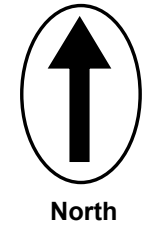


Date: 02/06/24

Count Number: TMC 2441

Location: CSAH 12  
@ 111th Lane

Collection Period: 24 HR



7020

#2

CSAH 12

3356			
E	F	G	H
98	3122	135	1

3664

Eisenhower Elementary

I	184	334
J	8	
K	142	
L	0	

#3

671

337

454

#1

192

262	D	0
	C	67
	B	37
	A	158

111th Ave

CSAH 12

3422

P	O	N	M
0	86	3412	165
3663			

#4

7085

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

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

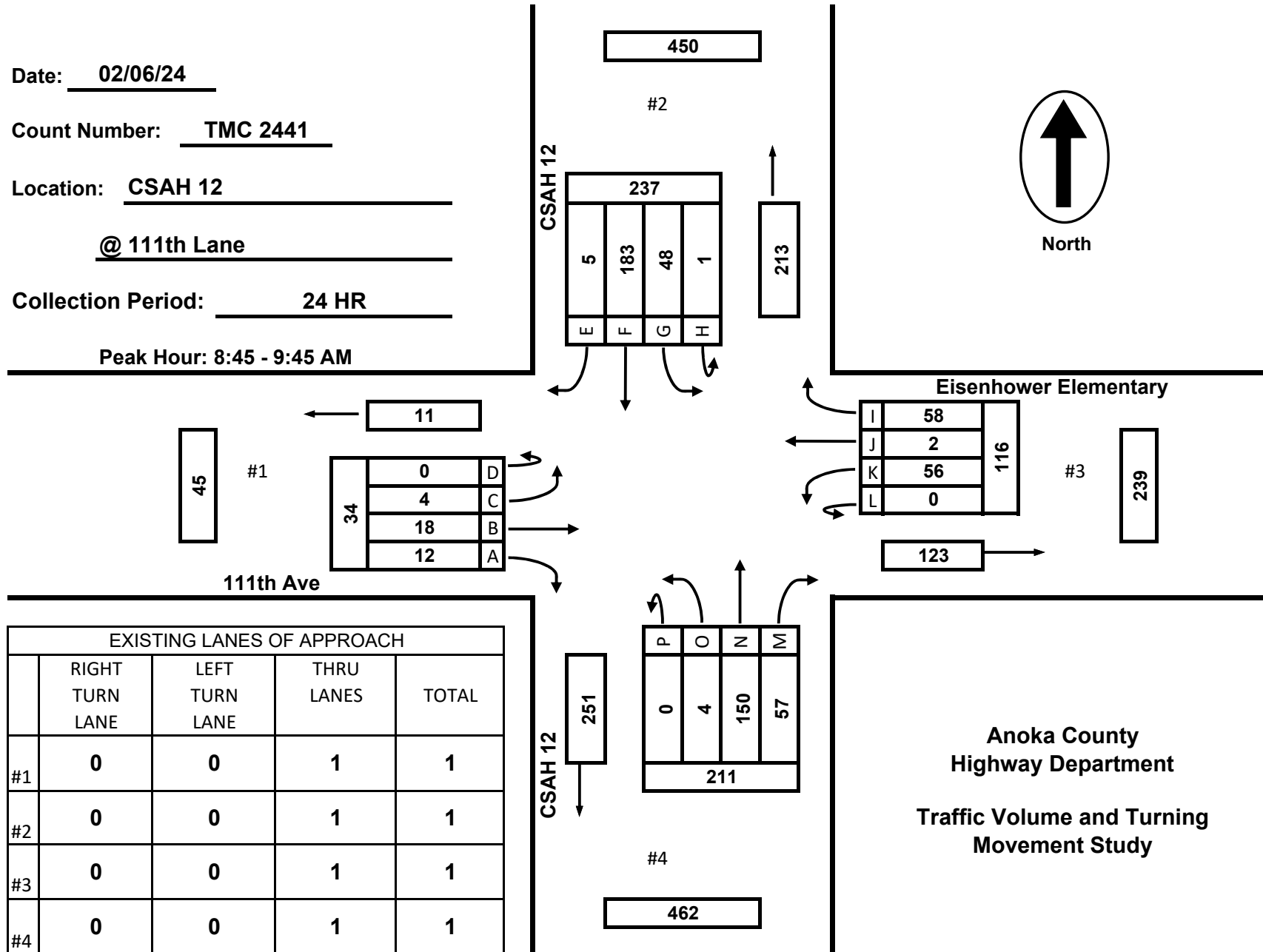
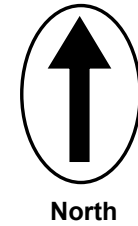
Date: 02/06/24

Count Number: TMC 2441

Location: CSAH 12  
@ 111th Lane

Collection Period: 24 HR

Peak Hour: 8:45 - 9:45 AM



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

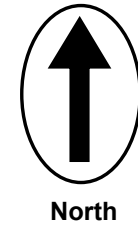
Date: 02/06/24

Count Number: TMC 2441

Location: CSAH 12  
@ 111th Lane

Collection Period: 24 HR

Peak Hour: 3:15 - 4:15 PM



North

711

#2

CSAH 12

369			
14	324	31	0
E	F	G	H

342

Eisenhower Elementary

I	62	104
J	3	
K	39	
L	0	

#3

197

93

29

57

#1

28	0	D
	7	C
	9	B
	12	A

111th Ave

CSAH 12

375

P	O	N	M
0	12	273	53
338			

#4

713

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

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

**TMC 2441 - CSAH 12 @ 111th Lane  
Coon Rapids MN  
Tuesday, February 6, 2024**

Time	Southbound CSAH 12						Westbound Eisenhower Elementary						Northbound CSAH 12						Eastbound 111th Lane						VEHICLE TOTAL						
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total							
12:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4
12:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4
12:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	7
12:45 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	8
Hourly Total	0	0	11	0	0	11	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	23
1:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	6
1:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	1	0	0	0	0	1	0	1	6
1:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	1	8	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	10
1:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
Hourly Total	0	0	6	1	0	7	0	0	0	0	0	0	0	2	16	0	0	18	0	0	0	1	0	0	0	0	0	1	0	1	26
2:00 AM	0	0	3	1	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	6
2:15 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
2:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Hourly Total	0	0	7	1	0	8	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	17
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	3
3:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	4
Hourly Total	0	0	5	0	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2	0	2	0	0	0	2	0	2	8
4:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	6
4:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	0	0	0	1	0	1	7
4:30 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
4:45 AM	0	0	6	1	0	7	0	0	0	0	0	0	0	1	4	0	0	5	0	0	0	1	0	1	0	0	0	1	0	1	13
Hourly Total	0	0	19	1	0	20	0	0	0	0	0	0	0	1	8	0	0	9	0	1	0	2	0	3	0	0	0	2	0	3	32
5:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	6	0	0	6	0	1	0	0	0	1	0	0	0	0	0	1	11
5:15 AM	0	0	8	0	0	8	0	0	0	0	0	0	0	0	7	0	0	7	0	2	0	0	0	2	0	0	0	0	0	2	17
5:30 AM	0	0	16	0	0	16	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	3	0	3	0	0	0	3	0	3	30
5:45 AM	0	0	19	0	0	19	0	0	0	0	0	0	0	0	9	0	0	9	0	2	0	3	0	5	0	0	0	3	0	5	33
Hourly Total	0	0	47	0	0	47	0	0	0	0	0	0	0	0	33	0	0	33	0	5	0	6	0	11	0	0	0	6	0	11	91
6:00 AM	0	0	9	1	0	10	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	1	0	1	0	0	0	1	0	1	22
6:15 AM	0	0	11	0	0	11	0	0	0	0	0	0	0	1	22	0	0	23	0	1	0	2	0	3	0	0	0	2	0	3	37
6:30 AM	0	0	23	0	0	23	0	0	0	1	0	1	0	0	22	1	0	23	0	2	0	2	0	4	0	0	0	2	0	4	51
6:45 AM	0	0	20	0	0	20	0	0	0	0	0	0	0	0	26	0	0	26	0	1	0	0	0	1	0	0	0	0	0	1	47
Hourly Total	0	0	63	1	0	64	0	0	0	1	0	1	0	1	81	1	0	83	0	4	0	5	0	9	0	0	0	5	0	9	157
7:00 AM	0	1	42	4	0	47	0	0	0	1	0	1	0	1	30	1	0	32	0	0	1	5	0	6	0	0	0	5	0	6	86
7:15 AM	0	0	41	1	0	42	0	0	0	0	0	0	0	0	50	1	0	51	0	0	0	5	0	5	0	0	0	5	0	5	98
7:30 AM	0	0	59	1	0	60	0	2	0	1	0	3	0	1	48	4	0	53	0	0	2	2	0	4	0	0	0	2	0	4	120
7:45 AM	0	1	58	0	0	59	0	1	1	1	0	3	0	2	75	0	0	77	0	3	2	2	0	7	0	0	0	2	0	7	146
Hourly Total	0	2	200	6	0	208	0	3	1	3	0	7	0	4	203	6	0	213	0	3	5	14	0	22	0	0	0	22	0	22	450

**TMC 2441 - CSAH 12 @ 111th Lane  
Coon Rapids MN  
Tuesday, February 6, 2024**

Time	Southbound CSAH 12						Westbound Eisenhower Elementary						Northbound CSAH 12						Eastbound 111th Lane						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	6	45	3	0	54	0	0	0	2	0	2	0	2	87	2	0	91	0	4	0	5	0	9	156
8:15 AM	0	7	60	1	0	68	0	0	0	0	0	0	0	1	61	8	0	70	0	2	1	4	0	7	145
8:30 AM	0	2	33	0	0	35	0	0	0	0	0	0	0	0	51	4	0	55	0	0	0	5	0	5	95
8:45 AM	0	10	34	1	0	45	0	4	0	3	0	7	0	3	38	8	0	49	0	1	0	6	0	7	108
Hourly Total	0	25	172	5	0	202	0	4	0	5	0	9	0	6	237	22	0	265	0	7	1	20	0	28	504
9:00 AM	0	23	52	1	3	76	0	24	0	24	0	48	0	1	30	20	0	51	0	1	10	3	0	14	189
9:15 AM	0	12	41	3	1	56	0	26	2	27	0	55	0	0	39	27	0	66	0	1	8	1	0	10	187
9:30 AM	1	3	56	0	0	60	0	2	0	4	1	6	0	0	43	2	0	45	0	1	0	2	0	3	114
9:45 AM	0	1	37	0	0	38	0	2	0	1	0	3	0	2	40	3	0	45	0	0	0	3	0	3	89
Hourly Total	1	39	186	4	4	230	0	54	2	56	1	112	0	3	152	52	0	207	0	3	18	9	0	30	579
10:00 AM	0	1	36	1	0	38	0	1	0	1	0	2	0	1	44	1	0	46	0	1	0	3	0	4	90
10:15 AM	0	0	43	0	0	43	0	0	0	1	0	1	0	3	43	0	0	46	0	1	0	1	0	2	92
10:30 AM	0	0	42	2	0	44	0	0	0	0	0	0	0	0	51	0	0	51	0	0	0	3	1	3	98
10:45 AM	0	1	35	1	0	37	0	0	0	2	0	2	0	1	58	1	0	60	0	0	0	0	0	0	99
Hourly Total	0	2	156	4	0	162	0	1	0	4	0	5	0	5	196	2	0	203	0	2	0	7	1	9	379
11:00 AM	0	1	48	2	0	51	0	2	0	0	0	2	0	0	48	0	0	48	0	1	0	1	0	2	103
11:15 AM	0	4	40	0	0	44	0	2	0	2	0	4	0	0	47	0	0	47	0	0	0	2	0	2	97
11:30 AM	0	0	48	0	0	48	0	0	0	0	0	0	0	0	62	0	0	62	0	2	0	1	0	3	113
11:45 AM	0	1	59	1	0	61	0	0	0	0	0	0	0	1	60	0	0	61	0	0	0	1	0	1	123
Hourly Total	0	6	195	3	0	204	0	4	0	2	0	6	0	1	217	0	0	218	0	3	0	5	0	8	436
12:00 PM	0	2	45	1	0	48	0	0	0	2	1	2	0	1	61	0	0	62	0	3	0	2	0	5	117
12:15 PM	0	0	40	2	0	42	0	2	0	0	0	2	0	2	33	2	0	37	0	1	0	6	1	7	88
12:30 PM	0	1	58	1	0	60	0	0	0	2	0	2	0	0	56	1	0	57	0	1	0	3	0	4	123
12:45 PM	0	2	49	0	1	51	0	2	0	0	0	2	0	0	52	0	1	52	0	0	0	4	0	4	109
Hourly Total	0	5	192	4	1	201	0	4	0	4	1	8	0	3	202	3	1	208	0	5	0	15	1	20	437
1:00 PM	0	1	48	3	0	52	0	1	0	1	0	2	0	1	51	1	0	53	0	0	0	2	0	2	109
1:15 PM	0	1	52	1	0	54	0	1	0	1	0	2	0	1	58	1	0	60	0	1	0	1	2	2	118
1:30 PM	0	0	42	1	0	43	0	0	0	1	0	1	0	0	58	0	0	58	0	0	0	3	2	3	105
1:45 PM	0	2	50	1	0	53	0	0	0	0	0	0	0	0	55	0	0	55	0	0	0	0	0	0	108
Hourly Total	0	4	192	6	0	202	0	2	0	3	0	5	0	2	222	2	0	226	0	1	0	6	4	7	440
2:00 PM	0	0	56	1	0	57	0	0	0	1	0	1	0	0	50	0	1	50	0	2	0	5	0	7	115
2:15 PM	0	0	61	2	0	63	0	0	0	0	0	0	0	1	62	0	0	63	0	0	0	0	0	0	126
2:30 PM	0	1	68	2	0	71	0	0	0	1	0	1	0	0	75	1	0	76	0	1	0	2	0	3	151
2:45 PM	0	0	67	0	0	67	0	2	0	1	0	3	0	1	94	0	0	95	0	1	0	5	0	6	171
Hourly Total	0	1	252	5	0	258	0	2	0	3	0	5	0	2	281	1	1	284	0	4	0	12	0	16	563
3:00 PM	0	2	71	6	1	79	0	1	0	3	1	4	0	2	61	2	0	65	0	1	1	0	2	2	150
3:15 PM	0	7	83	6	1	96	0	2	0	0	0	2	0	3	59	16	0	78	0	1	1	2	3	4	180
3:30 PM	0	7	77	0	1	84	0	2	0	0	2	2	0	3	63	12	0	78	0	1	2	3	3	6	170
3:45 PM	0	12	84	4	0	100	0	3	1	2	0	6	0	3	78	16	0	97	0	3	3	2	1	8	211
Hourly Total	0	28	315	16	3	359	0	8	1	5	3	14	0	11	261	46	0	318	0	6	7	7	9	20	711

**TMC 2441 - CSAH 12 @ 111th Lane**  
**Coon Rapids MN**  
**Tuesday, February 6, 2024**

Time	Southbound CSAH 12						Westbound Eisenhower Elementary						Northbound CSAH 12						Eastbound 111th Lane						VEHICLE TOTAL	
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total		
4:00 PM	0	5	80	4	9	89	0	32	2	60	1	94	0	3	73	9	0	85	0	2	3	5	8	10	278	
4:15 PM	0	2	58	3	3	63	0	4	1	6	1	11	0	3	73	1	0	77	0	2	0	4	1	6	157	
4:30 PM	0	4	69	1	0	74	0	3	0	4	0	7	0	3	75	6	0	84	0	1	1	2	2	4	169	
4:45 PM	0	7	62	1	1	70	0	9	1	19	0	29	0	4	84	10	1	98	0	3	1	6	2	10	207	
Hourly Total	0	18	269	9	13	296	0	48	4	89	2	141	0	13	305	26	1	344	0	8	5	17	13	30	811	
5:00 PM	0	0	67	3	0	70	0	5	0	3	0	8	0	4	79	1	0	84	0	2	1	1	1	4	166	
5:15 PM	0	0	69	4	0	73	0	3	0	0	0	3	0	3	92	0	0	95	0	2	0	3	1	5	176	
5:30 PM	0	0	51	5	0	56	0	0	0	0	0	0	0	2	70	0	0	72	0	2	0	3	0	5	133	
5:45 PM	0	1	70	3	0	74	0	0	0	2	0	2	0	0	62	0	0	62	0	2	0	5	0	7	145	
Hourly Total	0	1	257	15	0	273	0	8	0	5	0	13	0	9	303	1	0	313	0	8	1	12	2	21	620	
6:00 PM	0	1	55	1	0	57	0	1	0	1	0	2	0	4	61	0	0	65	0	2	0	1	0	3	127	
6:15 PM	0	1	55	1	0	57	0	0	0	1	0	1	0	0	61	0	0	61	0	0	0	1	0	1	120	
6:30 PM	0	0	43	1	0	44	0	0	0	0	0	0	0	1	49	0	0	50	0	1	0	0	0	1	95	
6:45 PM	0	0	45	1	0	46	0	0	0	0	0	0	0	2	54	1	0	57	0	0	0	2	0	2	105	
Hourly Total	0	2	198	4	0	204	0	1	0	2	0	3	0	7	225	1	0	233	0	3	0	4	0	7	447	
7:00 PM	0	0	23	2	0	25	0	1	0	0	0	1	0	1	41	1	0	43	0	1	0	2	0	3	72	
7:15 PM	0	0	35	2	0	37	0	0	0	1	0	1	0	1	54	0	0	55	0	0	0	1	0	1	94	
7:30 PM	0	1	30	1	0	32	0	0	0	1	0	1	0	3	38	0	0	41	0	1	0	0	0	1	75	
7:45 PM	0	1	24	4	0	29	0	0	0	0	0	0	0	1	35	0	0	36	0	0	0	0	0	0	65	
Hourly Total	0	2	112	9	0	123	0	1	0	2	0	3	0	6	168	1	0	175	0	2	0	3	0	5	306	
8:00 PM	0	0	19	0	0	19	0	1	0	0	0	1	0	0	38	0	0	38	0	0	0	2	0	2	60	
8:15 PM	0	0	34	0	0	34	0	0	0	0	0	0	0	2	34	0	0	36	0	0	0	1	0	1	71	
8:30 PM	0	0	26	0	0	26	0	1	0	0	0	1	0	1	30	1	0	32	0	0	0	2	0	2	61	
8:45 PM	0	0	28	1	0	29	0	0	0	0	0	0	0	1	20	0	0	21	0	0	0	1	0	1	51	
Hourly Total	0	0	107	1	0	108	0	2	0	0	0	2	0	4	122	1	0	127	0	0	0	6	0	6	243	
9:00 PM	0	0	30	0	0	30	0	0	0	0	0	0	0	0	22	0	0	22	0	0	0	1	0	1	53	
9:15 PM	0	0	20	3	0	23	0	0	0	0	0	0	0	1	26	0	0	27	0	1	0	1	0	2	52	
9:30 PM	0	0	22	0	0	22	0	0	0	0	0	0	0	1	15	0	0	16	0	1	0	0	0	1	39	
9:45 PM	0	0	19	0	0	19	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	1	0	1	44	
Hourly Total	0	0	91	3	0	94	0	0	0	0	0	0	0	2	87	0	0	89	0	2	0	3	0	5	188	
10:00 PM	0	0	20	0	0	20	0	0	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	0	36	
10:15 PM	0	0	10	0	0	10	0	0	0	0	0	0	0	2	16	0	0	18	0	0	0	1	0	1	29	
10:30 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	1	8	0	0	9	0	0	0	0	0	0	16	
10:45 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	1	0	1	15	
Hourly Total	0	0	44	0	0	44	0	0	0	0	0	0	0	3	47	0	0	50	0	0	0	2	0	2	96	
11:00 PM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	19	
11:15 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	0	11	
11:30 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	12	
11:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	9	
Hourly Total	0	0	26	0	0	26	0	0	0	0	0	0	0	1	24	0	0	25	0	0	0	0	0	0	51	
<b>DAILY TOTAL</b>	<b>1</b>	<b>135</b>	<b>3122</b>	<b>98</b>	<b>21</b>	<b>3356</b>	<b>0</b>	<b>142</b>	<b>8</b>	<b>184</b>	<b>7</b>	<b>334</b>	<b>0</b>	<b>86</b>	<b>3412</b>	<b>165</b>	<b>3</b>	<b>3663</b>	<b>0</b>	<b>67</b>	<b>37</b>	<b>158</b>	<b>30</b>	<b>262</b>	<b>7615</b>	
<b>Cars</b>	1	135	3058	97	21	3291	0	142	8	184	7	334	0	84	3337	165	2	3586	0	64	37	155	26	256	7467	
<b>Heavy Vehicles</b>	0	0	64	1	0	65	0	0	0	0	0	0	0	2	75	0	1	77	0	3	0	3	4	6	148	
<b>Heavy Vehicle %</b>	0.00%	0.00%	2.05%	1.02%	0.00%	1.94%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.33%	2.20%	0.00%	33.33%	2.10%	0.00%	4.48%	0.00%	1.90%	13.33%	2.29%	1.94%

**TMC 2441 - CSAH 12 @ 111th Lane  
Coon Rapids MN  
Tuesday, February 6, 2024**







**AM Peak Hour**

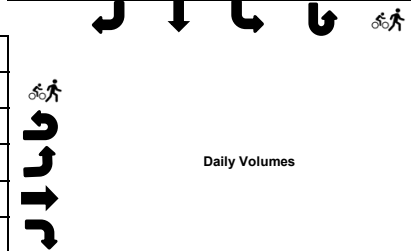
Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL						
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total							
8:45 AM	0	10	34	1	0	45	0	4	0	3	0	7	0	3	38	8	0	49	0	1	0	6	0	7	0	1	10	3	0	14	108
9:00 AM	0	23	52	1	3	76	0	24	0	24	0	48	0	1	30	20	0	51	0	1	10	3	0	14	189						
9:15 AM	0	12	41	3	1	56	0	26	2	27	0	55	0	0	39	27	0	66	0	1	8	1	0	10	187						
9:30 AM	1	3	56	0	0	60	0	2	0	4	1	6	0	0	43	2	0	45	0	1	0	2	0	3	114						
Peak Hour Total	1	48	183	5	4	237	0	56	2	58	1	116	0	4	150	57	0	211	0	4	18	12	0	34	598						
PHF	0.250	0.522	0.817	0.417	0.333	0.780	0.000	0.538	0.250	0.537	0.250	0.527	0.000	0.333	0.872	0.528	0.000	0.799	0.000	1.000	0.450	0.500	0.000	0.607	0.791						

**PM Peak Hour**

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
3:15 PM	0	7	83	6	1	96	0	2	0	0	0	2	0	3	59	16	0	78	0	1	1	2	3	4	180
3:30 PM	0	7	77	0	1	84	0	2	0	0	2	2	0	3	63	12	0	78	0	1	2	3	3	6	170
3:45 PM	0	12	84	4	0	100	0	3	1	2	0	6	0	3	78	16	0	97	0	3	3	2	1	8	211
4:00 PM	0	5	80	4	9	89	0	32	2	60	1	94	0	3	73	9	0	85	0	2	3	5	8	10	278
Peak Hour Total	0	31	324	14	11	369	0	39	3	62	3	104	0	12	273	53	0	338	0	7	9	12	15	28	839
PHF	0.000	0.646	0.964	0.583	0.306	0.923	0.000	0.305	0.375	0.258	0.375	0.277	0.000	1.000	0.875	0.828	0.000	0.871	0.000	0.583	0.750	0.600	0.469	0.700	0.754

Total Vehicles On Leg		7020			
Vehicles Entering Intersection		3356	Vehicles Exiting Intersection		3664
<b>Southbound</b>					
Cars	97	3058	135	1	21
Heavy	1	64	0	0	0
<b>Total</b>	<b>98</b>	<b>3122</b>	<b>135</b>	<b>1</b>	<b>21</b>

Total Vehicles on Leg 454	Vehicles Entering Intersection 262	Eastbound	Cars	Heavy	Total	     
			26	4	30	
	0		0	0		
	64		3	67		
	37		0	37		
Vehicles Exiting Intersection 192	155	3	158			



Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 334	Total Vehicles on Leg 671
184	0	184			
8	0	8			
142	0	142			
0	0	0			
7	0	7	Vehicles Exiting Intersection 337		

Cars	2	0	84	3337	165
Heavy	1	0	2	75	0
<b>Total</b>	<b>3</b>	<b>0</b>	<b>86</b>	<b>3412</b>	<b>165</b>
<b>Northbound</b>					
Vehicles Entering Intersection 3663			Vehicles Exiting Intersection 3422		
Total Vehicles On Leg			7085		





# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2441

Study Date : 02/23/2024

## Signal Warrants - Summary

---

### Major Street Approaches

Northbound: CSAH 12

Number of Lanes : 1

Total Approach Volume: 3,663

Southbound: CSAH 12

Number of Lanes : 1

Total Approach Volume: 3,356

### Minor Street Approaches

Eastbound: 111th Lane

Number of Lanes : 1

Total Approach Volume: 262

Westbound: Eisenhower Elementary

Number of Lanes : 1

Total Approach Volume: 334

---

### Warrant Summary (Urban Values Apply)

**Warrant 1 - Eight Hour Vehicular Volumes.....Not Satisfied**

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

Required volumes reached for 0 hours, 8 are needed

**Warrant 1B - Interruption of Continuous Traffic.....Not Satisfied**

Required volumes reached for 0 hours, 8 are needed

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

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

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

**Warrant 2 - Four Hour Volumes.....Not Satisfied**

Number of hours (0) volumes exceed minimum < minimum required (4).

**Warrant 3 - Peak Hour.....Not Satisfied**

**Warrant 3A - Peak Hour Delay.....Not Satisfied**

Approach volumes on minor street don't exceed minimums for any one hour period. Delay data not evaluated.

**Warrant 3B - Peak Hour Volumes.....Not Satisfied**

Volumes do not exceed minimums for any 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 2441

Study Date : 02/23/2024

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

### Site Data Required

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

### Volume Requirements

Veh/Hr Major = **500**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:15 - 16:15	338	+	369	=	707	28	104	No
15:00 - 16:00	318	+	359	=	677	20	14	No
15:30 - 16:30	337	+	336	=	673	30	113	No
15:45 - 16:45	343	+	326	=	669	28	118	No
16:30 - 17:30	361	+	287	=	648	23	47	No
14:45 - 15:45	316	+	326	=	642	18	11	No
16:00 - 17:00	344	+	296	=	640	30	141	No
14:30 - 15:30	314	+	313	=	627	15	10	No
16:15 - 17:15	343	+	277	=	620	24	55	No
16:45 - 17:45	349	+	269	=	618	24	40	No
17:00 - 18:00	313	+	273	=	586	21	13	No
14:15 - 15:15	299	+	280	=	579	11	8	No
17:15 - 18:15	294	+	260	=	554	20	7	No
14:00 - 15:00	284	+	258	=	542	16	5	No
07:30 - 08:30	291	+	241	=	532	27	8	No
07:45 - 08:45	293	+	216	=	509	28	5	No
17:30 - 18:30	260	+	244	=	504	16	5	No
13:45 - 14:45	244	+	244	=	488	10	2	No
07:15 - 08:15	272	+	215	=	487	25	8	No
17:45 - 18:45	238	+	232	=	470	12	5	No
08:00 - 09:00	265	+	202	=	467	28	9	No
08:15 - 09:15	225	+	224	=	449	33	55	No
08:45 - 09:45	211	+	237	=	448	34	116	No
13:30 - 14:30	226	+	216	=	442	10	2	No
12:30 - 13:30	222		217		439	12	8	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2441

Study Date : 02/23/2024

## 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

Only 0 one hour periods meet minimums.  
Warrant is NOT met.

#### Site Data Required

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

#### Volume Requirements

Veh/Hr Major = **750**

Veh/Hr Minor = **75**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:15 - 16:15	338	+	369	=	707	28	104	No
15:00 - 16:00	318	+	359	=	677	20	14	No
15:30 - 16:30	337	+	336	=	673	30	113	No
15:45 - 16:45	343	+	326	=	669	28	118	No
16:30 - 17:30	361	+	287	=	648	23	47	No
14:45 - 15:45	316	+	326	=	642	18	11	No
16:00 - 17:00	344	+	296	=	640	30	141	No
14:30 - 15:30	314	+	313	=	627	15	10	No
16:15 - 17:15	343	+	277	=	620	24	55	No
16:45 - 17:45	349	+	269	=	618	24	40	No
17:00 - 18:00	313	+	273	=	586	21	13	No
14:15 - 15:15	299	+	280	=	579	11	8	No
17:15 - 18:15	294	+	260	=	554	20	7	No
14:00 - 15:00	284	+	258	=	542	16	5	No
07:30 - 08:30	291	+	241	=	532	27	8	No
07:45 - 08:45	293	+	216	=	509	28	5	No
17:30 - 18:30	260	+	244	=	504	16	5	No
13:45 - 14:45	244	+	244	=	488	10	2	No
07:15 - 08:15	272	+	215	=	487	25	8	No
17:45 - 18:45	238	+	232	=	470	12	5	No
08:00 - 09:00	265	+	202	=	467	28	9	No
08:15 - 09:15	225	+	224	=	449	33	55	No
08:45 - 09:45	211	+	237	=	448	34	116	No
13:30 - 14:30	226	+	216	=	442	10	2	No
12:30 - 13:30	222		217		439	12	8	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2441

Study Date : 02/23/2024

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

#### Site Data Required

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

#### Volume Requirements

Warrant 1A 1B  
Veh/Hr Major = **400 600**  
  
Veh/Hr Minor = **120 60**

#### Major Road CSAH 12

#### Minor Road 111th Lane

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:00 - 17:00	344	+	296	=	640	30	141	Yes
15:15 - 16:15	338	+	369	=	707	28	104	No
15:00 - 16:00	318	+	359	=	677	20	14	No
15:30 - 16:30	337	+	336	=	673	30	113	No
15:45 - 16:45	343	+	326	=	669	28	118	No
14:45 - 15:45	316	+	326	=	642	18	11	No
14:30 - 15:30	314	+	313	=	627	15	10	No
17:00 - 18:00	313	+	273	=	586	21	13	No
14:15 - 15:15	299	+	280	=	579	11	8	No
17:15 - 18:15	294	+	260	=	554	20	7	No
14:00 - 15:00	284	+	258	=	542	16	5	No
07:30 - 08:30	291		241		532	27	8	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:15 - 16:15	338	+	369	=	707	28	104	Yes
15:00 - 16:00	318	+	359	=	677	20	14	No
16:30 - 17:30	361	+	287	=	648	23	47	No
14:45 - 15:45	316	+	326	=	642	18	11	No
14:30 - 15:30	314	+	313	=	627	15	10	No
16:15 - 17:15	343	+	277	=	620	24	55	No
16:45 - 17:45	349	+	269	=	618	24	40	No
17:00 - 18:00	313	+	273	=	586	21	13	No
14:15 - 15:15	299	+	280	=	579	11	8	No
17:15 - 18:15	294	+	260	=	554	20	7	No
14:00 - 15:00	284	+	258	=	542	16	5	No
07:30 - 08:30	291		241		532	27	8	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2441

Study Date : 02/23/2024

## 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.

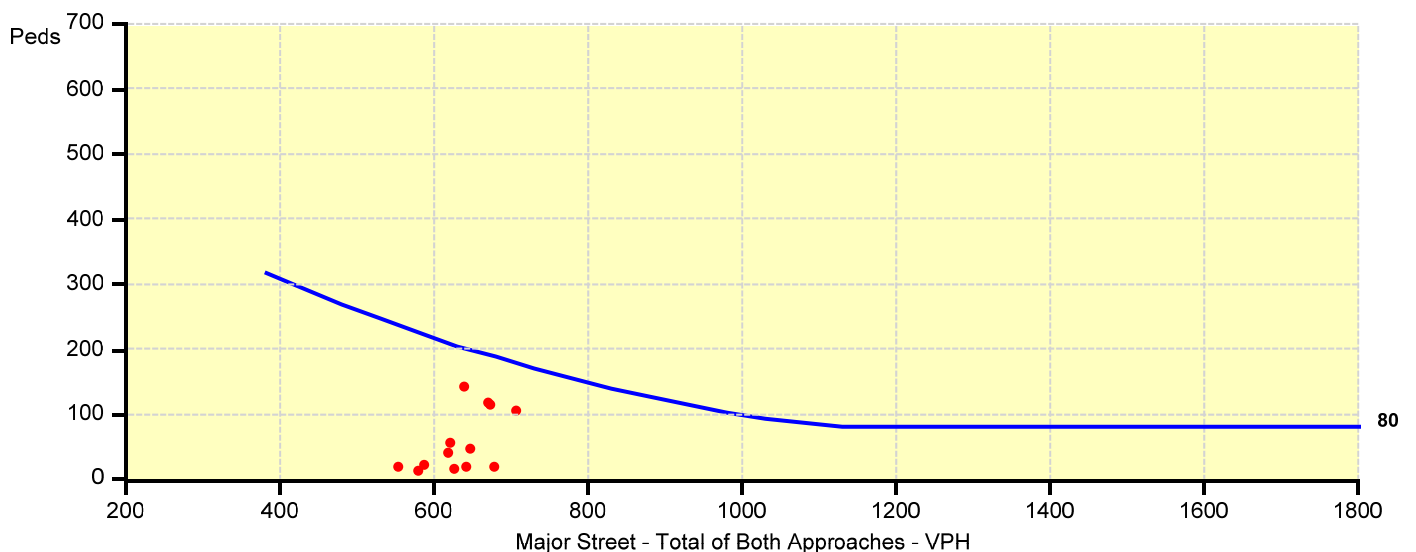
#### Summary

Only 0 one hour periods meet minimums.  
Warrant is NOT met.

#### Site Data Required

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

Time	Major Road CSAH 12				Total	Minor Road 111th Lane		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:15 - 16:15	338	+	369	=	707	28	104	No
15:00 - 16:00	318	+	359	=	677	20	14	No
15:30 - 16:30	337	+	336	=	673	30	113	No
15:45 - 16:45	343	+	326	=	669	28	118	No
16:30 - 17:30	361	+	287	=	648	23	47	No
14:45 - 15:45	316	+	326	=	642	18	11	No
16:00 - 17:00	344	+	296	=	640	30	141	No
14:30 - 15:30	314	+	313	=	627	15	10	No
16:15 - 17:15	343	+	277	=	620	24	55	No
16:45 - 17:45	349	+	269	=	618	24	40	No
17:00 - 18:00	313	+	273	=	586	21	13	No
14:15 - 15:15	299	+	280	=	579	11	8	No



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2441

Study Date : 02/23/2024

## 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

Only 0 one hour periods meet minimums.  
Warrant is NOT met.

#### Site Data Required

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

Time	Major Road CSAH 12				Total	Minor Road 111th Lane		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:15 - 16:15	338	+	369	=	707	28	104	No
15:00 - 16:00	318	+	359	=	677	20	14	No
15:30 - 16:30	337	+	336	=	673	30	113	No
15:45 - 16:45	343	+	326	=	669	28	118	No
16:30 - 17:30	361	+	287	=	648	23	47	No
14:45 - 15:45	316	+	326	=	642	18	11	No
16:00 - 17:00	344	+	296	=	640	30	141	No
14:30 - 15:30	314	+	313	=	627	15	10	No
16:15 - 17:15	343	+	277	=	620	24	55	No
16:45 - 17:45	349	+	269	=	618	24	40	No
17:00 - 18:00	313	+	273	=	586	21	13	No
14:15 - 15:15	299	+	280	=	579	11	8	No

