

Date : 02/21/13

Count Number : TMC1307

Location : CSAH 1 (Coon Rapids Blvd.)

@111th Ave.

Collection Period : PEAK HOURS

6:30-9 AM, 12-2 PM, & 3:45-6:30 PM

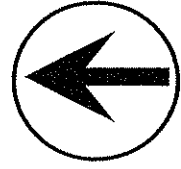
111th Ave.

921

#2

384		
238	T	
31	M	
115	D	

537



North

CSAH 1

315	G
4754	H
134	J
5203	

9725

#3

4522

4940

#1

9104

4164			
200	C		
3933	B		
31	A		

CSAH 1

351	K
22	L
71	M
444	

196

#4

640

111th Ave.

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

Anoka County Highway Department

Traffic Volume and Turning

Movement Study

Date : 02/21/13

Count Number : TMC1307

Location : CSAH 1 (Coon Rapids Blvd.)

@111th Ave.

Collection Period : AM PEAK

Hour : 7:30 - 8:30 AM

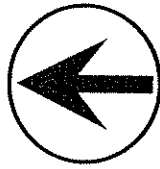
111th Ave.

34

#2

6		
3	D	
1	E	
2	F	

28



North

CSAH 1

16	G
630	H
16	J

1366

#3

704

636

#1

1314

678		
2	A	
666	B	
10	C	

CSAH 1

111th Ave.

19

#4

60

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

36	K
2	L
3	M
41	

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 02/21/13

Count Number : TMC1307

Location : CSAH 1 (Coon Rapids Blvd.)

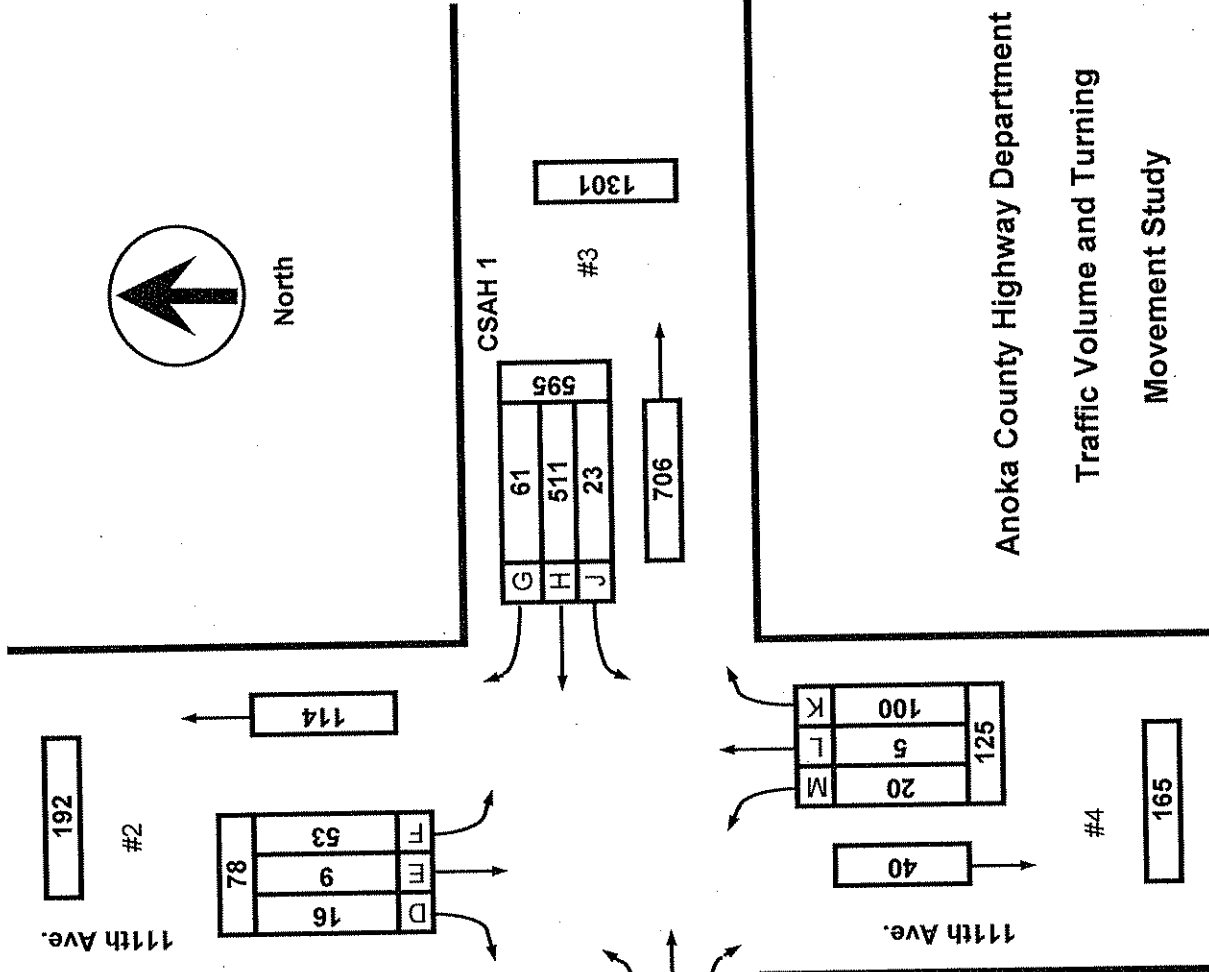
@111th Ave.

Collection Period : MIDDAY PEAK

Hour : 1:00 PM - 2:00 PM



North



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

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 02/21/13

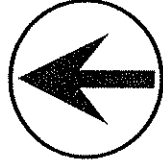
Count Number : TMC1307

Location : CSAH 1 (Coon Rapids Blvd.)

@111th Ave.

Collection Period : PM PEAK

Hour : 4:30 PM - 5:30 PM



North

161

#2

111th Ave.

66		
36	T	T
4	T	T
26	D	

95

CSAH 1

58	G
1059	H
21	J
1138	

1819

#3

681

1092

#1

1744

652		
35	C	
612	B	
5	A	

CSAH 1

33	K
2	L
7	M
42	

30

111th Ave.

#4

72

EXISTING LANES OF APPROACH				TOTAL
RIGHT TURN LANE	LEFT TURN LANE	THRU LANES		
1	1	2		4
0	0	1		1
1	1	2		4
0	1	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 1307
 Site Code : 13070203
 Start Date : 02/21/2013
 Page No : 1

Weather: Cold and PCloudy
 Counter: DB-400
 Study Conducted By: Ted and Andrea

Groups Printed- Unshifted

Start Time	111th Ave. Southbound					CSAH 1 Westbound					111th Ave. Northbound					CSAH 1 Eastbound					Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavys	App. Total	Left	Thru	Right	Heavys	App. Total	Left	Thru	Right	Heavys	App. Total	Left	Thru	Right	Heavys	App. Total			
06:30 AM	1	0	0	0	1	1	79	1	1	81	1	0	5	0	6	2	150	1	5	153	6	241	247
06:45 AM	0	0	0	0	0	2	82	0	2	84	0	0	9	0	9	2	130	0	8	132	10	225	235
Total	1	0	0	0	1	3	161	1	3	165	1	0	14	0	15	4	280	1	13	285	16	466	482
07:00 AM	1	0	1	0	2	4	77	0	1	81	1	0	8	0	9	2	127	0	7	129	8	221	229
07:15 AM	1	0	0	0	1	4	121	0	3	125	0	0	8	0	8	1	172	0	6	173	9	307	316
07:30 AM	1	0	1	0	2	6	201	4	11	211	1	0	11	0	12	3	160	0	9	163	20	388	408
07:45 AM	1	0	0	0	1	8	216	3	14	227	1	0	10	0	11	3	158	2	7	163	21	402	423
Total	4	0	2	0	6	22	615	7	29	644	3	0	37	0	40	9	617	2	29	628	58	1318	1376
08:00 AM	0	0	0	0	0	2	104	0	3	106	0	0	6	0	6	1	153	0	4	154	7	266	273
08:15 AM	0	1	2	1	3	0	109	9	4	118	1	2	9	0	12	3	195	0	7	198	12	331	343
08:30 AM	2	0	1	0	3	8	122	5	2	135	0	2	2	0	4	3	123	1	3	127	5	269	274
08:45 AM	5	0	1	0	6	7	152	9	10	168	2	1	8	0	11	5	124	1	5	130	15	315	330
Total	7	1	4	1	12	17	487	23	19	527	3	5	25	0	33	12	595	2	19	609	39	1181	1220
*** BREAK ***																							
12:00 PM	15	1	8	0	24	1	113	16	2	130	4	2	30	0	36	8	125	1	4	134	6	324	330
12:15 PM	12	3	5	0	20	6	119	15	4	140	5	1	11	0	17	9	99	1	6	109	10	286	296
12:30 PM	14	0	7	0	21	3	131	11	5	145	0	1	10	0	11	10	120	1	5	131	10	308	318
12:45 PM	12	1	6	0	19	4	154	17	6	175	11	1	32	0	44	6	119	1	3	126	9	364	373
Total	53	5	26	0	84	14	517	59	17	590	20	5	83	0	108	33	463	4	18	500	35	1282	1317
01:00 PM	11	0	6	0	17	1	129	15	4	145	9	2	31	1	42	12	161	1	3	174	8	378	386
01:15 PM	12	3	4	1	19	9	118	21	7	148	2	2	9	0	13	13	98	1	4	112	12	292	304
01:30 PM	17	1	6	0	24	5	116	13	2	134	1	0	18	0	19	10	118	3	4	131	6	308	314
01:45 PM	13	5	0	2	18	8	148	12	6	168	8	1	42	1	51	13	176	3	19	192	28	429	457
Total	53	9	16	3	78	23	511	61	19	595	20	5	100	2	125	48	553	8	30	609	54	1407	1461
*** BREAK ***																							
03:45 PM	14	3	7	0	24	2	184	24	8	210	5	0	7	0	12	11	128	3	2	142	10	388	398
Total	14	3	7	0	24	2	184	24	8	210	5	0	7	0	12	11	128	3	2	142	10	388	398
04:00 PM	21	1	5	0	27	8	175	15	4	198	1	1	13	0	15	6	140	2	6	148	10	388	398
04:15 PM	10	2	2	0	14	4	193	12	6	209	3	0	10	0	13	11	129	1	5	141	11	377	388
04:30 PM	12	2	6	0	20	6	270	14	3	290	0	1	13	0	14	11	180	2	4	193	7	517	524
04:45 PM	11	1	3	0	15	3	272	17	11	292	1	0	8	0	9	12	168	0	3	180	14	496	510
Total	54	6	16	0	76	21	910	58	24	989	5	2	44	0	51	40	617	5	18	662	42	1778	1820
05:00 PM	4	1	7	0	12	7	268	9	3	284	2	0	8	0	10	6	139	1	0	146	3	452	455
05:15 PM	9	0	10	4	19	5	249	18	3	272	4	1	4	0	9	6	125	2	2	133	9	433	442
05:30 PM	9	1	4	0	14	6	227	13	2	246	3	2	8	0	13	8	106	0	2	114	4	387	391
05:45 PM	9	3	5	0	17	6	230	15	4	251	3	0	4	0	7	8	88	0	0	96	4	371	375
Total	31	5	26	4	62	24	974	55	12	1053	12	3	24	0	39	28	458	3	4	489	20	1643	1663
06:00 PM	10	0	7	0	17	4	182	16	1	202	2	1	9	0	12	7	106	2	0	115	1	346	347
06:15 PM	11	2	11	0	24	4	213	11	1	228	0	1	8	0	9	8	116	1	2	125	3	386	389
Grand Total	238	31	115	8	384	134	4754	315	133	5203	71	22	351	2	444	200	3933	31	135	4164	278	10195	10473
Apprch %	62	8.1	29.9			2.6	91.4	6.1			16	5	79.1			4.8	94.5	0.7				2.7	97.3
Total %	2.3	0.3	1.1		3.8	1.3	46.6	3.1		51	0.7	0.2	3.4		4.4	2	38.6	0.3		40.8			



Anoka County Highway Department

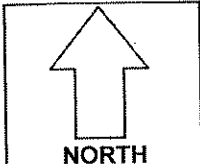
Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 1307
 Site Code : 13070203
 Start Date : 02/21/2013
 Page No : 2

Weather: Cold and PCloudy
 Counter: DB-400
 Study Conducted By: Ted and Andrea

Start Time	111th Ave. Southbound				CSAH 1 Westbound				111th Ave. Northbound				CSAH 1 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 06:30 AM to 09:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	1	0	1	2	6	201	4	211	1	0	11	12	3	160	0	163	388
07:45 AM	1	0	0	1	8	216	3	227	1	0	10	11	3	158	2	163	402
08:00 AM	0	0	0	0	2	104	0	106	0	0	6	6	1	153	0	154	266
08:15 AM	0	1	2	3	0	109	9	118	1	2	9	12	3	195	0	198	331
Total Volume	2	1	3	6	16	630	16	662	3	2	36	41	10	666	2	678	1387
% App. Total	33.3	16.7	50	.500	2.4	95.2	2.4	.729	7.3	4.9	87.8	.854	1.5	98.2	0.3	.856	.863
PHF	.500	.250	.375	.500	.500	.729	.444	.729	.750	.250	.818	.854	.833	.854	.250	.856	
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 01:00 PM																	
01:00 PM	11	0	6	17	1	129	15	145	9	2	31	42	12	161	1	174	378
01:15 PM	12	3	4	19	9	118	21	148	2	2	9	13	13	98	1	112	292
01:30 PM	17	1	6	24	5	116	13	134	1	0	18	19	10	118	3	131	308
01:45 PM	13	5	0	18	8	148	12	168	8	1	42	51	13	176	3	192	429
Total Volume	53	9	16	78	23	511	61	595	20	5	100	125	48	553	8	609	1407
% App. Total	67.9	11.5	20.5	.813	3.9	85.9	10.3	.885	16	4	80	.613	7.9	90.8	1.3	.793	.820
PHF	.779	.450	.667	.813	.639	.863	.726	.885	.556	.625	.595	.613	.923	.786	.667	.793	
Peak Hour Analysis From 02:00 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	12	2	6	20	6	270	14	290	0	1	13	14	11	180	2	193	517
04:45 PM	11	1	3	15	3	272	17	292	1	0	8	9	12	168	0	180	496
05:00 PM	4	1	7	12	7	268	9	284	2	0	8	10	6	139	1	146	452
05:15 PM	9	0	10	19	5	249	18	272	4	1	4	9	6	125	2	133	433
Total Volume	36	4	26	66	21	1059	58	1138	7	2	33	42	35	612	5	652	1898
% App. Total	54.5	6.1	39.4	.825	1.8	93.1	5.1	.974	16.7	4.8	78.6	.750	5.4	93.9	0.8	.845	.918
PHF	.750	.500	.650	.825	.750	.973	.806	.974	.438	.500	.635	.750	.729	.850	.625	.845	



COUNT LOCATION:

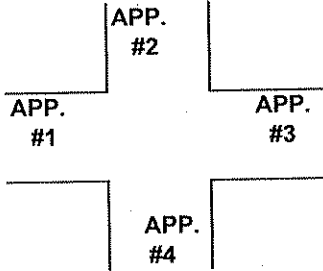
CSAH 1 (Coon Rapids Blvd.)

DATE:

02/21/2013

@ 111th Ave.

APP. #1 = CSAH 1
APP. #2 = 111th Ave.
APP. #3 = CSAH 1
APP. #4 = 111th Ave.



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

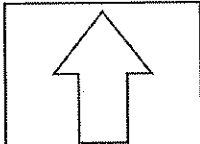
A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.

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								
6:15-6:30								
6:30-6:45						3		3
6:45-7:00						2		8
HOURLY TOTAL						HOURLY TOTAL		16
7:00-7:15						1		7
7:15-7:30						4		5
7:30-7:45		1			1	6		13
7:45-8:00				1	1	5		16
HOURLY TOTAL					2	HOURLY TOTAL		57
8:00-8:15						3		4
8:15-8:30						3		9
8:30-8:45						3		2
8:45-9:00						3		12
HOURLY TOTAL						HOURLY TOTAL		39
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		
10:00-10:15								
10:15-10:30								
10:30-10:45								
10:45-11:00								
HOURLY TOTAL						HOURLY TOTAL		
11:00-11:15								
11:15-11:30								
11:30-11:45								
11:45-12:00								
HOURLY TOTAL						HOURLY TOTAL		
12:00-12:15						3		3
12:15-12:30						6		4
12:30-12:45						8		4
12:45-1:00						3		4
HOURLY TOTAL						HOURLY TOTAL		35
1:00-1:15						6		3
1:15-1:30						6		6
1:30-1:45						2		4
1:45-2:00						7		20
HOURLY TOTAL						HOURLY TOTAL		54
HOURLY TOTAL					TOTAL		TOTAL	201
					2			

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COUNT LOCATION:

CSAH 1 (Coon Rapids Blvd.)

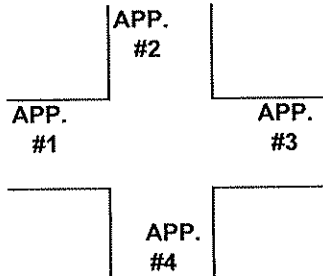
DATE:

02/21/2013

@ 111th Ave.

NORTH

APP. #1 = CSAH 1
APP. #2 = 111th Ave.
APP. #3 = CSAH 1
APP. #4 = 111th 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
2:00-2:15PM								
2:15-2:30								
2:30-2:45								
2:45-3:00								
HOURLY TOTAL						HOURLY TOTAL		
3:00-3:15								
3:15-3:30								
3:30-3:45								
3:45-4:00	1				1	4		6
HOURLY TOTAL					1	HOURLY TOTAL		10
4:00-4:15		1	1	1	3	6		4
4:15-4:30						3		8
4:30-4:45	1				1	3		4
4:45-5:00				1	1	5		9
HOURLY TOTAL					5	HOURLY TOTAL		42
5:00-5:15		1		2	3	1		2
5:15-5:30				1	1	4		4
5:30-5:45						2		2
5:45-6:00						2		2
HOURLY TOTAL					4	HOURLY TOTAL		19
6:00-6:15						1		
6:15-6:30						2		1
6:30-6:45								
6:45-7:00								
HOURLY TOTAL						HOURLY TOTAL		4
7:00-7:15								
7:15-7:30								
7:30-7:45								
7:45-8:00								
HOURLY TOTAL						HOURLY TOTAL		
8:00-8:15								
8:15-8:30								
8:30-8:45								
8:45-9:00								
HOURLY TOTAL						HOURLY TOTAL		
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		
TOTAL					12	TOTAL		276

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