

Date: 07/09/24

Count Number: TMC 2426

Location: CSAH 7  
@ WB US 10

Collection Period: 24 HR

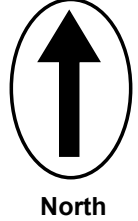
23382

#2

CSAH 7

11748			
2843	8904	0	1
E	F	G	H

11634



North

T.H. 10

I	4615	6359
J	35	
K	1709	
L	0	

#3

6359

4206

#1

4206

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

CSAH 7

10623

P	O	N	M
10	1328	7018	0
8356			

#4

18979

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

Date: 07/09/24

Count Number: TMC 2426

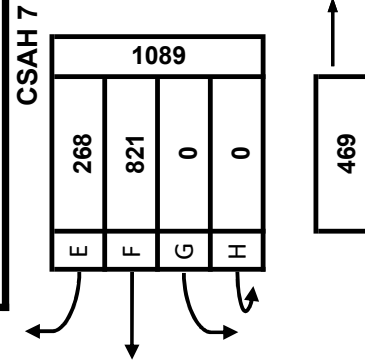
Location: CSAH 7  
@ WB US 10

Collection Period: 24 HR

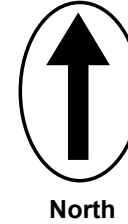
Peak Hour: 6:45 - 7:45 AM

1558

#2



469



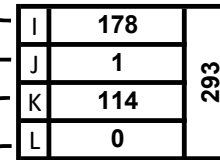
North

338

#1

338

T.H. 10



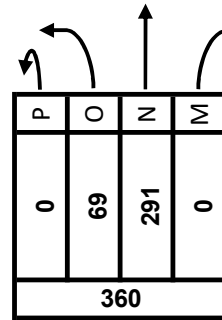
#3

293

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

CSAH 7

935



#4

1295

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

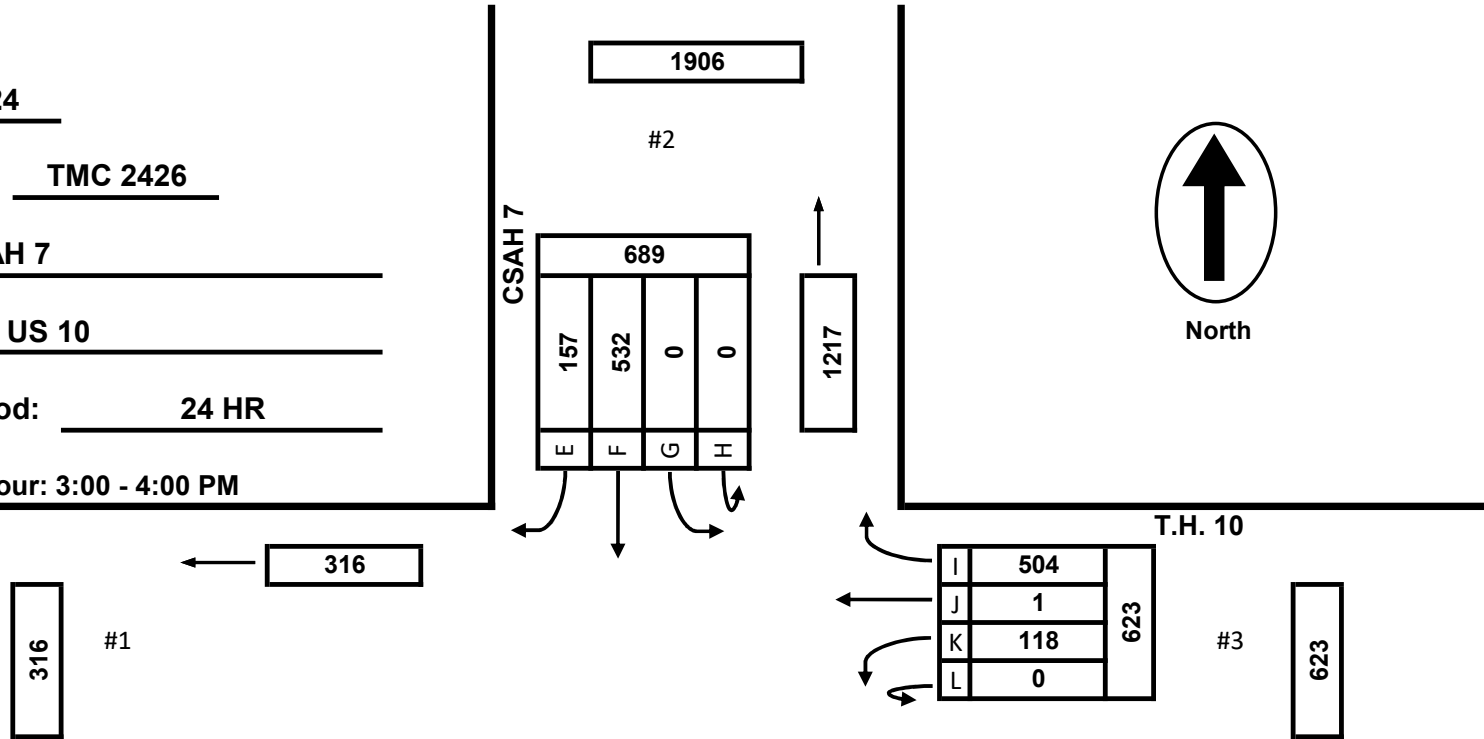
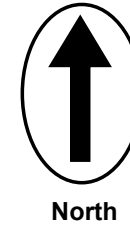
Date: 07/09/24

Count Number: TMC 2426

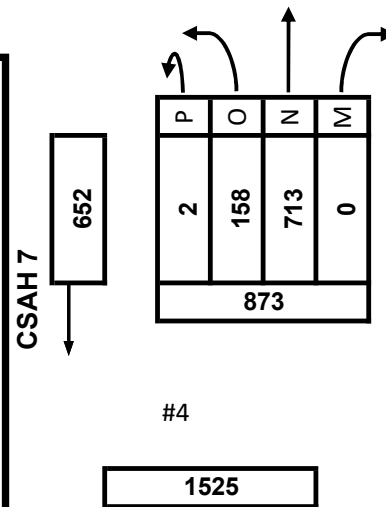
Location: CSAH 7  
@ WB US 10

Collection Period: 24 HR

Peak Hour: 3:00 - 4:00 PM



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



**Anoka County  
Highway Department**  
**Traffic Volume and Turning  
Movement Study**

**TMC 2426 - CSAH 7 @ WB US 10**  
**Anoka MN**  
**Tuesday, July 9, 2024**

Time	Southbound CSAH 7						Westbound T.H. 10						Northbound CSAH 7						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	14	4	0	18	0	5	0	11	0	16	0	2	14	0	0	16	0	0	0	0	0	0	50
12:15 AM	0	0	8	5	0	13	0	5	0	11	0	16	0	1	11	0	0	12	0	0	0	0	0	0	41
12:30 AM	0	0	10	3	0	13	0	7	0	9	0	16	0	1	10	0	0	11	0	0	0	0	1	0	40
12:45 AM	0	0	4	2	0	6	0	1	0	6	0	7	0	0	5	0	0	5	0	0	0	0	1	0	18
Hourly Total	0	0	36	14	0	50	0	18	0	37	0	55	0	4	40	0	0	44	0	0	0	0	2	0	149
1:00 AM	0	0	8	0	0	8	0	1	0	10	0	11	0	2	13	0	0	15	0	0	0	0	0	0	34
1:15 AM	0	0	7	1	0	8	0	2	0	2	0	4	0	0	11	0	0	11	0	0	0	0	0	0	23
1:30 AM	0	0	5	0	0	5	0	4	0	5	0	9	0	2	2	0	0	4	0	0	0	0	0	0	18
1:45 AM	0	0	8	6	0	14	0	2	0	5	0	7	0	1	4	0	0	5	0	0	0	0	0	0	26
Hourly Total	0	0	28	7	0	35	0	9	0	22	0	31	0	5	30	0	0	35	0	0	0	0	0	0	101
2:00 AM	0	0	5	3	0	8	0	4	0	4	0	8	0	1	4	0	0	5	0	0	0	0	0	0	21
2:15 AM	0	0	5	1	0	6	0	1	0	8	0	9	0	1	4	0	0	5	0	0	0	0	0	0	20
2:30 AM	0	0	6	3	0	9	0	1	0	4	0	5	0	1	3	0	0	4	0	0	0	0	1	0	18
2:45 AM	0	0	8	4	0	12	0	3	0	6	0	9	0	0	9	0	0	9	0	0	0	0	0	0	30
Hourly Total	0	0	24	11	0	35	0	9	0	22	0	31	0	3	20	0	0	23	0	0	0	0	1	0	89
3:00 AM	0	0	16	1	0	17	0	2	0	4	0	6	0	0	4	0	0	4	0	0	0	0	0	0	27
3:15 AM	0	0	13	5	0	18	0	2	0	4	0	6	0	1	10	0	0	11	0	0	0	0	1	0	35
3:30 AM	0	0	18	4	0	22	0	0	0	1	0	1	0	2	6	0	0	8	0	0	0	0	0	0	31
3:45 AM	0	0	25	3	0	28	0	0	0	4	0	4	0	0	3	0	0	3	0	0	0	0	0	0	35
Hourly Total	0	0	72	13	0	85	0	4	0	13	0	17	0	3	23	0	0	26	0	0	0	0	1	0	128
4:00 AM	0	0	26	8	0	34	0	1	0	4	0	5	0	3	5	0	0	8	0	0	0	0	0	0	47
4:15 AM	0	0	43	19	0	62	0	1	1	3	0	5	0	1	6	0	0	7	0	0	0	0	0	0	74
4:30 AM	0	0	53	23	0	76	0	1	0	5	0	6	0	3	13	0	0	16	0	0	0	0	0	0	98
4:45 AM	0	0	45	21	0	66	0	3	0	4	0	7	0	3	5	0	0	8	0	0	0	0	0	0	81
Hourly Total	0	0	167	71	0	238	0	6	1	16	0	23	0	10	29	0	0	39	0	0	0	0	0	0	300
5:00 AM	0	0	59	23	0	82	0	5	1	5	0	11	0	2	6	0	0	8	0	0	0	0	1	0	101
5:15 AM	0	0	124	44	0	168	0	13	0	6	0	19	0	5	18	0	0	23	0	0	0	0	0	0	210
5:30 AM	0	0	157	53	0	210	0	22	2	24	0	48	0	4	31	0	0	35	0	0	0	0	0	0	293
5:45 AM	0	0	131	50	0	181	0	14	1	31	1	46	0	12	37	0	0	49	0	0	0	0	0	0	276
Hourly Total	0	0	471	170	0	641	0	54	4	66	1	124	0	23	92	0	0	115	0	0	0	0	1	0	880
6:00 AM	0	0	151	63	0	214	0	15	0	34	0	49	0	19	43	0	0	62	0	0	0	0	0	0	325
6:15 AM	0	0	199	69	0	268	0	16	0	39	0	55	0	13	44	0	0	57	0	0	0	0	0	0	380
6:30 AM	0	0	231	73	0	304	0	25	0	30	1	55	0	9	46	0	0	55	0	0	0	0	0	0	414
6:45 AM	0	0	242	74	0	316	0	23	1	41	1	65	0	16	80	0	0	96	0	0	0	0	1	0	477
Hourly Total	0	0	823	279	0	1102	0	79	1	144	2	224	0	57	213	0	0	270	0	0	0	0	1	0	1596
7:00 AM	0	0	175	66	0	241	0	27	0	47	1	74	0	12	75	0	0	87	0	0	0	0	1	0	402
7:15 AM	0	0	210	60	0	270	0	31	0	37	0	68	0	22	74	0	0	96	0	0	0	0	0	0	434
7:30 AM	0	0	194	68	0	262	0	33	0	53	0	86	0	19	62	0	0	81	0	0	0	0	0	0	429
7:45 AM	0	0	203	55	0	258	0	64	1	67	0	132	0	21	64	0	0	85	0	0	0	0	1	0	475
Hourly Total	0	0	782	249	0	1031	0	155	1	204	1	360	0	74	275	0	0	349	0	0	0	0	2	0	1740

**TMC 2426 - CSAH 7 @ WB US 10**  
**Anoka MN**  
**Tuesday, July 9, 2024**

Time	Southbound CSAH 7						Westbound T.H. 10						Northbound CSAH 7						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	0	167	63	0	230	0	36	1	43	0	80	0	15	68	0	0	83	0	0	0	0	1	0	393
8:15 AM	0	0	150	44	0	194	0	38	0	59	0	97	0	16	75	0	0	91	0	0	0	0	1	0	382
8:30 AM	0	0	143	35	0	178	0	31	1	50	0	82	0	11	66	0	0	77	0	0	0	0	1	0	337
8:45 AM	0	0	140	44	0	184	0	30	0	56	0	86	0	9	81	0	0	90	0	0	0	0	0	0	360
Hourly Total	0	0	600	186	0	786	0	135	2	208	0	345	0	51	290	0	0	341	0	0	0	0	3	0	1472
9:00 AM	0	0	129	38	0	167	0	22	0	42	0	64	0	19	76	0	0	95	0	0	0	0	0	0	326
9:15 AM	0	0	119	35	0	154	0	9	1	49	2	59	0	13	73	0	0	86	0	0	0	0	0	0	299
9:30 AM	0	0	117	46	0	163	0	23	2	43	3	68	0	10	86	0	0	96	0	0	0	0	0	0	327
9:45 AM	0	0	124	37	0	161	0	26	0	40	3	66	0	13	87	0	0	100	0	0	0	0	0	0	327
Hourly Total	0	0	489	156	0	645	0	80	3	174	8	257	0	55	322	0	0	377	0	0	0	0	0	0	1279
10:00 AM	0	0	99	39	0	138	0	25	0	31	0	56	0	9	82	0	0	91	0	0	0	0	0	0	285
10:15 AM	0	0	117	26	0	143	0	13	0	50	0	63	0	17	68	0	0	85	0	0	0	0	0	0	291
10:30 AM	0	0	114	40	0	154	0	19	1	41	0	61	0	17	96	0	0	113	0	0	0	0	0	0	328
10:45 AM	0	0	138	33	0	171	0	28	0	46	0	74	0	20	86	0	0	106	0	0	0	0	1	0	351
Hourly Total	0	0	468	138	0	606	0	85	1	168	0	254	0	63	332	0	0	395	0	0	0	0	1	0	1255
11:00 AM	0	0	121	25	0	146	0	30	1	37	1	68	0	19	90	0	0	109	0	0	0	0	2	0	323
11:15 AM	0	0	137	36	0	173	0	28	0	47	4	75	0	20	96	0	0	116	0	0	0	0	0	0	364
11:30 AM	0	0	118	40	0	158	0	25	4	45	3	74	0	15	100	0	0	115	0	0	0	0	0	0	347
11:45 AM	0	0	141	35	0	176	0	27	0	45	1	72	0	15	103	0	0	118	0	0	0	0	0	0	366
Hourly Total	0	0	517	136	0	653	0	110	5	174	9	289	0	69	389	0	0	458	0	0	0	0	2	0	1400
12:00 PM	0	0	124	40	0	164	0	36	0	57	0	93	0	21	101	0	0	122	0	0	0	0	0	0	379
12:15 PM	0	0	111	30	0	141	0	29	0	63	0	92	0	21	104	0	0	125	0	0	0	0	2	0	358
12:30 PM	0	0	103	37	0	140	0	22	1	65	1	88	0	21	93	0	0	114	0	0	0	0	0	0	342
12:45 PM	0	0	125	27	0	152	0	26	0	64	0	90	0	17	98	0	0	115	0	0	0	0	0	0	357
Hourly Total	0	0	463	134	0	597	0	113	1	249	1	363	0	80	396	0	0	476	0	0	0	0	2	0	1436
1:00 PM	0	0	113	30	0	143	0	34	0	60	0	94	0	15	110	0	0	125	0	0	0	0	0	0	362
1:15 PM	0	0	117	40	0	157	0	18	0	69	2	87	1	21	104	0	0	126	0	0	0	0	1	0	370
1:30 PM	0	0	116	33	0	149	0	26	1	76	0	103	0	18	94	0	0	112	0	0	0	0	0	0	364
1:45 PM	0	0	116	39	0	155	0	22	0	68	3	90	0	16	143	0	0	159	0	0	0	0	0	0	404
Hourly Total	0	0	462	142	0	604	0	100	1	273	5	374	1	70	451	0	0	522	0	0	0	0	1	0	1500
2:00 PM	0	0	120	33	0	153	0	20	0	59	1	79	2	29	139	0	0	170	0	0	0	0	1	0	402
2:15 PM	0	0	118	40	0	158	0	36	0	102	1	138	0	15	96	0	0	111	0	0	0	0	1	0	407
2:30 PM	0	0	145	34	0	179	0	28	0	105	0	133	1	24	144	0	0	169	0	0	0	0	0	0	481
2:45 PM	0	0	131	33	0	164	0	20	1	122	0	143	0	22	132	0	0	154	0	0	0	0	0	0	461
Hourly Total	0	0	514	140	0	654	0	104	1	388	2	493	3	90	511	0	0	604	0	0	0	0	2	0	1751
3:00 PM	0	0	145	30	0	175	0	26	0	122	0	148	1	44	196	0	0	241	0	0	0	0	0	0	564
3:15 PM	0	0	122	35	0	157	0	28	0	128	0	156	0	42	164	0	0	206	0	0	0	0	0	0	519
3:30 PM	0	0	123	58	0	181	0	37	0	135	0	172	0	36	158	0	0	194	0	0	0	0	1	0	547
3:45 PM	0	0	142	34	0	176	0	27	1	119	0	147	1	36	195	0	0	232	0	0	0	0	0	0	555
Hourly Total	0	0	532	157	0	689	0	118	1	504	0	623	2	158	713	0	0	873	0	0	0	0	1	0	2185

**TMC 2426 - CSAH 7 @ WB US 10**  
**Anoka MN**  
**Tuesday, July 9, 2024**

Time	Southbound CSAH 7						Westbound T.H. 10						Northbound CSAH 7						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	
4:00 PM	0	0	135	56	0	191	0	24	1	114	0	139	0	42	170	0	0	212	0	0	0	0	0	0	542
4:15 PM	0	0	114	45	0	159	0	16	0	110	0	126	0	32	174	0	0	206	0	0	0	0	0	0	491
4:30 PM	0	0	145	39	0	184	0	27	0	120	2	147	0	32	203	0	0	235	0	0	0	0	1	0	566
4:45 PM	0	0	132	51	0	183	0	19	0	102	1	121	0	36	180	0	0	216	0	0	0	0	2	0	520
Hourly Total	0	0	526	191	0	717	0	86	1	446	3	533	0	142	727	0	0	869	0	0	0	0	3	0	2119
5:00 PM	0	0	148	54	0	202	0	19	2	126	0	147	0	35	161	0	0	196	0	0	0	0	0	0	545
5:15 PM	0	0	134	35	0	169	0	31	3	120	0	154	0	22	173	0	0	195	0	0	0	0	0	0	518
5:30 PM	0	0	131	49	0	180	0	32	0	131	2	163	0	22	146	0	0	168	0	0	0	0	0	0	511
5:45 PM	0	0	112	35	0	147	0	39	2	132	0	173	0	32	135	0	0	167	0	0	0	0	2	0	487
Hourly Total	0	0	525	173	0	698	0	121	7	509	2	637	0	111	615	0	0	726	0	0	0	0	2	0	2081
6:00 PM	0	0	91	32	0	123	0	25	1	112	2	138	0	22	144	0	0	166	0	0	0	0	1	0	427
6:15 PM	0	0	136	48	0	184	0	30	0	91	0	121	1	23	126	0	0	150	0	0	0	0	2	0	455
6:30 PM	0	0	116	29	0	145	0	27	0	72	1	99	0	12	112	0	0	124	0	0	0	0	3	0	368
6:45 PM	0	0	70	35	0	105	0	29	0	72	0	101	0	7	88	0	0	95	0	0	0	0	1	0	301
Hourly Total	0	0	413	144	0	557	0	111	1	347	3	459	1	64	470	0	0	535	0	0	0	0	7	0	1551
7:00 PM	0	0	76	26	0	102	0	18	0	53	0	71	0	30	99	0	0	129	0	0	0	0	1	0	302
7:15 PM	0	0	84	15	1	99	0	15	0	44	4	59	0	29	89	0	0	118	0	0	0	0	3	0	276
7:30 PM	0	0	66	26	0	92	0	15	0	50	0	65	0	22	89	0	0	111	0	0	0	0	1	0	268
7:45 PM	0	0	85	20	0	105	0	15	0	37	3	52	0	13	66	0	0	79	0	0	0	0	0	0	236
Hourly Total	0	0	311	87	1	398	0	63	0	184	7	247	0	94	343	0	0	437	0	0	0	0	5	0	1082
8:00 PM	0	0	87	22	0	109	0	18	1	38	0	57	1	13	86	0	0	100	0	0	0	0	1	0	266
8:15 PM	0	0	67	20	0	87	0	12	1	41	1	54	0	11	74	0	0	85	0	0	0	0	0	0	226
8:30 PM	0	0	47	20	0	67	0	8	0	49	0	57	0	4	54	0	0	58	0	0	0	0	1	0	182
8:45 PM	0	0	37	16	0	53	0	12	0	47	0	59	0	9	64	0	0	73	0	0	0	0	0	0	185
Hourly Total	0	0	238	78	0	316	0	50	2	175	1	227	1	37	278	0	0	316	0	0	0	0	2	0	859
9:00 PM	0	0	41	16	0	57	0	24	0	32	0	56	1	5	56	0	0	62	0	0	0	0	0	0	175
9:15 PM	0	0	65	20	0	85	0	10	0	35	0	45	0	6	66	0	0	72	0	0	0	0	0	0	202
9:30 PM	0	0	47	19	0	66	0	10	0	26	0	36	0	4	50	0	0	54	0	0	0	0	0	0	156
9:45 PM	0	0	43	20	0	63	0	8	1	29	0	38	0	4	48	0	0	52	0	0	0	0	0	0	153
Hourly Total	0	0	196	75	0	271	0	52	1	122	0	175	1	19	220	0	0	240	0	0	0	0	0	0	686
10:00 PM	0	0	43	16	0	59	0	10	1	32	0	43	0	4	41	0	0	45	0	0	0	0	0	0	147
10:15 PM	0	0	40	13	0	53	0	8	0	29	0	37	0	2	45	0	0	47	0	0	0	0	0	0	137
10:30 PM	0	0	23	10	0	33	0	4	0	28	0	32	0	3	37	0	0	40	0	0	0	0	0	0	105
10:45 PM	0	0	39	8	0	47	0	6	0	30	0	36	0	2	26	0	0	28	0	0	0	0	0	0	111
Hourly Total	0	0	145	47	0	192	0	28	1	119	0	148	0	11	149	0	0	160	0	0	0	0	0	0	500
11:00 PM	1	0	28	10	0	39	0	9	0	15	0	24	0	12	34	0	0	46	0	0	0	0	0	0	109
11:15 PM	0	0	27	11	0	38	0	4	0	14	0	18	1	4	22	0	0	27	0	0	0	0	0	0	83
11:30 PM	0	0	28	17	0	45	0	3	0	12	0	15	0	13	16	0	0	29	0	0	0	0	0	0	89
11:45 PM	0	0	19	7	0	26	0	3	0	10	0	13	0	6	18	0	0	24	0	0	0	0	0	0	63
Hourly Total	1	0	102	45	0	148	0	19	0	51	0	70	1	35	90	0	0	126	0	0	0	0	0	0	344
<b>DAILY TOTAL</b>	<b>1</b>	<b>0</b>	<b>8904</b>	<b>2843</b>	<b>1</b>	<b>11748</b>	<b>0</b>	<b>1709</b>	<b>35</b>	<b>4615</b>	<b>45</b>	<b>6359</b>	<b>10</b>	<b>1328</b>	<b>7018</b>	<b>0</b>	<b>0</b>	<b>8356</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>39</b>	<b>0</b>	<b>26463</b>
<b>Cars</b>	<b>1</b>	<b>0</b>	<b>8729</b>	<b>2761</b>	<b>0</b>	<b>11491</b>	<b>0</b>	<b>1680</b>	<b>35</b>	<b>4488</b>	<b>18</b>	<b>6203</b>	<b>10</b>	<b>1299</b>	<b>6997</b>	<b>0</b>	<b>0</b>	<b>8206</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>25900</b>
<b>Heavy Vehicles</b>	<b>0</b>	<b>0</b>	<b>175</b>	<b>82</b>	<b>1</b>	<b>257</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>127</b>	<b>27</b>	<b>156</b>	<b>0</b>	<b>29</b>	<b>121</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>563</b>
<b>Heavy Vehicle %</b>	<b>0.00%</b>	<b>0.00%</b>	<b>1.97%</b>	<b>2.88%</b>	<b>100.00%</b>	<b>2.19%</b>	<b>0.00%</b>	<b>1.70%</b>	<b>0.00%</b>	<b>2.75%</b>	<b>60.00%</b>	<b>2.45%</b>	<b>0.00%</b>	<b>2.18%</b>	<b>1.72%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>1.80%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>48.72%</b>	<b>0.00%</b>	<b>2.13%</b>

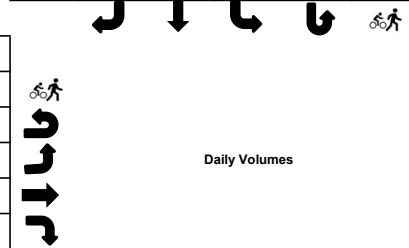
**TMC 2426 - CSAH 7 @ WB US 10**  
**Anoka MN**  
**Tuesday, July 9, 2024**  
**AM Peak Hour**

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	
6:45 AM	0	0	242	74	0	316	0	23	1	41	1	65	0	16	80	0	0	96	0	0	0	0	1	0	477
7:00 AM	0	0	175	66	0	241	0	27	0	47	1	74	0	12	75	0	0	87	0	0	0	0	1	0	402
7:15 AM	0	0	210	60	0	270	0	31	0	37	0	68	0	22	74	0	0	96	0	0	0	0	0	0	434
7:30 AM	0	0	194	68	0	262	0	33	0	53	0	86	0	19	62	0	0	81	0	0	0	0	0	0	429
Peak Hour Total PHF	0.000	0.000	0.848	0.905	0.000	0.862	0.000	0.864	0.250	0.840	0.500	0.852	0.000	0.784	0.909	0.000	0.000	0.938	0.000	0.000	0.000	0.000	0.500	0.000	1742

**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	
3:00 PM	0	0	145	30	0	175	0	26	0	122	0	148	1	44	196	0	0	241	0	0	0	0	0	0	564
3:15 PM	0	0	122	35	0	157	0	28	0	128	0	156	0	42	164	0	0	206	0	0	0	0	0	0	519
3:30 PM	0	0	123	58	0	181	0	37	0	135	0	172	0	36	158	0	0	194	0	0	0	0	1	0	547
3:45 PM	0	0	142	34	0	176	0	27	1	119	0	147	1	36	195	0	0	232	0	0	0	0	0	0	555
Peak Hour Total PHF	0.000	0.000	0.917	0.677	0.000	0.952	0.000	0.797	0.250	0.933	0.000	0.906	0.500	0.898	0.909	0.000	0.000	0.906	0.000	0.000	0.000	0.000	0.250	0.000	2185

Total Vehicles On Leg		23382	
Vehicles Entering Intersection	11748	Vehicles Exiting Intersection	11634
<b>Southbound</b>			
Cars	2761	8729	0
Heavy	82	175	0
<b>Total</b>	<b>2843</b>	<b>8904</b>	<b>1</b>



Total Vehicles on Leg 4206	Vehicles Entering Intersection 0	Eastbound	Cars	Heavy	Total
			20	19	39
			0	0	0
			0	0	0
			0	0	0
Total Vehicles on Leg 4206	Vehicles Exiting Intersection 4206	Eastbound	Cars	Heavy	Total
			20	19	39
			0	0	0
			0	0	0
			0	0	0

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 6359	Total Vehicles on Leg 6359
4488	127	4615			
35	0	35			
1680	29	1709			
0	0	0			
18	27	45	Westbound	Vehicles Exiting Intersection 0	Total Vehicles on Leg 6359
4488	127	4615			
35	0	35			
1680	29	1709			
0	0	0			

Cars	0	10	1299	6897	0
Heavy	0	0	29	121	0
<b>Total</b>	<b>0</b>	<b>10</b>	<b>1328</b>	<b>7018</b>	<b>0</b>
<b>Northbound</b>					
Vehicles Entering Intersection	8356		Vehicles Exiting Intersection 10623		
Total Vehicles On Leg		18979			





# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2426

Study Date : 07/16/2024

## Signal Warrants - Summary

### Major Street Approaches

Northbound: CSAH 7

Number of Lanes : 2+

Total Approach Volume: 8,356

Southbound: CSAH 7

Number of Lanes :2+

Total Approach Volume: 11,748

### Minor Street Approaches

Eastbound: T.H. 10

Number of Lanes :1

Total Approach Volume: 0

Westbound: T.H. 10

Number of Lanes :1

Total Approach Volume: 1,744

### Warrant Summary (Urban Values Apply)

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

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

Required volumes reached for 1 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.....Not Satisfied

Required 1A volumes reached for 4 hours, 8 are needed

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

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

Number of hours (9) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (36) 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: TMC 2426

Study Date : 07/16/2024

## 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

Only 1 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				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	<b>CSAH 7</b>					<b>T.H. 10</b>		
07:00 - 08:00	349	+	1031	=	1380	0	156	Yes
15:45 - 16:45	885	+	710	=	1595	0	96	No
16:00 - 17:00	869	+	717	=	1586	0	87	No
16:15 - 17:15	853	+	728	=	1581	0	83	No
16:30 - 17:30	842	+	738	=	1580	0	101	No
15:00 - 16:00	873	+	689	=	1562	0	119	No
15:30 - 16:30	844	+	707	=	1551	0	106	No
15:15 - 16:15	844	+	705	=	1549	0	118	No
16:45 - 17:45	775	+	734	=	1509	0	106	No
14:45 - 15:45	795	+	677	=	1472	0	112	No
06:30 - 07:30	334	+	1131	=	1465	0	107	No
06:45 - 07:45	360	+	1089	=	1449	0	115	No
14:30 - 15:30	770	+	675	=	1445	0	103	No
17:00 - 18:00	726	+	698	=	1424	0	128	No
06:15 - 07:15	295	+	1129	=	1424	0	92	No
06:00 - 07:00	270	+	1102	=	1372	0	80	No
14:15 - 15:15	675	+	676	=	1351	0	111	No
17:15 - 18:15	696	+	619	=	1315	0	133	No
17:30 - 18:30	651	+	634	=	1285	0	129	No
14:00 - 15:00	604	+	654	=	1258	0	105	No
13:45 - 14:45	609	+	645	=	1254	0	106	No
17:45 - 18:45	607	+	599	=	1206	0	124	No
05:45 - 06:45	223	+	967	=	1190	0	71	No
13:15 - 14:15	567	+	614	=	1181	0	87	No
13:30 - 14:30	552		615		1167	0	105	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2426

Study Date : 07/16/2024

## 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

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 EB	Minor Road		Met?
	Major NB	+	Major SB	=			Minor WB		
	<b>CSAH 7</b>						<b>T.H. 10</b>		
16:00 - 17:00	869	+	717	=	1586	0	87		Yes
15:00 - 16:00	873	+	689	=	1562	0	119		Yes
17:00 - 18:00	726	+	698	=	1424	0	128		Yes
07:00 - 08:00	349	+	1031	=	1380	0	156		Yes
06:00 - 07:00	270	+	1102	=	1372	0	80		Yes
14:00 - 15:00	604	+	654	=	1258	0	105		Yes
08:00 - 09:00	341	+	786	=	1127	0	137		Yes
13:00 - 14:00	522	+	604	=	1126	0	101		Yes
11:00 - 12:00	458	+	653	=	1111	0	115		Yes
18:00 - 19:00	535	+	557	=	1092	0	112		Yes
12:00 - 13:00	476	+	597	=	1073	0	114		Yes
09:00 - 10:00	377	+	645	=	1022	0	83		Yes
10:00 - 11:00	395	+	606	=	1001	0	86		Yes
05:45 - 06:45	223	+	967	=	1190	0	71		No
05:30 - 06:30	203	+	873	=	1076	0	70		No
05:15 - 06:15	169	+	773	=	942	0	67		No
19:00 - 20:00	437	+	398	=	835	0	63		No
19:15 - 20:15	408	+	405	=	813	0	64		No
19:30 - 20:30	375	+	393	=	768	0	62		No
05:00 - 06:00	115	+	641	=	756	0	58		No
19:45 - 20:45	322	+	368	=	690	0	55		No
20:00 - 21:00	316	+	316	=	632	0	52		No
04:45 - 05:45	74	+	526	=	600	0	46		No
20:15 - 21:15	278	+	264	=	542	0	57		No
20:30 - 21:30	265		262		527	0	54		No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2426

Study Date : 07/16/2024

## 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

Only 4 hours meet 1A minimums.  
15 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**

#### Major Road CSAH 7

#### Minor Road T.H. 10

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
17:00 - 18:00	726	+	698	=	1424	0	128	Yes
07:00 - 08:00	349	+	1031	=	1380	0	156	Yes
11:15 - 12:15	471	+	671	=	1142	0	120	Yes
08:00 - 09:00	341	+	786	=	1127	0	137	Yes
15:45 - 16:45	885	+	710	=	1595	0	96	No
16:00 - 17:00	869	+	717	=	1586	0	87	No
16:15 - 17:15	853	+	728	=	1581	0	83	No
16:30 - 17:30	842	+	738	=	1580	0	101	No
15:00 - 16:00	873	+	689	=	1562	0	119	No
15:30 - 16:30	844	+	707	=	1551	0	106	No
15:15 - 16:15	844	+	705	=	1549	0	118	No
16:45 - 17:45	775	+	734	=	1509	0	106	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:15 - 17:15	853	+	728	=	1581	0	83	Yes
15:15 - 16:15	844	+	705	=	1549	0	118	Yes
06:15 - 07:15	295	+	1129	=	1424	0	92	Yes
07:15 - 08:15	345	+	1020	=	1365	0	166	Yes
14:15 - 15:15	675	+	676	=	1351	0	111	Yes
17:15 - 18:15	696	+	619	=	1315	0	133	Yes
13:15 - 14:15	567	+	614	=	1181	0	87	Yes
11:15 - 12:15	471	+	671	=	1142	0	120	Yes
08:15 - 09:15	353	+	723	=	1076	0	122	Yes
12:15 - 13:15	479	+	576	=	1055	0	112	Yes
18:15 - 19:15	498	+	536	=	1034	0	104	Yes
10:15 - 11:15	413	+	614	=	1027	0	92	Yes

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2426

Study Date : 07/16/2024

## 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.

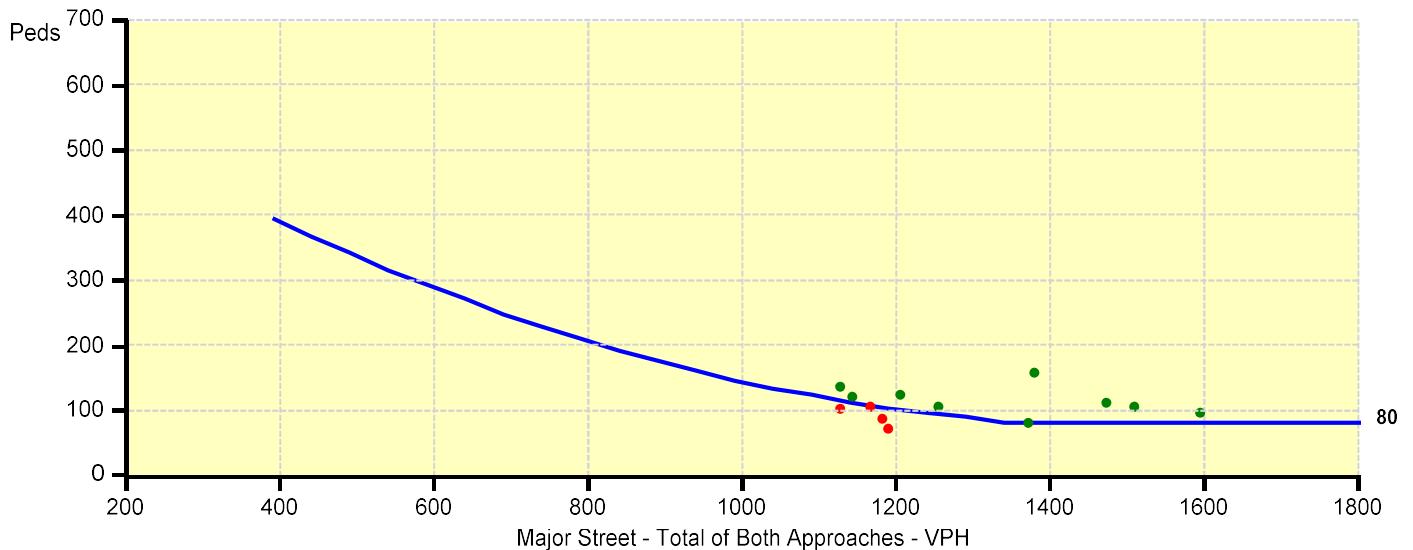
### Summary

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**

Time	Major Road CSAH 7				Total	Minor Road T.H. 10		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	885	+	710	=	1595	0	96	Yes
16:45 - 17:45	775	+	734	=	1509	0	106	Yes
14:45 - 15:45	795	+	677	=	1472	0	112	Yes
07:00 - 08:00	349	+	1031	=	1380	0	156	Yes
06:00 - 07:00	270	+	1102	=	1372	0	80	Yes
13:45 - 14:45	609	+	645	=	1254	0	106	Yes
17:45 - 18:45	607	+	599	=	1206	0	124	Yes
11:15 - 12:15	471	+	671	=	1142	0	120	Yes
08:00 - 09:00	341	+	786	=	1127	0	137	Yes
05:45 - 06:45	223	+	967	=	1190	0	71	No
13:15 - 14:15	567	+	614	=	1181	0	87	No
13:30 - 14:30	552	+	615	=	1167	0	105	No



# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2426

Study Date : 07/16/2024

## 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 7				Total	Minor Road T.H. 10		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	885	+	710	=	1595	0	96	No
16:00 - 17:00	869	+	717	=	1586	0	87	No
16:15 - 17:15	853	+	728	=	1581	0	83	No
16:30 - 17:30	842	+	738	=	1580	0	101	No
15:00 - 16:00	873	+	689	=	1562	0	119	No
15:30 - 16:30	844	+	707	=	1551	0	106	No
15:15 - 16:15	844	+	705	=	1549	0	118	No
16:45 - 17:45	775	+	734	=	1509	0	106	No
14:45 - 15:45	795	+	677	=	1472	0	112	No
06:30 - 07:30	334	+	1131	=	1465	0	107	No
06:45 - 07:45	360	+	1089	=	1449	0	115	No
14:30 - 15:30	770	+	675	=	1445	0	103	No

