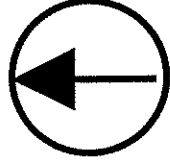


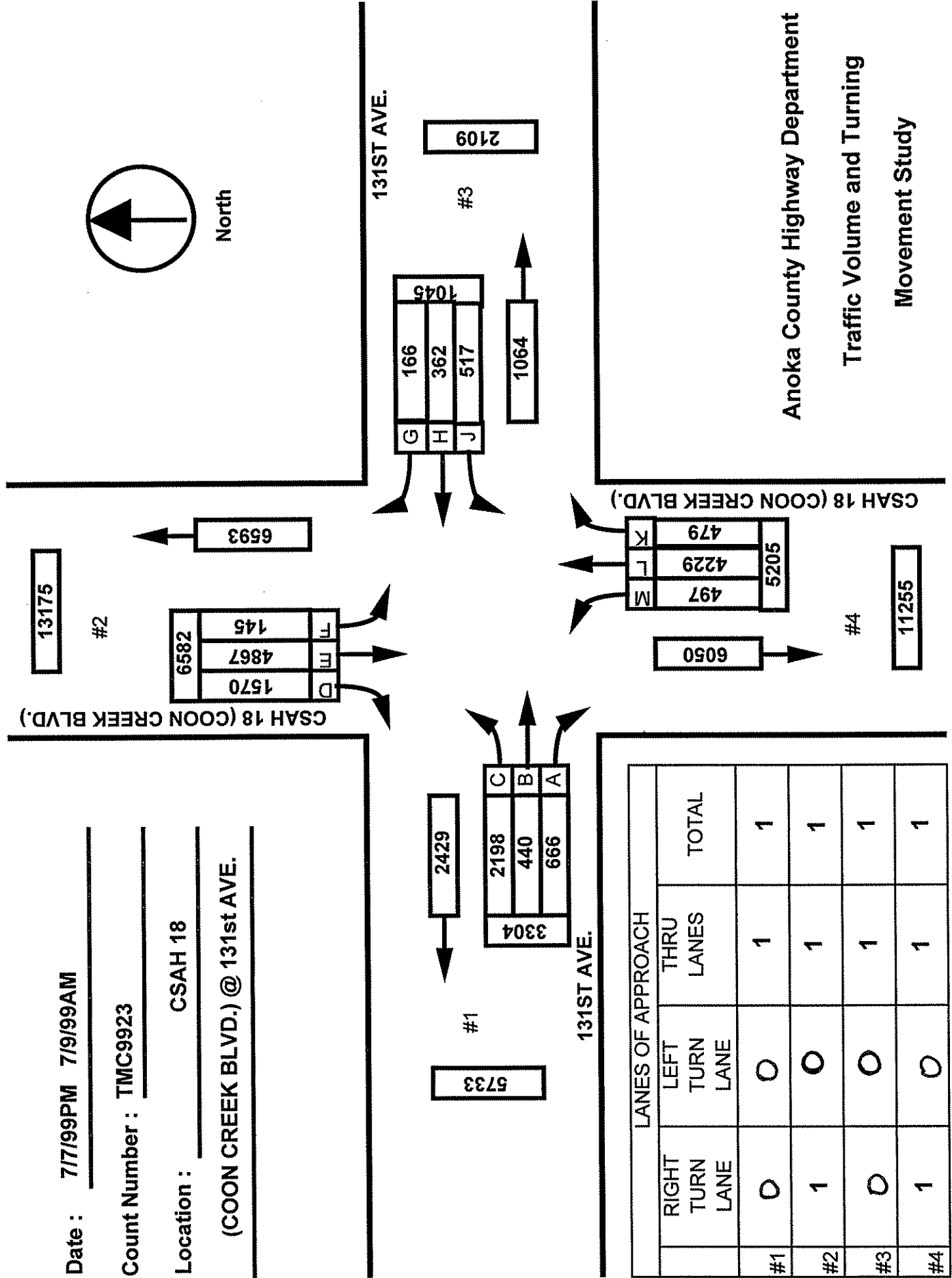
Date : 7/7/99PM 7/9/99AM

Count Number : TMC9923

Location : CSAH 18
(COON CREEK BLVD.) @ 131st AVE.



North



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

Anoka County Highway Department
Traffic Volume and Turning
Movement Study

Anoka County Highway Department Traffic Volume & Turning Movement Study

Weather
Counter TDC-8
Printed by Mike and Ryan

File Name : TMC9923
Site Code : 99230101
Start Date : 07/07/1999
Page No : 1

Groups Printed1 - Unshifted

Start Time	CSAH 18 (Coon Creek Blvd.) Southbound					131st Ave. Westbound					CSAH 18 (Coon Creek Blvd.) Northbound					131st Ave. Eastbound					Excl. Total	Inclu. Total	Int. Total
	Left	Thru	Rig ht	He avy	App. Total	Left	Thru	Rig ht	He avy	App. Total	Left	Thru	Rig ht	He avy	App. Total	Left	Thru	Rig ht	He avy	App. Total			
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0				
06:00	2	85	1	1	88	15	0	1	0	16	2	6	0	0	8	7	4	13	0	24	1	136	137
06:15	0	0	0	0	0	0	0	0	0	0	1	9	0	0	10	10	0	8	0	18	0	28	28
06:30	1	137	10	2	148	7	2	3	0	12	0	19	1	1	20	11	1	13	1	25	4	205	209
06:45	0	145	15	6	160	11	3	1	0	15	1	26	2	2	29	21	6	6	2	33	10	237	247
Total	3	367	26	9	396	33	5	5	0	43	4	60	3	3	67	49	11	40	3	100	15	606	621
07:00	1	146	11	2	158	18	0	0	0	18	3	29	2	0	34	30	3	17	0	50	2	260	262
07:15	2	135	15	4	152	11	3	1	1	15	3	42	1	5	46	23	6	17	0	46	10	259	269
07:30	3	153	11	5	167	12	4	4	0	20	2	23	1	1	26	26	3	20	4	49	10	262	272
07:45	1	121	12	1	134	12	2	2	0	16	1	36	1	4	38	20	6	10	2	36	7	224	231
Total	7	555	49	12	611	53	9	7	1	69	9	130	5	10	144	99	18	64	6	181	29	1005	1034
08:00	2	121	13	2	136	14	2	4	2	20	3	33	2	3	38	23	0	19	1	42	8	236	244
08:15	2	108	15	1	125	9	3	6	0	18	4	34	3	3	41	15	4	9	2	28	6	212	218
08:30	0	86	11	6	97	18	5	0	0	23	2	30	2	1	34	25	1	13	0	39	7	193	200
08:45	0	70	14	2	84	10	6	4	0	20	9	38	5	8	52	15	2	13	4	30	14	186	200
Total	4	385	53	11	442	51	16	14	2	81	18	135	12	15	165	78	7	54	7	139	35	827	862
09:00	4	82	18	3	104	12	7	4	0	23	7	30	2	1	39	22	2	10	1	34	5	200	205
09:15	2	61	14	2	77	8	1	3	0	12	7	39	3	4	49	16	3	13	2	32	8	170	178
09:30	1	73	28	7	102	7	3	3	0	13	4	28	5	2	37	24	2	9	1	35	10	187	197
09:45	3	62	16	2	81	7	2	2	1	11	3	22	1	3	26	13	2	8	1	23	7	141	148
Total	10	278	76	14	364	34	13	12	1	59	21	119	11	10	151	75	9	40	5	124	30	698	728
10:00	1	72	19	4	92	5	4	0	0	9	5	25	3	2	33	24	4	10	0	38	6	172	178
10:15	2	49	12	4	63	7	8	1	0	16	7	29	5	3	41	37	7	12	8	56	15	176	191
10:30	3	57	14	11	74	4	6	4	0	14	9	32	5	3	46	27	4	8	4	39	18	173	191
10:45	2	87	21	9	110	0	4	0	0	4	4	27	3	3	34	23	3	6	1	32	13	180	193
Total	8	265	66	28	339	16	22	5	0	43	25	113	16	11	154	111	18	36	13	165	52	701	753
11:00	2	73	16	4	91	7	6	4	0	17	6	29	4	4	39	24	5	12	2	41	10	188	198
11:15	1	60	15	3	76	6	5	4	1	15	6	44	4	4	54	27	3	8	1	38	9	183	192
11:30	0	69	30	12	99	6	6	1	0	13	1	42	9	2	52	28	6	10	4	44	18	208	226
11:45	2	54	30	9	86	9	4	2	0	15	5	68	4	5	77	24	4	18	0	46	14	224	238
Total	5	256	91	28	352	28	21	11	1	60	18	183	21	15	222	103	18	48	7	169	51	803	854
12:00	2	70	33	4	105	6	5	3	1	14	5	43	3	3	51	27	7	7	3	41	11	211	222
12:15	3	69	29	8	101	8	7	2	0	17	9	48	3	2	60	29	6	8	4	43	14	221	235
12:30	2	70	29	8	101	8	5	0	1	13	7	49	9	7	65	48	9	9	5	66	21	245	266
12:45	2	61	27	5	90	11	8	2	1	21	12	56	4	2	72	38	7	8	1	53	9	236	245
Total	9	270	118	25	397	33	25	7	3	65	33	196	19	14	248	142	29	32	13	203	55	913	968
13:00	0	67	20	8	87	11	4	0	0	15	6	56	9	3	71	39	6	7	2	52	13	225	238
13:15	2	83	20	8	105	6	9	6	0	21	14	57	5	6	76	28	6	7	0	41	14	243	257
13:30	1	64	33	13	98	14	5	2	1	21	7	62	15	2	84	41	11	14	0	66	16	269	285
13:45	0	53	28	6	81	2	9	2	0	13	8	46	5	3	59	25	9	7	1	41	10	194	204
Total	3	267	101	35	371	33	27	10	1	70	35	221	34	14	290	133	32	35	3	200	53	931	984
14:00	1	60	8	4	69	8	9	3	0	20	10	69	7	7	86	32	4	9	2	45	13	220	233
14:15	2	56	16	4	74	5	5	0	0	10	8	57	9	3	74	23	10	6	3	39	10	197	207
14:30	2	62	14	7	78	9	3	2	0	14	2	49	5	2	56	24	5	9	2	38	11	186	197
14:45	3	51	31	5	85	5	7	4	0	16	7	63	9	1	79	28	3	10	4	41	10	221	231
Total	8	229	69	20	306	27	24	9	0	60	27	238	30	13	295	107	22	34	11	163	44	824	868
15:00	2	62	26	2	90	3	3	5	1	11	12	91	10	2	113	28	5	9	3	42	8	256	264
15:15	3	58	30	6	91	4	3	0	0	7	4	67	10	0	81	37	11	5	0	53	6	232	238
15:30	1	37	20	3	58	5	9	2	0	16	13	101	13	1	127	47	4	10	2	61	6	262	268
15:45	3	66	32	3	101	13	5	0	0	18	10	91	10	3	111	34	7	8	2	49	8	279	287
Total	9	223	108	14	340	25	20	7	1	52	39	350	43	6	432	146	27	32	7	205	28	1029	1057

Anoka County Highway Department Traffic Volume & Turning Movement Study

File Name : TMC9923
Site Code : 99230101
Start Date : 07/07/1999
Page No : 2

Groups Printed1 - Unshifted

Start Time	CSAH 18 (Coon Creek Blvd.) Southbound					131st Ave. Westbound					CSAH 18 (Coon Creek Blvd.) Northbound					131st Ave. Eastbound					Excl. 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				
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0					
16:00	4	59	20	5	83	7	11	3	0	21	9	112	11	4	132	46	7	8	1	61	10	297	307	
16:15	4	82	34	4	120	4	5	6	0	15	8	140	14	2	162	62	12	6	3	80	9	377	386	
16:30	5	59	35	1	99	9	8	3	0	20	14	157	17	0	188	46	15	14	3	75	4	382	386	
16:45	5	76	53	4	134	10	9	4	0	23	16	125	9	1	150	54	11	11	1	76	6	383	389	
Total	18	276	142	14	436	30	33	16	0	79	47	534	51	7	632	208	45	39	8	292	29	1439	1468	
17:00	2	98	44	1	144	6	8	5	0	19	9	142	11	3	162	44	20	15	0	79	4	404	408	
17:15	2	85	39	6	126	6	3	3	0	12	16	132	14	1	162	45	14	10	0	69	7	369	376	
17:30	4	104	44	4	152	10	14	6	0	30	9	139	12	2	160	67	12	7	0	86	6	428	434	
17:45	2	124	56	0	182	12	5	6	1	23	16	110	16	1	142	66	12	12	0	90	2	437	439	
Total	10	411	183	11	604	34	30	20	1	84	50	523	53	7	626	222	58	44	0	324	19	1638	1657	
18:00	0	88	39	4	127	13	7	2	0	22	20	139	7	2	166	46	10	14	0	70	6	385	391	
18:15	6	101	42	0	149	8	12	2	0	22	8	127	12	1	147	58	7	7	2	72	3	390	393	
18:30	4	74	48	2	126	8	12	5	0	25	9	116	13	0	138	52	17	7	0	76	2	365	367	
18:45	3	99	38	1	140	8	7	4	0	19	11	102	9	0	122	55	14	18	0	87	1	368	369	
Total	13	362	167	7	542	37	38	13	0	88	48	484	41	3	573	211	48	46	2	305	12	1508	1520	
19:00	2	93	30	0	125	11	13	4	1	28	9	95	9	0	113	38	12	19	1	69	2	335	337	
19:15	1	85	29	0	115	10	10	3	0	23	12	62	14	1	88	44	8	9	0	61	1	287	288	
19:30	4	63	24	0	91	11	7	5	0	23	14	83	18	0	115	46	9	8	0	63	0	292	292	
19:45	4	66	26	0	96	9	4	0	1	13	13	74	12	1	99	36	5	12	1	53	3	261	264	
Total	11	307	109	0	427	41	34	12	2	87	48	314	53	2	415	164	34	48	2	246	6	1175	1181	
20:00	3	45	21	0	69	7	2	4	0	13	11	72	5	1	88	50	5	7	0	62	1	232	233	
20:15	2	61	29	0	92	6	4	2	0	12	9	74	16	0	99	63	8	9	0	80	0	283	283	
20:30	6	59	34	0	99	6	8	1	0	15	18	88	18	1	124	58	11	17	0	86	1	324	325	
20:45	2	47	32	0	81	2	6	1	0	9	7	97	10	0	114	45	13	3	0	61	0	265	265	
Total	13	212	116	0	341	21	20	8	0	49	45	331	49	2	425	216	37	36	0	289	2	1104	1106	
21:00	8	63	27	0	98	2	5	5	0	12	5	75	13	0	93	40	3	7	0	50	0	253	253	
21:15	2	48	20	0	70	6	4	2	0	12	9	96	11	3	116	30	8	10	0	48	3	246	249	
21:30	2	48	30	0	80	7	12	1	0	20	13	71	7	0	91	31	7	12	0	50	0	241	241	
21:45	2	45	19	0	66	6	4	2	0	12	3	56	7	1	66	33	9	9	0	51	1	195	196	
Total	14	204	96	0	314	21	25	10	0	56	30	298	38	4	366	134	27	38	0	199	4	935	939	
Grand Total	145	486	157	228	6582	517	362	166	13	1045	497	422	479	136	5205	219	8	440	666	87	3304	464	1613	1660
Apprch %	2.2	73.9	23.9			49.5	34.6	15.9			9.5	81.2	9.2			66.5	13.3	20.2						
Total %	0.9	30.2	9.7		40.8	3.2	2.2	1.0		6.5	3.1	26.2	3.0		32.3	13.6	2.7	4.1		20.5	2.8	97.2		

Major Street Approaches:

Northbound:

CSAH 18 (Coon Creek Blvd.)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC9923.war
 Count Type: IMC. Channel: 0. Count Date: 7/ 7/99
 Number of Lanes: 2
 Approach Speed: 45
 Total Approach Traffic: 5205

Southbound:

CSAH 18 (Coon Creek Blvd.)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC9923.war
 Count Type: IMC. Channel: 0. Count Date: 7/ 7/99
 Number of Lanes: 2
 Approach Speed: 45
 Total Approach Traffic: 6582

Minor Street Approaches:

Eastbound:

131st Ave.

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC9923.war
 Count Type: IMC. Channel: 0. Count Date: 7/ 7/99
 Number of Lanes: 1
 Approach Speed: 30
 Total Approach Traffic: 3304

Westbound:

131st Ave.

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC9923.war
 Count Type: IMC. Channel: 0. Count Date: 7/ 7/99
 Number of Lanes: 1
 Approach Speed: 30
 Total Approach Traffic: 1045

Analysis of 8-Hour Volume Warrants (Criteria refers to high volume side street for that hour):

Hour	Main (Total)	Side Vol.	Dir.	Rank	Warrant 1 Meets?	Warrant 1 Criteria	Warrant 2 Meets?	Warrant 2 Criteria	Warrant 8 Meets?	Warrant 8 Criteria
0	0	0	W	17		105		52		84
1	0	0	W	18		105		52		84
2	0	0	W	19		105		52		84
3	0	0	W	20		105		52		84
4	0	0	W	21		105		52		84
5	0	0	W	22		105		52		84
6	463	100	E	16	MAIN	105	SIDE	52	SIDE	84
7	755	181	E	10	--BOTH--	105	--BOTH--	52	--BOTH--	84
8	607	139	E	14	--BOTH--	105	SIDE	52	--BOTH--	84
9	515	124	E	15	--BOTH--	105	SIDE	52	--BOTH--	84
10	493	165	E	12	--BOTH--	105	SIDE	52	SIDE	84
11	574	169	E	11	--BOTH--	105	SIDE	52	--BOTH--	84
12	645	203	E	7	--BOTH--	105	--BOTH--	52	--BOTH--	84
13	661	200	E	8	--BOTH--	105	--BOTH--	52	--BOTH--	84
14	601	163	E	13	--BOTH--	105	SIDE	52	--BOTH--	84
15	772	205	E	6	--BOTH--	105	--BOTH--	52	--BOTH--	84
16	1068	292	E	3	--BOTH--	105	--BOTH--	52	--BOTH--	84
17	1230	324	E	1	--BOTH--	105	--BOTH--	52	--BOTH--	84
18	1115	305	E	2	--BOTH--	105	--BOTH--	52	--BOTH--	84
19	842	246	E	5	--BOTH--	105	--BOTH--	52	--BOTH--	84
20	766	289	E	4	--BOTH--	105	--BOTH--	52	--BOTH--	84
21	680	199	E	9	--BOTH--	105	--BOTH--	52	--BOTH--	84
22	0	0	W	23		105		52		84
23	0	0	W	24		105		52		84

Warrant Summary:

Rural values apply.

Warrant 1 - Minimum Vehicular Volumes

SATISFIED for 15 hours. Criteria--Main St.: 420; Side St.: See Volume Summary.

Warrant 2 - Interruption of Continuous Traffic

SATISFIED for 10 hours. Criteria--Main St.: 630; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. Ped volumes too low. Criteria--190 Peds in peak hour, 100 peds in 4th high hour.

Warrant 4 - School Crossing

NOT APPLICABLE. Gap data has not been defined.

Warrant 5 - Progressive Movement

NOT SATISFIED. Adjacent signals closer than 1000 feet and/or not part of coordinated system.

Warrant 6 - Accident Experience

NOT SATISFIED. 0 correctable accidents is fewer than required 5.

Correctable Accidents: 0; Right Angle Accidents: 0; Left Turn Accidents: 0; Other Accidents: 0.

Warrant 7 - Systems Warrant

NOT SATISFIED. At least one street has no major approaches. Peak hour total entering volume: 1638.

- Approaches which are part of the principal through traffic roadway network.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which appear as a major route in an official transportation plan.

Warrant 8 - Combination of Warrants

SATISFIED for 14 hours. Criteria--Main: 504; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

SATISFIED for 14 hours.

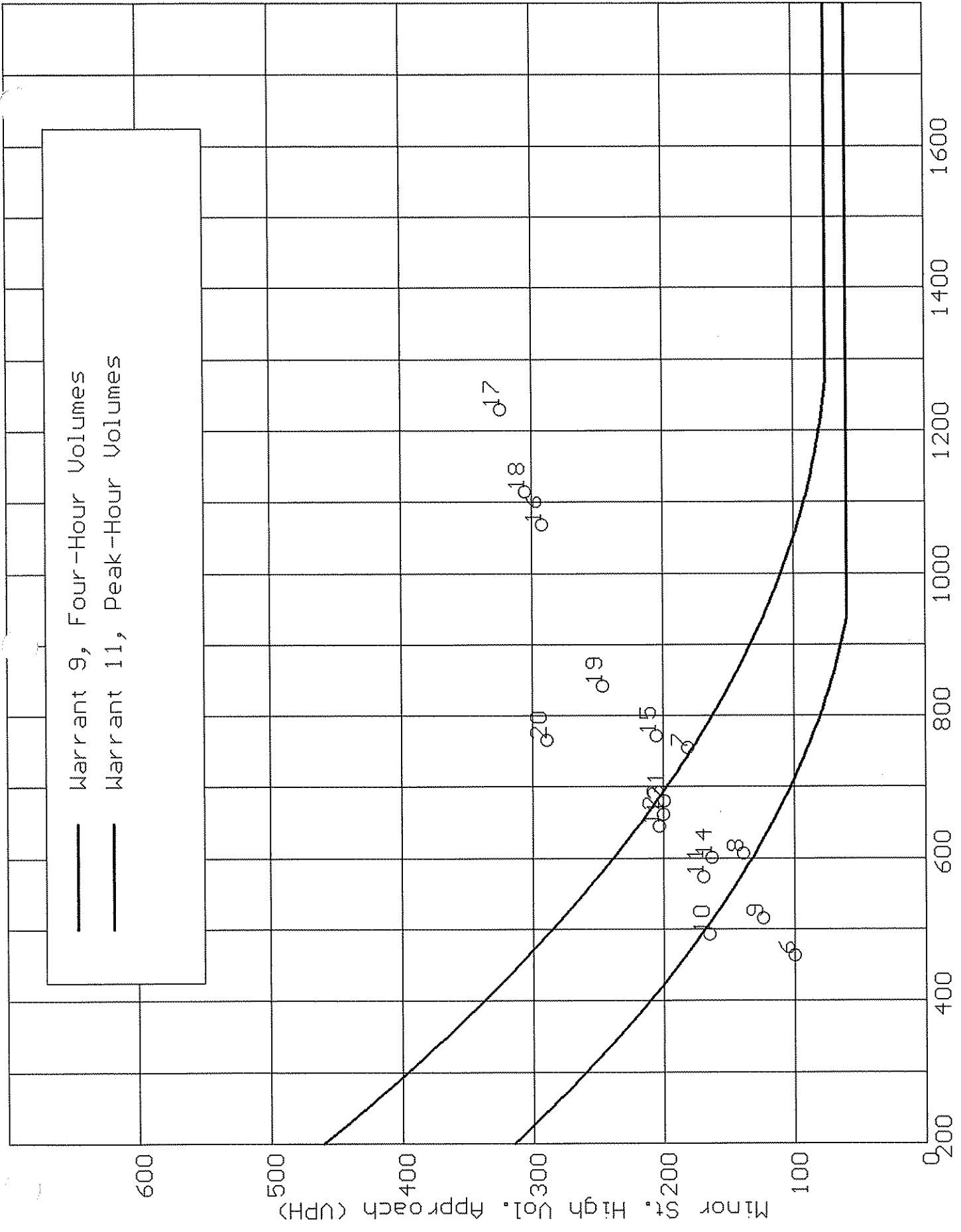
Warrant 10 - Peak Hour Delay

NOT APPLICABLE. Volume requirements satisfied, but side street peak hour delay not defined.

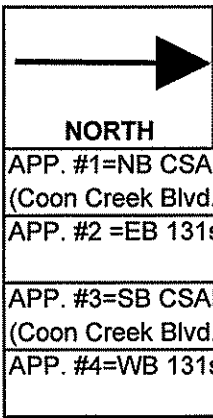
Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 100.

Warrant 11 - Peak Hour Volume

SATISFIED for 8 hours.



Major St. Total of Both Approaches (UPH)

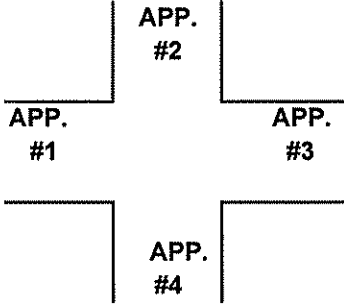


COUNT LOCATION:

CSAH 18 (Coon Creek Blvd.) @
131st Ave.

DATE:

7/9/99



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.

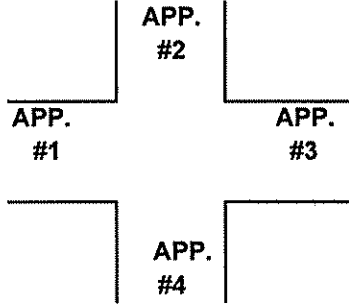
TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM	1		2		3	1		
6:15-6:30								
6:30-6:45		1		1	2	4		
6:45-7:00			1		1	10		
HOURLY TOTAL					6	HOURLY TOTAL		15
7:00-7:15	1			1	2	1		1
7:15-7:30		1			1	7		2
7:30-7:45			1		1	9		1
7:45-8:00				1	1	6		
HOURLY TOTAL					5	HOURLY TOTAL		27
8:00-8:15	1		1	1	3	5		2
8:15-8:30		1			1	6		
8:30-8:45	1		1	1	3	6		1
8:45-9:00		1			1	14		
HOURLY TOTAL					8	HOURLY TOTAL		34
9:00-9:15	1		1	1	3	5		
9:15-9:30						6		1
9:30-9:45		1	3		4	10		
9:45-10:00		2			2	7		
HOURLY TOTAL					9	HOURLY TOTAL		29
10:00-10:15	3			1	4	6		
10:15-10:30			2		2	14		
10:30-10:45		1			1	19		
10:45-11:00				1	1	14		
HOURLY TOTAL					8	HOURLY TOTAL		53
11:00-11:15	2				2	12		
11:15-11:30			3		3	8		
11:30-11:45				2	2	18		1
11:45-12:00	4				4	12		2
HOURLY TOTAL					11	HOURLY TOTAL		53
12:00-12:15	2				2	10		1
12:15-12:30			1			14		1
12:30-12:45		1			1	17		1
12:45-1:00				1	1	8		1
HOURLY TOTAL					4	HOURLY TOTAL		53
1:00-1:15	1	1	1		3	14		
1:15-1:30		2			2	13		
1:30-1:45	1		2		3	16		
1:45-2:00		1			1	10		
HOURLY TOTAL					9	HOURLY TOTAL		53



COUNT LOCATION: CSAH 18 (COON CREEK BLVD.) @
131ST AVE.

DATE: 7/7/99

NORTH
APP. #1= NB CSAH 18
(COON CREEK BLVD.)
APP. #2 =EB 131ST AVE.
APP. #3=SB CSAH 18
(COON CREEK BLVD.)
APP. #4=WB 131ST 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	4				4	8	1	2
2:15-2:30		4		3	7	9		
2:30-2:45				1	1	11		
2:45-3:00						11		
HOURLY TOTAL					12	HOURLY TOTAL		42
3:00-3:15						9		
3:15-3:30						1		5
3:30-3:45	2	5			7	8		1
3:45-4:00						5		
HOURLY TOTAL					7	HOURLY TOTAL		29
4:00-4:15						9		1
4:15-4:30	4			4	8	9	2	
4:30-4:45						2		
4:45-5:00	1	1			2	4	1	
HOURLY TOTAL					10	HOURLY TOTAL		28
5:00-5:15	2		2		4	5		
5:15-5:30						6	1	
5:30-5:45		2	2		4	5	1	
5:45-6:00						2		
HOURLY TOTAL					8	HOURLY TOTAL		20
6:00-6:15						5		1
6:15-6:30		1			1	2	1	
6:30-6:45		1			1	2		
6:45-7:00							1	
HOURLY TOTAL					2	HOURLY TOTAL		12
7:00-7:15						2		
7:15-7:30						1		
7:30-7:45						1		
7:45-8:00						1	1	
HOURLY TOTAL						HOURLY TOTAL		6
8:00-8:15						1		
8:15-8:30								
8:30-8:45						1		
8:45-9:00								
HOURLY TOTAL						HOURLY TOTAL		2
9:00-9:15								
9:15-9:30						2		
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		2