

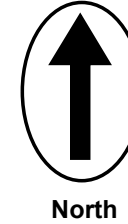
Date: 10/01/24

Count Number: TMC 2481

Location: CSAH 1

@ 7th Ave

Collection Period: 24 HR



North

5315

#2

7th Ave

2727			
283	294	2150	0
E	F	G	H

2588

CSAH 1

I	2085	6482
J	4278	
K	119	
L	0	

#3

12327

5845

4650

8577

#1

3927	0	D
	207	C
	3596	B
	124	A

CSAH 1

P	O	N	M
0	89	296	99
484			

#4

537

7th Ave

1021

Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

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

Date: 10/01/24

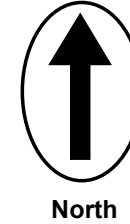
Count Number: TMC 2481

Location: CSAH 1

@ 7th Ave

Collection Period: 24 HR

Peak Hour: 7:30 - 8:30 AM



North

388

#2

7th Ave

262			
13	11	238	0
E	F	G	H

126

CSAH 1

I	97	380
J	280	
K	3	
L	0	

#3

1048

668

745

#1

300

445	0	D
	12	C
	424	B
	9	A

CSAH 1

P	O	N	M
0	7	17	6
30			

#4

53

7th Ave

Anoka County
Highway Department

Traffic Volume and Turning
Movement Study

EXISTING LANES OF APPROACH

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

Date: 10/01/24

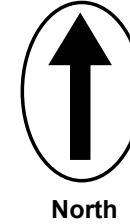
Count Number: TMC 2481

Location: CSAH 1

@ 7th Ave

Collection Period: 24 HR

Peak Hour: 3:30 - 4:30 PM



North

520

#2

7th Ave

207			
30	34	143	0
E	F	G	H

313

CSAH 1

I	263	708
J	435	
K	10	
L	0	

#3

1089

381

730

#1

259	0	D
	19	C
	231	B
	9	A

CSAH 1

471

P	O	N	M
0	6	31	7
44			

#4

97

7th Ave

53

Anoka County
Highway Department

Traffic Volume and Turning
Movement Study

EXISTING LANES OF APPROACH

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

**TMC 2481 - CSAH 1 @ 7th Ave
Anoka MN
Tuesday, October 1, 2024**

Time	Southbound 7th Ave						Westbound CSAH 1						Northbound 7th Ave						Eastbound CSAH 1						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	3	0	0	3	0	0	7	3	0	10	0	0	0	0	0	0	0	0	1	0	0	1	14
12:15 AM	0	1	0	1	0	2	0	0	4	4	0	8	0	0	1	0	0	1	0	0	3	0	0	3	14
12:30 AM	0	1	0	1	0	2	0	1	5	1	0	7	0	0	0	0	0	0	0	0	6	0	0	6	15
12:45 AM	0	3	1	0	0	4	0	0	1	1	0	2	0	0	0	0	0	0	0	0	4	0	0	4	10
Hourly Total	0	5	4	2	0	11	0	1	17	9	0	27	0	0	1	0	0	1	0	0	14	0	0	14	53
1:00 AM	0	1	0	0	0	1	0	1	3	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	6
1:15 AM	0	2	0	0	0	2	0	1	3	1	0	5	0	0	0	0	0	0	0	0	2	0	0	2	9
1:30 AM	0	1	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	2	0	0	2	5
1:45 AM	0	2	1	1	0	4	0	0	1	0	0	1	0	0	0	0	0	0	0	1	3	0	0	4	9
Hourly Total	0	6	1	1	0	8	0	2	8	3	0	13	0	0	0	0	0	0	0	1	7	0	0	8	29
2:00 AM	0	1	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	3	1	0	4	7
2:15 AM	0	3	0	0	0	3	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
2:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2	4
2:45 AM	0	1	0	0	0	1	0	0	3	1	0	4	0	0	0	0	0	0	0	0	2	0	0	2	7
Hourly Total	0	5	0	0	0	5	0	0	6	3	0	9	0	0	1	0	0	1	0	0	7	1	0	8	23
3:00 AM	0	1	0	1	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
3:15 AM	0	2	0	0	0	2	0	1	3	0	0	4	0	1	0	0	0	1	0	0	5	0	0	5	12
3:30 AM	0	1	0	0	0	1	0	0	7	2	0	9	0	0	1	0	0	1	0	0	1	0	0	1	12
3:45 AM	0	1	0	0	0	1	0	0	4	1	0	5	0	0	0	0	0	0	0	0	4	0	0	4	10
Hourly Total	0	5	0	1	0	6	0	1	15	3	0	19	0	1	1	0	0	2	0	0	10	0	0	10	37
4:00 AM	0	0	0	0	0	0	0	0	6	3	0	9	0	0	1	1	0	2	0	0	8	0	0	8	19
4:15 AM	0	1	0	0	0	1	0	0	10	0	0	10	0	0	0	0	0	0	0	0	3	0	0	3	14
4:30 AM	0	6	0	0	0	6	0	0	7	6	0	13	0	0	0	1	0	1	0	0	2	0	0	2	22
4:45 AM	0	6	0	1	0	7	0	0	11	1	0	12	0	1	0	1	0	2	0	2	10	0	0	12	33
Hourly Total	0	13	0	1	0	14	0	0	34	10	0	44	0	1	1	3	0	5	0	2	23	0	0	25	88
5:00 AM	0	5	0	0	0	5	0	0	15	6	0	21	0	0	0	0	0	0	0	0	9	0	0	9	35
5:15 AM	0	7	0	0	0	7	0	0	19	4	0	23	0	0	2	0	0	2	0	0	10	1	0	11	43
5:30 AM	0	18	1	0	0	19	0	0	27	8	0	35	0	0	3	1	0	4	0	0	13	0	0	13	71
5:45 AM	0	26	0	2	0	28	0	0	18	9	0	27	0	0	0	0	0	0	0	0	21	1	0	22	77
Hourly Total	0	56	1	2	0	59	0	0	79	27	0	106	0	0	5	1	0	6	0	0	53	2	0	55	226
6:00 AM	0	25	2	2	0	29	0	0	20	9	0	29	0	1	3	3	0	7	0	0	25	0	1	25	90
6:15 AM	0	28	1	2	0	31	0	3	28	7	0	38	0	1	2	1	0	4	0	1	46	1	0	48	121
6:30 AM	0	49	3	2	0	54	0	0	45	19	0	64	0	0	6	0	0	6	0	1	68	1	0	70	194
6:45 AM	0	67	1	4	0	72	0	2	37	13	0	52	0	2	3	1	0	6	0	3	106	0	0	109	239
Hourly Total	0	169	7	10	0	186	0	5	130	48	0	183	0	4	14	5	0	23	0	5	245	2	1	252	644
7:00 AM	0	36	0	7	0	43	0	3	40	29	0	72	0	2	6	4	0	12	0	4	68	1	0	73	200
7:15 AM	0	47	1	3	0	51	0	0	55	19	0	74	0	1	10	3	0	14	0	0	71	2	0	73	212
7:30 AM	0	85	3	2	0	90	0	0	99	31	0	130	0	3	3	2	0	8	0	5	110	3	0	118	346
7:45 AM	0	74	1	2	0	77	0	0	71	19	0	90	0	1	6	1	0	8	0	2	122	0	0	124	299
Hourly Total	0	242	5	14	0	261	0	3	265	98	0	366	0	7	25	10	0	42	0	11	371	6	0	388	1057

**TMC 2481 - CSAH 1 @ 7th Ave
Anoka MN
Tuesday, October 1, 2024**

Time	Southbound 7th Ave						Westbound CSAH 1						Northbound 7th Ave						Eastbound CSAH 1						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	45	2	7	0	54	0	2	64	24	0	90	0	2	2	0	0	4	0	0	106	4	0	110	258
8:15 AM	0	34	5	2	0	41	0	1	46	23	0	70	0	1	6	3	1	10	0	5	86	2	1	93	214
8:30 AM	0	43	7	6	0	56	0	1	48	28	0	77	0	0	7	1	0	8	0	2	51	1	0	54	195
8:45 AM	0	54	7	2	0	63	0	0	64	30	0	94	0	1	2	3	1	6	0	3	56	0	0	59	222
Hourly Total	0	176	21	17	0	214	0	4	222	105	0	331	0	4	17	7	2	28	0	10	299	7	1	316	889
9:00 AM	0	36	7	10	0	53	0	1	56	22	0	79	0	1	4	0	0	5	0	3	63	2	0	68	205
9:15 AM	0	30	7	2	0	39	0	0	57	21	0	78	0	0	2	3	0	5	0	2	60	2	0	64	186
9:30 AM	0	39	1	4	0	44	0	3	66	23	0	92	0	1	2	0	0	3	0	5	44	4	0	53	192
9:45 AM	0	45	1	6	0	52	0	2	65	23	0	90	0	2	1	1	1	4	0	1	64	2	0	67	213
Hourly Total	0	150	16	22	0	188	0	6	244	89	0	339	0	4	9	4	1	17	0	11	231	10	0	252	796
10:00 AM	0	28	8	6	0	42	0	7	63	34	4	104	0	0	3	1	0	4	0	4	49	2	0	55	205
10:15 AM	0	29	2	3	0	34	0	2	69	26	0	97	0	2	3	2	0	7	0	1	61	2	0	64	202
10:30 AM	0	29	4	5	0	38	0	3	63	22	0	88	0	4	7	0	0	11	0	4	69	2	0	75	212
10:45 AM	0	36	7	3	0	46	0	1	59	22	0	82	0	2	1	2	0	5	0	3	51	3	0	57	190
Hourly Total	0	122	21	17	0	160	0	13	254	104	4	371	0	8	14	5	0	27	0	12	230	9	0	251	809
11:00 AM	0	25	3	9	0	37	0	3	59	22	0	84	0	1	5	0	0	6	0	4	42	4	2	50	177
11:15 AM	0	18	5	2	0	25	0	0	63	16	0	79	0	3	5	0	2	8	0	3	42	2	0	47	159
11:30 AM	0	28	2	3	1	33	0	1	63	22	0	86	0	0	10	2	0	12	0	4	56	5	1	65	196
11:45 AM	0	39	7	4	0	50	0	4	68	27	0	99	0	1	6	1	0	8	0	2	62	2	0	66	223
Hourly Total	0	110	17	18	1	145	0	8	253	87	0	348	0	5	26	3	2	34	0	13	202	13	3	228	755
12:00 PM	0	25	7	6	1	38	0	1	79	24	0	104	0	1	9	1	1	11	0	3	36	2	1	41	194
12:15 PM	0	23	1	4	4	28	0	2	73	36	0	111	0	0	4	4	1	8	0	5	51	6	1	62	209
12:30 PM	0	44	7	2	1	53	0	0	57	39	0	96	0	4	5	1	1	10	0	7	44	2	0	53	212
12:45 PM	0	44	9	4	0	57	0	2	69	35	0	106	0	2	2	1	0	5	0	2	38	2	0	42	210
Hourly Total	0	136	24	16	6	176	0	5	278	134	0	417	0	7	20	7	3	34	0	17	169	12	2	198	825
1:00 PM	0	37	3	4	0	44	0	4	62	31	0	97	0	1	4	2	0	7	0	2	51	1	0	54	202
1:15 PM	0	35	5	3	0	43	0	2	72	27	0	101	0	3	5	3	0	11	0	5	46	1	0	52	207
1:30 PM	0	30	2	4	0	36	0	0	49	38	0	87	0	3	6	2	0	11	0	8	51	2	0	61	195
1:45 PM	0	39	6	3	2	48	0	6	87	46	0	139	0	1	3	1	2	5	0	1	56	1	0	58	250
Hourly Total	0	141	16	14	2	171	0	12	270	142	0	424	0	8	18	8	2	34	0	16	204	5	0	225	854
2:00 PM	0	21	3	8	0	32	0	1	73	51	0	125	0	5	4	2	0	11	0	2	58	1	0	61	229
2:15 PM	0	46	6	5	0	57	0	2	70	37	0	109	0	0	4	1	0	5	0	6	49	4	0	59	230
2:30 PM	0	33	4	6	0	43	0	3	86	48	2	137	0	1	4	3	0	8	0	2	58	1	0	61	249
2:45 PM	0	41	6	4	0	51	0	0	93	35	0	128	0	1	4	1	0	6	0	5	58	0	0	63	248
Hourly Total	0	141	19	23	0	183	0	6	322	171	2	499	0	7	16	7	0	30	0	15	223	6	0	244	956
3:00 PM	0	34	2	9	0	45	0	1	106	52	0	159	0	1	8	0	0	9	0	3	80	2	0	85	298
3:15 PM	0	37	9	8	1	54	0	2	76	50	1	128	0	2	7	0	0	9	0	3	72	8	0	83	274
3:30 PM	0	43	7	16	1	66	0	4	110	80	1	194	0	2	9	0	0	11	0	9	63	2	0	74	345
3:45 PM	0	35	13	3	0	51	0	2	107	47	0	156	0	1	9	2	2	12	0	2	56	2	0	60	279
Hourly Total	0	149	31	36	2	216	0	9	399	229	2	637	0	6	33	2	2	41	0	17	271	14	0	302	1196

**TMC 2481 - CSAH 1 @ 7th Ave
Anoka MN
Tuesday, October 1, 2024**

Time	Southbound 7th Ave						Westbound CSAH 1						Northbound 7th Ave						Eastbound CSAH 1						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	39	6	7	0	52	0	1	114	82	0	197	0	2	4	3	0	9	0	4	51	3	0	58	316
4:15 PM	0	26	8	4	0	38	0	3	104	54	0	161	0	1	9	2	0	12	0	4	61	2	0	67	278
4:30 PM	0	31	8	7	0	46	0	4	129	69	2	202	0	3	7	1	1	11	0	9	61	5	0	75	334
4:45 PM	0	25	8	9	0	42	0	0	100	60	1	160	0	2	7	2	2	11	0	4	62	0	1	66	279
Hourly Total	0	121	30	27	0	178	0	8	447	265	3	720	0	8	27	8	3	43	0	21	235	10	1	266	1207
5:00 PM	0	28	7	1	0	36	0	4	113	77	0	194	0	2	8	2	0	12	0	2	56	2	0	60	302
5:15 PM	0	40	5	2	0	47	0	1	93	62	1	156	0	1	5	1	0	7	0	5	49	4	0	58	268
5:30 PM	0	33	4	4	1	41	0	1	75	32	1	108	0	3	6	1	0	10	0	3	60	2	2	65	224
5:45 PM	0	20	10	5	1	35	0	1	73	38	0	112	0	0	6	2	0	8	0	6	40	1	0	47	202
Hourly Total	0	121	26	12	2	159	0	7	354	209	2	570	0	6	25	6	0	37	0	16	205	9	2	230	996
6:00 PM	0	24	5	6	0	35	0	1	62	23	1	86	0	1	5	1	0	7	0	0	50	3	0	53	181
6:15 PM	0	21	4	6	1	31	0	1	58	35	0	94	0	1	4	1	0	6	0	1	40	2	2	43	174
6:30 PM	0	31	5	3	0	39	0	3	49	23	2	75	0	0	5	5	1	10	0	2	64	4	0	70	194
6:45 PM	0	22	2	6	3	30	0	4	49	19	1	72	0	0	1	2	1	3	0	5	67	3	0	75	180
Hourly Total	0	98	16	21	4	135	0	9	218	100	4	327	0	2	15	9	2	26	0	8	221	12	2	241	729
7:00 PM	0	11	2	2	0	15	0	1	66	24	0	91	0	2	2	1	0	5	0	3	34	0	0	37	148
7:15 PM	0	18	5	4	1	27	0	3	49	22	0	74	0	1	5	4	0	10	0	5	35	0	0	40	151
7:30 PM	0	15	3	4	0	22	0	3	59	32	0	94	0	1	4	2	0	7	0	3	25	0	0	28	151
7:45 PM	0	14	2	6	2	22	0	1	30	15	0	46	0	3	2	1	0	6	0	4	28	0	0	32	106
Hourly Total	0	58	12	16	3	86	0	8	204	93	0	305	0	7	13	8	0	28	0	15	122	0	0	137	556
8:00 PM	0	9	1	3	1	13	0	1	21	21	0	43	0	0	4	1	0	5	0	3	33	0	0	36	97
8:15 PM	0	14	3	0	0	17	0	3	25	21	0	49	0	0	1	1	0	2	0	2	31	0	0	33	101
8:30 PM	0	7	1	2	0	10	0	1	30	11	0	42	0	1	0	0	1	1	0	1	25	3	0	29	82
8:45 PM	0	13	3	3	1	19	0	0	16	6	0	22	0	0	1	3	0	4	0	0	20	0	0	20	65
Hourly Total	0	43	8	8	2	59	0	5	92	59	0	156	0	1	6	5	1	12	0	6	109	3	0	118	345
9:00 PM	0	7	8	1	0	16	0	1	23	18	0	42	0	0	2	0	0	2	0	2	12	0	0	14	74
9:15 PM	0	7	2	2	0	11	0	0	22	3	0	25	0	1	0	1	0	2	0	1	23	1	0	25	63
9:30 PM	0	8	1	1	0	10	0	0	15	15	0	30	0	0	3	0	0	3	0	1	22	0	0	23	66
9:45 PM	0	3	2	0	0	5	0	1	17	7	0	25	0	0	2	0	0	2	0	1	9	2	0	12	44
Hourly Total	0	25	13	4	0	42	0	2	77	43	0	122	0	1	7	1	0	9	0	5	66	3	0	74	247
10:00 PM	0	8	1	0	0	9	0	1	18	10	0	29	0	0	0	0	0	0	0	1	11	0	0	12	50
10:15 PM	0	4	0	1	0	5	0	1	6	3	0	10	0	0	0	0	0	0	0	2	15	0	0	17	32
10:30 PM	0	15	1	0	0	16	0	0	12	5	0	17	0	0	1	0	0	1	0	0	11	0	0	11	45
10:45 PM	0	7	1	0	0	8	0	1	6	5	0	12	0	0	1	0	0	1	0	0	21	0	0	21	42
Hourly Total	0	34	3	1	0	38	0	3	42	23	0	68	0	0	2	0	0	2	0	3	58	0	0	61	169
11:00 PM	0	8	1	0	0	9	0	1	13	8	0	22	0	0	0	0	0	0	0	1	8	0	0	9	40
11:15 PM	0	6	0	0	0	6	0	0	7	5	0	12	0	0	0	0	0	0	0	0	4	0	0	4	22
11:30 PM	0	7	0	0	0	7	0	1	20	12	0	33	0	1	0	0	0	1	0	0	6	0	0	6	47
11:45 PM	0	3	2	0	0	5	0	0	8	6	0	14	0	1	0	0	0	1	0	2	3	0	0	5	25
Hourly Total	0	24	3	0	0	27	0	2	48	31	0	81	0	2	0	0	0	2	0	3	21	0	0	24	134
DAILY TOTAL	0	2150	294	283	22	2727	0	119	4278	2085	17	6482	0	89	296	99	18	484	0	207	3596	124	12	3927	13620
Cars	0	2096	287	280	15	2663	0	113	4216	2023	9	6352	0	89	286	98	14	473	0	202	3536	121	11	3859	13347
Heavy Vehicles	0	54	7	3	7	64	0	6	62	62	8	130	0	0	10	1	4	11	0	5	60	3	1	68	273
Heavy Vehicle %	0.00%	2.51%	2.38%	1.06%	31.82%	2.35%	0.00%	5.04%	1.45%	2.97%	47.06%	2.01%	0.00%	0.00%	3.38%	1.01%	22.22%	2.27%	0.00%	2.42%	1.67%	2.42%	8.33%	1.73%	2.00%

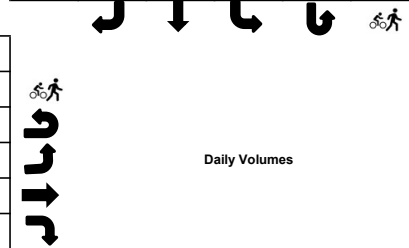
**TMC 2481 - CSAH 1 @ 7th Ave
Anoka MN
Tuesday, October 1, 2024
AM Peak Hour**

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	
7:30 AM	0	85	3	2	0	90	0	0	99	31	0	130	0	3	3	2	0	8	0	5	110	3	0	118	346
7:45 AM	0	74	1	2	0	77	0	0	71	19	0	90	0	1	6	1	0	8	0	2	122	0	0	124	299
8:00 AM	0	45	2	7	0	54	0	2	64	24	0	90	0	2	2	0	0	4	0	0	106	4	0	110	258
8:15 AM	0	34	5	2	0	41	0	1	46	23	0	70	0	1	6	3	1	10	0	5	86	2	1	93	214
Peak Hour Total PHF	0	238	11	13	0	262	0	3	280	97	0	380	0	7	17	6	1	30	0	12	424	9	1	445	1117
	0.000	0.700	0.550	0.464	0.000	0.728	0.000	0.375	0.707	0.782	0.000	0.731	0.000	0.583	0.708	0.500	0.250	0.750	0.000	0.600	0.869	0.563	0.250	0.897	0.807

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	
3:30 PM	0	43	7	16	1	66	0	4	110	80	1	194	0	2	9	0	0	11	0	9	63	2	0	74	345
3:45 PM	0	35	13	3	0	51	0	2	107	47	0	156	0	1	9	2	2	12	0	2	56	2	0	60	279
4:00 PM	0	39	6	7	0	52	0	1	114	82	0	197	0	2	4	3	0	9	0	4	51	3	0	58	316
4:15 PM	0	26	8	4	0	38	0	3	104	54	0	161	0	1	9	2	0	12	0	4	61	2	0	67	278
Peak Hour Total PHF	0	143	34	30	1	207	0	10	435	263	1	708	0	6	31	7	2	44	0	19	231	9	0	259	1218
	0.000	0.831	0.654	0.469	0.250	0.784	0.000	0.625	0.954	0.802	0.250	0.898	0.000	0.750	0.861	0.583	0.250	0.917	0.000	0.528	0.917	0.750	0.000	0.875	0.883

Total Vehicles On Leg				5315	
Vehicles Entering Intersection			2727	Vehicles Exiting Intersection	
				2588	
Southbound					
Cars	280	287	2096	0	15
Heavy	3	7	54	0	7
Total	283	294	2150	0	22



Total Vehicles on Leg 8577	Eastbound	Vehicles Entering Intersection	3927			
		Cars		11	1	12
		Heavy		0	0	0
		Total		202	5	207
		Vehicles Exiting Intersection	4650			
		Cars		3536	60	3596
		Heavy		121	3	124

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 6482	Total Vehicles on Leg 12327
2023	62	2085			
4216	62	4278			
113	6	119			
0	0	0			
9	8	17		Vehicles Exiting Intersection 5845	

Cars	14	0	89	286	98
Heavy	4	0	0	10	1
Total	18	0	89	296	99
Northbound					
Vehicles Entering Intersection			484	Vehicles Exiting Intersection	
				537	
Total Vehicles On Leg				1021	

Daily Volumes

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 10/03/2024

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 1

Number of Lanes : 2+

Total Approach Volume: 3,927

Westbound: CSAH 1

Number of Lanes :2+

Total Approach Volume: 6,482

Minor Street Approaches

Northbound: 7th Ave

Number of Lanes :1

Total Approach Volume: 484

Southbound: 7th Ave

Number of Lanes :1

Total Approach Volume: 2,444

Warrant Summary (Urban Values Apply)

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

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

Required volumes reached for 9 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Not Satisfied

Required volumes reached for 2 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Not Satisfied

Required 1A volumes reached for 12 hours, 8 are needed

Required 1B volumes reached for 5 hours, 8 are needed

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

Number of hours (3) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (32) volumes exceed minimum >= required (1). Delay data not evaluated.

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

Volumes do not exceed minimums for any one hour period.

Warrant 4 - Pedestrian Volumes.....Not Evaluated

Warrant 5 - School Crossing.....Not Evaluated

Warrant 6 - Coordinated Signal System.....Not Evaluated

Warrant 7 - Crash Experience.....Not Evaluated

Warrant 8 - Roadway Network.....Not Evaluated

Warrant 9 - Intersection Near a Grade Crossing.....Not Evaluated

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 10/03/2024

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

9 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 = **600**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	CSAH 1					7th Ave		
15:45 - 16:45	260	+	716	=	976	44	166	Yes
14:45 - 15:45	305	+	609	=	914	35	179	Yes
16:45 - 17:45	249	+	618	=	867	40	150	Yes
13:45 - 14:45	239	+	510	=	749	29	158	Yes
07:45 - 08:45	381	+	327	=	708	30	211	Yes
06:45 - 07:45	373	+	328	=	701	40	240	Yes
11:45 - 12:45	222	+	410	=	632	37	153	Yes
09:15 - 10:15	239	+	364	=	603	16	159	Yes
12:45 - 13:45	209	+	391	=	600	34	165	Yes
11:30 - 12:30	234	+	400	=	634	39	132	No
10:15 - 11:15	246	+	351	=	597	29	135	No
09:00 - 10:00	252	+	339	=	591	17	166	No
06:30 - 07:30	325	+	262	=	587	38	204	No
08:45 - 09:45	244	+	343	=	587	19	181	No
11:15 - 12:15	219	+	368	=	587	39	131	No
17:45 - 18:45	213	+	367	=	580	31	120	No
11:00 - 12:00	228	+	348	=	576	34	127	No
18:00 - 19:00	241	+	327	=	568	26	114	No
10:30 - 11:30	229	+	333	=	562	30	127	No
18:15 - 19:15	225	+	332	=	557	24	98	No
10:45 - 11:45	219	+	331	=	550	31	124	No
18:30 - 19:30	222	+	312	=	534	28	96	No
06:15 - 07:15	300	+	226	=	526	28	185	No
18:45 - 19:45	180	+	331	=	511	25	78	No
19:00 - 20:00	137		305		442	28	70	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 10/03/2024

Warrant 1B - Interruption of Continuous Traffic

Description

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

Summary

Only 2 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 = **900**

Veh/Hr Minor = **75**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	260	+	716	=	976	44	166	Yes
14:45 - 15:45	305	+	609	=	914	35	179	Yes
16:45 - 17:45	249	+	618	=	867	40	150	No
14:30 - 15:30	292	+	552	=	844	32	166	No
07:30 - 08:30	445	+	380	=	825	30	249	No
07:15 - 08:15	425	+	384	=	809	34	258	No
14:15 - 15:15	268	+	533	=	801	28	172	No
17:00 - 18:00	230	+	570	=	800	37	147	No
07:00 - 08:00	388	+	366	=	754	42	247	No
13:45 - 14:45	239	+	510	=	749	29	158	No
14:00 - 15:00	244	+	499	=	743	30	160	No
07:45 - 08:45	381	+	327	=	708	30	211	No
06:45 - 07:45	373	+	328	=	701	40	240	No
13:30 - 14:30	239	+	460	=	699	32	153	No
17:15 - 18:15	223	+	462	=	685	32	141	No
13:15 - 14:15	232	+	452	=	684	38	141	No
13:00 - 14:00	225	+	424	=	649	34	157	No
08:00 - 09:00	316	+	331	=	647	28	197	No
09:45 - 10:45	261	+	379	=	640	26	146	No
11:30 - 12:30	234	+	400	=	634	39	132	No
11:45 - 12:45	222	+	410	=	632	37	153	No
10:00 - 11:00	251	+	371	=	622	27	143	No
09:30 - 10:30	239	+	383	=	622	18	153	No
12:15 - 13:15	211	+	410	=	621	30	168	No
12:00 - 13:00	198		417		615	34	160	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 10/03/2024

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

12 hours meet 1A minimums.
Only 5 hours meet 1B 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

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

Veh/Hr Minor = **120 60**

Time	Major Road				Total	Minor Road		Met1A?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:15 - 17:15	268	+	717	=	985	46	141	Yes
15:15 - 16:15	275	+	675	=	950	41	189	Yes
07:15 - 08:15	425	+	384	=	809	34	258	Yes
14:15 - 15:15	268	+	533	=	801	28	172	Yes
17:15 - 18:15	223	+	462	=	685	32	141	Yes
13:15 - 14:15	232	+	452	=	684	38	141	Yes
12:15 - 13:15	211	+	410	=	621	30	168	Yes
09:15 - 10:15	239	+	364	=	603	16	159	Yes
10:15 - 11:15	246	+	351	=	597	29	135	Yes
08:15 - 09:15	274	+	320	=	594	29	193	Yes
11:15 - 12:15	219	+	368	=	587	39	131	Yes
06:15 - 07:15	300		226		526	28	185	Yes

Time	Major Road				Total	Minor Road		Met1B?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	260	+	716	=	976	44	166	Yes
14:45 - 15:45	305	+	609	=	914	35	179	Yes
16:45 - 17:45	249	+	618	=	867	40	150	Yes
07:00 - 08:00	388	+	366	=	754	42	247	Yes
13:45 - 14:45	239	+	510	=	749	29	158	Yes
06:45 - 07:45	373	+	328	=	701	40	240	No
13:30 - 14:30	239	+	460	=	699	32	153	No
13:15 - 14:15	232	+	452	=	684	38	141	No
13:00 - 14:00	225	+	424	=	649	34	157	No
08:00 - 09:00	316	+	331	=	647	28	197	No
09:45 - 10:45	261	+	379	=	640	26	146	No
11:30 - 12:30	234		400		634	39	132	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 10/03/2024

Warrant 2 - Four Hour Volumes

Description

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

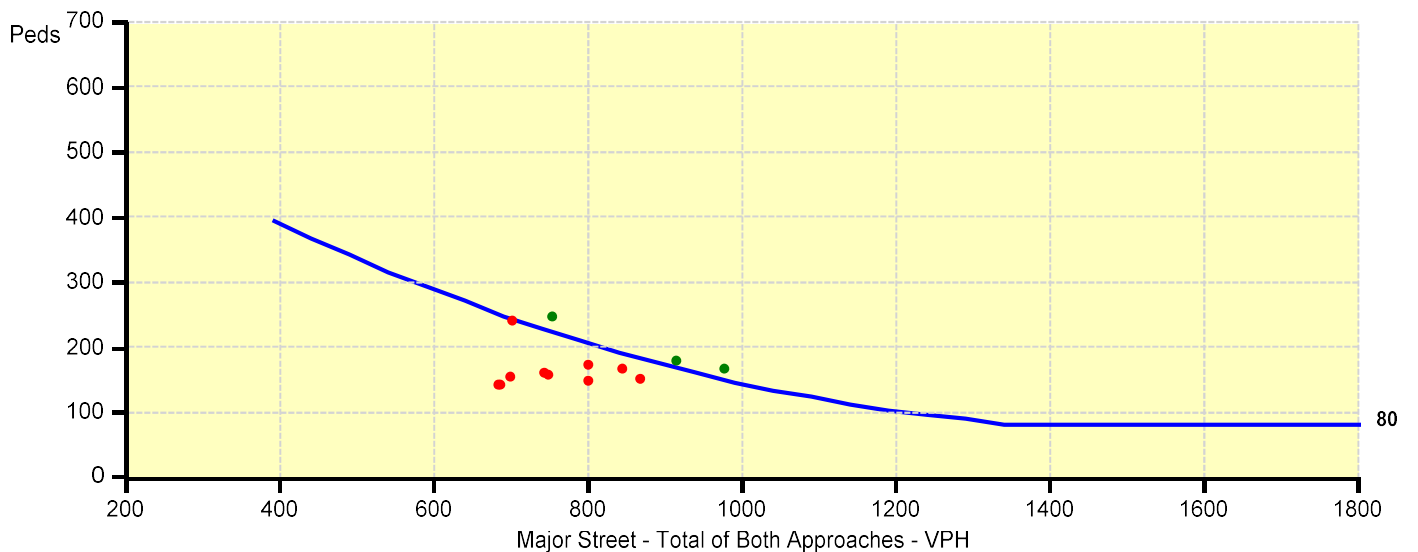
Summary

Only 3 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**

Time	Major Road CSAH 1				Total	Minor Road 7th Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	260	+	716	=	976	44	166	Yes
14:45 - 15:45	305	+	609	=	914	35	179	Yes
07:00 - 08:00	388	+	366	=	754	42	247	Yes
16:45 - 17:45	249	+	618	=	867	40	150	No
14:30 - 15:30	292	+	552	=	844	32	166	No
14:15 - 15:15	268	+	533	=	801	28	172	No
17:00 - 18:00	230	+	570	=	800	37	147	No
13:45 - 14:45	239	+	510	=	749	29	158	No
14:00 - 15:00	244	+	499	=	743	30	160	No
06:45 - 07:45	373	+	328	=	701	40	240	No
13:30 - 14:30	239	+	460	=	699	32	153	No
17:15 - 18:15	223	+	462	=	685	32	141	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 10/03/2024

Warrant 3B - Peak Hour Volumes

Description

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

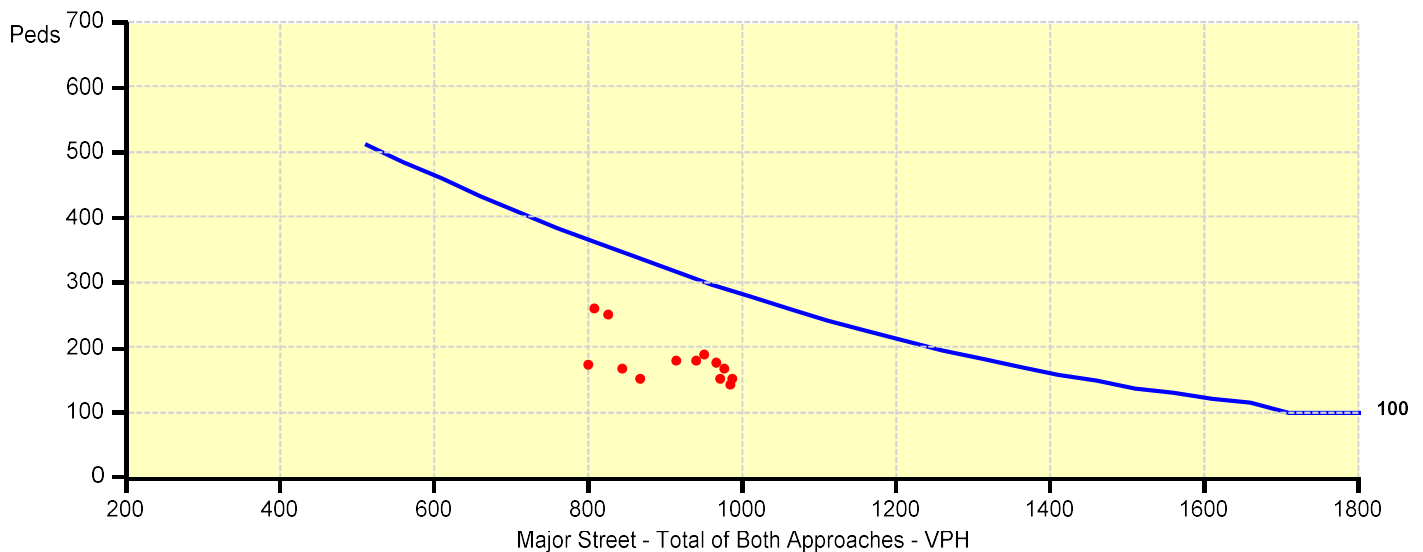
Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

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

Time	Major Road CSAH 1				Total	Minor Road 7th Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:00 - 17:00	266	+	720	=	986	43	151	No
16:15 - 17:15	268	+	717	=	985	46	141	No
15:45 - 16:45	260	+	716	=	976	44	166	No
16:30 - 17:30	259	+	712	=	971	41	152	No
15:30 - 16:30	259	+	708	=	967	44	177	No
15:15 - 16:15	275	+	675	=	950	41	189	No
15:00 - 16:00	302	+	637	=	939	41	180	No
14:45 - 15:45	305	+	609	=	914	35	179	No
16:45 - 17:45	249	+	618	=	867	40	150	No
14:30 - 15:30	292	+	552	=	844	32	166	No
07:30 - 08:30	445	+	380	=	825	30	249	No
07:15 - 08:15	425	+	384	=	809	34	258	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2481

Study Date : 10/03/2024

Multiway Stop Warrants - Summary

Major Street Approaches

Eastbound: CSAH 1
 Number of Lanes : 2+
 Total Approach Volume: 3,927

Westbound: CSAH 1
 Number of Lanes :2+
 Total Approach Volume: 6,482

Minor Street Approaches

Northbound: 7th Ave
 Number of Lanes :1
 Total Approach Volume: 484

Southbound: 7th Ave
 Number of Lanes :1
 Total Approach Volume: 2,444

Warrant Summary (Urban Values Apply)

Criteria A - Interim Measure	Not Evaluated
If traffic signals are justified, stop signs can be installed as an interim measure.	
Criteria B - Crash Experience	Not Satisfied
Number of crashes (-1) is less than minimum required (5).	
Criteria C - Minimum Volumes and Delays	Satisfied
Average of 8 highest hours meets or exceeds volume criteria.	
Criteria D - 80% of Volumes, Delays, and Crashes	Not Satisfied
Number of crashes (-1) is less than minimum required (4). Average of 8 highest hours meets or exceeds volume criteria.	

Criteria C Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:30 - 16:30	967	770.6	232	216.9	300	200	Yes
16:30 - 17:30	971		206				
07:30 - 08:30	825		289				
14:30 - 15:30	844		200				
13:30 - 14:30	699		187				
06:30 - 07:30	587		242				
11:45 - 12:45	632		200				
09:45 - 10:45	640		179				
08:30 - 09:30	573		219				
17:30 - 18:30	608		160				
10:45 - 11:45	550		175				
18:30 - 19:30	534		126				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:30 - 16:30	967	770.6	232	216.9	240	160	Yes
16:30 - 17:30	971		206				
07:30 - 08:30	825		289				
14:30 - 15:30	844		200				
13:30 - 14:30	699		187				
06:30 - 07:30	587		242				
11:45 - 12:45	632		200				
09:45 - 10:45	640		179				
08:30 - 09:30	573		219				
17:30 - 18:30	608		160				
10:45 - 11:45	550		175				
18:30 - 19:30	534		126				