

Date : 11/20/13

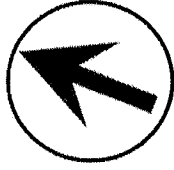
Count Number : TMC1343

Location : CSAH 23 (Lake Dr.)

@ CSAH 49 (Hodgson Rd./North Rd.)

Collection Period : PEAK HOURS

6:30-9:30 AM, 3-6 PM



North

2939

#2

CR 49

1557

1382	D	11
	E	1197
	F	174

CSAH 23

#3

5014

G	158
H	1113
J	1246
2517	

2497

2421

#1

4763

2342	C	54
	B	1076
	A	1212

CSAH 23

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

K	1247
L	1345
M	1297
3889	

3655

CSAH 49

#4

7544

Anoka County Highway Department

Traffic Volume and Turning

Movement Study

Date : 11/20/13

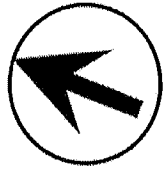
Count Number : TMC1343

Location : CSAH 23 (Lake Dr.)

@ CSAH 49 (Hodgson Rd./North Rd.)

Collection Period : AM PEAK

Hour : 7:15 - 8:15 AM



North

590

#2

CR 49

228	F	29
	E	196
	D	3

362

CSAH 23

#3

G	41	460
H	211	
J	208	

334

794

583

#1

826

243	C	7
	B	105
	A	131

CSAH 23

CSAH 49

#4

535

K	200	883
L	314	
M	369	

1418

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

Anoka County Highway Department

Traffic Volume and Turning

Movement Study

Date : 11/20/13

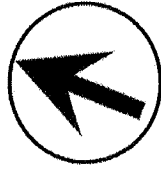
Count Number : TMC1343

Location : CSAH 23 (Lake Dr.)

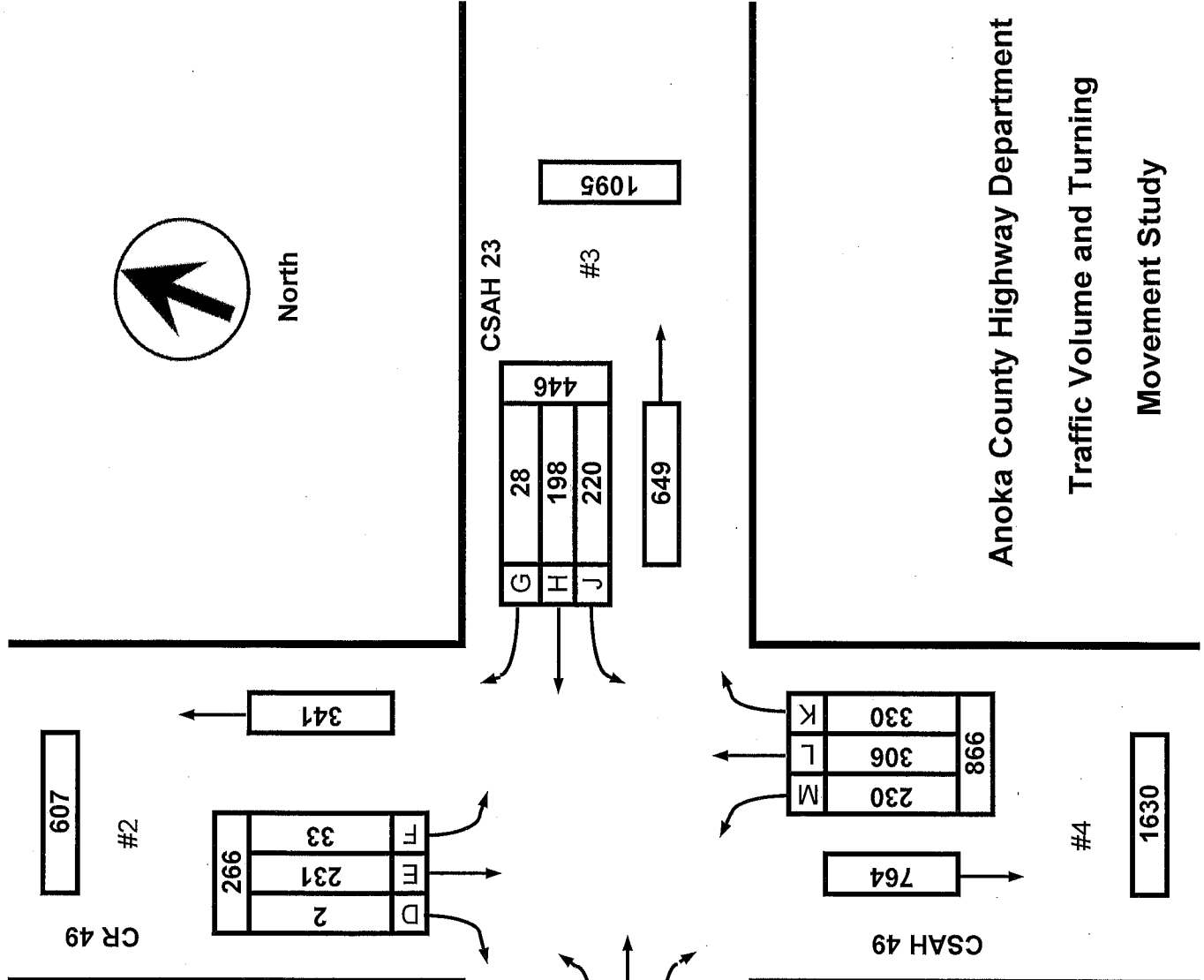
@ CSAH 49 (Hodgson Rd./North Rd.)

Collection Period : PM PEAK

Hour : 4:30 PM - 5:30 PM



North



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

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Weather: Cool and Cloudy
 Counter: DB-400
 study conducted by: Randy/Sean

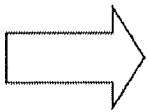
File Name : TMC 1343
 Site Code : 13430202
 Start Date : 11/20/2013
 Page No : 1

Groups Printed- Unshifted

Start Time	CSAH 23 Southwestbound					CSAH 23 Northeastbound					CSAH 49 (Hodgson Rd.) Northwestbound					CR 49 (North Rd.) Southeastbound					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	45	41	2	1	88	1	11	36	3	48	38	23	24	3	85	3	35	0	2	38	9	259	268
06:45	62	47	5	1	114	0	14	36	1	50	49	28	24	6	101	3	38	0	1	41	9	306	315
Total	107	88	7	2	202	1	25	72	4	98	87	51	48	9	186	6	73	0	3	79	18	565	583
07:00	70	45	3	2	118	0	19	30	1	49	49	38	29	5	116	2	65	1	1	68	9	351	360
07:15	57	62	12	0	131	1	16	28	2	45	63	54	52	13	169	5	60	0	2	65	17	410	427
07:30	51	52	6	4	109	0	19	47	2	66	93	104	39	10	236	8	54	1	2	63	18	474	492
07:45	38	43	14	4	95	3	31	24	2	58	156	111	60	23	327	4	35	1	0	40	29	520	549
Total	216	202	35	10	453	4	85	129	7	218	361	307	180	51	848	19	214	3	5	236	73	1755	1828
08:00	62	54	9	10	125	3	39	32	3	74	57	45	49	2	151	12	47	1	2	60	17	410	427
08:15	77	58	5	25	140	1	22	25	4	48	37	22	36	3	95	3	41	0	0	44	32	327	359
08:30	33	42	2	4	77	0	17	29	1	46	44	41	24	4	109	3	29	1	4	33	13	265	278
08:45	20	31	7	1	58	2	33	38	4	73	34	27	33	3	94	3	28	0	2	31	10	256	266
Total	192	185	23	40	400	6	111	124	12	241	172	135	142	12	449	21	145	2	8	168	72	1258	1330
09:00	40	43	5	13	88	2	43	42	6	87	50	21	33	4	104	4	32	0	6	36	29	315	344
09:15	30	25	4	4	59	2	31	26	2	59	40	19	39	2	98	4	17	0	1	21	9	237	246
*** BREAK ***																							
Total	70	68	9	17	147	4	74	68	8	146	90	40	72	6	202	8	49	0	7	57	38	552	590
*** BREAK ***																							
15:00	59	44	4	4	107	5	51	87	6	143	27	41	48	4	116	16	106	2	3	124	17	490	507
15:15	72	52	6	23	130	5	65	48	3	118	44	55	45	2	144	5	56	0	1	61	29	453	482
15:30	48	49	4	3	101	3	64	49	5	116	35	70	46	6	151	12	47	0	1	59	15	427	442
15:45	55	64	8	8	127	5	56	70	5	131	43	75	80	2	198	14	48	0	1	62	16	518	534
Total	234	209	22	38	465	18	236	254	19	508	149	241	219	14	609	47	257	2	6	306	77	1888	1965
16:00	56	40	7	5	103	2	58	58	6	118	45	66	61	7	172	8	64	1	2	73	20	466	486
16:15	58	48	8	6	114	4	69	55	4	128	52	70	78	2	200	7	56	1	1	64	13	506	519
16:30	48	46	5	9	99	4	67	80	7	151	65	55	66	0	186	12	44	0	1	56	17	492	509
16:45	54	49	9	1	112	1	85	86	2	172	66	75	79	7	220	5	57	1	1	63	11	567	578
Total	216	183	29	21	428	11	279	279	19	569	228	266	284	16	778	32	221	3	5	256	61	2031	2092
17:00	48	55	9	0	112	1	70	75	0	146	47	80	85	5	212	7	69	0	2	76	7	546	553
17:15	70	48	5	0	123	1	64	72	1	137	52	96	100	2	248	9	61	1	1	71	4	579	583
17:30	44	38	8	1	90	6	63	70	0	139	51	64	60	0	175	19	54	0	1	73	2	477	479
17:45	49	37	11	1	97	2	69	69	0	140	60	65	57	1	182	6	54	0	1	60	3	479	482
Total	211	178	33	2	422	10	266	286	1	562	210	305	302	8	817	41	238	1	5	280	16	2081	2097
Grand Total	1246	1113	158	130	2517	54	1076	1212	70	2342	1297	1345	1247	116	3889	174	1197	11	39	1382	355	10130	10485
Apprch %	49.5	44.2	6.3			2.3	45.9	51.8			33.4	34.6	32.1			12.6	86.6	0.8					
Total %	12.3	11	1.6		24.8	0.5	10.6	12		23.1	12.8	13.3	12.3		38.4	1.7	11.8	0.1		13.6	3.4	96.6	

Start Time	CSAH 23 Southwestbound					CSAH 23 Northeastbound					CSAH 49 (Hodgson Rd.) Northwestbound					CR 49 (North Rd.) Southeastbound					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 to 11:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15																					
07:15	57	62	12	131	1	16	28	45	63	54	52	169	5	60	0	65	410				
07:30	51	52	6	109	0	19	47	66	93	104	39	236	8	54	1	63	474				
07:45	38	43	14	95	3	31	24	58	156	111	60	327	4	35	1	40	520				
08:00	62	54	9	125	3	39	32	74	57	45	49	151	12	47	1	60	410				
Total Volume	208	211	41	460	7	105	131	243	369	314	200	883	29	196	3	228	1814				
% App. Total	45.2	45.9	8.9		2.9	43.2	53.9		41.8	35.6	22.7		12.7	86	1.3						
PHF	.839	.851	.732	.878	.583	.673	.697	.821	.591	.707	.833	.675	.604	.817	.750	.877	.872				

Peak Hour Analysis From 12:00 to 17:45 - Peak 1 of 1																				
Peak Hour for Entire Intersection Begins at 16:30																				
16:30	48	46	5	99	4	67	80	151	65	55	66	186	12	44	0	56	492			
16:45	54	49	9	112	1	85	86	172	66	75	79	220	5	57	1	63	567			
17:00	48	55	9	112	1	70	75	146	47	80	85	212	7	69	0	76	546			
17:15	70	48	5	123	1	64	72	137	52	96	100	248	9	61	1	71	579			
Total Volume	220	198	28	446	7	286	313	606	230	306	330	866	33	231	2	266	2184			
% App. Total	49.3	44.4	6.3		1.2	47.2	51.7		26.6	35.3	38.1		12.4	86.8	0.8					
PHF	.786	.900	.778	.907	.438	.841	.910	.881	.871	.797	.825	.873	.688	.837	.500	.875	.943			



COUNT LOCATION:

CSAH 23 (Lake Dr.) @

DATE:

11/20/2013

CSAH 49 (Hogdson Rd./North Rd.)

NORTH

APP. #1 = CSAH 23

APP. #2 = CR 49

APP. #3 = CSAH 23

APP. #4 = CSAH 49

APP. #2

APP. #1

APP. #3

APP. #4

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

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:30-6:45AM						5		4
6:45-7:00						7		2
HOURLY TOTAL						HOURLY TOTAL		18
7:00-7:15AM								9
7:15-7:30						2		12
7:30-7:45			1		1	7		11
7:45-8:00						3		27
HOURLY TOTAL					1	HOURLY TOTAL		71
8:00-8:15AM						7		8
8:15-8:30						7		23
8:30-8:45						7		6
8:45-9:00				1	1	4		5
HOURLY TOTAL					1	HOURLY TOTAL		67
9:00-9:15AM						2		24
9:15-9:30						5		3
HOURLY TOTAL					2	HOURLY TOTAL		34
					TOTAL		TOTAL	190

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
3:00-3:15PM			1		1	5		12
3:15-3:30						5		24
3:30-3:45						9		6
3:45-4:00						8	1	7
HOURLY TOTAL					1	HOURLY TOTAL		77
4:00-4:15PM	1			2	3	10		8
4:15-4:30						7		6
4:30-4:45						9	1	6
4:45-5:00						10		1
HOURLY TOTAL					3	HOURLY TOTAL		58
5:00-5:15PM	1				1	7		
5:15-5:30			1		1	1		3
5:30-5:45								2
5:45-6:00						2		1
HOURLY TOTAL					2	HOURLY TOTAL		16
					TOTAL		TOTAL	151