	305	185	Yes



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2563

Study Date : 08/28/2025

Multiway Stop Warrants - Summary

Major Street Approaches

Eastbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 15,921

Westbound: CSAH 14

Number of Lanes :2+

Total Approach Volume: 13,072

Minor Street Approaches

Northbound: Aberdeen St.

Number of Lanes :2+

Total Approach Volume: 4,075

Southbound: Aberdeen St.

Number of Lanes :2+

Total Approach Volume: 2,341

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..... **Satisfied**
Average of 8 highest hours meets or exceeds volume criteria.

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

Criteria C Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
16:30 - 17:30	2607	2019.6	632	513.8	210	140	Yes
15:30 - 16:30	2368		546				
17:30 - 18:30	2217		600				
14:30 - 15:30	1990		470				
12:00 - 13:00	1824		504				
18:30 - 19:30	1757		533				
13:30 - 14:30	1735		426				
11:00 - 12:00	1659		399				
10:00 - 11:00	1616		395				
19:30 - 20:30	1480		376				
07:30 - 08:30	1629		195				
08:30 - 09:30	1582		213				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
16:30 - 17:30	2607	2019.6	632	513.8	240	160	Yes
15:30 - 16:30	2368		546				
17:30 - 18:30	2217		600				
14:30 - 15:30	1990		470				
12:00 - 13:00	1824		504				
18:30 - 19:30	1757		533				
13:30 - 14:30	1735		426				
11:00 - 12:00	1659		399				
10:00 - 11:00	1616		395				
19:30 - 20:30	1480		376				
07:30 - 08:30	1629		195				
08:30 - 09:30	1582		213				