

Date : 05/26/09

Count Number : TMC0910

Location : CSAH 7 (7th Ave.)

@ 38th Ave.

Collection Period : 6:00AM - 10:00PM

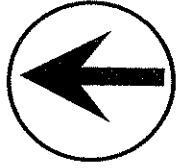
14630

#2

CSAH 7

7149	D	333
6695	E	
121	F	

7481



North

38th Ave.

#1

3294

1751	C	583
	B	386
	A	782

1543

38th Ave.

#3

3511

278	G	
438	H	
1086	J	

1709

1802

CSAH 7

8563

#4

17157

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

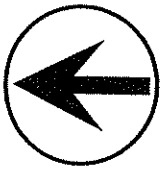
772	M	
6620	L	
1202	K	
8594		

Anoka County Highway Department

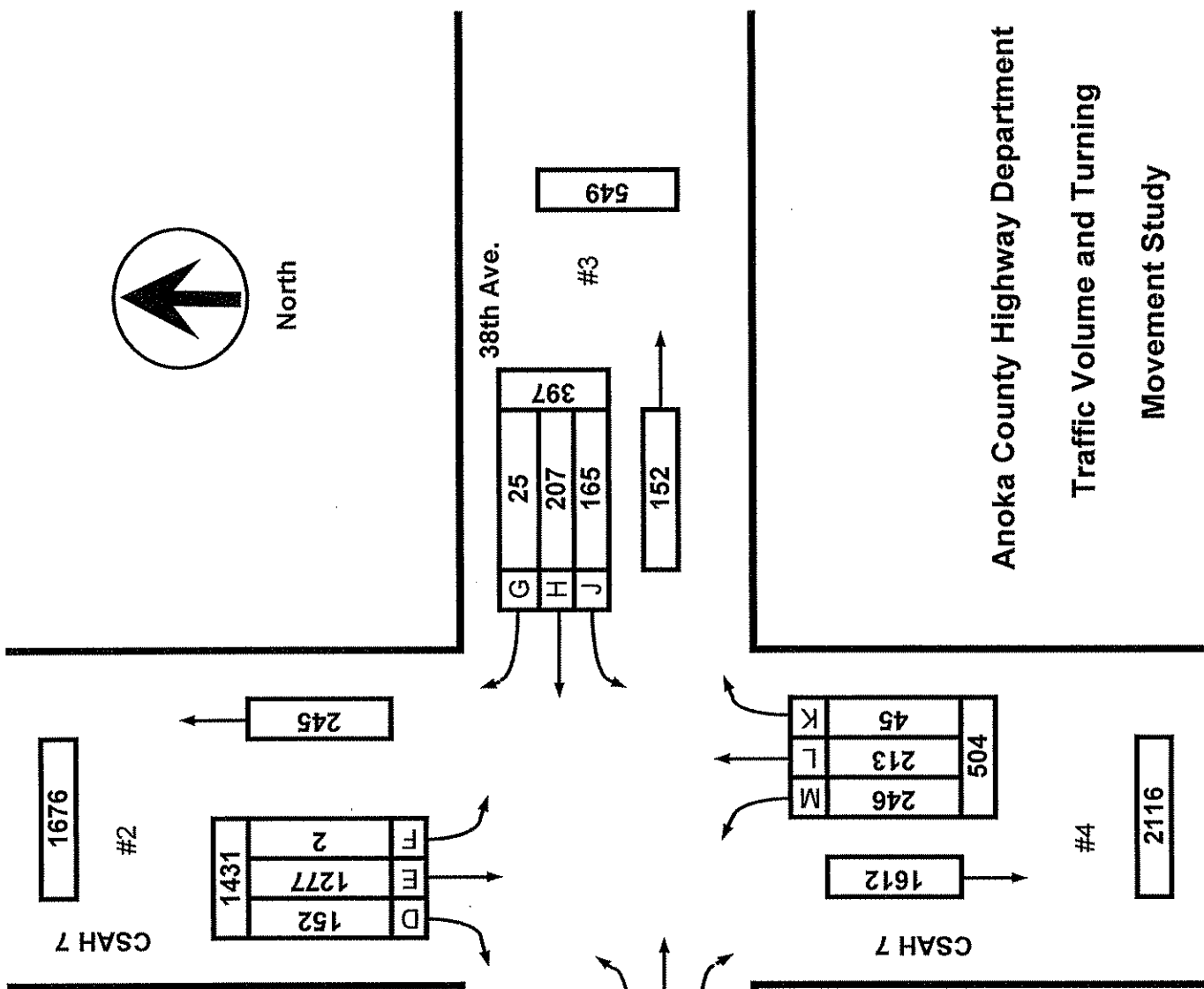
Traffic Volume and Turning

Movement Study

Date : 05/26/09 \_\_\_\_\_  
 Count Number : TMC0910 \_\_\_\_\_  
 Location : CSAH 7 (7th Ave.) \_\_\_\_\_  
                   @ 38th Ave. \_\_\_\_\_  
 Collection Period : AM PEAK \_\_\_\_\_  
 Hour : 6:45 - 7:45AM \_\_\_\_\_



North



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

Anoka County Highway Department  
 Traffic Volume and Turning  
 Movement Study

Date : 05/26/09

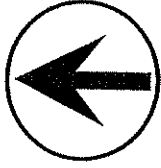
Count Number : TMC0910

Location : CSAH 7 (7th Ave.)

@ 38th Ave.

Collection Period : PM PEAK

Hour : 2:30 - 3:30PM



North

1295

#2

CSAH 7

D	7
F	382
T	10
399	

896

38th Ave.

G	26
H	15
J	84
125	

#3

370

245

96

#1

640

A	234
B	119
C	191
544	

38th Ave.

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

M	74
L	679
K	116
869	

700

CSAH 7

#4

1569

Anoka County Highway Department

Traffic Volume and Turning

Movement Study

# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

File Name : TMC0910

Site Code : 09100202

Start Date : 05/26/2009

Page No : 1

Weather: Sunny and Warm

Counter: DB-400

Counted by: Jake/Laura

#### Groups Printed- Unshifted - Bank 1

Start Time	CSAH 7 Southbound					38th Ave Westbound					CSAH 7 Northbound					38th Ave Eastbound					Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total			
06:00	2	251	0	2	253	29	3	0	1	32	3	11	3	2	17	0	0	0	0	0	5	302	307
06:15	3	268	1	0	272	27	0	2	3	29	3	26	11	13	40	1	0	1	0	2	16	343	359
06:30	2	325	2	2	329	34	8	1	0	43	13	37	8	10	58	2	2	4	0	8	12	438	450
06:45	0	347	6	3	353	50	13	4	3	67	24	33	12	6	69	2	3	5	0	10	12	499	511
Total	7	1191	9	7	1207	140	24	7	7	171	43	107	34	31	184	5	5	10	0	20	45	1582	1627
07:00	2	296	29	3	327	48	41	0	4	89	59	79	14	9	152	2	14	35	2	51	18	619	637
07:15	0	319	54	10	373	28	67	11	5	106	76	46	4	12	126	1	41	48	19	90	46	695	741
07:30	0	315	63	5	378	39	86	10	1	135	87	55	15	4	157	2	47	82	8	131	18	801	819
07:45	1	289	7	16	297	51	8	1	1	60	4	43	12	6	59	5	15	18	3	38	26	454	480
Total	3	1219	153	34	1375	166	202	22	11	390	226	223	45	31	494	10	117	183	32	310	108	2569	2677
08:00	1	206	6	3	213	33	2	4	2	39	11	40	17	6	68	0	0	1	0	1	11	321	332
08:15	6	174	3	1	183	24	3	2	0	29	4	45	10	7	59	1	1	7	0	9	8	280	288
08:30	4	138	0	8	142	22	4	6	3	32	2	47	11	7	60	0	1	0	0	1	18	235	253
08:45	4	115	2	5	121	14	1	4	1	19	7	51	16	2	74	0	0	1	0	1	8	215	223
Total	15	633	11	17	659	93	10	16	6	119	24	183	54	22	261	1	2	9	0	12	45	1051	1096
09:00	0	134	6	7	140	22	4	0	1	26	1	35	9	2	45	3	3	9	0	15	10	226	236
09:15	0	113	1	6	114	27	6	1	1	34	9	42	11	1	62	3	1	1	1	5	9	215	224
09:30	0	107	3	8	110	22	4	3	2	29	3	25	8	2	36	2	1	6	1	9	13	184	197
09:45	1	64	0	1	65	16	2	4	0	22	4	50	9	5	63	0	0	2	0	2	6	152	158
Total	1	418	10	22	429	87	16	8	4	111	17	152	37	10	206	8	5	18	2	31	38	777	815
10:00	1	78	1	4	80	10	0	4	1	14	2	40	9	3	51	0	1	0	0	1	8	146	154
10:15	0	98	1	1	99	12	5	3	5	20	7	43	18	5	68	0	1	0	0	1	11	188	199
10:30	3	107	0	8	110	13	2	3	1	18	5	38	9	2	52	1	3	3	1	7	12	187	199
10:45	3	100	1	5	104	12	2	3	3	17	6	46	18	2	70	4	3	5	1	12	11	203	214
Total	7	383	3	18	393	47	9	13	10	69	20	167	54	12	241	5	8	8	2	21	42	724	766
11:00	1	65	0	0	66	5	4	6	0	15	7	54	19	6	80	0	1	10	2	11	8	172	180
11:15	4	68	0	3	72	6	1	6	1	13	6	52	10	3	68	7	3	6	1	16	8	169	177
11:30	0	55	1	2	56	6	2	2	4	10	3	59	11	3	73	3	1	5	2	9	11	148	159
11:45	0	112	5	4	117	8	4	6	0	18	4	55	14	0	73	4	1	10	2	15	6	223	229
Total	5	300	6	9	311	25	11	20	5	56	20	220	54	12	294	14	6	31	7	51	33	712	745
12:00	3	60	1	2	64	18	3	1	6	22	0	95	15	5	110	2	11	3	0	16	13	212	225
12:15	1	65	1	3	67	3	4	1	0	8	2	65	17	8	84	0	0	0	0	0	11	159	170
12:30	1	124	6	5	131	14	6	2	1	22	16	62	19	3	97	0	3	5	1	8	10	258	268
12:45	2	96	2	0	100	27	1	6	1	34	9	81	8	4	98	4	10	8	0	22	5	254	259
Total	7	345	10	10	362	62	14	10	8	86	27	303	59	20	389	6	24	16	1	46	39	883	922
13:00	1	110	0	3	111	8	2	3	1	13	5	77	12	4	94	1	1	1	0	3	8	221	229
13:15	0	139	2	6	141	15	3	2	0	20	10	85	12	3	107	1	2	3	1	6	10	274	284
13:30	2	88	2	4	92	14	3	2	4	19	2	70	10	3	82	2	1	4	1	7	12	200	212
13:45	1	87	2	1	90	11	1	6	1	18	14	79	19	11	112	2	1	5	1	8	14	228	242
Total	4	424	6	14	434	48	9	13	6	70	31	311	53	21	395	6	5	13	3	24	44	923	967
14:00	0	0	0	0	0	13	2	4	2	19	19	99	28	17	146	0	0	0	0	0	19	165	184
14:15	5	39	6	0	50	6	15	3	6	24	19	67	11	17	97	18	11	15	1	44	24	215	239
14:30	5	166	2	2	173	24	11	9	0	44	36	127	24	8	187	120	43	155	35	318	45	722	767
14:45	1	111	3	6	115	30	1	6	1	37	17	163	24	4	204	52	54	46	2	152	13	508	521
Total	11	316	11	8	338	73	29	22	9	124	91	456	87	46	634	190	108	216	38	514	101	1610	1711
15:00	0	38	1	2	39	14	1	7	0	22	14	196	25	8	235	14	12	21	1	47	11	343	354
15:15	4	67	1	3	72	16	2	4	0	22	7	193	43	12	243	5	10	12	1	27	16	364	380
15:30	3	83	7	3	93	15	3	8	3	26	3	216	31	2	250	13	4	14	0	31	8	400	408
15:45	4	63	1	3	68	23	2	7	1	32	4	240	42	3	286	10	6	10	0	26	7	412	419
Total	11	251	10	11	272	68	8	26	4	102	28	845	141	25	1014	42	32	57	2	131	42	1519	1561
16:00	0	88	1	2	89	27	2	6	3	35	8	262	46	12	316	12	3	7	1	22	18	462	480
16:15	2	52	3	2	57	27	3	7	1	37	3	279	43	7	325	12	7	6	0	25	10	444	454
16:30	5	53	2	7	60	17	7	7	1	31	3	268	69	5	340	8	8	13	0	29	13	460	473
16:45	0	109	2	8	111	22	1	2	1	25	8	272	40	2	320	4	1	5	1	10	12	466	478
Total	7	302	8	19	317	93	13	22	6	128	22	1081	198	26	1301	36	19	31	2	86	53	1832	1885
17:00	3	74	0	5	77	10	1	8	0	19	3	288	56	8	347	3	0	4	1	7	14	450	464
17:15	4	48	2	1	54	8	5	11	1	24	17	287	47	8	351	4	2	11	7	17	17	446	463
17:30	5	88	4	1	97	19	9	6	0	34	10	299	42	4	351	1	1	3	0	5	5	487	492
17:45	2	100	6	4	108	32	14	8	1	54	27	220	36	2	283	2	2	1	0	5	7	450	457
Total	14	310	12	11	336	69	29	33	2	131	57	1094	181	22	1332	10	5	19	8	34	43	1833	1876
18:00	7	83	17	1	107	16	16	6	0	38	31	197	36	5	264	14	4	5	0	23	6	432	438
18:15	1	76	21	0	98	14	17	11	1	42	31	163	27	1	221	12	6	3	0	21	2	382	384
18:30	3	76	15	0	94	24	10	11	0	45	41	112	27	1	180	6	0	9	0	15	1	334	335
18:45	3	56	17	1	76	12	12	5	0	29	39	86	21	0	146	7	4	0	0	11	1	262	263
Total	14	291	70	2	375	66	55	33	1	154	142	558	111	7	811	39	14	17	0	70	10	1410	1420

# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

Weather: Sunny and Warm  
 Counter: DB-400  
 Counted by: Jake/Laura

File Name : TMC0910  
 Site Code : 09100202  
 Start Date : 05/26/2009  
 Page No : 2

Groups Printed- Unshifted - Bank 1

Start Time	CSAH 7 Southbound					38th Ave Westbound					CSAH 7 Northbound					38th Ave Eastbound					Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total			
19:00	2	34	6	0	42	7	5	4	0	16	7	117	10	1	134	25	4	9	0	38	1	230	231
19:15	0	34	1	0	35	1	1	7	0	9	2	91	6	1	99	15	6	4	0	25	1	168	169
19:30	0	37	0	0	37	6	1	2	0	9	0	104	7	0	111	7	2	1	0	10	0	167	167
19:45	2	19	3	0	24	5	0	4	0	9	3	73	14	0	90	6	5	2	0	13	0	136	136
<b>Total</b>	<b>4</b>	<b>124</b>	<b>10</b>	<b>0</b>	<b>138</b>	<b>19</b>	<b>7</b>	<b>17</b>	<b>0</b>	<b>43</b>	<b>12</b>	<b>385</b>	<b>37</b>	<b>2</b>	<b>434</b>	<b>53</b>	<b>17</b>	<b>16</b>	<b>0</b>	<b>86</b>	<b>2</b>	<b>701</b>	<b>703</b>
20:00	3	9	1	0	13	2	0	4	0	6	2	87	12	0	101	0	0	0	0	0	0	120	120
20:15	2	20	0	0	22	3	0	1	0	4	6	64	12	0	82	1	0	5	0	6	0	114	114
20:30	2	27	1	0	30	7	1	1	0	9	3	77	7	0	87	133	17	92	0	242	0	368	368
20:45	2	39	1	0	42	2	0	5	0	7	0	81	5	0	86	21	1	35	0	57	0	192	192
<b>Total</b>	<b>9</b>	<b>95</b>	<b>3</b>	<b>0</b>	<b>107</b>	<b>14</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>26</b>	<b>11</b>	<b>309</b>	<b>36</b>	<b>0</b>	<b>356</b>	<b>155</b>	<b>18</b>	<b>132</b>	<b>0</b>	<b>305</b>	<b>0</b>	<b>794</b>	<b>794</b>
21:00	0	43	0	0	43	6	0	2	0	8	0	64	2	0	66	1	1	1	0	3	0	120	120
21:15	1	19	0	0	20	7	0	3	0	10	0	51	8	0	59	0	0	3	0	3	0	92	92
21:30	0	15	1	0	16	2	1	0	0	3	1	79	6	0	86	0	0	0	0	0	0	105	105
21:45	1	16	0	0	17	1	0	0	0	1	0	32	5	0	37	2	0	2	0	4	0	59	59
<b>Total</b>	<b>2</b>	<b>93</b>	<b>1</b>	<b>0</b>	<b>96</b>	<b>16</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>22</b>	<b>1</b>	<b>226</b>	<b>21</b>	<b>0</b>	<b>248</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>376</b>	<b>376</b>
<b>Grand Total</b>	<b>121</b>	<b>6695</b>	<b>333</b>	<b>182</b>	<b>7149</b>	<b>1086</b>	<b>438</b>	<b>278</b>	<b>79</b>	<b>1802</b>	<b>772</b>	<b>6620</b>	<b>1202</b>	<b>287</b>	<b>8594</b>	<b>583</b>	<b>386</b>	<b>782</b>	<b>97</b>	<b>1751</b>	<b>645</b>	<b>19296</b>	<b>19941</b>
Approch %	1.7	93.6	4.7			60.3	24.3	15.4			9	77	14			33.3	22	44.7					
Total %	0.6	34.7	1.7		37	5.6	2.3	1.4		9.3	4	34.3	6.2		44.5	3	2	4.1		9.1	3.2	96.8	
Unshifted	121	6695	333		7331	1086	438	278		1881	772	6620	1202		8881	583	386	782		1848	0	0	19941
% Unshifted	100	100	100		100	100	100	100		100	100	100	100		100	100	100	100		100	0	0	100
Bank 1	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0
% Bank 1	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0

Start Time	CSAH 7 Southbound				38th Ave Westbound				CSAH 7 Northbound				38th Ave Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 06:00 to 11:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 06:45																	
06:45	0	347	6	353	50	13	4	67	24	33	12	69	2	3	5	10	499
07:00	2	296	29	327	48	41	0	89	59	79	14	152	2	14	35	51	619
07:15	0	319	54	373	28	67	11	106	76	46	4	126	1	41	48	90	695
07:30	0	315	83	378	39	86	10	135	87	55	15	157	2	47	82	131	801
<b>Total Volume</b>	<b>2</b>	<b>1277</b>	<b>152</b>	<b>1431</b>	<b>165</b>	<b>207</b>	<b>25</b>	<b>397</b>	<b>246</b>	<b>213</b>	<b>45</b>	<b>504</b>	<b>7</b>	<b>105</b>	<b>170</b>	<b>282</b>	<b>2614</b>
% App. Total	0.1	89.2	10.6		41.6	52.1	6.3		48.8	42.3	8.9		2.6	37.2	60.3		
PHF	.250	.920	.603	.946	.825	.602	.568	.735	.707	.674	.750	.803	.875	.559	.518	.538	.816

Start Time	CSAH 7 Southbound				38th Ave Westbound				CSAH 7 Northbound				38th Ave Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 12:00 to 21:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 14:30																	
14:30	5	166	2	173	24	11	9	44	36	127	24	187	120	43	155	318	722
14:45	1	111	3	115	30	1	6	37	17	163	24	204	52	54	46	152	508
15:00	0	38	1	39	14	1	7	22	14	196	25	235	14	12	21	47	343
15:15	4	67	1	72	16	2	4	22	7	193	43	243	5	10	12	27	364
<b>Total Volume</b>	<b>10</b>	<b>382</b>	<b>7</b>	<b>399</b>	<b>84</b>	<b>15</b>	<b>26</b>	<b>125</b>	<b>74</b>	<b>679</b>	<b>116</b>	<b>869</b>	<b>191</b>	<b>119</b>	<b>234</b>	<b>544</b>	<b>1937</b>
% App. Total	2.5	95.7	1.8		67.2	12	20.8		8.5	78.1	13.3		35.1	21.9	43		
PHF	.500	.575	.583	.577	.700	.341	.722	.710	.514	.866	.674	.894	.398	.551	.377	.428	.671

**ANOKA COUNTY HIGHWAY  
PC-WARRANTS  
TRAFFIC SIGNAL WARRANT ANALYSIS**

Study Name : **TMC0910**  
Study Date : **05/29/09**  
Page No. : **1**

**Signal Warrants - Summary**

**Major Street Approaches**

**Northbound: CSAH 7**  
Number of Lanes: 2  
Approach Speed: 40  
Total Approach Volume: **8,594**

**Southbound: CSAH 7**  
Number of Lanes: 2  
Approach Speed: 40  
Total Approach Volume: **7,149**

**Minor Street Approaches**

**Eastbound: 38th Ave**  
Number of Lanes: 2  
  
Total Approach Volume: **1,751**

**Westbound: 38th Ave**  
Number of Lanes: 2  
  
Total Approach Volume: **1,802**

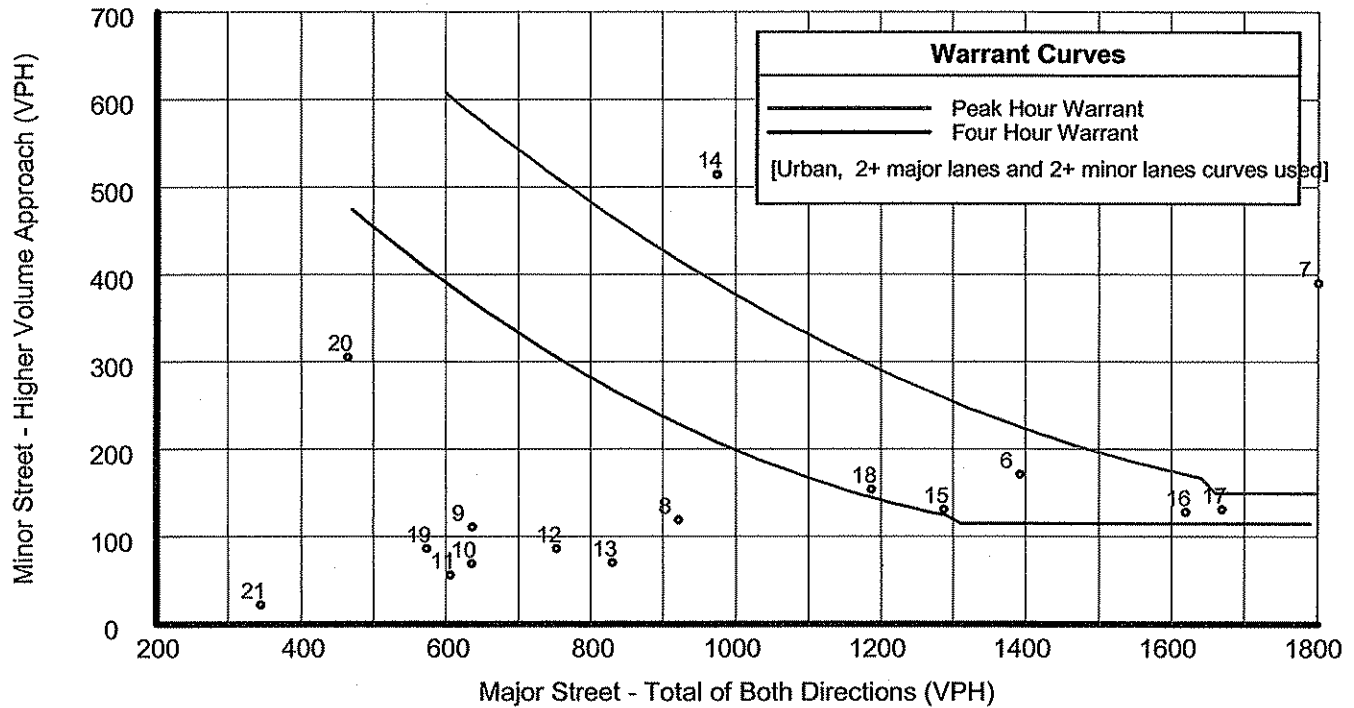
**Warrant Summary (Urban values apply.)**

<b>Warrant 1 - Eight Hour Vehicular Volumes</b> .....	<b>Satisfied</b>
<b>Warrant 1A - Minimum Vehicular Volume</b> .....	<b>Not Satisfied</b>
Required volumes reached for 2 hours, 8 are needed	
<b>Warrant 1B - Interruption of Continuous Traffic</b> .....	<b>Satisfied</b>
Required volumes reached for 8 hours, 8 are needed	
<b>Warrant 1 A&amp;B - Combination of Warrants</b> .....	<b>Not Satisfied</b>
Required volumes reached for 3 hours, 8 are needed	
<b>Warrant 2 - Four Hour Volumes</b> .....	<b>Satisfied</b>
Number of hours (7) volumes exceed minimum >= minimum required (4).	
<b>Warrant 3 - Peak Hour</b> .....	<b>Satisfied</b>
<b>Warrant 3A - Peak Hour Delay</b> .....	<b>Satisfied</b>
Number of hours (10) volumes exceed minimum >= required (1). Delay data not evaluated.	
<b>Warrant 3B - Peak Hour Volumes</b> .....	<b>Satisfied</b>
Volumes exceed minimums for at least one hour.	
<b>Warrant 4 - Pedestrian Volumes</b> .....	<b>Not Evaluated</b>
<b>Warrant 5 - School Crossing</b> .....	<b>Not Evaluated</b>
<b>Warrant 6 - Coordinated Signal System</b> .....	<b>Not Evaluated</b>
<b>Warrant 7 - Crash Experience</b> .....	<b>Not Evaluated</b>
<b>Warrant 8 - Roadway Network</b> .....	<b>Not Evaluated</b>

# ANOKA COUNTY HIGHWAY PC-WARRANTS TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name : TMC0910  
Study Date : 05/29/09  
Page No. : 2

## Signal Warrants - Summary



### Analysis of 8-Hour Volume Warrants:

Hour Begin	Major Total	Higher Minor		War-1A			War-1B			War-1A&B		
		Vol	Dir	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	EB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---
01:00	0	0	EB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---
02:00	0	0	EB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---
03:00	0	0	EB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---
04:00	0	0	EB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---
05:00	0	0	EB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---
06:00	1,391	171	WB	600-Yes	200-No	Major	900-Yes	100-Yes	Both	720-Yes	160-Yes	Both
07:00	1,869	390	WB	600-Yes	200-Yes	Both	900-Yes	100-Yes	Both	720-Yes	160-Yes	Both
08:00	920	119	WB	600-Yes	200-No	Major	900-Yes	100-Yes	Both	720-Yes	160-No	Major
09:00	635	111	WB	600-Yes	200-No	Major	900-No	100-Yes	Minor	720-No	160-No	---
10:00	634	69	WB	600-Yes	200-No	Major	900-No	100-No	---	720-No	160-No	---
11:00	605	56	WB	600-Yes	200-No	Major	900-No	100-No	---	720-No	160-No	---
12:00	751	86	WB	600-Yes	200-No	Major	900-No	100-No	---	720-Yes	160-No	Major
13:00	829	70	WB	600-Yes	200-No	Major	900-No	100-No	---	720-Yes	160-No	Major
14:00	972	514	EB	600-Yes	200-Yes	Both	900-Yes	100-Yes	Both	720-Yes	160-Yes	Both
15:00	1,286	131	EB	600-Yes	200-No	Major	900-Yes	100-Yes	Both	720-Yes	160-No	Major
16:00	1,618	128	WB	600-Yes	200-No	Major	900-Yes	100-Yes	Both	720-Yes	160-No	Major
17:00	1,668	131	WB	600-Yes	200-No	Major	900-Yes	100-Yes	Both	720-Yes	160-No	Major
18:00	1,186	154	WB	600-Yes	200-No	Major	900-Yes	100-Yes	Both	720-Yes	160-No	Major
19:00	572	86	EB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---
20:00	463	305	EB	600-No	200-Yes	Minor	900-No	100-Yes	Minor	720-No	160-Yes	Minor
21:00	344	22	WB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---
22:00	0	0	EB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---
23:00	0	0	EB	600-No	200-No	---	900-No	100-No	---	720-No	160-No	---

**ANOKA COUNTY HIGHWAY  
PC-WARRANTS  
TRAFFIC SIGNAL WARRANT ANALYSIS**

Study Name : TMC0910  
Study Date : 05/29/09  
Page No. : 1

**Multi-Way Stop Warrant Report**

**Major Street Approaches**

**Northbound: CSAH 7**  
Total Approach Volume: 8,594  
Approach Speed: 40

**Southbound: CSAH 7**  
Total Approach Volume: 7,149  
Approach Speed: 40

**Minor Street Approaches**

**Eastbound: 38th Ave**  
Total Approach Volume: 1,751

**Westbound: 38th Ave**  
Total Approach Volume: 1,802

**Warrant Summary**

**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 Evaluated

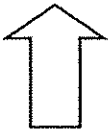
**Criteria C - Minimum Volumes and Delays** ..... Not Satisfied  
Delay data not evaluated  
Required volumes reached for 6 hours, 8 are needed

**Criteria D - 80% of Volumes, Delays, and Crashes** ..... Not Evaluated  
Delay data not evaluated  
Number of crashes (-1) is less than the minimum required (4).  
Required volumes reached for 0 hours, 8 are needed

**Analysis of 8 Hour Volume Warrants:**

Time	Major Total	Minor Total	Crit C			Crit D		
			Major	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00 - 01:00	0	0	300-No	200-No	No	240-No	160-No	No
01:00 - 02:00	0	0	300-No	200-No	No	240-No	160-No	No
02:00 - 03:00	0	0	300-No	200-No	No	240-No	160-No	No
03:00 - 04:00	0	0	300-No	200-No	No	240-No	160-No	No
04:00 - 05:00	0	0	300-No	200-No	No	240-No	160-No	No
05:00 - 06:00	0	0	300-No	200-No	No	240-No	160-No	No
06:00 - 07:00	1,391	191	300-Yes	200-No	Major	240-Yes	160-Yes	Both
07:00 - 08:00	1,869	700	300-Yes	200-Yes	Both	240-Yes	160-Yes	Both
08:00 - 09:00	920	131	300-Yes	200-No	Major	240-Yes	160-No	Major
09:00 - 10:00	635	142	300-Yes	200-No	Major	240-Yes	160-No	Major
10:00 - 11:00	634	90	300-Yes	200-No	Major	240-Yes	160-No	Major
11:00 - 12:00	605	107	300-Yes	200-No	Major	240-Yes	160-No	Major
12:00 - 13:00	751	132	300-Yes	200-No	Major	240-Yes	160-No	Major
13:00 - 14:00	829	94	300-Yes	200-No	Major	240-Yes	160-No	Major
14:00 - 15:00	972	638	300-Yes	200-Yes	Both	240-Yes	160-Yes	Both
15:00 - 16:00	1,286	233	300-Yes	200-Yes	Both	240-Yes	160-Yes	Both
16:00 - 17:00	1,618	214	300-Yes	200-Yes	Both	240-Yes	160-Yes	Both
17:00 - 18:00	1,668	165	300-Yes	200-No	Major	240-Yes	160-Yes	Both
18:00 - 19:00	1,186	224	300-Yes	200-Yes	Both	240-Yes	160-Yes	Both
19:00 - 20:00	572	129	300-Yes	200-No	Major	240-Yes	160-No	Major
20:00 - 21:00	463	331	300-Yes	200-Yes	Both	240-Yes	160-Yes	Both
21:00 - 22:00	344	32	300-Yes	200-No	Major	240-Yes	160-No	Major
22:00 - 23:00	0	0	300-No	200-No	No	240-No	160-No	No
23:00 - 00:00	0	0	300-No	200-No	No	240-No	160-No	No





**NORTH**

APP. #1 = 38th Ave.
APP. #2 = CSAH 7
APP. #3 = 38th Ave.
APP. #4 = CSAH 7

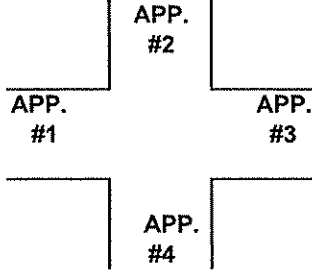
**COUNT LOCATION:**

CSAH 7 (7th Ave.)

**DATE:**

05/27/2009

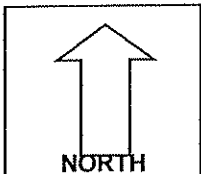
@ 38th Ave.



- HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT**
- A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
  - B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.
  - C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM	1				1	3		2
6:15-6:30						3		13
6:30-6:45						4	1	7
6:45-7:00						3		8
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>44</b>
7:00-7:15		1			1	8		12
7:15-7:30			1	2	3	5		35
7:30-7:45						5		12
7:45-8:00						6		20
<b>HOURLY TOTAL</b>					<b>4</b>	<b>HOURLY TOTAL</b>		<b>103</b>
8:00-8:15						3	1	7
8:15-8:30						5		3
8:30-8:45						10		7
8:45-9:00						4		4
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>44</b>
9:00-9:15						2		8
9:15-9:30						3		5
9:30-9:45						4		9
9:45-10:00						5		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>36</b>
10:00-10:15						4		3
10:15-10:30						6		7
10:30-10:45						10		2
10:45-11:00	1				1	10		1
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>43</b>
11:00-11:15						4		6
11:15-11:30						5	1	1
11:30-11:45						5		6
11:45-12:00						3		3
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>34</b>
12:00-12:15						6		7
12:15-12:30						9		1
12:30-12:45						6		4
12:45-1:00						3		3
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>39</b>
1:00-1:15						5		3
1:15-1:30						5		5
1:30-1:45						2		9
1:45-2:00			2		2	2		10
<b>HOURLY TOTAL</b>					<b>2</b>	<b>HOURLY TOTAL</b>		<b>41</b>
<b>TOTAL</b>					<b>8</b>	<b>TOTAL</b>		<b>384</b>

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COUNT LOCATION:

CSAH 7 (7th Ave.)

DATE:

05/26/2008 2009

@ 38th Ave.

APP. #1 = 38th Ave.

APP. #2 = CSAH 7

APP. #3 = 38th Ave.

APP. #4 = CSAH 7

APP. #2

APP. #1

APP. #3

APP. #4

HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT

A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.

B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.

C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
2:00-2:15PM						4		18
2:15-2:30			2		2	4		17
2:30-2:45		2			2	7		38
2:45-3:00						5		7
<b>HOURLY TOTAL</b>					<b>4</b>	<b>HOURLY TOTAL</b>		<b>100</b>
3:00-3:15			1		1	3		8
3:15-3:30				2	2	3		12
3:30-3:45						2		6
3:45-4:00						3		4
<b>HOURLY TOTAL</b>					<b>3</b>	<b>HOURLY TOTAL</b>		<b>41</b>
4:00-4:15						7		11
4:15-4:30						4		7
4:30-4:45	3			3	6	2		9
4:45-5:00						1		10
<b>HOURLY TOTAL</b>					<b>6</b>	<b>HOURLY TOTAL</b>		<b>51</b>
5:00-5:15						6		6
5:15-5:30						3		12
5:30-5:45				1	1	2		3
5:45-6:00						3		3
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>38</b>
6:00-6:15						5		2
6:15-6:30						2		
6:30-6:45						1		
6:45-7:00						1		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>11</b>
7:00-7:15				1	1	1		
7:15-7:30						1		
7:30-7:45								
7:45-8:00								
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>2</b>
8:00-8:15								
8:15-8:30								
8:30-8:45						1		
8:45-9:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>1</b>
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
					<b>TOTAL</b>	<b>TOTAL</b>		<b>628</b>
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