

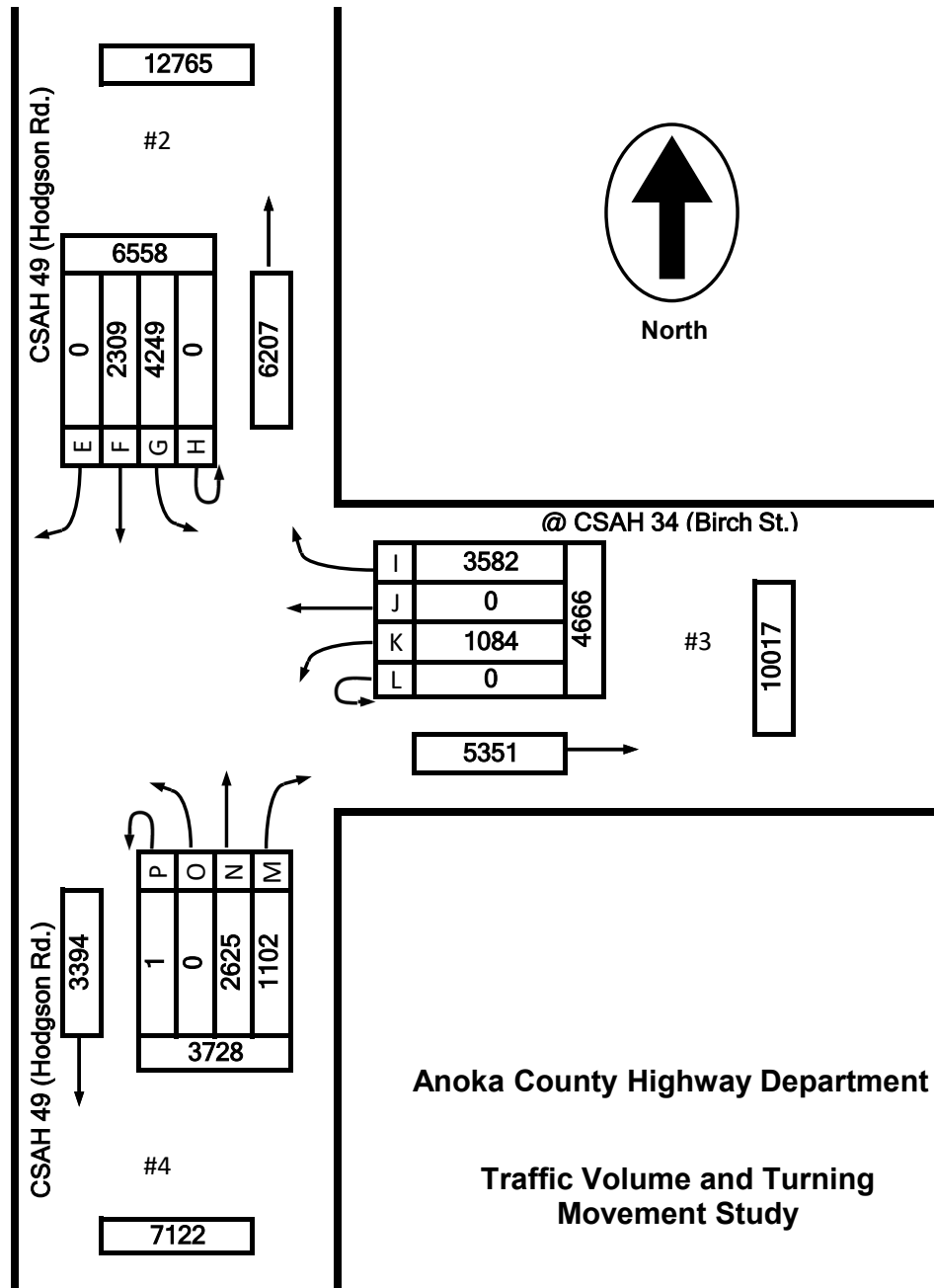
Date : 03/02/22

Count Number : TMC 2201

Location : CSAH 49 (Hodgson Rd.)
@ CSAH 34 (Birch St.)

Collection Period : 24 HR

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



Anoka County Highway Department

Traffic Volume and Turning
Movement Study

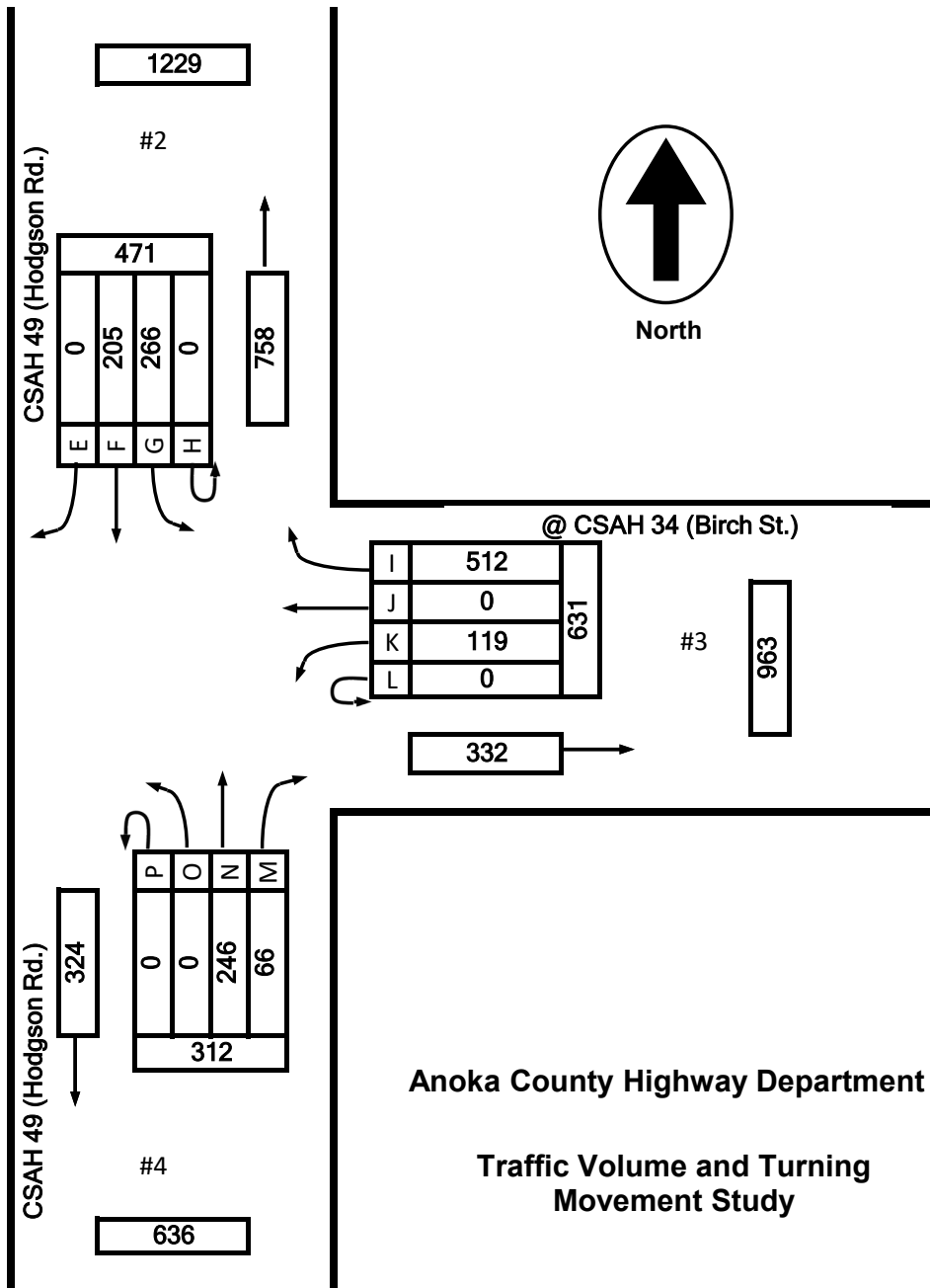
Date : 03/02/22

Count Number : TMC 2201

Location : CSAH 49 (Hodgson Rd.)
@ CSAH 34 (Birch St.)

Collection Period : 7 AM - 8 AM
AM PEAK

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



Anoka County Highway Department

Traffic Volume and Turning Movement Study

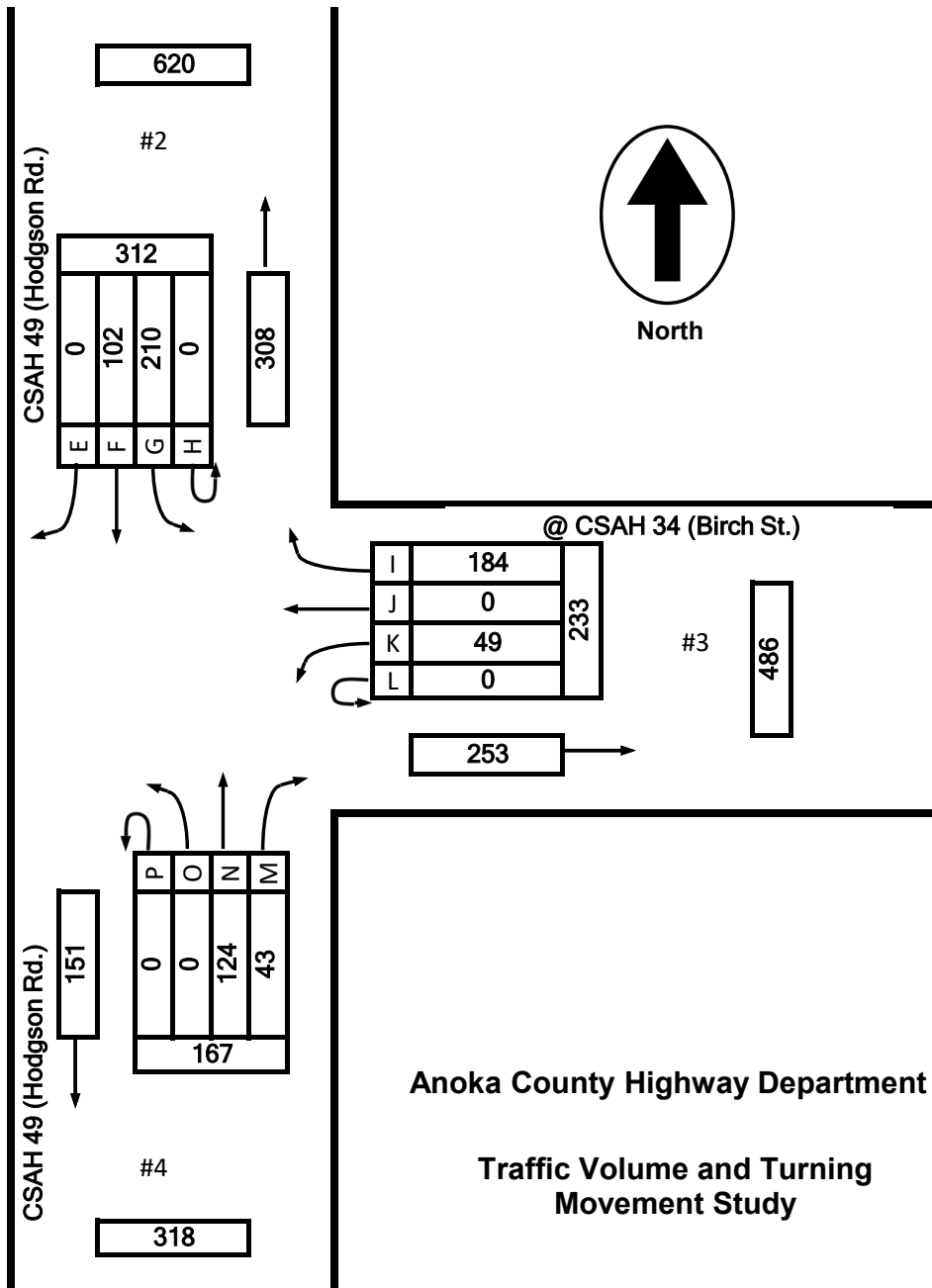
Date : 03/02/22

Count Number : TMC 2201

Location : CSAH 49 (Hodgson Rd.)
@ CSAH 34 (Birch St.)

Collection Period : 11:45 AM - 12:45 PM
MIDDAY PEAK

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



Anoka County Highway Department

Traffic Volume and Turning
 Movement Study

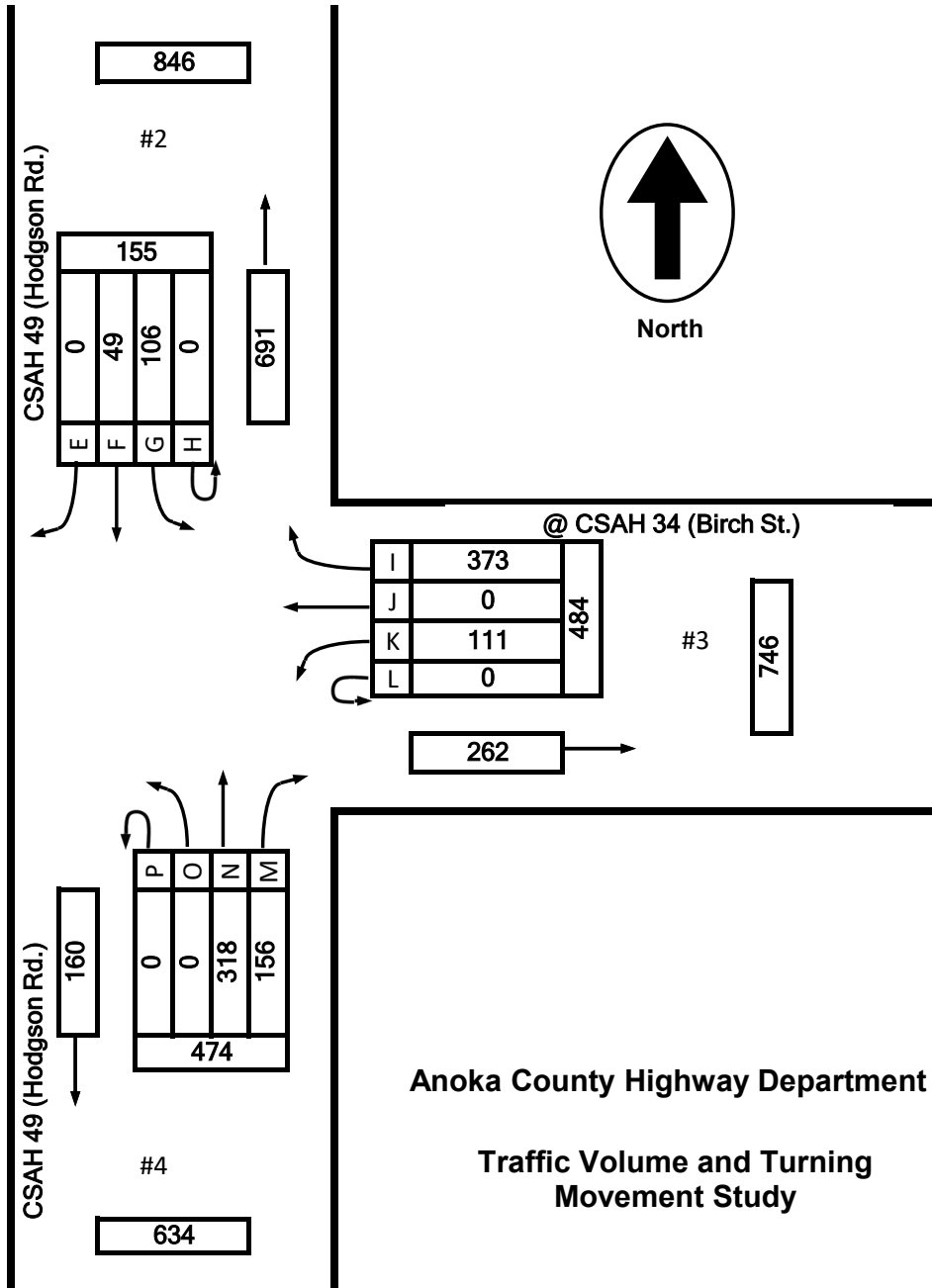
Date : 03/02/22

Count Number : TMC 2201

Location : CSAH 49 (Hodgson Rd.)
@ CSAH 34 (Birch St.)

Collection Period : 3:45 PM - 4:45 PM
 PM PEAK

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



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 2201
 Site Code :
 Start Date : 03/02/2022
 Page No : 1

Weather: Cold & Cloudy
 CountCAM 2
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 49 (Hodgson Rd) Southbound						CSAH 34 (Birch St) Westbound						CSAH 49 (Hodgson Rd) Northbound						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	2	5	0	0	7	1	0	1	0	0	2	1	4	0	0	0	5	0	0	0	0	0	0	0	0	14	14
00:15	0	3	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	4	4
00:30	0	1	1	0	0	2	2	0	1	0	0	3	0	2	0	0	0	2	0	0	0	0	0	0	0	0	7	7
00:45	0	3	1	0	0	4	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Total	0	9	7	0	0	16	4	0	2	0	0	6	1	7	0	0	0	8	0	0	0	0	0	0	0	0	30	30
01:00	0	0	2	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	5	5
01:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
01:30	0	0	2	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
01:45	0	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	3	3
Total	0	1	4	0	0	5	1	0	2	0	0	3	4	0	0	0	0	4	0	0	0	0	0	0	0	0	12	12
02:00	0	1	2	0	0	3	2	0	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0	0	0	0	7	7
02:15	0	0	0	0	0	0	2	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3	3
02:30	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
02:45	0	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Total	0	3	4	0	0	7	6	0	0	0	0	6	2	1	0	0	0	3	0	0	0	0	0	0	0	0	16	16
03:00	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
03:15	0	0	2	0	0	2	0	0	0	0	0	0	2	2	0	0	0	4	0	0	0	0	0	0	0	0	6	6
03:30	0	2	1	0	0	3	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
03:45	0	1	0	0	0	1	4	0	2	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Total	0	5	3	0	0	8	6	0	2	0	0	8	2	2	0	0	0	4	0	0	0	0	0	0	0	0	20	20
04:00	0	4	1	0	0	5	1	0	2	0	0	3	0	1	0	0	0	1	0	0	0	0	0	0	0	0	9	9
04:15	0	2	4	0	0	6	1	0	0	0	0	1	1	4	0	0	0	5	0	0	0	0	0	0	0	0	12	12
04:30	0	4	6	0	0	10	7	0	4	0	0	11	0	6	0	0	0	6	0	0	0	0	0	0	0	0	27	27
04:45	0	10	7	0	0	17	9	0	3	0	0	12	0	3	0	0	0	3	0	0	0	0	0	0	0	0	32	32
Total	0	20	18	0	0	38	18	0	9	0	0	27	1	14	0	0	0	15	0	0	0	0	0	0	0	0	80	80
05:00	0	11	7	0	0	18	8	0	5	0	0	13	1	7	0	0	0	8	0	0	0	0	0	0	0	0	39	39
05:15	0	12	5	0	0	17	12	0	8	0	0	20	5	9	0	0	0	14	0	0	0	0	0	0	0	0	51	51
05:30	0	15	12	0	0	27	18	0	11	0	0	29	1	11	0	0	0	12	0	0	0	0	0	0	0	0	68	68
05:45	0	13	11	0	0	24	13	0	15	0	0	28	2	18	0	1	0	21	0	0	0	0	0	0	0	0	73	73
Total	0	51	35	0	0	86	51	0	39	0	0	90	9	45	0	1	0	55	0	0	0	0	0	0	0	0	231	231



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2201
 Site Code :
 Start Date : 03/02/2022
 Page No : 2

Weather: Cold & Cloudy
 CountCAM 2
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 49 (Hodgson Rd) Southbound						CSAH 34 (Birch St) Westbound						CSAH 49 (Hodgson Rd) Northbound						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	0	24	21	0	0	45	20	0	19	0	0	39	1	7	0	0	0	8	0	0	0	0	0	0	0	0	92	92
06:15	0	33	26	0	0	59	28	0	23	0	0	51	5	12	0	0	0	17	0	0	0	0	0	0	0	0	127	127
06:30	0	46	23	0	0	69	36	0	27	0	0	63	4	22	0	0	0	26	0	0	0	0	0	0	0	0	158	158
06:45	0	52	33	0	0	85	63	0	25	0	0	88	6	26	0	0	0	32	0	0	0	0	0	0	0	0	205	205
Total	0	155	103	0	0	258	147	0	94	0	0	241	16	67	0	0	0	83	0	0	0	0	0	0	0	0	582	582
07:00	0	59	52	0	0	111	90	0	29	0	0	119	20	48	0	0	0	68	0	0	0	0	0	0	0	0	298	298
07:15	0	48	55	0	0	103	90	0	35	0	0	125	17	65	0	0	0	82	0	0	0	0	0	0	0	0	310	310
07:30	0	46	66	0	0	112	187	0	23	0	0	210	12	69	0	0	0	81	0	0	0	0	0	0	0	0	403	403
07:45	0	52	93	0	0	145	145	0	32	0	0	177	17	64	0	0	0	81	0	0	0	0	0	0	0	0	403	403
Total	0	205	266	0	0	471	512	0	119	0	0	631	66	246	0	0	0	312	0	0	0	0	0	0	0	0	1414	1414
08:00	0	66	65	0	0	131	75	0	40	0	0	115	14	31	0	0	0	45	0	0	0	0	0	0	0	0	291	291
08:15	0	42	54	0	0	96	47	0	18	0	0	65	14	35	0	0	0	49	0	0	0	0	0	0	0	0	210	210
08:30	0	30	53	0	0	83	50	0	15	0	0	65	19	25	0	0	0	44	0	0	0	0	0	0	0	0	192	192
08:45	0	30	95	0	0	125	67	0	24	0	0	91	25	30	0	0	0	55	0	0	0	0	0	0	0	0	271	271
Total	0	168	267	0	0	435	239	0	97	0	0	336	72	121	0	0	0	193	0	0	0	0	0	0	0	0	964	964
09:00	0	41	68	0	0	109	121	0	31	0	0	152	22	36	0	0	0	58	0	0	0	0	0	0	0	0	319	319
09:15	0	46	61	0	0	107	59	0	37	0	0	96	18	49	0	0	0	67	0	0	0	0	0	0	0	0	270	270
09:30	0	36	38	0	0	74	37	0	21	0	0	58	4	40	0	0	0	44	0	0	0	0	0	0	0	0	176	176
09:45	0	30	39	0	0	69	44	0	9	0	0	53	9	25	0	0	0	34	0	0	0	0	0	0	0	0	156	156
Total	0	153	206	0	0	359	261	0	98	0	0	359	53	150	0	0	0	203	0	0	0	0	0	0	0	0	921	921
10:00	0	31	42	0	0	73	38	0	12	0	0	50	5	17	0	0	0	22	0	0	0	0	0	0	0	0	145	145
10:15	0	26	42	0	0	68	30	0	8	0	0	38	5	26	0	0	0	31	0	0	0	0	0	0	0	0	137	137
10:30	0	26	25	0	0	51	35	0	18	0	0	53	6	25	0	0	0	31	0	0	0	0	0	0	0	0	135	135
10:45	0	25	46	0	0	71	46	0	9	0	0	55	13	22	0	0	0	35	0	0	0	0	0	0	0	0	161	161
Total	0	108	155	0	0	263	149	0	47	0	0	196	29	90	0	0	0	119	0	0	0	0	0	0	0	0	578	578
11:00	0	26	61	0	0	87	37	0	12	0	0	49	13	23	0	0	0	36	0	0	0	0	0	0	0	0	172	172
11:15	0	26	40	0	0	66	48	0	17	0	0	65	8	29	0	0	0	37	0	0	0	0	0	0	0	0	168	168
11:30	0	21	51	0	0	72	41	0	15	0	0	56	12	26	0	0	0	38	0	0	0	0	0	0	0	0	166	166
11:45	0	31	45	0	0	76	58	0	9	0	0	67	8	34	0	0	0	42	0	0	0	0	0	0	0	0	185	185
Total	0	104	197	0	0	301	184	0	53	0	0	237	41	112	0	0	0	153	0	0	0	0	0	0	0	0	691	691
12:00	0	26	61	0	1	87	36	0	16	0	0	52	10	30	0	0	0	40	0	0	0	0	0	0	0	1	179	180
12:15	0	21	64	0	0	85	43	0	11	0	0	54	14	26	0	0	0	40	0	0	0	0	0	0	0	0	179	179
12:30	0	24	40	0	0	64	47	0	13	0	0	60	11	34	0	0	0	45	0	0	0	0	0	0	0	0	169	169



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2201
 Site Code :
 Start Date : 03/02/2022
 Page No : 3

Weather: Cold & Cloudy
 CountCAM 2
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 49 (Hodgson Rd) Southbound						CSAH 34 (Birch St) Westbound						CSAH 49 (Hodgson Rd) Northbound						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	0	30	44	0	0	74	37	0	15	0	0	52	19	39	0	0	0	58	0	0	0	0	0	0	0	0	0	184	184
Total	0	101	209	0	1	310	163	0	55	0	0	218	54	129	0	0	0	183	0	0	0	0	0	0	0	0	1	711	712
13:00	0	31	48	0	0	79	35	0	16	0	0	51	10	25	0	0	0	35	0	0	0	0	0	0	0	0	0	165	165
13:15	0	32	55	0	0	87	31	0	7	0	0	38	12	32	0	0	0	44	0	0	0	0	0	0	0	0	0	169	169
13:30	0	28	39	0	1	67	41	0	10	0	0	51	14	27	0	0	0	41	0	0	0	0	0	0	0	1	159	160	
13:45	0	33	53	0	1	86	36	0	12	0	0	48	15	36	0	0	0	51	0	0	0	0	0	0	0	1	185	186	
Total	0	124	195	0	2	319	143	0	45	0	0	188	51	120	0	0	0	171	0	0	0	0	0	0	0	2	678	680	
14:00	0	37	56	0	0	93	37	0	12	0	0	49	15	41	0	0	0	56	0	0	0	0	0	0	0	0	0	198	198
14:15	0	32	52	0	0	84	51	0	14	0	0	65	12	42	0	0	0	54	0	0	0	0	0	0	0	0	0	203	203
14:30	0	53	57	0	0	110	41	0	17	0	0	58	15	85	0	0	1	100	0	0	0	0	0	0	0	1	268	269	
14:45	0	36	75	0	0	111	52	0	12	0	0	64	23	68	0	0	0	91	0	0	0	0	0	0	0	0	266	266	
Total	0	158	240	0	0	398	181	0	55	0	0	236	65	236	0	0	1	301	0	0	0	0	0	0	0	1	935	936	
15:00	0	57	162	0	0	219	46	0	8	0	0	54	27	68	0	0	0	95	0	0	0	0	0	0	0	0	0	368	368
15:15	0	45	123	0	0	168	52	0	18	0	0	70	34	49	0	0	0	83	0	0	0	0	0	0	0	0	0	321	321
15:30	0	53	116	0	0	169	77	0	12	0	0	89	48	55	0	0	0	103	0	0	0	0	0	0	0	0	0	361	361
15:45	0	49	112	0	0	161	120	0	29	0	1	149	41	75	0	0	0	116	0	0	0	0	0	0	0	1	426	427	
Total	0	204	513	0	0	717	295	0	67	0	1	362	150	247	0	0	0	397	0	0	0	0	0	0	0	1	1476	1477	
16:00	0	64	103	0	0	167	81	0	26	0	0	107	31	76	0	0	0	107	0	0	0	0	0	0	0	0	0	381	381
16:15	0	62	117	0	0	179	97	0	37	0	0	134	48	81	0	0	0	129	0	0	0	0	0	0	0	0	0	442	442
16:30	0	49	106	0	0	155	75	0	19	0	0	94	36	86	0	0	0	122	0	0	0	0	0	0	0	0	0	371	371
16:45	0	40	99	0	0	139	91	0	16	0	0	107	34	104	0	0	0	138	0	0	0	0	0	0	0	0	0	384	384
Total	0	215	425	0	0	640	344	0	98	0	0	442	149	347	0	0	0	496	0	0	0	0	0	0	0	0	0	1578	1578
17:00	0	53	120	0	0	173	94	0	19	0	0	113	40	73	0	0	0	113	0	0	0	0	0	0	0	0	0	399	399
17:15	0	48	120	0	0	168	80	0	16	0	0	96	36	88	0	0	0	124	0	0	0	0	0	0	0	0	0	388	388
17:30	0	30	104	0	0	134	61	0	15	0	0	76	27	65	0	0	0	92	0	0	0	0	0	0	0	0	0	302	302
17:45	0	32	102	0	0	134	52	0	10	0	0	62	36	57	0	0	0	93	0	0	0	0	0	0	0	0	0	289	289
Total	0	163	446	0	0	609	287	0	60	0	0	347	139	283	0	0	0	422	0	0	0	0	0	0	0	0	0	1378	1378
18:00	0	31	67	0	0	98	75	0	14	0	0	89	28	43	0	0	0	71	0	0	0	0	0	0	0	0	0	258	258
18:15	0	22	75	0	0	97	94	0	13	0	0	107	17	45	0	0	0	62	0	0	0	0	0	0	0	0	0	266	266
18:30	0	29	80	0	0	109	51	0	23	0	0	74	14	42	0	0	0	56	0	0	0	0	0	0	0	0	0	239	239
18:45	0	32	66	0	0	98	56	0	11	0	0	67	15	45	0	0	0	60	0	0	0	0	0	0	0	0	0	225	225
Total	0	114	288	0	0	402	276	0	61	0	0	337	74	175	0	0	0	249	0	0	0	0	0	0	0	0	0	988	988



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2201
 Site Code :
 Start Date : 03/02/2022
 Page No : 4

Weather: Cold & Cloudy
 CountCAM 2
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 49 (Hodgson Rd) Southbound						CSAH 34 (Birch St) Westbound						CSAH 49 (Hodgson Rd) Northbound						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	0	23	63	0	0	86	46	0	9	0	0	55	10	25	0	0	0	35	0	0	0	0	0	0	0	0	176	176
19:15	0	26	53	0	0	79	32	0	9	0	0	41	12	27	0	0	0	39	0	0	0	0	0	0	0	0	159	159
19:30	0	39	103	0	0	142	25	0	6	0	0	31	6	23	0	0	0	29	0	0	0	0	0	0	0	0	202	202
19:45	0	25	55	0	0	80	39	0	12	0	0	51	6	12	0	0	0	18	0	0	0	0	0	0	0	0	149	149
Total	0	113	274	0	0	387	142	0	36	0	0	178	34	87	0	0	0	121	0	0	0	0	0	0	0	0	686	686
20:00	0	10	73	0	0	83	36	0	8	0	0	44	10	22	0	0	0	32	0	0	0	0	0	0	0	0	159	159
20:15	0	13	51	0	0	64	27	0	8	0	0	35	16	21	0	0	0	37	0	0	0	0	0	0	0	0	136	136
20:30	0	14	44	0	0	58	18	0	1	0	0	19	12	12	0	0	0	24	0	0	0	0	0	0	0	0	101	101
20:45	0	13	31	0	0	44	16	0	2	0	0	18	8	13	0	0	0	21	0	0	0	0	0	0	0	0	83	83
Total	0	50	199	0	0	249	97	0	19	0	0	116	46	68	0	0	0	114	0	0	0	0	0	0	0	0	479	479
21:00	0	13	38	0	0	51	11	0	3	0	0	14	10	20	0	0	0	30	0	0	0	0	0	0	0	0	95	95
21:15	0	14	26	0	0	40	8	0	0	0	0	8	8	11	0	0	0	19	0	0	0	0	0	0	0	0	67	67
21:30	0	14	26	0	0	40	14	0	3	0	0	17	5	9	0	0	0	14	0	0	0	0	0	0	0	0	71	71
21:45	0	4	26	0	0	30	10	0	1	0	0	11	4	5	0	0	0	9	0	0	0	0	0	0	0	0	50	50
Total	0	45	116	0	0	161	43	0	7	0	0	50	27	45	0	0	0	72	0	0	0	0	0	0	0	0	283	283
22:00	0	8	19	0	0	27	7	0	0	0	0	7	4	4	0	0	0	8	0	0	0	0	0	0	0	0	42	42
22:15	0	8	18	0	0	26	8	0	5	0	0	13	2	4	0	0	0	6	0	0	0	0	0	0	0	0	45	45
22:30	0	2	11	0	0	13	6	0	4	0	0	10	2	11	0	0	0	13	0	0	0	0	0	0	0	0	36	36
22:45	0	7	11	0	0	18	2	0	0	0	0	2	1	2	0	0	0	3	0	0	0	0	0	0	0	0	23	23
Total	0	25	59	0	0	84	23	0	9	0	0	32	9	21	0	0	0	30	0	0	0	0	0	0	0	0	146	146
23:00	0	5	7	0	0	12	0	0	1	0	0	1	2	4	0	0	0	6	0	0	0	0	0	0	0	0	19	19
23:15	0	3	8	0	0	11	2	0	4	0	0	6	3	6	0	0	0	9	0	0	0	0	0	0	0	0	26	26
23:30	0	6	2	0	0	8	4	0	2	0	0	6	3	1	0	0	0	4	0	0	0	0	0	0	0	0	18	18
23:45	0	1	3	0	0	4	4	0	3	0	0	7	0	1	0	0	0	1	0	0	0	0	0	0	0	0	12	12
Total	0	15	20	0	0	35	10	0	10	0	0	20	8	12	0	0	0	20	0	0	0	0	0	0	0	0	75	75
Grand Total	0	2309	4249	0	3	6558	3582	0	1084	0	1	4666	1102	2625	0	1	1	3728	0	0	0	0	0	0	0	5	14952	14957
Apprch %	0	35.2	64.8	0			76.8	0	23.2	0			29.6	70.4	0	0			0	0	0	0						
Total %	0	15.4	28.4	0		43.9	24	0	7.2	0		31.2	7.4	17.6	0	0	24.9		0	0	0	0	0		0	100		
Cars +	0	2191	4154	0		6348	3509	0	1022	0		4532	1054	2493	0	1	3549		0	0	0	0	0		0	0	14429	
% Cars +	0	94.9	97.8	0	100	96.8	98	0	94.3	0	100	97.1	95.6	95	0	100	100	95.2		0	0	0	0		0	0	96.5	
Trucks	0	118	95	0		213	73	0	62	0		135	48	132	0	0	180		0	0	0	0	0		0	0	528	
% Trucks	0	5.1	2.2	0	0	3.2	2	0	5.7	0	0	2.9	4.4	5	0	0	4.8		0	0	0	0	0		0	0	3.5	



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2201
 Site Code :
 Start Date : 03/02/2022
 Page No : 1

Weather: Cold & Cloudy
 CountCAM 2
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 49 (Hodgson Rd) Southbound					CSAH 34 (Birch St) Westbound					CSAH 49 (Hodgson Rd) Northbound					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	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	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
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
06:00	0	0	1	0	1	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3
06:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	0	6
06:45	0	1	2	0	3	1	0	0	0	1	1	2	0	0	3	0	0	0	0	0	0	7
Total	0	1	3	0	4	2	0	1	0	3	2	7	0	0	9	0	0	0	0	0	0	16
07:00	0	1	2	0	3	0	0	1	0	1	9	15	0	0	24	0	0	0	0	0	0	28
07:15	0	0	3	0	3	0	0	1	0	1	8	14	0	0	22	0	0	0	0	0	0	26
07:30	0	1	0	0	1	12	0	0	0	12	0	6	0	0	6	0	0	0	0	0	0	19
07:45	0	3	0	0	3	4	0	0	0	4	0	1	0	0	1	0	0	0	0	0	0	8
Total	0	5	5	0	10	16	0	2	0	18	17	36	0	0	53	0	0	0	0	0	0	81
08:00	0	9	7	0	16	2	0	0	0	2	3	2	0	0	5	0	0	0	0	0	0	23
08:15	0	7	3	0	10	1	0	0	0	1	2	3	0	0	5	0	0	0	0	0	0	16
08:30	0	1	3	0	4	2	0	1	0	3	4	2	0	0	6	0	0	0	0	0	0	13
08:45	0	3	1	0	4	0	0	1	0	1	1	2	0	0	3	0	0	0	0	0	0	8
Total	0	20	14	0	34	5	0	2	0	7	10	9	0	0	19	0	0	0	0	0	0	60
09:00	0	16	2	0	18	2	0	8	0	10	2	2	0	0	4	0	0	0	0	0	0	32



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2201
 Site Code :
 Start Date : 03/02/2022
 Page No : 2

Weather: Cold & Cloudy
 CountCAM 2
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 49 (Hodgson Rd) Southbound					CSAH 34 (Birch St) Westbound					CSAH 49 (Hodgson Rd) Northbound					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	
09:15	0	14	7	0	21	1	0	13	0	14	0	1	0	0	1	0	0	0	0	0	36
09:30	0	2	3	0	5	0	0	3	0	3	0	2	0	0	2	0	0	0	0	0	10
09:45	0	1	1	0	2	3	0	0	0	3	1	1	0	0	2	0	0	0	0	0	7
Total	0	33	13	0	46	6	0	24	0	30	3	6	0	0	9	0	0	0	0	0	85
10:00	0	2	2	0	4	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	6
10:15	0	0	2	0	2	1	0	0	0	1	1	3	0	0	4	0	0	0	0	0	7
10:30	0	2	1	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
10:45	0	0	2	0	2	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	5
Total	0	4	7	0	11	3	0	0	0	3	4	5	0	0	9	0	0	0	0	0	23
11:00	0	2	2	0	4	3	0	1	0	4	0	3	0	0	3	0	0	0	0	0	11
11:15	0	1	2	0	3	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	5
11:30	0	1	0	0	1	2	0	1	0	3	0	0	0	0	0	0	0	0	0	0	4
11:45	0	2	2	0	4	4	0	0	0	4	0	2	0	0	2	0	0	0	0	0	10
Total	0	6	6	0	12	9	0	3	0	12	0	6	0	0	6	0	0	0	0	0	30
12:00	0	1	4	0	5	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	7
12:15	0	0	2	0	2	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4
12:30	0	0	2	0	2	2	0	1	0	3	0	0	0	0	0	0	0	0	0	0	5
12:45	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
Total	0	3	8	0	11	6	0	1	0	7	1	0	0	0	1	0	0	0	0	0	19
13:00	0	0	1	0	1	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
13:15	0	1	1	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
13:30	0	1	0	0	1	2	0	0	0	2	1	1	0	0	2	0	0	0	0	0	5
13:45	0	0	1	0	1	3	0	0	0	3	0	1	0	0	1	0	0	0	0	0	5
Total	0	2	3	0	5	8	0	0	0	8	1	2	0	0	3	0	0	0	0	0	16
14:00	0	2	2	0	4	2	0	1	0	3	0	3	0	0	3	0	0	0	0	0	10
14:15	0	0	1	0	1	0	0	0	0	0	1	6	0	0	7	0	0	0	0	0	8
14:30	0	1	1	0	2	0	0	1	0	1	0	25	0	0	25	0	0	0	0	0	28
14:45	0	1	2	0	3	2	0	1	0	3	1	17	0	0	18	0	0	0	0	0	24
Total	0	4	6	0	10	4	0	3	0	7	2	51	0	0	53	0	0	0	0	0	70
15:00	0	2	2	0	4	4	0	1	0	5	0	1	0	0	1	0	0	0	0	0	10
15:15	0	7	18	0	25	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	27
15:30	0	2	1	0	3	3	0	0	0	3	1	1	0	0	2	0	0	0	0	0	8
15:45	0	2	0	0	2	0	0	3	0	3	0	1	0	0	1	0	0	0	0	0	6
Total	0	13	21	0	34	7	0	4	0	11	3	3	0	0	6	0	0	0	0	0	51
16:00	0	12	2	0	14	0	0	8	0	8	1	1	0	0	2	0	0	0	0	0	24
16:15	0	9	3	0	12	0	0	8	0	8	0	1	0	0	1	0	0	0	0	0	21
16:30	0	4	1	0	5	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	6
16:45	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	2
Total	0	25	6	0	31	0	0	17	0	17	3	2	0	0	5	0	0	0	0	0	53
17:00	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
17:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17:30	0	0	0	0	0	1	0	1	0	2	1	2	0	0	3	0	0	0	0	0	5
17:45	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
Total	0	1	0	0	1	1	0	3	0	4	1	5	0	0	6	0	0	0	0	0	11
18:00	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
18:15	0	0	1	0	1	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
18:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	2	0	2	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	5



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2201
 Site Code :
 Start Date : 03/02/2022
 Page No : 3

Weather: Cold & Cloudy
 CountCAM 2
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 49 (Hodgson Rd) Southbound					CSAH 34 (Birch St) Westbound					CSAH 49 (Hodgson Rd) Northbound					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	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
19:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:45	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	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20:15	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
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	1	0	0	0	1	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:45	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
22:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:45	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1	0	1	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	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	118	95	0	213	73	0	62	0	135	48	132	0	0	180	0	0	0	0	0	0	528
Apprch %	0	55.4	44.6	0		54.1	0	45.9	0		26.7	73.3	0	0		0	0	0	0			
Total %	0	22.3	18	0	40.3	13.8	0	11.7	0	25.6	9.1	25	0	0	34.1	0	0	0	0	0		

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2201

Study Date : 07/07/2022

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 49 (Hodgson Rd)

Number of Lanes : 1

Total Approach Volume: 3,728

Southbound: CSAH 49 (Hodgson Rd)

Number of Lanes : 1

Total Approach Volume: 6,558

Minor Street Approaches

Westbound: CSAH 34 (Birch St)

Number of Lanes : 1

Total Approach Volume: 4,666

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 14 hours, 8 are needed

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

Required volumes reached for 9 hours, 8 are needed

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

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

Required 1B volumes reached for 13 hours, 8 are needed

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

Number of hours (14) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (48) volumes exceed minimum >= required (1). Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Satisfied

Volumes exceed minimums for at least one hour period.

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

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

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

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

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

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

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2201

Study Date : 07/07/2022

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

14 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 = **350**

Veh/Hr Minor = **105**

Time	Major Road				Total	Minor EB	Minor Road		Met?
	Major NB	+	Major SB	=			Minor WB		
	CSAH 49 (Hodgson Rd)						CSAH 34 (Birch St)		
16:15 - 17:15	502	+	646	=	1148	0	448		Yes
15:15 - 16:15	409	+	665	=	1074	0	415		Yes
17:15 - 18:15	380	+	534	=	914	0	323		Yes
14:15 - 15:15	340	+	524	=	864	0	241		Yes
07:15 - 08:15	289	+	491	=	780	0	627		Yes
08:15 - 09:15	206	+	413	=	619	0	373		Yes
18:15 - 19:15	213	+	390	=	603	0	303		Yes
13:15 - 14:15	192	+	333	=	525	0	186		Yes
19:15 - 20:15	118	+	384	=	502	0	167		Yes
09:15 - 10:15	167	+	323	=	490	0	257		Yes
12:15 - 13:15	178	+	302	=	480	0	217		Yes
06:15 - 07:15	143	+	324	=	467	0	321		Yes
11:15 - 12:15	157	+	301	=	458	0	240		Yes
10:15 - 11:15	133	+	277	=	410	0	195		Yes
06:00 - 07:00	83	+	258	=	341	0	241		No
20:15 - 21:15	112	+	217	=	329	0	86		No
20:30 - 21:30	94	+	193	=	287	0	59		No
05:45 - 06:45	72	+	197	=	269	0	181		No
20:45 - 21:45	84	+	175	=	259	0	57		No
21:00 - 22:00	72	+	161	=	233	0	50		No
05:30 - 06:30	58	+	155	=	213	0	147		No
21:15 - 22:15	50	+	137	=	187	0	43		No
05:15 - 06:15	55	+	113	=	168	0	116		No
21:30 - 22:30	37	+	123	=	160	0	48		No
05:00 - 06:00	55		86		141	0	90		No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2201

Study Date : 07/07/2022

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

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**

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	
	CSAH 49 (Hodgson Rd)					CSAH 34 (Birch St)		
16:15 - 17:15	502	+	646	=	1148	0	448	Yes
15:15 - 16:15	409	+	665	=	1074	0	415	Yes
17:15 - 18:15	380	+	534	=	914	0	323	Yes
14:15 - 15:15	340	+	524	=	864	0	241	Yes
07:30 - 08:30	256	+	484	=	740	0	567	Yes
08:30 - 09:30	224	+	424	=	648	0	404	Yes
18:15 - 19:15	213	+	390	=	603	0	303	Yes
06:30 - 07:30	208	+	368	=	576	0	395	Yes
13:15 - 14:15	192	+	333	=	525	0	186	Yes
19:15 - 20:15	118	+	384	=	502	0	167	No
12:00 - 13:00	183	+	310	=	493	0	218	No
13:00 - 14:00	171	+	319	=	490	0	188	No
12:30 - 13:30	182	+	304	=	486	0	201	No
12:45 - 13:45	178	+	307	=	485	0	192	No
19:30 - 20:30	116	+	369	=	485	0	161	No
12:15 - 13:15	178	+	302	=	480	0	217	No
11:30 - 12:30	160	+	320	=	480	0	229	No
11:45 - 12:45	167	+	312	=	479	0	233	No
06:15 - 07:15	143	+	324	=	467	0	321	No
11:15 - 12:15	157	+	301	=	458	0	240	No
11:00 - 12:00	153	+	301	=	454	0	237	No
10:45 - 11:45	146	+	296	=	442	0	225	No
09:30 - 10:30	131	+	284	=	415	0	199	No
10:30 - 11:30	139	+	275	=	414	0	222	No
10:15 - 11:15	133		277		410	0	195	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2201

Study Date : 07/07/2022

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

15 hours meet 1A minimums.
13 hours meet 1B 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
Warrant 1A 1B
Veh/Hr Major = **280 420**

Veh/Hr Minor = **84 42**

Major Road CSAH 49 (Hodgson Rd)

Minor Road CSAH 34 (Birch St)

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:00 - 17:00	496	+	640	=	1136	0	442	Yes
15:00 - 16:00	397	+	717	=	1114	0	362	Yes
17:00 - 18:00	422	+	609	=	1031	0	347	Yes
07:00 - 08:00	312	+	471	=	783	0	631	Yes
14:00 - 15:00	301	+	398	=	699	0	236	Yes
18:00 - 19:00	249	+	402	=	651	0	337	Yes
08:00 - 09:00	193	+	435	=	628	0	336	Yes
09:00 - 10:00	203	+	359	=	562	0	359	Yes
19:00 - 20:00	121	+	387	=	508	0	178	Yes
12:00 - 13:00	183	+	310	=	493	0	218	Yes
13:00 - 14:00	171	+	319	=	490	0	188	Yes
11:00 - 12:00	153	+	301	=	454	0	237	Yes

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	474	+	662	=	1136	0	484	Yes
16:45 - 17:45	467	+	614	=	1081	0	392	Yes
14:45 - 15:45	372	+	667	=	1039	0	277	Yes
07:15 - 08:15	289	+	491	=	780	0	627	Yes
17:45 - 18:45	282	+	438	=	720	0	332	Yes
13:45 - 14:45	261	+	373	=	634	0	220	Yes
08:15 - 09:15	206	+	413	=	619	0	373	Yes
18:45 - 19:45	163	+	405	=	568	0	194	Yes
09:15 - 10:15	167	+	323	=	490	0	257	Yes
12:45 - 13:45	178	+	307	=	485	0	192	Yes
11:45 - 12:45	167	+	312	=	479	0	233	Yes
06:15 - 07:15	143	+	324	=	467	0	321	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2201

Study Date : 07/07/2022

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.

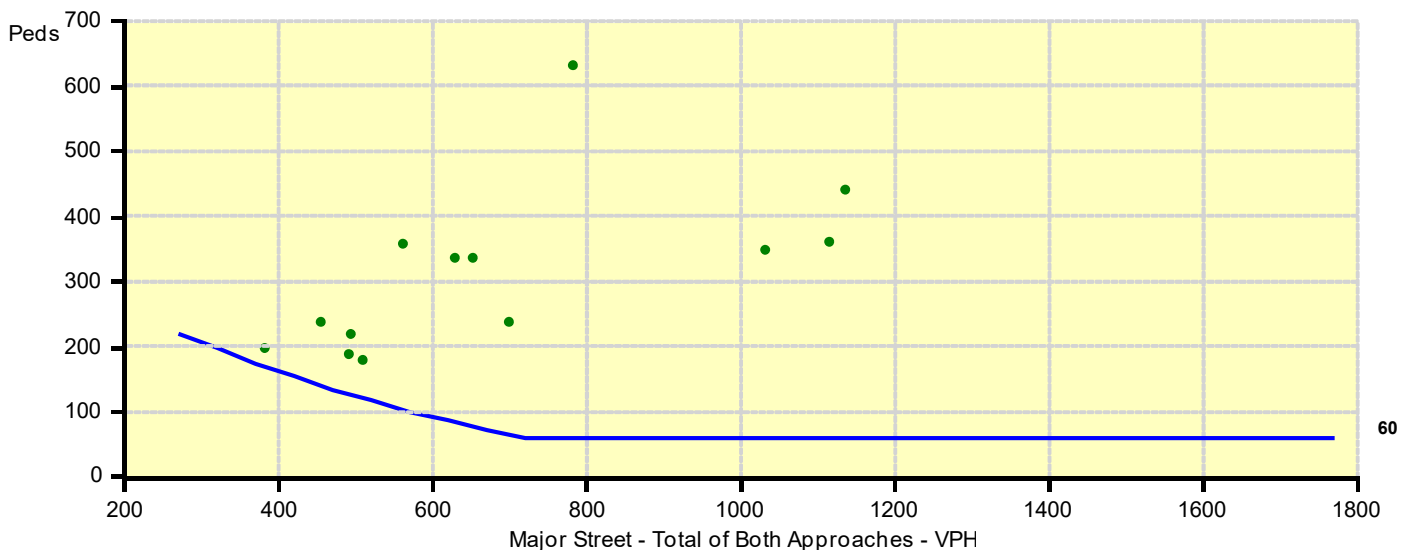
Summary

14 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					Minor Road			Met?
	CSAH 49 (Hodgson Rd)					CSAH 34 (Birch St)			
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB		
16:00 - 17:00	496	+	640	=	1136	0	442	Yes	
15:00 - 16:00	397	+	717	=	1114	0	362	Yes	
17:00 - 18:00	422	+	609	=	1031	0	347	Yes	
07:00 - 08:00	312	+	471	=	783	0	631	Yes	
14:00 - 15:00	301	+	398	=	699	0	236	Yes	
18:00 - 19:00	249	+	402	=	651	0	337	Yes	
08:00 - 09:00	193	+	435	=	628	0	336	Yes	
09:00 - 10:00	203	+	359	=	562	0	359	Yes	
19:00 - 20:00	121	+	387	=	508	0	178	Yes	
12:00 - 13:00	183	+	310	=	493	0	218	Yes	
13:00 - 14:00	171	+	319	=	490	0	188	Yes	
11:00 - 12:00	153	+	301	=	454	0	237	Yes	



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2201

Study Date : 07/07/2022

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

38 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 49 (Hodgson Rd)					Minor Road CSAH 34 (Birch St)		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
16:15 - 17:15	502	+	646	=	1148	0	448	Yes
16:00 - 17:00	496	+	640	=	1136	0	442	Yes
15:45 - 16:45	474	+	662	=	1136	0	484	Yes
16:30 - 17:30	497	+	635	=	1132	0	410	Yes
15:30 - 16:30	455	+	676	=	1131	0	479	Yes
15:00 - 16:00	397	+	717	=	1114	0	362	Yes
16:45 - 17:45	467	+	614	=	1081	0	392	Yes
15:15 - 16:15	409	+	665	=	1074	0	415	Yes
14:45 - 15:45	372	+	667	=	1039	0	277	Yes
17:00 - 18:00	422	+	609	=	1031	0	347	Yes
14:30 - 15:30	369	+	608	=	977	0	246	Yes
17:15 - 18:15	380	+	534	=	914	0	323	Yes

