

Date : 04/25/23

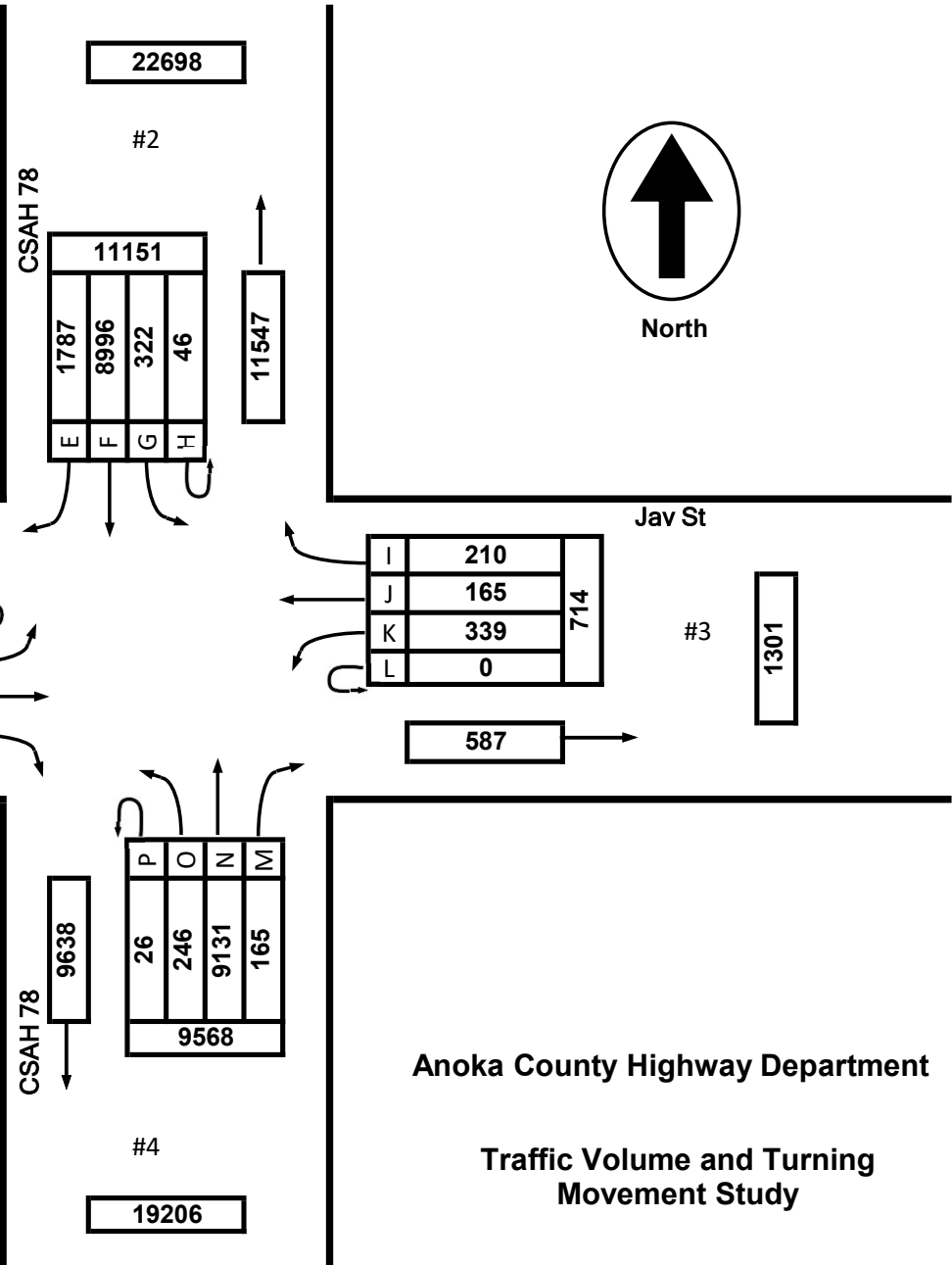
Count Number : TMC 2306

Location : CSAH 78
@ Jay St

Collection Period : 24 HR



North



#1

4737	
2538	1
	2160
	100
	277
	D
	C
	B
	A

#3

I	210	714
J	165	
K	339	
L	0	

#4

P	26	9568
O	246	
N	9131	
M	165	

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

Anoka County Highway Department

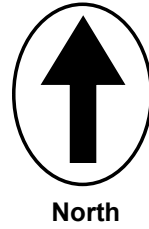
Traffic Volume and Turning Movement Study

Date : 04/25/23

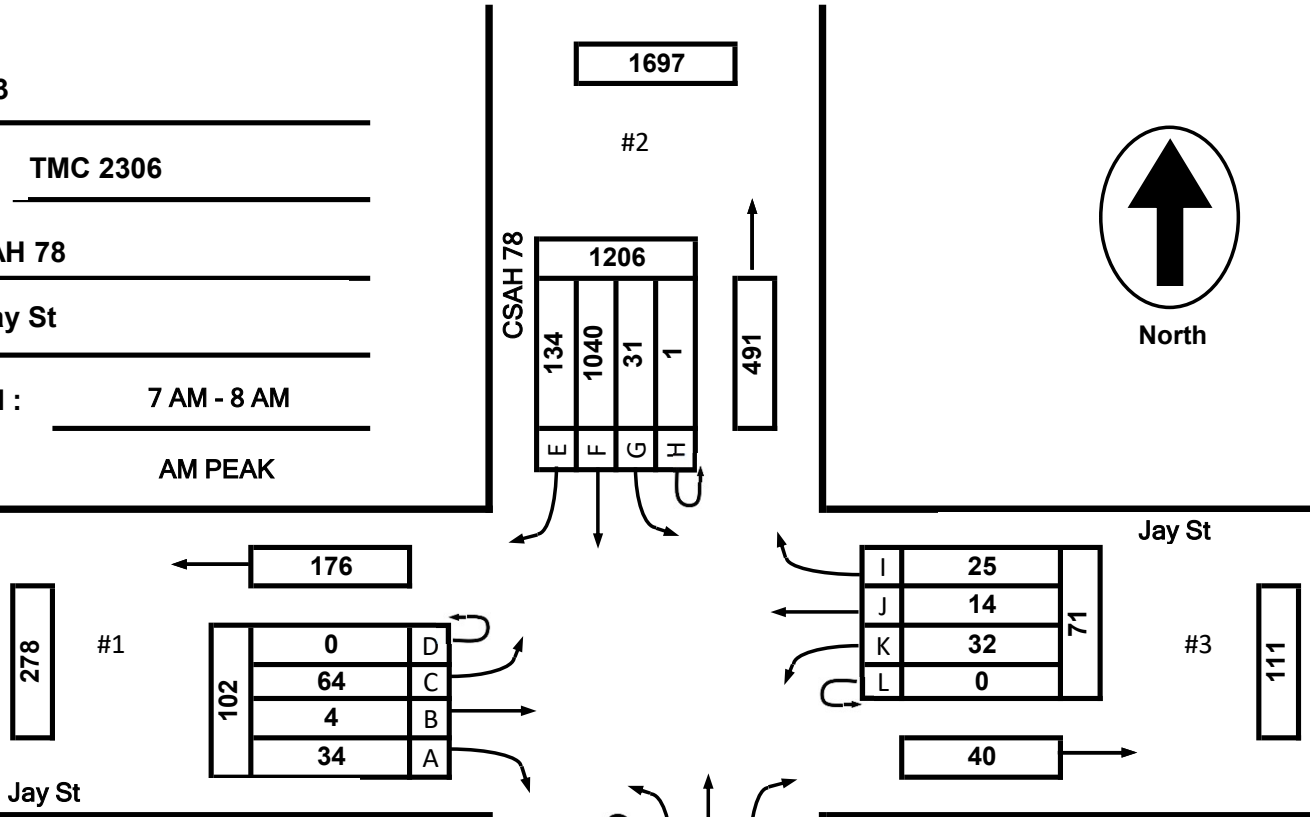
Count Number : TMC 2306

Location : CSAH 78
@ Jay St

Collection Period : 7 AM - 8 AM
AM PEAK



North



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

Anoka County Highway Department
 Traffic Volume and Turning Movement Study

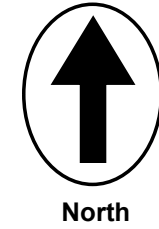
Date : 04/25/23

Count Number : TMC 2306

Location : CSAH 78
@ Jay St

Collection Period : 4:15 PM - 5:15 PM

PM PEAK



North

469

#1

Jay St

282	0	D
	245	C
	7	B
	30	A

187

CSAH 78

777			
159	580	35	3
E	F	G	H

2323

#2

1546

Jay St

I	23	56
J	11	
K	22	
L	0	

#3

115

59

CSAH 78

633	P	O	N	M
	1	17	1275	17
	1310			

#4

1943

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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

TMC 2306 - CSAH 78 @ Jay St

0 0

Tuesday, April 25, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	6	0	0	6	0	0	0	0	0	0	0	0	13	0	0	13	0	2	0	0	0	2	0	0	0	0	0	0	21
12:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	13	0	0	13	0	1	0	0	0	1	0	0	0	0	0	0	18
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11	0	1	0	0	0	1	0	0	0	0	0	0	12
12:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	5	0	0	5	0	1	0	0	0	1	0	0	0	0	0	0	9
Hourly Total	0	0	13	0	0	13	0	0	0	0	0	0	0	0	42	0	0	42	0	5	0	0	0	5	0	0	0	0	0	0	60
1:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	11	2	0	13	0	0	0	0	0	0	0	0	0	0	0	0	16
1:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	1	0	1	0	0	0	0	0	0	10
1:30 AM	0	0	5	0	0	5	0	0	0	1	0	1	0	0	4	0	0	4	0	2	0	2	0	4	0	0	0	0	0	0	14
1:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	7
Hourly Total	0	0	12	0	0	12	0	0	0	1	0	1	0	1	26	2	0	29	0	2	0	3	0	5	0	0	0	0	0	0	47
2:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	0	0	3	0	2	0	0	0	2	0	0	0	0	0	0	7
2:15 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	0	0	0	0	0	0	2
2:30 AM	0	0	3	1	0	4	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	10
2:45 AM	0	0	4	0	0	4	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	8
Hourly Total	0	0	10	1	0	11	0	1	0	0	0	1	0	0	12	1	0	13	0	2	0	0	0	2	0	0	0	0	0	0	27
3:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	9
3:15 AM	0	0	12	1	0	13	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	18
3:30 AM	0	1	17	2	0	20	0	0	0	2	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	25
3:45 AM	0	0	15	1	0	16	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	22
Hourly Total	0	1	48	4	0	53	0	0	0	0	0	0	0	0	21	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	74
4:00 AM	0	0	26	1	0	27	0	0	0	0	0	0	0	3	2	0	0	5	0	1	0	0	0	1	0	0	0	0	0	0	33
4:15 AM	0	1	33	5	0	39	0	3	0	1	0	4	0	1	5	0	0	6	0	1	0	2	0	3	0	0	0	0	0	0	52
4:30 AM	0	0	38	14	0	52	0	0	0	1	0	1	0	3	8	0	0	11	0	1	0	0	0	1	0	0	0	0	0	0	65
4:45 AM	0	0	54	11	0	65	0	1	1	0	0	2	0	14	11	0	0	25	0	0	0	2	0	2	0	0	0	0	0	0	94
Hourly Total	0	1	151	31	0	183	0	4	1	2	0	7	0	21	26	0	0	47	0	3	0	4	0	7	0	0	0	0	0	0	244
5:00 AM	0	0	71	3	1	74	0	1	1	0	0	2	0	1	11	0	0	12	0	1	0	0	0	1	0	0	0	0	0	0	89
5:15 AM	0	0	99	3	0	102	0	4	0	1	0	5	0	0	13	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	120
5:30 AM	0	0	139	13	1	152	0	2	1	0	0	3	0	2	15	0	0	17	0	2	0	1	0	3	0	0	0	0	0	0	175
5:45 AM	0	1	130	11	0	142	0	3	1	0	0	4	0	1	32	0	0	33	0	3	0	3	0	6	0	0	0	0	0	0	185
Hourly Total	0	1	439	30	2	470	0	10	3	1	0	14	0	4	71	0	0	75	0	6	0	4	0	10	0	0	0	0	0	0	569
6:00 AM	1	2	163	17	0	183	0	2	0	0	2	2	0	4	16	2	0	22	0	2	1	2	0	5	0	0	0	0	0	0	212
6:15 AM	0	9	167	13	0	189	0	7	1	3	0	11	0	2	40	0	0	42	0	6	1	5	0	12	0	0	0	0	0	0	254
6:30 AM	0	1	271	19	0	291	0	4	1	1	0	6	0	2	41	0	0	43	0	6	0	7	0	13	0	0	0	0	0	0	353
6:45 AM	2	4	205	24	0	235	0	6	2	1	0	9	0	8	74	0	0	82	0	14	1	4	0	19	0	0	0	0	0	0	345
Hourly Total	3	16	806	73	0	898	0	19	4	5	2	28	0	16	171	2	0	189	0	28	3	18	0	49	0	0	0	0	0	0	1164
7:00 AM	0	8	238	32	0	278	0	7	1	3	2	11	0	5	80	2	0	87	0	17	2	7	0	26	0	0	0	0	0	0	402
7:15 AM	1	5	306	30	0	342	0	12	5	6	0	23	2	7	99	1	0	109	0	20	0	12	0	32	0	0	0	0	0	0	506
7:30 AM	0	10	281	29	0	320	0	10	2	10	0	22	0	6	104	1	0	111	0	13	1	7	0	21	0	0	0	0	0	0	474
7:45 AM	0	8	215	43	0	266	0	3	6	6	0	15	1	10	118	1	0	130	0	14	1	8	0	23	0	0	0	0	0	0	434
Hourly Total	1	31	1040	134	0	1206	0	32	14	25	2	71	3	28	401	5	0	437	0	64	4	34	0	102	0	0	0	0	0	0	1816

TMC 2306 - CSAH 78 @ Jay St

0 0

Tuesday, April 25, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	7	193	28	0	228	0	7	2	2	0	11	2	4	124	1	0	131	0	18	1	5	0	24	394
8:15 AM	0	3	168	26	1	197	0	4	2	2	0	8	0	3	92	0	0	95	0	20	1	10	0	31	331
8:30 AM	0	8	144	23	0	175	0	9	3	1	0	13	0	5	105	2	0	112	0	19	1	5	0	25	325
8:45 AM	0	2	126	21	0	149	0	4	2	8	2	14	0	2	100	4	0	106	0	14	2	1	0	17	286
Hourly Total	0	20	631	98	1	749	0	24	9	13	2	46	2	14	421	7	0	444	0	71	5	21	0	97	1336
9:00 AM	2	9	141	30	0	182	0	6	4	5	0	15	0	0	98	1	0	99	0	12	1	2	0	15	311
9:15 AM	0	11	220	43	1	274	0	8	4	4	0	16	1	5	96	2	0	104	0	13	1	3	0	17	411
9:30 AM	2	6	134	25	0	167	0	5	1	3	0	9	1	1	75	1	0	78	0	16	2	2	0	20	274
9:45 AM	0	4	113	27	0	144	0	1	6	3	1	10	1	3	89	2	0	95	0	32	3	2	0	37	286
Hourly Total	4	30	608	125	1	767	0	20	15	15	1	50	3	9	358	6	0	376	0	73	7	9	0	89	1282
10:00 AM	0	7	103	20	0	130	0	6	2	3	0	11	1	3	62	4	0	70	0	32	1	6	0	39	250
10:15 AM	0	6	114	24	0	144	0	8	2	6	0	16	0	1	94	2	0	97	0	18	1	2	0	21	278
10:30 AM	0	4	110	25	0	139	0	8	0	2	0	10	1	3	81	3	0	88	0	21	2	3	0	26	263
10:45 AM	0	7	105	31	0	143	0	10	3	0	0	13	1	2	83	0	0	86	0	25	1	0	0	26	268
Hourly Total	0	24	432	100	0	556	0	32	7	11	0	50	3	9	320	9	0	341	0	96	5	11	0	112	1059
11:00 AM	0	2	100	20	0	122	0	6	5	4	0	15	0	5	95	1	0	101	0	35	1	3	0	39	277
11:15 AM	0	1	90	21	0	112	0	6	6	4	0	16	0	2	66	1	0	69	0	23	3	4	0	30	227
11:30 AM	0	3	99	37	0	139	0	10	3	5	0	18	0	2	98	6	0	106	0	34	0	3	0	37	300
11:45 AM	1	5	112	27	0	145	0	5	5	4	0	14	0	4	86	4	0	94	0	32	1	0	0	33	286
Hourly Total	1	11	401	105	0	518	0	27	19	17	0	63	0	13	345	12	0	370	0	124	5	10	0	139	1090
12:00 PM	0	4	114	35	0	153	0	8	4	3	0	15	0	2	90	4	0	96	0	30	2	4	0	36	300
12:15 PM	0	2	121	27	0	150	0	7	2	2	0	11	0	4	105	1	1	110	0	28	1	2	0	31	302
12:30 PM	1	6	98	24	1	129	0	6	2	2	1	10	1	3	120	4	0	128	0	38	1	4	0	43	310
12:45 PM	1	4	103	35	0	143	0	5	1	5	0	11	1	1	96	3	0	101	0	26	2	1	0	29	284
Hourly Total	2	16	436	121	1	575	0	26	9	12	1	47	2	10	411	12	1	435	0	122	6	11	0	139	1196
1:00 PM	0	3	101	22	0	126	0	4	3	2	0	9	0	5	103	7	0	115	1	29	3	2	0	35	285
1:15 PM	0	1	124	24	0	149	0	6	5	1	0	12	0	3	112	1	0	116	0	32	0	2	0	34	311
1:30 PM	0	2	87	29	1	118	0	5	3	0	2	8	0	4	108	4	0	116	0	32	4	9	0	45	287
1:45 PM	1	5	110	25	1	141	0	4	0	1	0	5	0	4	123	2	0	129	0	24	1	4	0	29	304
Hourly Total	1	11	422	100	2	534	0	19	11	4	2	34	0	16	446	14	0	476	1	117	8	17	0	143	1187
2:00 PM	1	6	100	22	0	129	0	8	3	3	1	14	1	3	132	0	0	136	0	45	1	3	0	49	328
2:15 PM	6	9	130	34	0	179	0	5	5	7	0	17	0	3	143	3	0	149	0	36	1	3	0	40	385
2:30 PM	2	8	148	36	0	194	0	9	4	1	1	14	0	7	182	6	0	195	0	32	3	5	0	40	443
2:45 PM	0	6	130	28	0	164	0	7	2	5	0	14	1	8	196	2	0	207	0	57	1	8	0	66	451
Hourly Total	9	29	508	120	0	666	0	29	14	16	2	59	2	21	653	11	0	687	0	170	6	19	0	195	1607
3:00 PM	1	4	88	26	1	119	0	4	2	9	0	15	1	2	220	2	0	225	0	45	2	4	0	51	410
3:15 PM	0	7	146	29	1	182	0	3	3	2	0	8	5	3	216	2	0	226	0	51	0	5	0	56	472
3:30 PM	0	7	128	26	0	161	0	6	7	10	0	23	1	4	264	5	1	274	0	64	6	13	0	83	541
3:45 PM	0	7	104	33	1	144	0	6	5	3	0	14	0	6	254	5	0	265	0	63	3	6	0	72	495
Hourly Total	1	25	466	114	3	606	0	19	17	24	0	60	7	15	954	14	1	990	0	223	11	28	0	262	1918

TMC 2306 - CSAH 78 @ Jay St

0 0

Tuesday, April 25, 2023

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	2	16	168	31	0	217	0	5	2	7	1	14	0	9	287	5	0	301	0	60	2	12	0	74	606
4:15 PM	1	9	155	36	1	201	0	4	2	8	0	14	0	4	315	5	0	324	0	45	2	11	0	58	597
4:30 PM	1	8	140	33	2	182	0	8	3	3	1	14	1	4	304	3	0	312	0	63	0	9	0	72	580
4:45 PM	0	10	142	42	0	194	0	5	4	9	2	18	0	3	333	7	0	343	0	62	2	5	2	69	624
Hourly Total	4	43	605	142	3	794	0	22	11	27	4	60	1	20	1239	20	0	1280	0	230	6	37	2	273	2407
5:00 PM	1	8	143	48	0	200	0	5	2	3	0	10	0	6	323	2	0	331	0	75	3	5	0	83	624
5:15 PM	1	3	131	46	0	181	0	7	2	1	2	10	0	8	272	3	0	283	0	70	3	7	1	80	554
5:30 PM	2	4	169	32	0	207	0	6	3	3	0	12	1	3	241	4	1	249	0	64	1	5	0	70	538
5:45 PM	0	5	136	48	2	189	0	1	0	3	1	4	0	4	223	0	0	227	0	56	3	6	0	65	485
Hourly Total	4	20	579	174	2	777	0	19	7	10	3	36	1	21	1059	9	1	1090	0	265	10	23	1	298	2201
6:00 PM	2	5	111	27	2	145	0	7	1	4	0	12	0	1	207	4	0	212	0	62	0	7	0	69	438
6:15 PM	2	4	135	39	1	180	0	5	1	3	0	9	0	3	171	5	0	179	0	51	2	8	0	61	429
6:30 PM	0	6	111	24	0	141	0	0	4	4	0	8	0	0	175	3	0	178	0	49	2	1	0	52	379
6:45 PM	3	1	108	27	0	139	0	3	4	2	0	9	0	2	139	1	0	142	0	30	4	1	0	35	325
Hourly Total	7	16	465	117	3	605	0	15	10	13	0	38	0	6	692	13	0	711	0	192	8	17	0	217	1571
7:00 PM	0	2	141	34	0	177	0	1	0	2	0	3	0	1	130	2	0	133	0	30	2	0	0	32	345
7:15 PM	1	3	82	20	0	106	0	5	0	3	0	8	0	2	124	1	0	127	0	31	0	1	0	32	273
7:30 PM	0	3	96	22	0	121	0	1	2	1	0	4	0	3	145	2	0	150	0	38	1	1	0	40	315
7:45 PM	3	2	95	16	0	116	0	2	1	1	0	4	0	0	121	1	0	122	0	30	2	1	0	33	275
Hourly Total	4	10	414	92	0	520	0	9	3	7	0	19	0	6	520	6	0	532	0	129	5	3	0	137	1208
8:00 PM	0	2	76	13	0	91	0	4	1	0	0	5	1	3	111	3	0	118	0	26	0	1	0	27	241
8:15 PM	2	4	68	9	0	83	0	3	5	1	0	9	0	2	125	5	0	132	0	35	2	1	0	38	262
8:30 PM	2	3	79	6	0	90	0	0	1	0	0	1	0	3	98	2	0	103	0	24	1	1	0	26	220
8:45 PM	1	0	63	21	0	85	0	1	2	1	0	4	0	2	93	0	0	95	0	34	1	0	0	35	219
Hourly Total	5	9	286	49	0	349	0	8	9	2	0	19	1	10	427	10	0	448	0	119	4	3	0	126	942
9:00 PM	0	1	41	15	0	57	0	0	1	1	0	2	1	3	78	2	0	84	0	21	4	2	0	27	170
9:15 PM	0	1	37	7	0	45	0	0	0	1	0	1	0	0	73	2	0	75	0	16	0	1	0	17	138
9:30 PM	0	1	37	16	0	54	0	0	0	0	0	0	0	0	63	0	0	63	0	21	1	0	0	22	139
9:45 PM	0	0	25	6	0	31	0	1	0	0	0	1	0	0	69	1	0	70	0	14	0	0	0	14	116
Hourly Total	0	3	140	44	0	187	0	1	1	2	0	4	1	3	283	5	0	292	0	72	5	3	0	80	563
10:00 PM	0	1	15	5	0	21	0	1	0	1	0	2	0	1	51	1	0	53	0	12	0	1	0	13	89
10:15 PM	0	1	12	1	0	14	0	0	0	0	0	0	0	0	37	3	0	40	0	9	0	0	0	9	63
10:30 PM	0	1	14	2	0	17	0	0	0	0	0	0	0	0	26	2	0	28	0	7	1	0	0	8	53
10:45 PM	0	1	11	1	0	13	0	1	1	1	0	3	0	0	34	1	0	35	0	4	0	0	0	4	55
Hourly Total	0	4	52	9	0	65	0	2	1	2	0	5	0	1	148	7	0	156	0	32	1	1	0	34	260
11:00 PM	0	0	11	1	0	12	0	1	0	0	0	1	0	1	14	0	0	15	0	3	0	0	0	3	31
11:15 PM	0	0	6	1	0	7	0	0	0	1	0	1	0	0	29	0	0	29	0	5	1	1	0	7	44
11:30 PM	0	0	5	1	0	6	0	0	0	0	0	0	0	1	23	0	0	24	0	4	0	0	0	4	34
11:45 PM	0	1	10	1	0	12	0	0	0	0	0	0	0	0	19	0	0	19	0	3	0	0	0	3	34
Hourly Total	0	1	32	4	0	37	0	1	0	1	0	2	0	2	85	0	0	87	0	15	1	1	0	17	143
DAILY TOTAL	46	322	8996	1787	18	11151	0	339	165	210	19	714	26	246	9131	165	3	9568	1	2160	100	277	3	2538	23971
Cars	45	311	8825	1768	8	10949	0	336	160	204	10	700	26	242	8965	159	2	9392	1	2114	97	272	3	2484	23525
Heavy Vehicles	1	11	171	19	10	202	0	3	5	6	9	14	0	4	166	6	1	176	0	46	3	5	0	54	446
Heavy Vehicle %	2.17%	3.42%	1.90%	1.06%	55.56%	1.81%	0.00%	0.88%	3.03%	2.86%	47.37%	1.96%	0.00%	1.63%	1.82%	3.64%	33.33%	1.84%	0.00%	2.13%	3.00%	1.81%	0.00%	2.13%	1.86%

TMC 2306 - CSAH 78 @ Jay St

0 0

Tuesday, April 25, 2023

AM Peak Hour

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	
7:00 AM	0	8	238	32	0	278	0	7	1	3	2	11	0	5	80	2	0	87	0	17	2	7	0	26	402
7:15 AM	1	5	306	30	0	342	0	12	5	6	0	23	2	7	99	1	0	109	0	20	0	12	0	32	506
7:30 AM	0	10	281	29	0	320	0	10	2	10	0	22	0	6	104	1	0	111	0	13	1	7	0	21	474
7:45 AM	0	8	215	43	0	266	0	3	6	6	0	15	1	10	118	1	0	130	0	14	1	8	0	23	434
Peak Hour Total	1	31	1040	134	0	1206	0	32	14	25	2	71	3	28	401	5	0	437	0	64	4	34	0	102	1816
PHF	0.250	0.775	0.850	0.779	0.000	0.882	0.000	0.667	0.583	0.625	0.250	0.772	0.375	0.700	0.850	0.625	0.000	0.840	0.000	0.800	0.500	0.708	0.000	0.797	0.897

PM Peak Hour

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	
4:15 PM	1	9	155	36	1	201	0	4	2	8	0	14	0	4	315	5	0	324	0	45	2	11	0	58	597
4:30 PM	1	8	140	33	2	182	0	8	3	3	1	14	1	4	304	3	0	312	0	63	0	9	0	72	580
4:45 PM	0	10	142	42	0	194	0	5	4	9	2	18	0	3	333	7	0	343	0	62	2	5	2	69	624
5:00 PM	1	8	143	48	0	200	0	5	2	3	0	10	0	6	323	2	0	331	0	75	3	5	0	83	624
Peak Hour Total	3	35	580	159	3	777	0	22	11	23	3	56	1	17	1275	17	0	1310	0	245	7	30	2	282	2425
PHF	0.750	0.875	0.935	0.828	0.375	0.966	0.000	0.688	0.688	0.639	0.375	0.778	0.250	0.708	0.957	0.607	0.000	0.955	0.000	0.817	0.583	0.682	0.250	0.849	0.972

Total Vehicles On Leg				22698			
Vehicles Entering Intersection		11151		Vehicles Exiting Intersection		11547	
Southbound							
Cars	1768	8825	311	45	8		
Heavy	19	171	11	1	10		
Total	1787	8996	322	46	18		



Total Vehicles on Leg 4737	Vehicles Entering Intersection 2538	Eastbound	Cars	Heavy	Total	
			3	0	3	
	1		0	1		
	2114		46	2160		
	Vehicles Exiting Intersection 2199		97	3	100	
	272	5	277			

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 714	Total Vehicles on Leg 1301
204	6	210			
160	5	165			
336	3	339			
0	0	0			
10	9	19	Vehicles Exiting Intersection 587		



Cars	2	26	242	8965	159
Heavy	1	0	4	166	6
Total	3	26	246	9131	165
Northbound					
Vehicles Entering Intersection			9568		
Vehicles Exiting Intersection			9638		
Total Vehicles On Leg			19206		

Heavy Vehicles

Date	Time	Southbound						Westbound						Northbound						Eastbound					
		U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk
04/25/2023	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	0:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	1:30	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	3:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	4:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	2	0	0	0
	6:15	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	3	0	0	0
	6:30	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0
	6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	4	1	0	0
	7:00	0	1	1	1	0	0	0	0	1	1	0	0	0	0	4	1	0	0	0	0	2	1	0	0
	7:15	0	0	6	0	0	0	0	0	1	0	0	0	0	0	1	3	0	0	0	0	1	0	0	0
	7:30	0	0	4	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	2	0	0	0
	7:45	0	1	8	0	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	8:00	0	1	2	2	0	0	0	1	0	0	0	0	0	0	1	4	1	0	0	0	2	0	1	0
	8:15	0	0	4	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0
	8:30	0	1	1	1	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	1	0	1	0
	8:45	0	1	2	0	0	0	0	0	1	0	0	0	0	0	6	0	0	0	0	0	1	0	0	0
	9:00	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0
	9:15	0	0	24	2	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0
	9:30	0	0	6	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0
	9:45	0	0	3	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0
	10:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
	10:15	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0
	10:30	0	0	3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
	10:45	0	0	2	1	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	3	0	0	0
	11:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0
	11:15	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	2	0	0	0
	11:30	0	0	5	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0
	11:45	0	0	5	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2306

Study Date : 05/16/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 78

Number of Lanes : 2+

Total Approach Volume: 9,568

Southbound: CSAH 78

Number of Lanes :2+

Total Approach Volume: 11,151

Minor Street Approaches

Eastbound: Jay St

Number of Lanes :1

Total Approach Volume: 2,538

Westbound: 139th Ln NW

Number of Lanes :1

Total Approach Volume: 714

Warrant Summary (Urban Values Apply)

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

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

Required volumes reached for 6 hours, 8 are needed

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

Required volumes reached for 13 hours, 8 are needed

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

Required 1A volumes reached for 11 hours, 8 are needed

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

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

Number of hours (10) 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 2306

Study Date : 05/16/2023

Warrant 1A - Minimum Volumes

Description

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

Summary

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

Site Data Required

Rural Settings Apply = **False**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Veh/Hr Major = **600**

Veh/Hr Minor = **150**

Time	Major Road CSAH 78				Total	Minor Road Jay St		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	1310	+	777	=	2087	282	56	Yes
15:15 - 16:15	1066	+	704	=	1770	285	59	Yes
17:15 - 18:15	971	+	722	=	1693	284	38	Yes
14:15 - 15:15	776	+	656	=	1432	197	60	Yes
18:15 - 19:15	632	+	637	=	1269	180	29	Yes
13:15 - 14:15	497	+	537	=	1034	157	39	Yes
07:00 - 08:00	437	+	1206	=	1643	102	71	No
07:15 - 08:15	481	+	1156	=	1637	100	71	No
06:45 - 07:45	389	+	1175	=	1564	98	65	No
07:30 - 08:30	467	+	1011	=	1478	99	56	No
06:30 - 07:30	321	+	1146	=	1467	90	49	No
07:45 - 08:45	468	+	866	=	1334	103	47	No
06:15 - 07:15	254	+	993	=	1247	70	37	No
08:30 - 09:30	421	+	780	=	1201	74	58	No
08:00 - 09:00	444	+	749	=	1193	97	46	No
08:45 - 09:45	387	+	772	=	1159	69	54	No
09:00 - 10:00	376	+	767	=	1143	89	50	No
08:15 - 09:15	412	+	703	=	1115	88	50	No
06:00 - 07:00	189	+	898	=	1087	49	28	No
09:15 - 10:15	347	+	715	=	1062	113	46	No
13:00 - 14:00	476	+	534	=	1010	143	34	No
12:00 - 13:00	435	+	575	=	1010	139	47	No
12:30 - 13:30	460	+	547	=	1007	141	42	No
11:45 - 12:45	428	+	577	=	1005	143	50	No
12:15 - 13:15	454		548		1002	138	41	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2306

Study Date : 05/16/2023

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

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 = **1**

Volume Requirements

Veh/Hr Major = **900**

Veh/Hr Minor = **75**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	1310	+	777	=	2087	282	56	Yes
15:15 - 16:15	1066	+	704	=	1770	285	59	Yes
17:15 - 18:15	971	+	722	=	1693	284	38	Yes
07:30 - 08:30	467	+	1011	=	1478	99	56	Yes
06:30 - 07:30	321	+	1146	=	1467	90	49	Yes
14:15 - 15:15	776	+	656	=	1432	197	60	Yes
18:15 - 19:15	632	+	637	=	1269	180	29	Yes
09:00 - 10:00	376	+	767	=	1143	89	50	Yes
13:15 - 14:15	497	+	537	=	1034	157	39	Yes
12:15 - 13:15	454	+	548	=	1002	138	41	Yes
19:15 - 20:15	517	+	434	=	951	132	21	Yes
10:15 - 11:15	372	+	548	=	920	112	54	Yes
11:15 - 12:15	365	+	549	=	914	136	63	Yes
06:15 - 07:15	254	+	993	=	1247	70	37	No
08:30 - 09:30	421	+	780	=	1201	74	58	No
08:45 - 09:45	387	+	772	=	1159	69	54	No
06:00 - 07:00	189	+	898	=	1087	49	28	No
05:45 - 06:45	140	+	805	=	945	36	23	No
10:00 - 11:00	341	+	556	=	897	112	50	No
05:30 - 06:30	114	+	666	=	780	26	20	No
20:15 - 21:15	414	+	315	=	729	126	16	No
05:15 - 06:15	85	+	579	=	664	14	14	No
20:30 - 21:30	357	+	277	=	634	105	8	No
20:45 - 21:45	317	+	241	=	558	101	7	No
05:00 - 06:00	75		470		545	10	14	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2306

Study Date : 05/16/2023

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

11 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 = **1**

Volume Requirements

Warrant 1A 1B
Veh/Hr Major = **480 720**

Veh/Hr Minor = **120 60**

Major Road CSAH 78

Minor Road Jay St

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:45 - 17:45	1206	+	782	=	1988	302	50	Yes
15:45 - 16:45	1202	+	744	=	1946	276	56	Yes
14:45 - 15:45	932	+	626	=	1558	256	60	Yes
17:45 - 18:45	796	+	655	=	1451	247	33	Yes
13:45 - 14:45	609	+	643	=	1252	158	50	Yes
18:45 - 19:45	552	+	543	=	1095	139	24	Yes
11:45 - 12:45	428	+	577	=	1005	143	50	Yes
12:45 - 13:45	448	+	536	=	984	143	40	Yes
09:45 - 10:45	350	+	557	=	907	123	47	Yes
10:45 - 11:45	362	+	516	=	878	132	62	Yes
19:45 - 20:45	475	+	380	=	855	124	19	Yes
07:00 - 08:00	437		1206		1643	102	71	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:15 - 17:15	1310	+	777	=	2087	282	56	Yes
15:15 - 16:15	1066	+	704	=	1770	285	59	Yes
17:15 - 18:15	971	+	722	=	1693	284	38	Yes
07:15 - 08:15	481	+	1156	=	1637	100	71	Yes
14:15 - 15:15	776	+	656	=	1432	197	60	Yes
18:15 - 19:15	632	+	637	=	1269	180	29	Yes
06:15 - 07:15	254	+	993	=	1247	70	37	Yes
08:15 - 09:15	412	+	703	=	1115	88	50	Yes
09:15 - 10:15	347	+	715	=	1062	113	46	Yes
13:15 - 14:15	497	+	537	=	1034	157	39	Yes
12:15 - 13:15	454	+	548	=	1002	138	41	Yes
19:15 - 20:15	517		434		951	132	21	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2306

Study Date : 05/16/2023

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.

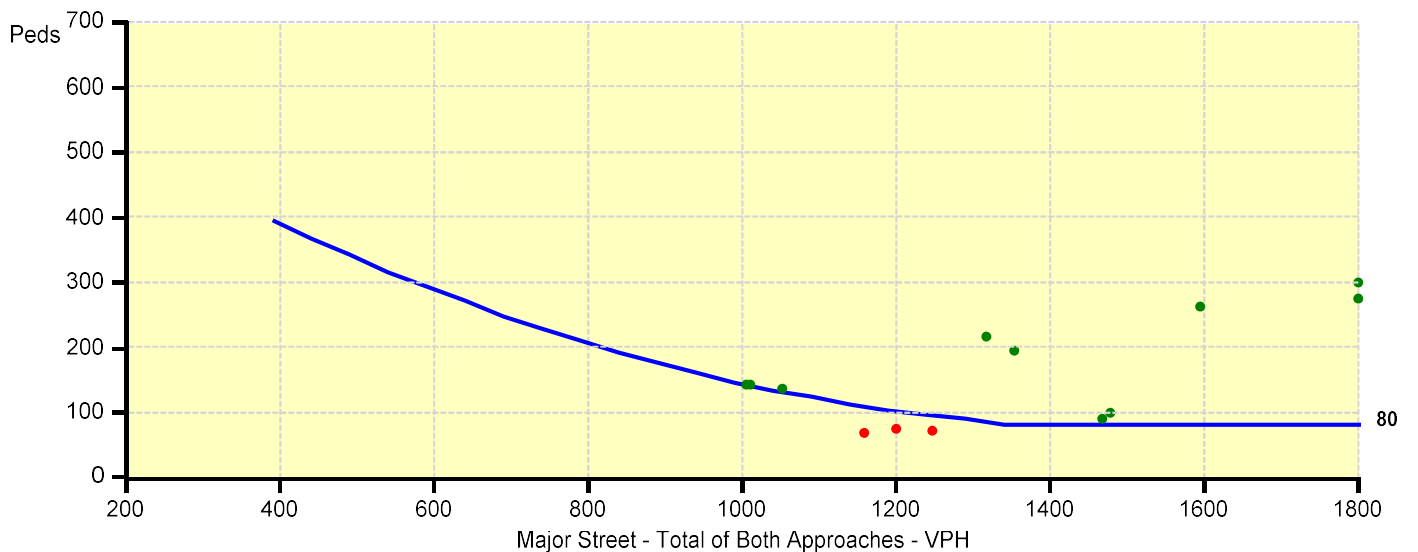
Summary

10 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 = **1**

Time	Major Road CSAH 78				Total	Minor Road Jay St		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	1280	+	794	=	2074	273	60	Yes
17:00 - 18:00	1090	+	777	=	1867	298	36	Yes
15:00 - 16:00	990	+	606	=	1596	262	60	Yes
07:30 - 08:30	467	+	1011	=	1478	99	56	Yes
06:30 - 07:30	321	+	1146	=	1467	90	49	Yes
14:00 - 15:00	687	+	666	=	1353	195	59	Yes
18:00 - 19:00	711	+	605	=	1316	217	38	Yes
19:00 - 20:00	532	+	520	=	1052	137	19	Yes
13:00 - 14:00	476	+	534	=	1010	143	34	Yes
11:45 - 12:45	428	+	577	=	1005	143	50	Yes
06:15 - 07:15	254	+	993	=	1247	70	37	No
08:30 - 09:30	421	+	780	=	1201	74	58	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2306

Study Date : 05/16/2023

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

17 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 = **1**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
							Jay St	
16:15 - 17:15	1310	+	777	=	2087	282	56	Yes
16:00 - 17:00	1280	+	794	=	2074	273	60	Yes
16:30 - 17:30	1269	+	757	=	2026	304	52	Yes
16:45 - 17:45	1206	+	782	=	1988	302	50	Yes
15:45 - 16:45	1202	+	744	=	1946	276	56	Yes
15:30 - 16:30	1164	+	723	=	1887	287	65	Yes
17:00 - 18:00	1090	+	777	=	1867	298	36	Yes
15:15 - 16:15	1066	+	704	=	1770	285	59	Yes
17:15 - 18:15	971	+	722	=	1693	284	38	Yes
15:00 - 16:00	990	+	606	=	1596	262	60	Yes
17:30 - 18:30	867	+	721	=	1588	265	37	Yes
14:45 - 15:45	932		626		1558	256	60	Yes

