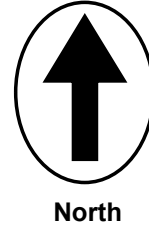


Date : 08/01/22

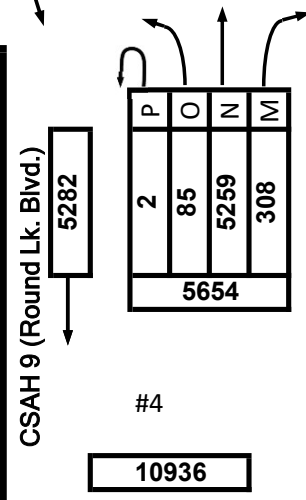
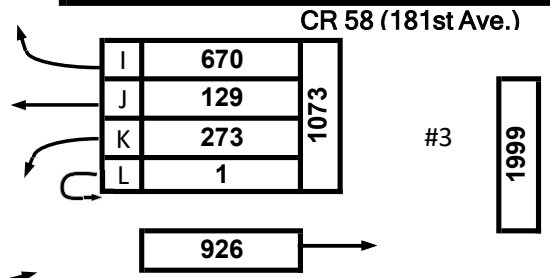
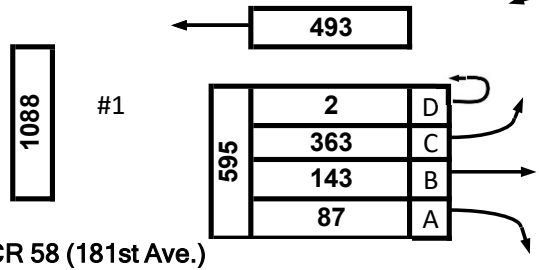
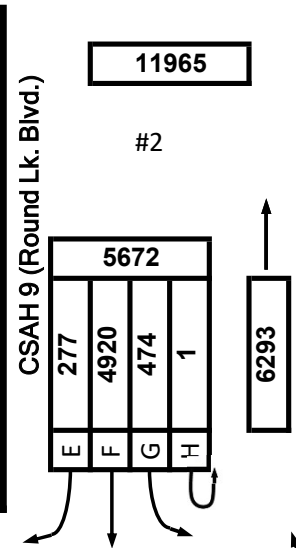
Count Number : TMC 2249

Location : CSAH 9 (Round Lk. Blvd.)  
@ CR 58 (181st Ave.)

Collection Period : 24 HR



North



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

Anoka County Highway Department

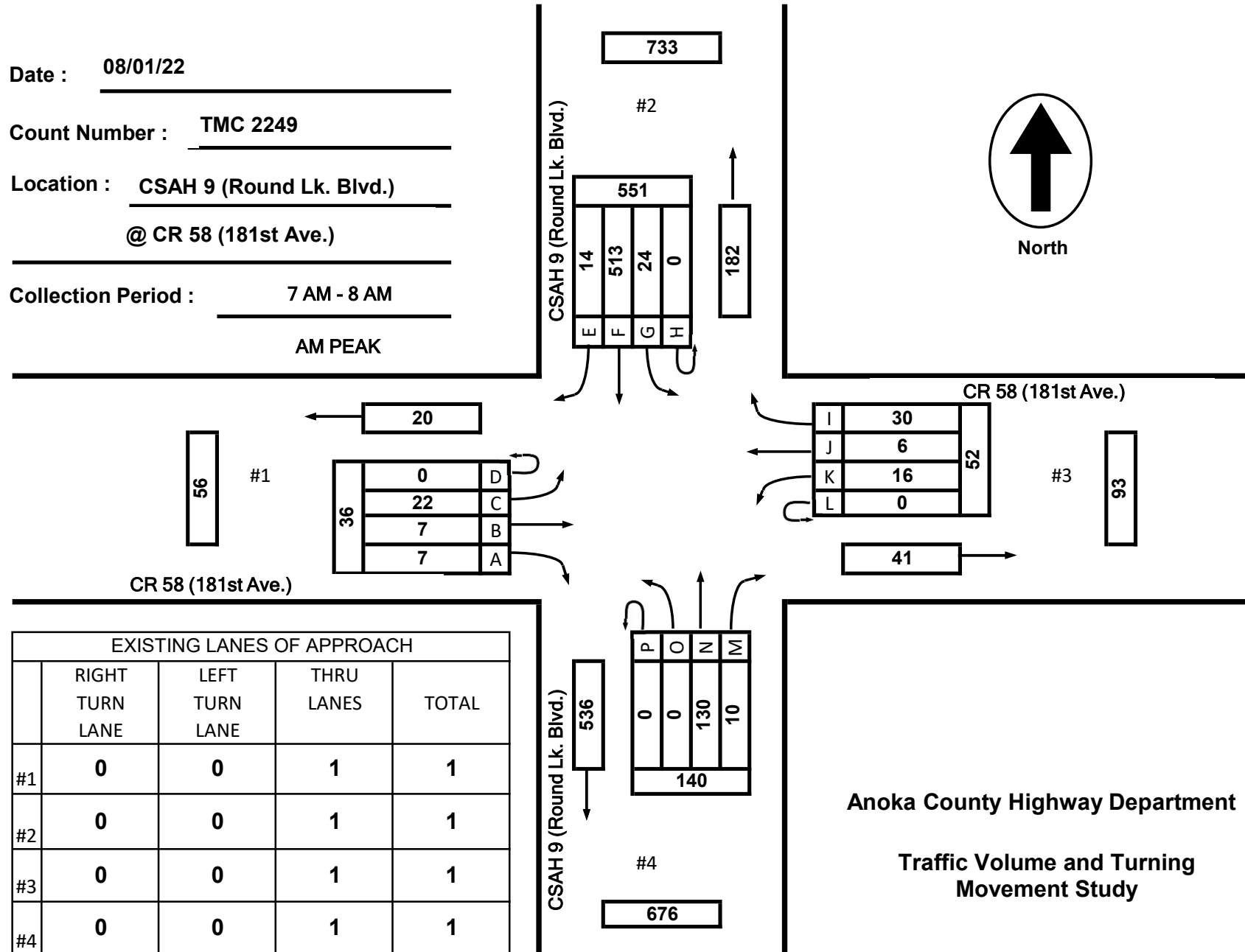
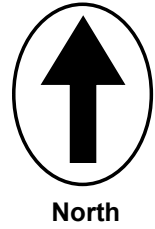
Traffic Volume and Turning Movement Study

Date : 08/01/22

Count Number : TMC 2249

Location : CSAH 9 (Round Lk. Blvd.)  
@ CR 58 (181st Ave.)

Collection Period : 7 AM - 8 AM  
AM PEAK



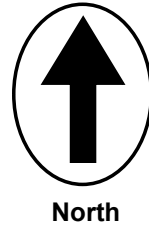
Anoka County Highway Department  
 Traffic Volume and Turning  
 Movement Study

Date : 08/01/22

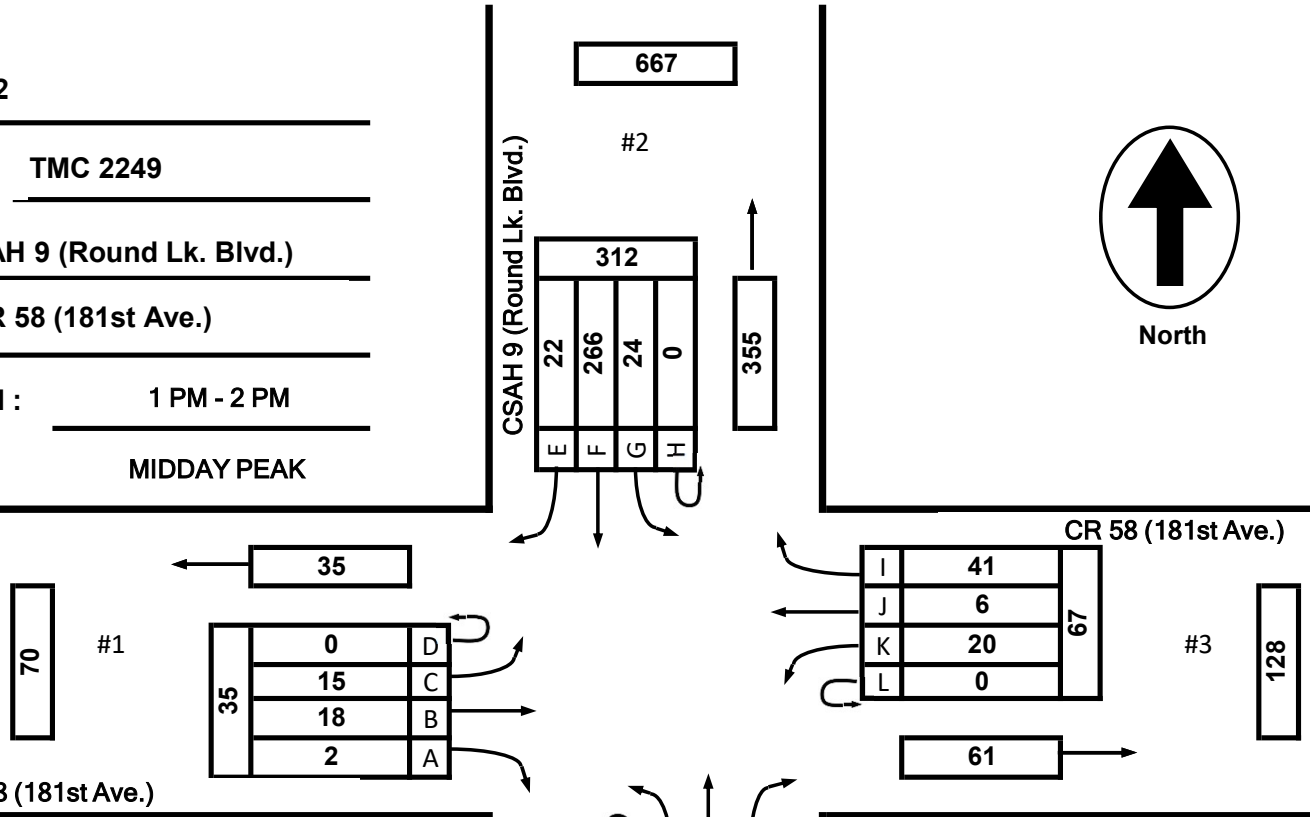
Count Number : TMC 2249

Location : CSAH 9 (Round Lk. Blvd.)  
@ CR 58 (181st Ave.)

Collection Period : 1 PM - 2 PM  
**MIDDAY PEAK**



North



EXISTING LANES OF APPROACH

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

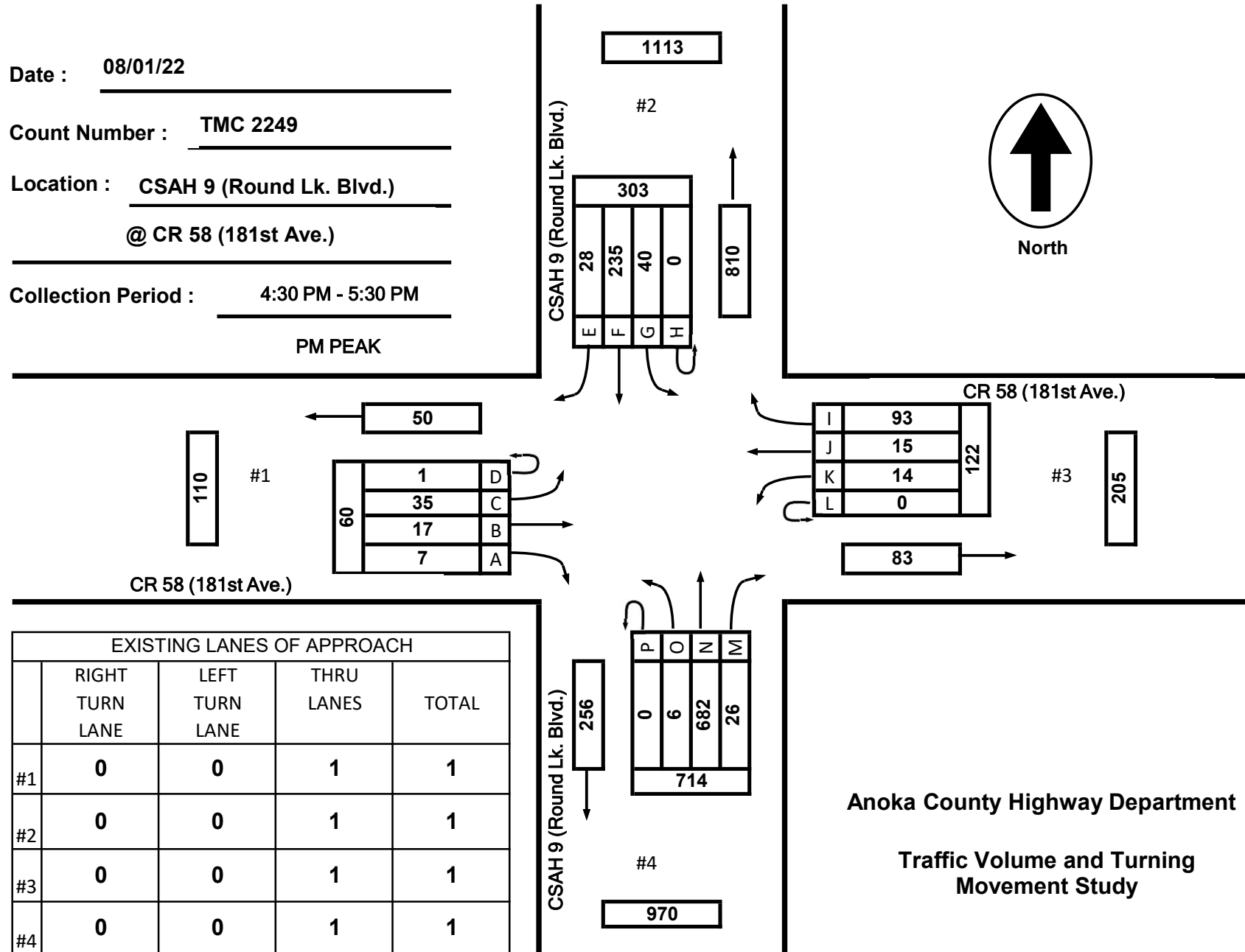
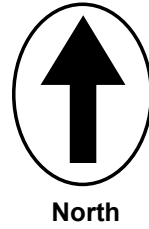
Anoka County Highway Department  
 Traffic Volume and Turning Movement Study

Date : 08/01/22

Count Number : TMC 2249

Location : CSAH 9 (Round Lk. Blvd.)  
@ CR 58 (181st Ave.)

Collection Period : 4:30 PM - 5:30 PM  
**PM PEAK**



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

**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 : TMC 2249  
 Site Code :  
 Start Date : 08/01/2022  
 Page No : 1

Weather: Warm & Sunny  
 CountCAM 3  
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 9 (Round Lk. Blvd.) Southbound						CR 58 (181st Ave.) Westbound						CSAH 9 (Lake George Blvd.) Northbound						CR 58 (181st Ave.) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
00:00	0	3	0	0	0	3	0	0	0	0	0	0	0	12	0	0	0	12	0	0	1	0	0	1	0	16	16
00:15	0	3	1	0	0	4	4	0	0	0	0	4	0	8	0	0	0	8	0	0	0	0	0	0	0	16	16
00:30	1	1	0	0	0	2	0	0	0	0	0	0	0	6	0	0	0	6	0	0	1	0	0	1	0	9	9
00:45	0	1	0	0	0	1	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	6	6
<b>Total</b>	<b>1</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>47</b>	<b>47</b>
01:00	0	2	1	0	0	3	0	0	0	0	0	0	0	4	0	0	0	4	0	0	1	0	0	1	0	8	8
01:15	1	1	1	0	0	3	0	0	0	0	0	0	1	10	0	0	0	11	0	0	0	0	0	0	0	14	14
01:30	0	2	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	6	6
01:45	0	2	0	0	0	2	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	7	7
<b>Total</b>	<b>1</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>35</b>	<b>35</b>
02:00	0	1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	4	4
02:15	0	2	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	6	6
02:30	0	4	0	0	0	4	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	7	7
02:45	0	0	0	0	0	0	0	1	0	0	0	1	0	3	0	0	0	3	0	0	0	0	0	0	0	4	4
<b>Total</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>21</b>
03:00	1	4	0	0	0	5	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	7	7
03:15	0	6	0	0	0	6	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	8	8
03:30	1	7	0	0	0	8	0	0	0	0	0	0	0	2	0	0	0	2	0	0	1	0	0	1	0	11	11
03:45	0	6	0	0	0	6	0	0	0	0	0	0	0	2	0	0	0	2	1	0	0	0	0	1	0	9	9
<b>Total</b>	<b>2</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>35</b>	<b>35</b>
04:00	0	18	1	0	0	19	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	22	22
04:15	0	18	2	0	0	20	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
04:30	1	43	0	0	0	44	0	1	4	0	0	5	0	2	0	0	0	2	0	0	0	0	0	0	0	51	51
04:45	0	42	1	0	0	43	0	0	1	0	0	1	1	1	0	0	0	2	1	1	0	0	0	2	0	48	48
<b>Total</b>	<b>1</b>	<b>121</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>126</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>143</b>	<b>143</b>
05:00	1	76	4	0	0	81	0	0	1	0	0	1	0	5	0	0	0	5	0	0	1	0	0	1	0	88	88
05:15	1	72	2	0	0	75	4	0	6	0	0	10	1	7	0	0	0	8	0	0	1	0	0	1	0	94	94
05:30	2	92	3	0	0	97	1	0	2	0	0	3	1	8	0	0	0	9	1	1	1	0	0	3	0	112	112
05:45	1	106	2	0	0	109	3	1	1	0	0	5	0	16	0	0	0	16	0	0	4	0	0	4	0	134	134
<b>Total</b>	<b>5</b>	<b>346</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>362</b>	<b>8</b>	<b>1</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>2</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>38</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>428</b>	<b>428</b>



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

File Name : TMC 2249  
 Site Code :  
 Start Date : 08/01/2022  
 Page No : 2

Weather: Warm & Sunny  
 CountCAM 3  
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 9 (Round Lk. Blvd.) Southbound						CR 58 (181st Ave.) Westbound						CSAH 9 (Lake George Blvd.) Northbound						CR 58 (181st Ave.) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
06:00	1	114	5	0	0	120	5	1	5	0	0	11	0	16	0	0	0	16	1	1	0	0	0	2	0	149	149
06:15	4	137	5	0	0	146	7	2	5	0	0	14	0	18	0	0	0	18	2	0	2	0	0	4	0	182	182
06:30	4	148	14	0	0	166	5	0	9	0	0	14	1	17	0	0	0	18	1	2	3	0	0	6	0	204	204
06:45	6	134	5	0	0	145	4	0	3	0	0	7	2	27	0	0	0	29	1	2	6	0	0	9	0	190	190
Total	15	533	29	0	0	577	21	3	22	0	0	46	3	78	0	0	0	81	5	5	11	0	0	21	0	725	725
07:00	2	141	7	0	0	150	3	2	0	0	0	5	0	23	0	0	0	23	2	3	4	0	0	9	0	187	187
07:15	3	116	3	0	0	122	9	1	7	0	0	17	8	40	0	0	0	48	1	1	5	0	0	7	0	194	194
07:30	5	138	6	0	0	149	3	3	7	0	0	13	1	28	0	0	0	29	2	1	7	0	0	10	0	201	201
07:45	4	118	8	0	0	130	15	0	2	0	0	17	1	39	0	0	0	40	2	2	6	0	0	10	0	197	197
Total	14	513	24	0	0	551	30	6	16	0	0	52	10	130	0	0	0	140	7	7	22	0	0	36	0	779	779
08:00	5	101	6	0	0	112	4	1	6	0	0	11	0	19	0	0	0	19	0	2	7	0	0	9	0	151	151
08:15	5	90	7	0	0	102	2	1	4	0	0	7	4	34	0	0	0	38	2	2	5	0	0	9	0	156	156
08:30	3	77	14	0	0	94	4	2	5	0	0	11	3	38	1	0	0	42	0	1	0	0	0	1	0	148	148
08:45	3	83	10	0	0	96	6	7	6	0	0	19	2	36	0	0	0	38	3	3	0	0	0	6	0	159	159
Total	16	351	37	0	0	404	16	11	21	0	0	48	9	127	1	0	0	137	5	8	12	0	0	25	0	614	614
09:00	6	68	5	0	0	79	7	0	3	0	0	10	1	44	1	0	0	46	1	0	4	0	0	5	0	140	140
09:15	2	66	10	0	0	78	12	3	3	0	0	18	4	48	0	0	0	52	1	2	3	1	0	7	0	155	155
09:30	3	77	9	0	0	89	6	0	5	0	0	11	2	36	3	0	0	41	0	3	1	0	0	4	0	145	145
09:45	2	76	4	0	0	82	8	1	5	0	0	14	8	51	2	0	0	61	1	2	4	0	0	7	0	164	164
Total	13	287	28	0	0	328	33	4	16	0	0	53	15	179	6	0	0	200	3	7	12	1	0	23	0	604	604
10:00	4	78	7	0	0	89	4	4	5	0	0	13	0	43	0	0	0	43	0	3	5	0	0	8	0	153	153
10:15	0	70	8	0	1	78	7	0	7	0	0	14	6	35	1	0	0	42	2	1	2	0	0	5	1	139	140
10:30	2	72	9	0	0	83	8	0	6	0	0	14	3	57	3	0	0	63	2	1	3	0	0	6	0	166	166
10:45	4	73	6	0	0	83	8	3	4	0	0	15	3	58	0	0	0	61	2	3	4	0	0	9	0	168	168
Total	10	293	30	0	1	333	27	7	22	0	0	56	12	193	4	0	0	209	6	8	14	0	0	28	1	626	627
11:00	0	66	6	1	0	73	5	2	4	0	0	11	5	62	3	0	0	70	4	1	7	0	0	12	0	166	166
11:15	5	66	5	0	0	76	8	2	3	1	0	14	3	57	1	0	0	61	4	1	6	0	0	11	0	162	162
11:30	3	70	7	0	0	80	7	2	6	0	0	15	3	64	2	0	0	69	0	1	7	0	0	8	0	172	172
11:45	3	56	11	0	0	70	10	0	5	0	0	15	6	68	3	0	0	77	1	1	0	0	0	2	0	164	164
Total	11	258	29	1	0	299	30	6	18	1	0	55	17	251	9	0	0	277	9	4	20	0	0	33	0	664	664
12:00	4	70	6	0	0	80	13	2	5	0	0	20	6	56	1	0	0	63	3	1	5	0	0	9	0	172	172
12:15	4	54	9	0	0	67	13	1	3	0	0	17	3	66	2	0	0	71	1	0	5	0	0	6	0	161	161
12:30	2	62	5	0	0	69	13	0	1	0	0	14	6	70	1	0	0	77	1	2	4	0	0	7	0	167	167



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

File Name : TMC 2249  
 Site Code :  
 Start Date : 08/01/2022  
 Page No : 3

Weather: Warm & Sunny  
 CountCAM 3  
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 9 (Round Lk. Blvd.) Southbound						CR 58 (181st Ave.) Westbound						CSAH 9 (Lake George Blvd.) Northbound						CR 58 (181st Ave.) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
12:45	7	46	8	0	0	61	14	4	4	0	0	22	4	70	0	0	0	74	0	3	9	0	0	12	0	169	169
Total	17	232	28	0	0	277	53	7	13	0	0	73	19	262	4	0	0	285	5	6	23	0	0	34	0	669	669
13:00	8	83	6	0	0	97	8	4	5	0	0	17	3	63	1	0	0	67	0	5	4	0	0	9	0	190	190
13:15	5	59	9	0	0	73	10	1	3	0	0	14	6	81	4	0	0	91	1	4	4	0	0	9	0	187	187
13:30	7	62	4	0	0	73	8	0	8	0	0	16	2	77	1	0	0	80	1	4	4	0	0	9	0	178	178
13:45	2	62	5	0	0	69	15	1	4	0	0	20	8	78	1	0	0	87	0	5	3	0	0	8	0	184	184
Total	22	266	24	0	0	312	41	6	20	0	0	67	19	299	7	0	0	325	2	18	15	0	0	35	0	739	739
14:00	5	57	5	0	0	67	14	1	3	0	0	18	4	94	2	0	0	100	3	3	2	0	0	8	0	193	193
14:15	3	55	9	0	0	67	11	2	7	0	0	20	12	80	1	0	0	93	2	3	6	0	0	11	0	191	191
14:30	5	65	5	0	0	75	9	4	3	0	0	16	8	115	1	0	0	124	1	2	5	0	0	8	0	223	223
14:45	3	66	3	0	0	72	17	1	1	0	0	19	12	139	0	0	0	151	1	3	13	0	0	17	0	259	259
Total	16	243	22	0	0	281	51	8	14	0	0	73	36	428	4	0	0	468	7	11	26	0	0	44	0	866	866
15:00	2	52	6	0	0	60	11	1	2	0	0	14	8	146	0	0	0	154	0	1	9	0	0	10	0	238	238
15:15	5	51	4	0	0	60	9	1	3	0	0	13	10	140	4	1	0	155	1	2	13	0	0	16	0	244	244
15:30	5	58	6	0	0	69	17	2	4	0	0	23	6	162	2	0	0	170	1	4	10	0	0	15	0	277	277
15:45	8	66	10	0	0	84	17	3	4	0	0	24	8	153	2	0	0	163	0	2	11	0	0	13	0	284	284
Total	20	227	26	0	0	273	54	7	13	0	0	74	32	601	8	1	0	642	2	9	43	0	0	54	0	1043	1043
16:00	6	60	7	0	0	73	13	0	4	0	0	17	11	154	1	0	0	166	2	0	10	0	0	12	0	268	268
16:15	5	58	4	0	0	67	24	2	1	0	0	27	6	169	3	0	0	178	2	3	6	0	0	11	0	283	283
16:30	8	57	8	0	0	73	18	5	6	0	0	29	8	179	1	0	0	188	1	4	7	0	0	12	0	302	302
16:45	5	54	11	0	0	70	25	4	4	0	0	33	4	168	0	0	0	172	4	7	9	0	0	20	0	295	295
Total	24	229	30	0	0	283	80	11	15	0	0	106	29	670	5	0	0	704	9	14	32	0	0	55	0	1148	1148
17:00	7	70	12	0	0	89	24	3	1	0	0	28	8	161	4	0	0	173	0	2	14	1	0	17	0	307	307
17:15	8	54	9	0	0	71	26	3	3	0	0	32	6	174	1	0	0	181	2	4	5	0	0	11	0	295	295
17:30	5	68	11	0	0	84	25	2	7	0	0	34	5	152	3	0	0	160	3	5	7	0	0	15	0	293	293
17:45	8	67	11	0	0	86	20	7	6	0	0	33	4	146	3	0	0	153	0	0	9	0	0	9	0	281	281
Total	28	259	43	0	0	330	95	15	17	0	0	127	23	633	11	0	0	667	5	11	35	1	0	52	0	1176	1176
18:00	3	50	7	0	0	60	13	3	5	0	0	21	6	128	1	0	0	135	1	4	9	0	0	14	0	230	230
18:15	5	52	6	0	0	63	12	1	4	0	0	17	6	135	1	0	0	142	0	3	4	0	0	7	0	229	229
18:30	2	41	7	0	0	50	13	2	2	0	0	17	6	90	1	0	0	97	3	1	5	0	0	9	0	173	173
18:45	2	39	1	0	0	42	12	4	3	0	0	19	5	103	1	0	0	109	0	4	6	0	0	10	0	180	180
Total	12	182	21	0	0	215	50	10	14	0	0	74	23	456	4	0	0	483	4	12	24	0	0	40	0	812	812



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

File Name : TMC 2249  
 Site Code :  
 Start Date : 08/01/2022  
 Page No : 4

Weather: Warm & Sunny  
 CountCAM 3  
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 9 (Round Lk. Blvd.) Southbound						CR 58 (181st Ave.) Westbound						CSAH 9 (Lake George Blvd.) Northbound						CR 58 (181st Ave.) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
19:00	5	33	7	0	0	45	9	5	0	0	0	14	5	72	2	0	0	79	0	2	15	0	0	17	0	155	155
19:15	6	47	7	0	0	60	10	1	4	0	0	15	6	75	1	0	0	82	0	0	4	0	0	4	0	161	161
19:30	4	36	3	0	0	43	2	1	2	0	0	5	3	65	2	0	0	70	0	1	4	0	0	5	0	123	123
19:45	7	52	4	0	0	63	5	1	3	0	0	9	5	74	2	0	0	81	0	2	2	0	0	4	0	157	157
<b>Total</b>	<b>22</b>	<b>168</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>211</b>	<b>26</b>	<b>8</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>43</b>	<b>19</b>	<b>286</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>312</b>	<b>0</b>	<b>5</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>596</b>	<b>596</b>
20:00	5	41	5	0	0	51	6	4	3	0	0	13	2	58	2	0	0	62	0	0	3	0	0	3	0	129	129
20:15	4	41	10	0	0	55	7	4	4	0	0	15	2	62	1	0	0	65	0	0	3	0	0	3	0	138	138
20:30	1	40	3	0	0	44	10	0	2	0	0	12	6	68	2	0	0	76	1	0	5	0	0	6	0	138	138
20:45	1	26	4	0	0	31	7	1	2	0	0	10	4	45	1	0	0	50	1	0	3	0	0	4	0	95	95
<b>Total</b>	<b>11</b>	<b>148</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>181</b>	<b>30</b>	<b>9</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>14</b>	<b>233</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>253</b>	<b>2</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>500</b>	<b>500</b>
21:00	0	35	5	0	0	40	4	0	1	0	0	5	5	56	2	0	0	63	0	3	6	0	0	9	0	117	117
21:15	1	36	8	0	0	45	2	1	2	0	0	5	1	52	1	0	0	54	0	4	1	0	0	5	0	109	109
21:30	2	28	6	0	1	36	4	1	2	0	0	7	4	38	2	0	0	44	4	2	3	0	0	9	1	96	97
21:45	4	20	4	0	0	28	3	1	2	0	0	6	2	29	0	1	0	32	0	2	6	0	0	8	0	74	74
<b>Total</b>	<b>7</b>	<b>119</b>	<b>23</b>	<b>0</b>	<b>1</b>	<b>149</b>	<b>13</b>	<b>3</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>12</b>	<b>175</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>193</b>	<b>4</b>	<b>11</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>1</b>	<b>396</b>	<b>397</b>
22:00	4	22	1	0	0	27	0	0	0	0	0	0	2	23	1	0	0	26	2	2	1	0	0	5	0	58	58
22:15	0	18	5	0	0	23	4	0	0	0	0	4	2	20	0	0	0	22	4	1	1	0	0	6	0	55	55
22:30	1	15	4	0	0	20	1	2	2	0	0	5	1	32	0	0	0	33	0	0	1	0	0	1	0	59	59
22:45	2	19	3	0	0	24	1	0	1	0	0	2	2	13	1	0	0	16	0	0	1	0	0	1	0	43	43
<b>Total</b>	<b>7</b>	<b>74</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>94</b>	<b>6</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>7</b>	<b>88</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>97</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>215</b>	<b>215</b>
23:00	0	8	1	0	0	9	1	3	1	0	0	5	2	18	1	0	0	21	2	0	1	0	0	3	0	38	38
23:15	0	5	0	0	0	5	0	0	1	0	0	1	0	14	1	0	0	15	1	1	0	0	0	2	0	23	23
23:30	1	10	2	0	0	13	0	0	0	0	0	0	1	7	0	0	0	8	0	1	2	0	0	3	0	24	24
23:45	1	3	3	0	0	7	1	0	1	0	0	2	2	16	0	0	0	18	0	0	1	0	0	1	0	28	28
<b>Total</b>	<b>2</b>	<b>26</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>5</b>	<b>55</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>62</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>113</b>	<b>113</b>
<b>Grand Total</b>	<b>277</b>	<b>4920</b>	<b>474</b>	<b>1</b>	<b>2</b>	<b>5672</b>	<b>670</b>	<b>129</b>	<b>273</b>	<b>1</b>	<b>0</b>	<b>1073</b>	<b>308</b>	<b>5259</b>	<b>85</b>	<b>2</b>	<b>0</b>	<b>5654</b>	<b>87</b>	<b>143</b>	<b>363</b>	<b>2</b>	<b>0</b>	<b>595</b>	<b>2</b>	<b>12994</b>	<b>12996</b>
<b>Apprch %</b>	<b>4.9</b>	<b>86.7</b>	<b>8.4</b>	<b>0</b>			<b>62.4</b>	<b>12</b>	<b>25.4</b>	<b>0.1</b>			<b>5.4</b>	<b>93</b>	<b>1.5</b>	<b>0</b>			<b>14.6</b>	<b>24</b>	<b>61</b>	<b>0.3</b>					
<b>Total %</b>	<b>2.1</b>	<b>37.9</b>	<b>3.6</b>	<b>0</b>		<b>43.7</b>	<b>5.2</b>	<b>1</b>	<b>2.1</b>	<b>0</b>		<b>8.3</b>	<b>2.4</b>	<b>40.5</b>	<b>0.7</b>	<b>0</b>		<b>43.5</b>	<b>0.7</b>	<b>1.1</b>	<b>2.8</b>	<b>0</b>		<b>4.6</b>	<b>0</b>	<b>100</b>	
<b>Cars +</b>	<b>268</b>	<b>4827</b>	<b>455</b>	<b>1</b>		<b>5553</b>	<b>651</b>	<b>120</b>	<b>268</b>	<b>1</b>		<b>1040</b>	<b>302</b>	<b>5155</b>	<b>83</b>	<b>1</b>		<b>5541</b>	<b>86</b>	<b>136</b>	<b>338</b>	<b>2</b>		<b>562</b>	<b>0</b>	<b>0</b>	<b>12696</b>
<b>% Cars +</b>	<b>96.8</b>	<b>98.1</b>	<b>96</b>	<b>100</b>	<b>100</b>	<b>97.9</b>	<b>97.2</b>	<b>93</b>	<b>98.2</b>	<b>100</b>	<b>0</b>	<b>96.9</b>	<b>98.1</b>	<b>98</b>	<b>97.6</b>	<b>50</b>	<b>0</b>	<b>98</b>	<b>98.9</b>	<b>95.1</b>	<b>93.1</b>	<b>100</b>	<b>0</b>	<b>94.5</b>	<b>0</b>	<b>0</b>	<b>97.7</b>
<b>Trucks</b>	<b>9</b>	<b>93</b>	<b>19</b>	<b>0</b>		<b>121</b>	<b>19</b>	<b>9</b>	<b>5</b>	<b>0</b>		<b>33</b>	<b>6</b>	<b>104</b>	<b>2</b>	<b>1</b>		<b>113</b>	<b>1</b>	<b>7</b>	<b>25</b>	<b>0</b>		<b>33</b>	<b>0</b>	<b>0</b>	<b>300</b>
<b>% Trucks</b>	<b>3.2</b>	<b>1.9</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>2.1</b>	<b>2.8</b>	<b>7</b>	<b>1.8</b>	<b>0</b>	<b>0</b>	<b>3.1</b>	<b>1.9</b>	<b>2</b>	<b>2.4</b>	<b>50</b>	<b>0</b>	<b>2</b>	<b>1.1</b>	<b>4.9</b>	<b>6.9</b>	<b>0</b>	<b>0</b>	<b>5.5</b>	<b>0</b>	<b>0</b>	<b>2.3</b>





# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

File Name : TMC 2249  
 Site Code :  
 Start Date : 08/01/2022  
 Page No : 5

Weather: Warm & Sunny  
 CountCAM 3  
 Study Conducted By: Sam

Start Time	CSAH 9 (Round Lk. Blvd.) Southbound					CR 58 (181st Ave.) Westbound					CSAH 9 (Lake George Blvd.) Northbound					CR 58 (181st Ave.) Eastbound					Int. Total
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	
Peak Hour Analysis From 00:00 to 09:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00																					
07:00	2	141	7	0	150	3	2	0	0	5	0	23	0	0	23	2	3	4	0	9	187
07:15	3	116	3	0	122	9	1	7	0	17	8	40	0	0	48	1	1	5	0	7	194
07:30	5	138	6	0	149	3	3	7	0	13	1	28	0	0	29	2	1	7	0	10	201
07:45	4	118	8	0	130	15	0	2	0	17	1	39	0	0	40	2	2	6	0	10	197
Total Volume	14	513	24	0	551	30	6	16	0	52	10	130	0	0	140	7	7	22	0	36	779
% App. Total	2.5	93.1	4.4	0		57.7	11.5	30.8	0		7.1	92.9	0	0		19.4	19.4	61.1	0		
PHF	.700	.910	.750	.000	.918	.500	.500	.571	.000	.765	.313	.813	.000	.000	.729	.875	.583	.786	.000	.900	.969

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 13:00																					
13:00	8	83	6	0	97	8	4	5	0	17	3	63	1	0	67	0	5	4	0	9	190
13:15	5	59	9	0	73	10	1	3	0	14	6	81	4	0	91	1	4	4	0	9	187
13:30	7	62	4	0	73	8	0	8	0	16	2	77	1	0	80	1	4	4	0	9	178
13:45	2	62	5	0	69	15	1	4	0	20	8	78	1	0	87	0	5	3	0	8	184
Total Volume	22	266	24	0	312	41	6	20	0	67	19	299	7	0	325	2	18	15	0	35	739
% App. Total	7.1	85.3	7.7	0		61.2	9	29.9	0		5.8	92	2.2	0		5.7	51.4	42.9	0		
PHF	.688	.801	.667	.000	.804	.683	.375	.625	.000	.838	.594	.923	.438	.000	.893	.500	.900	.938	.000	.972	.972

Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:30																					
16:30	8	57	8	0	73	18	5	6	0	29	8	179	1	0	188	1	4	7	0	12	302
16:45	5	54	11	0	70	25	4	4	0	33	4	168	0	0	172	4	7	9	0	20	295
17:00	7	70	12	0	89	24	3	1	0	28	8	161	4	0	173	0	2	14	1	17	307
17:15	8	54	9	0	71	26	3	3	0	32	6	174	1	0	181	2	4	5	0	11	295
Total Volume	28	235	40	0	303	93	15	14	0	122	26	682	6	0	714	7	17	35	1	60	1199
% App. Total	9.2	77.6	13.2	0		76.2	12.3	11.5	0		3.6	95.5	0.8	0		11.7	28.3	58.3	1.7		
PHF	.875	.839	.833	.000	.851	.894	.750	.583	.000	.924	.813	.953	.375	.000	.949	.438	.607	.625	.250	.750	.976



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

File Name : TMC 2249  
 Site Code :  
 Start Date : 08/01/2022  
 Page No : 1

Weather: Warm & Sunny  
 CountCAM 3  
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 9 (Round Lk. Blvd.) Southbound					CR 58 (181st Ave.) Westbound					CSAH 9 (Lake George Blvd.) Northbound					CR 58 (181st Ave.) Eastbound					Int. Total	
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total		
00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
Total	0	1	0	0	1	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	3
05:00	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
05:45	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	2
Total	0	4	0	0	4	1	0	0	0	1	0	1	0	0	1	0	0	1	0	1	0	7



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

File Name : TMC 2249  
 Site Code :  
 Start Date : 08/01/2022  
 Page No : 2

Weather: Warm & Sunny  
 CountCAM 3  
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 9 (Round Lk. Blvd.) Southbound					CR 58 (181st Ave.) Westbound					CSAH 9 (Lake George Blvd.) Northbound					CR 58 (181st Ave.) Eastbound					Int. Total	
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total		
06:00	0	8	0	0	8	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	9
06:15	0	5	0	0	5	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	8
06:30	1	5	0	0	6	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	8
06:45	1	4	0	0	5	1	0	0	0	1	0	1	0	0	1	0	1	0	0	1	1	8
<b>Total</b>	<b>2</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>33</b>
07:00	0	4	1	0	5	0	1	0	0	1	0	1	0	0	1	0	0	1	0	1	1	8
07:15	0	3	1	0	4	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	7
07:30	0	1	0	0	1	1	0	0	0	1	0	3	0	0	3	0	0	0	0	0	0	5
07:45	0	6	0	0	6	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	7
<b>Total</b>	<b>0</b>	<b>14</b>	<b>2</b>	<b>0</b>	<b>16</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>27</b>
08:00	1	3	1	0	5	0	0	0	0	0	0	1	0	0	1	0	1	2	0	3	3	9
08:15	0	5	1	0	6	1	0	1	0	2	0	3	0	0	3	0	0	1	0	1	1	12
08:30	0	1	2	0	3	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	8
08:45	0	0	1	0	1	1	1	1	0	3	0	1	0	0	1	0	0	0	0	0	0	5
<b>Total</b>	<b>1</b>	<b>9</b>	<b>5</b>	<b>0</b>	<b>15</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>34</b>
09:00	0	0	0	0	0	1	0	1	0	2	0	3	0	0	3	0	0	1	0	1	1	6
09:15	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	2
09:30	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	1	3
09:45	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	5
<b>Total</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>16</b>
10:00	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2
10:15	0	1	2	0	3	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	5
10:30	0	1	1	0	2	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	1	6
10:45	0	1	0	0	1	2	0	0	0	2	0	1	0	0	1	0	0	0	0	0	0	4
<b>Total</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>7</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>17</b>
11:00	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	1	3
11:15	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	1	5
11:30	0	1	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	1	0	1	1	5
11:45	0	1	1	0	2	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	7
<b>Total</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>10</b>	<b>1</b>	<b>0</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>20</b>
12:00	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	3
12:15	0	3	0	0	3	0	1	0	0	1	0	1	0	0	1	0	0	1	0	1	1	6
12:30	0	3	0	0	3	1	0	0	0	1	0	3	0	0	3	0	0	1	0	1	1	8



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

File Name : TMC 2249  
 Site Code :  
 Start Date : 08/01/2022  
 Page No : 3

Weather: Warm & Sunny  
 CountCAM 3  
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 9 (Round Lk. Blvd.) Southbound					CR 58 (181st Ave.) Westbound					CSAH 9 (Lake George Blvd.) Northbound					CR 58 (181st Ave.) Eastbound					Int. Total
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	
12:45	2	1	0	0	3	1	0	0	0	1	0	1	0	0	1	0	0	4	0	4	9
Total	2	8	0	0	10	2	1	0	0	3	0	6	0	0	6	0	1	6	0	7	26
13:00	0	1	0	0	1	0	0	1	0	1	0	2	0	0	2	0	1	1	0	2	6
13:15	0	1	0	0	1	0	0	0	0	0	0	3	1	0	4	0	0	2	0	2	7
13:30	0	1	2	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
13:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	4	2	0	6	0	0	1	0	1	0	6	1	0	7	0	1	3	0	4	18
14:00	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	6
14:15	0	1	1	0	2	0	1	0	0	1	0	1	0	0	1	0	0	2	0	2	6
14:30	0	2	0	0	2	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	5
14:45	0	3	0	0	3	1	0	0	0	1	0	1	0	0	1	0	1	1	0	2	7
Total	0	6	1	0	7	1	1	0	0	2	2	9	0	0	11	0	1	3	0	4	24
15:00	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
15:15	1	1	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
15:30	0	1	0	0	1	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	6
15:45	0	2	1	0	3	0	1	0	0	1	0	3	0	0	3	0	1	0	0	1	8
Total	1	5	1	0	7	0	1	0	0	1	1	12	0	0	13	0	1	0	0	1	22
16:00	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	4
16:15	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
16:30	0	0	1	0	1	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	4
16:45	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
Total	0	2	2	0	4	2	1	0	0	3	0	4	0	0	4	0	0	1	0	1	12
17:00	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
17:15	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
17:30	0	1	0	0	1	2	0	0	0	2	0	2	0	0	2	0	0	0	0	0	5
17:45	1	1	0	0	2	0	1	0	0	1	0	2	0	0	2	0	0	1	0	1	6
Total	2	2	0	0	4	2	1	0	0	3	0	8	0	0	8	0	0	1	0	1	16
18:00	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	2
18:15	0	0	0	0	0	1	0	0	0	1	0	4	0	0	4	0	0	0	0	0	5
18:30	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18:45	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	2
Total	1	0	0	0	1	2	1	0	0	3	0	6	0	0	6	0	0	0	0	0	10



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

File Name : TMC 2249  
 Site Code :  
 Start Date : 08/01/2022  
 Page No : 4

Weather: Warm & Sunny  
 CountCAM 3  
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 9 (Round Lk. Blvd.) Southbound					CR 58 (181st Ave.) Westbound					CSAH 9 (Lake George Blvd.) Northbound					CR 58 (181st Ave.) Eastbound					Int. Total	
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total		
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:15	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19:45	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
<b>Total</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>
20:00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
20:15	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
20:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20:45	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
21:30	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
21:45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1
<b>Total</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>
22:00	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
22:15	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
22:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
22:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total</b>	<b>9</b>	<b>93</b>	<b>19</b>	<b>0</b>	<b>121</b>	<b>19</b>	<b>9</b>	<b>5</b>	<b>0</b>	<b>33</b>	<b>6</b>	<b>104</b>	<b>2</b>	<b>1</b>	<b>113</b>	<b>1</b>	<b>7</b>	<b>25</b>	<b>0</b>	<b>33</b>	<b>300</b>	
Apprch %	7.4	76.9	15.7	0		57.6	27.3	15.2	0		5.3	92	1.8	0.9		3	21.2	75.8	0			
Total %	3	31	6.3	0	40.3	6.3	3	1.7	0	11	2	34.7	0.7	0.3	37.7	0.3	2.3	8.3	0	11		

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/21/2022

## Signal Warrants - Summary

---

### Major Street Approaches

Northbound: CSAH 9 (Lake George Blvd.)

Number of Lanes : 1

Total Approach Volume: 5,654

Southbound: CSAH 9 (Round Lk. Blvd.)

Number of Lanes : 1

Total Approach Volume: 5,672

### Minor Street Approaches

Eastbound: CR 58 (181st Ave.)

Number of Lanes : 1

Total Approach Volume: 595

Westbound: CR 58 (181st Ave.)

Number of Lanes : 1

Total Approach Volume: 1,073

---

### Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 2 hours, 8 are needed

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

Required volumes reached for 12 hours, 8 are needed

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

Required 1A volumes reached for 3 hours, 8 are needed

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

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

Number of hours (5) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (7) 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:

Study Date : 07/21/2022

## 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 2 one hour periods meet minimums.  
Warrant is NOT met.

#### Site Data Required

Rural Settings Apply = **True**  
Number of Major Lanes = **1**  
Number of Minor Lanes = **1**

#### Volume Requirements

Rural Factor of 70 % applied  
Veh/Hr Major = **350**  
  
Veh/Hr Minor = **105**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	<b>CSAH 9 (Lake George Blvd.)</b>					<b>CR 58 (181st Ave.)</b>		
17:00 - 18:00	667	+	330	=	997	52	127	Yes
16:00 - 17:00	704	+	283	=	987	55	106	Yes
15:45 - 16:45	695	+	297	=	992	48	97	No
15:30 - 16:30	677	+	293	=	970	51	91	No
15:15 - 16:15	654	+	286	=	940	56	77	No
15:00 - 16:00	642	+	273	=	915	54	74	No
14:45 - 15:45	630	+	261	=	891	58	69	No
14:30 - 15:30	584	+	267	=	851	51	62	No
14:15 - 15:15	522	+	274	=	796	46	69	No
14:00 - 15:00	468	+	281	=	749	44	73	No
06:30 - 07:30	118	+	583	=	701	31	43	No
18:00 - 19:00	483	+	215	=	698	40	74	No
06:45 - 07:45	129	+	566	=	695	35	42	No
06:15 - 07:15	88	+	607	=	695	28	40	No
07:00 - 08:00	140	+	551	=	691	36	52	No
13:45 - 14:45	404	+	278	=	682	35	74	No
06:00 - 07:00	81	+	577	=	658	21	46	No
07:15 - 08:15	136	+	513	=	649	36	58	No
13:15 - 14:15	358	+	282	=	640	34	68	No
13:00 - 14:00	325	+	312	=	637	35	67	No
13:30 - 14:30	360	+	276	=	636	36	74	No
18:15 - 19:15	427	+	200	=	627	43	67	No
07:30 - 08:30	126	+	493	=	619	38	48	No
12:45 - 13:45	312	+	304	=	616	39	69	No
12:30 - 13:30	309		300		609	37	67	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/21/2022

## 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

12 one hour periods meet minimums.  
Warrant IS met.

#### Site Data Required

Rural Settings Apply = **True**  
Number of Major Lanes = **1**  
Number of Minor Lanes = **1**

#### Volume Requirements

Rural Factor of 70 % applied  
Veh/Hr Major = **525**

Veh/Hr Minor = **52**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	<b>CSAH 9 (Lake George Blvd.)</b>					<b>CR 58 (181st Ave.)</b>		
16:30 - 17:30	714	+	303	=	1017	60	122	Yes
15:30 - 16:30	677	+	293	=	970	51	91	Yes
17:30 - 18:30	590	+	293	=	883	45	105	Yes
14:30 - 15:30	584	+	267	=	851	51	62	Yes
07:00 - 08:00	140	+	551	=	691	36	52	Yes
13:30 - 14:30	360	+	276	=	636	36	74	Yes
12:30 - 13:30	309	+	300	=	609	37	67	Yes
11:30 - 12:30	280	+	297	=	577	25	67	Yes
10:30 - 11:30	255	+	315	=	570	38	54	Yes
18:30 - 19:30	367	+	197	=	564	40	65	Yes
09:30 - 10:30	187	+	338	=	525	24	52	Yes
08:30 - 09:30	178	+	347	=	525	19	58	Yes
06:30 - 07:30	118	+	583	=	701	31	43	No
06:45 - 07:45	129	+	566	=	695	35	42	No
06:15 - 07:15	88	+	607	=	695	28	40	No
06:00 - 07:00	81	+	577	=	658	21	46	No
05:45 - 06:45	68	+	541	=	609	16	44	No
08:00 - 09:00	137	+	404	=	541	25	48	No
08:15 - 09:15	164	+	371	=	535	21	47	No
05:30 - 06:30	59	+	472	=	531	13	33	No
19:45 - 20:45	284	+	213	=	497	16	49	No
19:30 - 20:30	278	+	212	=	490	15	42	No
05:15 - 06:15	49	+	401	=	450	10	29	No
20:00 - 21:00	253	+	181	=	434	16	50	No
20:15 - 21:15	254		170		424	22	42	No



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/21/2022

## 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 3 hours meet 1A minimums.  
15 hours meet 1B minimums.  
Warrant is NOT met.

#### Site Data Required

Rural Settings Apply = **True**  
Number of Major Lanes = **1**  
Number of Minor Lanes = **1**

#### Volume Requirements

Rural Factor of 70% applied  
Warrant 1A 1B  
Veh/Hr Major = **280 420**

Veh/Hr Minor = **84 42**

#### Major Road CSAH 9 (Lake George Blvd.)

#### Minor Road CR 58 (181st Ave.)

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:30 - 17:30	714	+	303	=	1017	60	122	Yes
15:30 - 16:30	677	+	293	=	970	51	91	Yes
17:30 - 18:30	590	+	293	=	883	45	105	Yes
15:15 - 16:15	654	+	286	=	940	56	77	No
15:00 - 16:00	642	+	273	=	915	54	74	No
14:45 - 15:45	630	+	261	=	891	58	69	No
14:30 - 15:30	584	+	267	=	851	51	62	No
14:15 - 15:15	522	+	274	=	796	46	69	No
14:00 - 15:00	468	+	281	=	749	44	73	No
06:30 - 07:30	118	+	583	=	701	31	43	No
06:45 - 07:45	129	+	566	=	695	35	42	No
06:15 - 07:15	88	+	607	=	695	28	40	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:45 - 17:45	686	+	314	=	1000	63	127	Yes
15:45 - 16:45	695	+	297	=	992	48	97	Yes
14:45 - 15:45	630	+	261	=	891	58	69	Yes
17:45 - 18:45	527	+	259	=	786	39	88	Yes
06:45 - 07:45	129	+	566	=	695	35	42	Yes
13:45 - 14:45	404	+	278	=	682	35	74	Yes
12:45 - 13:45	312	+	304	=	616	39	69	Yes
05:45 - 06:45	68	+	541	=	609	16	44	Yes
07:45 - 08:45	139	+	438	=	577	29	46	Yes
11:45 - 12:45	288	+	286	=	574	24	66	Yes
10:45 - 11:45	261	+	312	=	573	40	55	Yes
09:45 - 10:45	209	+	332	=	541	26	55	Yes

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/21/2022

## 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.

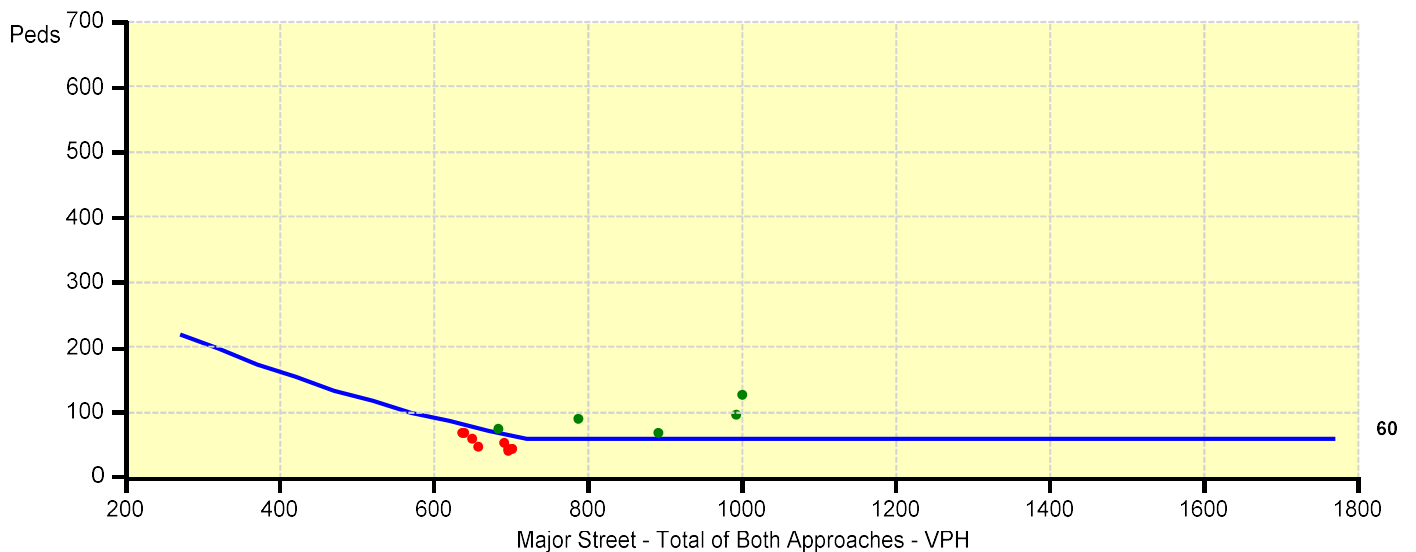
#### Summary

5 one hour periods meet minimums.  
Warrant IS met.

#### Site Data Required

Rural Settings Apply = **True**  
 Number of Major Lanes = **1**  
 Number of Minor Lanes = **1**

Time	Major Road CSAH 9 (Lake George Blvd.)					Minor Road CR 58 (181st Ave.)		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
16:45 - 17:45	686	+	314	=	1000	63	127	Yes
15:45 - 16:45	695	+	297	=	992	48	97	Yes
14:45 - 15:45	630	+	261	=	891	58	69	Yes
17:45 - 18:45	527	+	259	=	786	39	88	Yes
13:45 - 14:45	404	+	278	=	682	35	74	Yes
06:30 - 07:30	118	+	583	=	701	31	43	No
06:45 - 07:45	129	+	566	=	695	35	42	No
06:15 - 07:15	88	+	607	=	695	28	40	No
07:00 - 08:00	140	+	551	=	691	36	52	No
06:00 - 07:00	81	+	577	=	658	21	46	No
07:15 - 08:15	136	+	513	=	649	36	58	No
13:15 - 14:15	358	+	282	=	640	34	68	No



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 07/21/2022

## 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

9 one hour periods meet minimums.  
Warrant IS met.

#### Site Data Required

Rural Settings Apply = **True**  
 Number of Major Lanes = **1**  
 Number of Minor Lanes = **1**

Time	Major Road CSAH 9 (Lake George Blvd.)				Total	Minor Road CR 58 (181st Ave.)		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:30 - 17:30	714	+	303	=	1017	60	122	Yes
16:15 - 17:15	711	+	299	=	1010	60	117	Yes
16:45 - 17:45	686	+	314	=	1000	63	127	Yes
17:00 - 18:00	667	+	330	=	997	52	127	Yes
15:45 - 16:45	695	+	297	=	992	48	97	Yes
16:00 - 17:00	704	+	283	=	987	55	106	Yes
15:30 - 16:30	677	+	293	=	970	51	91	Yes
17:15 - 18:15	629	+	301	=	930	49	120	Yes
17:30 - 18:30	590	+	293	=	883	45	105	Yes
15:15 - 16:15	654	+	286	=	940	56	77	No
15:00 - 16:00	642	+	273	=	915	54	74	No
14:45 - 15:45	630	+	261	=	891	58	69	No

