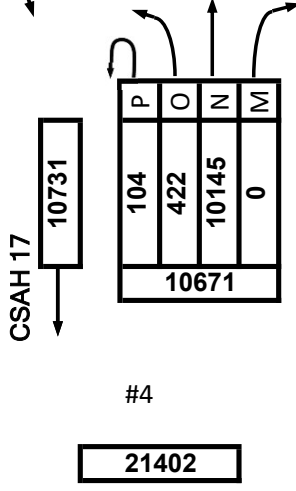
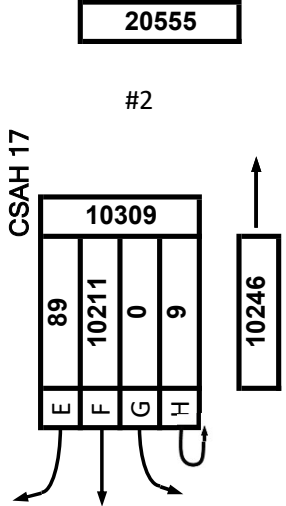
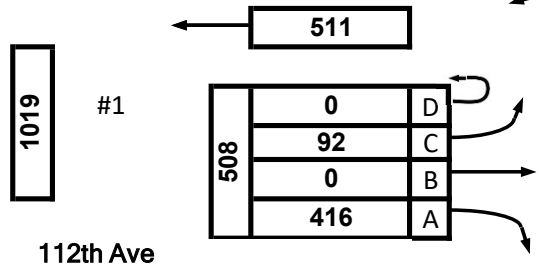
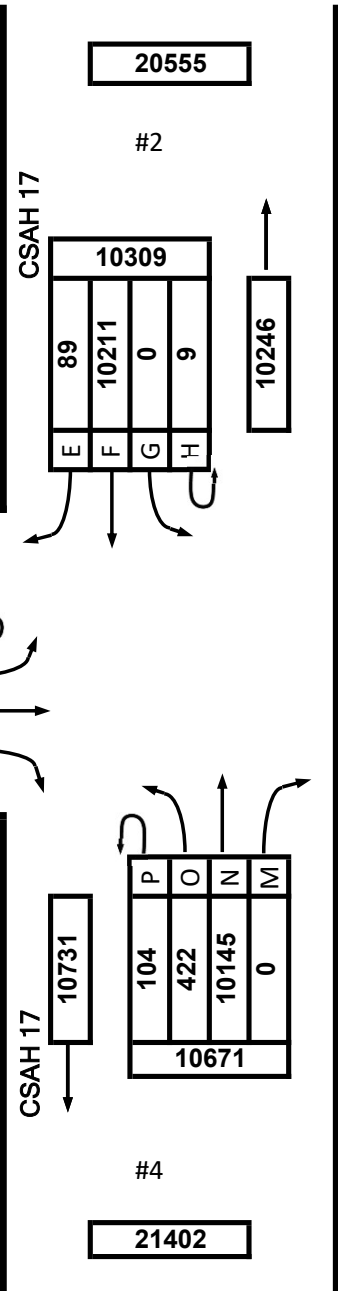


Date : 08/22/23

Count Number : TMC 2359

Location : CSAH 17
@ 112th Ave

Collection Period : 24 HR



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

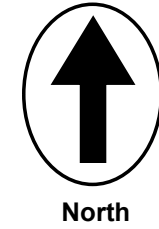
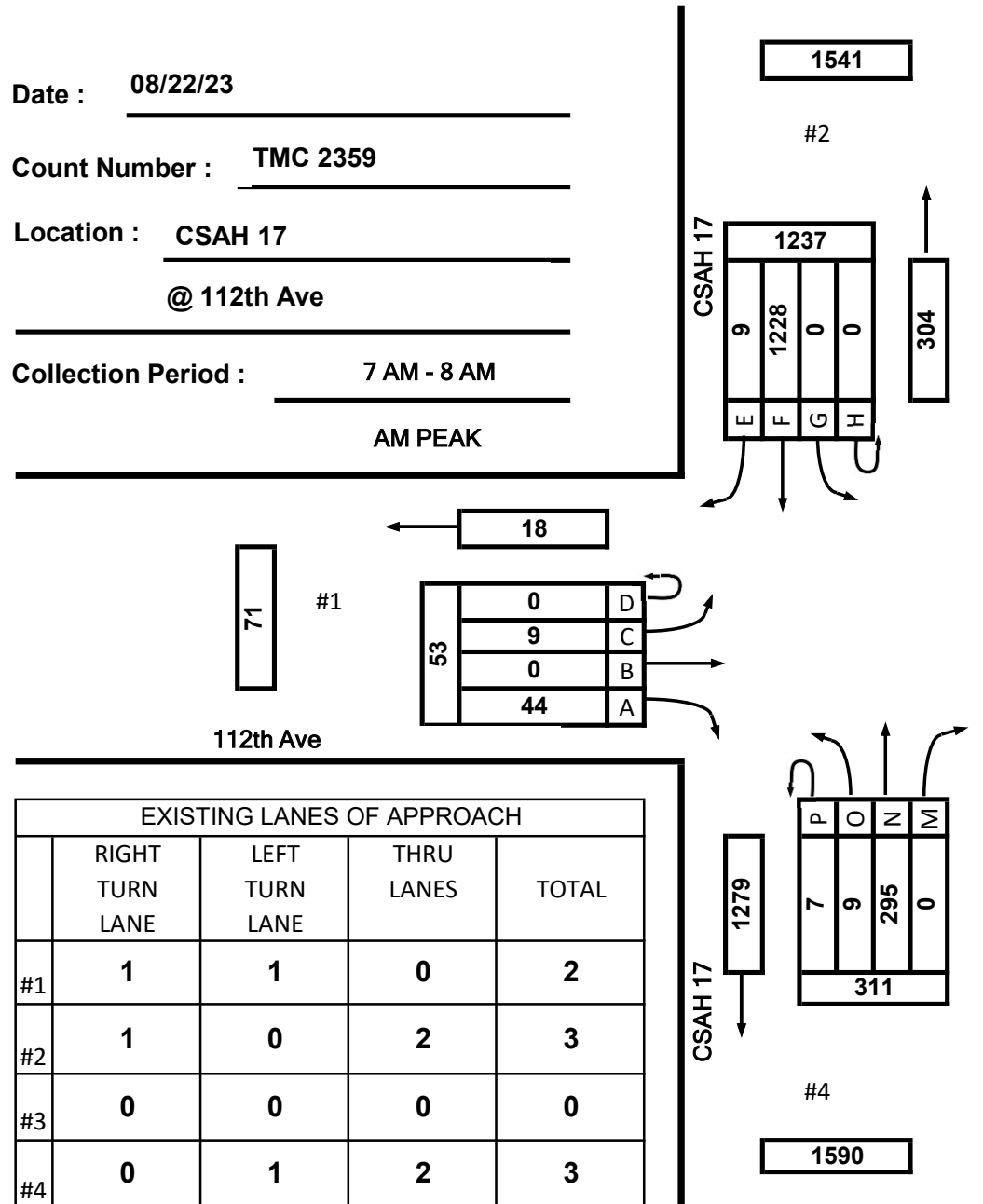
Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 08/22/23

Count Number : TMC 2359

Location : CSAH 17
@ 112th Ave

Collection Period : 7 AM - 8 AM
AM PEAK



Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

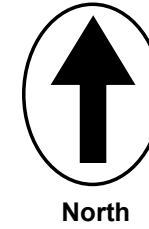
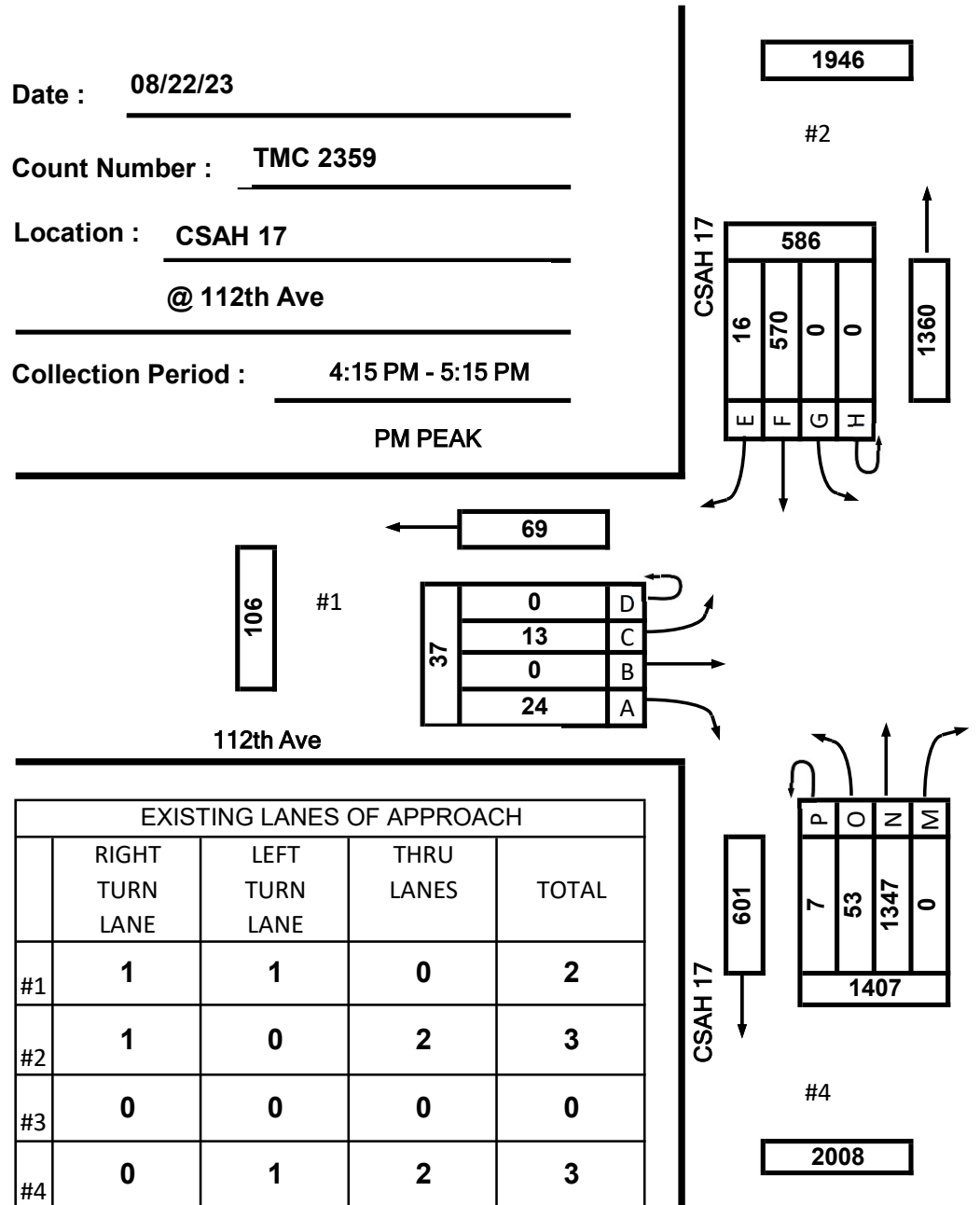
Date : 08/22/23

Count Number : TMC 2359

Location : CSAH 17
@ 112th Ave

Collection Period : 4:15 PM - 5:15 PM

PM PEAK



Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

TMC 2359 - CSAH 17 @ 112th Ave

0 0

Tuesday, August 22, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	4	0	0	4	0	0	0	0	0	0	0	1	18	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	23
12:15 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	14	0	0	15	0	0	0	1	0	0	0	0	0	1	0	0	19
12:30 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	1	0	0	0	0	0	1	0	0	18
12:45 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	17
Hourly Total	0	0	21	0	0	21	0	0	0	0	0	0	0	2	52	0	0	54	0	0	0	2	0	2	0	0	0	2	0	2	77
1:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	14
1:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	13
1:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	8
1:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	11
Hourly Total	0	0	13	0	0	13	0	0	0	0	0	0	0	0	33	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	46
2:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	9
2:15 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	9
2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
2:45 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	0	0	0	0	1	0	1	9
Hourly Total	0	0	15	0	0	15	0	0	0	0	0	0	0	0	19	0	0	19	0	0	0	1	0	1	0	0	0	1	0	1	35
3:00 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	11
3:15 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	12
3:30 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	13
3:45 AM	0	0	11	0	0	11	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	1	0	0	0	0	0	1	0	1	16
Hourly Total	0	0	35	0	0	35	0	0	0	0	0	0	0	2	14	0	0	16	0	0	0	1	0	1	0	0	0	1	0	1	52
4:00 AM	0	0	20	0	0	20	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	26
4:15 AM	0	0	32	0	0	32	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	1	0	0	0	0	0	1	0	1	38
4:30 AM	0	0	41	0	0	41	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	1	0	0	0	0	0	1	0	1	48
4:45 AM	0	0	65	0	0	65	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	3	0	0	0	0	0	3	0	3	76
Hourly Total	0	0	158	0	0	158	0	0	0	0	0	0	0	0	25	0	0	25	0	0	0	5	0	5	0	0	0	5	0	5	188
5:00 AM	0	0	64	0	0	64	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	67
5:15 AM	0	0	120	0	0	120	0	0	0	0	0	0	1	0	15	0	0	16	0	0	0	2	0	0	0	0	0	2	0	2	138
5:30 AM	0	0	146	0	0	146	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	3	0	0	0	0	0	3	0	3	162
5:45 AM	0	0	135	0	0	135	0	0	0	0	0	0	0	0	27	0	0	27	0	0	0	3	0	0	0	0	0	3	0	3	165
Hourly Total	0	0	465	0	0	465	0	0	0	0	0	0	1	0	58	0	0	59	0	0	0	8	0	8	0	0	0	8	0	8	532
6:00 AM	0	0	161	0	0	161	0	0	0	0	0	0	1	0	26	0	0	27	0	1	0	1	0	0	0	1	0	2	0	2	190
6:15 AM	0	0	204	1	0	205	0	0	0	0	0	0	3	0	45	0	0	48	0	0	0	5	1	0	0	0	0	5	1	5	258
6:30 AM	0	0	255	0	0	255	0	0	0	0	0	0	0	2	51	0	0	53	0	4	0	8	0	0	0	4	0	8	0	12	320
6:45 AM	0	0	289	0	0	289	0	0	0	0	0	0	11	1	64	0	0	76	0	3	0	15	0	0	0	3	0	15	0	18	383
Hourly Total	0	0	909	1	0	910	0	0	0	0	0	0	15	3	186	0	0	204	0	8	0	29	1	37	0	8	0	29	1	37	1151
7:00 AM	0	0	273	2	0	275	0	0	0	0	0	0	6	4	70	0	0	80	0	4	0	12	0	0	0	4	0	12	0	16	371
7:15 AM	0	0	323	2	0	325	0	0	0	0	0	0	0	0	71	0	0	71	0	1	0	8	0	0	0	1	0	8	0	9	405
7:30 AM	0	0	358	3	0	361	0	0	0	0	0	0	0	1	65	0	0	66	0	3	0	11	0	0	0	3	0	11	0	14	441
7:45 AM	0	0	274	2	0	276	0	0	0	0	0	0	1	4	89	0	0	94	0	1	0	13	0	0	0	1	0	13	0	14	384
Hourly Total	0	0	1228	9	0	1237	0	0	0	0	0	0	7	9	295	0	0	311	0	9	0	44	0	53	0	9	0	44	0	53	1601

TMC 2359 - CSAH 17 @ 112th Ave

0 0

Tuesday, August 22, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	2	0	255	1	0	258	0	0	0	0	0	0	3	5	63	0	0	71	0	3	0	10	0	13	342
8:15 AM	0	0	234	1	0	235	0	0	0	0	0	0	5	5	74	0	0	84	0	3	0	11	0	14	333
8:30 AM	0	0	208	1	0	209	0	0	0	0	0	0	9	3	91	0	0	103	0	0	0	6	1	6	318
8:45 AM	1	0	190	1	0	192	0	0	0	0	0	0	4	11	80	0	0	95	0	2	0	7	0	9	296
Hourly Total	3	0	887	4	0	894	0	0	0	0	0	0	21	24	308	0	0	353	0	8	0	34	1	42	1289
9:00 AM	0	0	153	0	0	153	0	0	0	0	0	0	1	2	86	0	0	89	0	2	0	8	0	10	252
9:15 AM	0	0	166	1	0	167	0	0	0	0	0	0	7	2	81	0	0	90	0	0	0	4	0	4	261
9:30 AM	1	0	195	0	0	196	0	0	0	0	0	0	1	6	96	0	0	103	0	2	0	5	0	7	306
9:45 AM	0	0	170	0	0	170	0	0	0	0	0	0	1	4	96	0	0	101	0	1	0	5	0	6	277
Hourly Total	1	0	684	1	0	686	0	0	0	0	0	0	10	14	359	0	0	383	0	5	0	22	0	27	1096
10:00 AM	0	0	152	0	0	152	0	0	0	0	0	0	1	3	96	0	0	100	0	1	0	6	0	7	259
10:15 AM	0	0	167	0	2	167	0	0	0	0	0	0	0	3	103	0	0	106	0	0	0	3	1	3	276
10:30 AM	0	0	149	0	0	149	0	0	0	0	0	0	1	2	118	0	0	121	0	1	0	6	0	7	277
10:45 AM	0	0	146	1	0	147	0	0	0	0	0	0	2	4	103	0	0	109	0	1	0	5	3	6	262
Hourly Total	0	0	614	1	2	615	0	0	0	0	0	0	4	12	420	0	0	436	0	3	0	20	4	23	1074
11:00 AM	0	0	182	1	0	183	0	0	0	0	0	0	0	3	108	0	0	111	0	1	0	4	0	5	299
11:15 AM	0	0	133	1	0	134	0	0	0	0	0	0	3	7	131	0	0	141	0	0	0	4	2	4	279
11:30 AM	0	0	161	2	0	163	0	0	0	0	0	0	2	4	123	0	0	129	0	0	0	5	1	5	297
11:45 AM	0	0	141	1	0	142	0	0	0	0	0	0	1	3	135	0	0	139	0	0	0	7	0	7	288
Hourly Total	0	0	617	5	0	622	0	0	0	0	0	0	6	17	497	0	0	520	0	1	0	20	3	21	1163
12:00 PM	1	0	171	2	0	174	0	0	0	0	0	0	0	13	141	0	0	154	0	1	0	10	0	11	339
12:15 PM	0	0	151	1	0	152	0	0	0	0	0	0	1	9	136	0	0	146	0	4	0	10	0	14	312
12:30 PM	0	0	120	0	0	120	0	0	0	0	0	0	1	3	143	0	0	147	0	0	0	5	0	5	272
12:45 PM	0	0	129	1	0	130	0	0	0	0	0	0	1	9	149	0	0	159	0	2	0	7	0	9	298
Hourly Total	1	0	571	4	0	576	0	0	0	0	0	0	3	34	569	0	0	606	0	7	0	32	0	39	1221
1:00 PM	0	0	118	1	0	119	0	0	0	0	0	0	2	4	162	0	0	168	0	2	0	5	0	7	294
1:15 PM	0	0	137	2	0	139	0	0	0	0	0	0	0	5	166	0	0	171	0	0	0	3	0	3	313
1:30 PM	0	0	136	3	0	139	0	0	0	0	0	0	2	7	129	0	0	138	0	0	0	7	0	7	284
1:45 PM	0	0	132	0	0	132	0	0	0	0	0	0	1	4	160	0	0	165	0	1	0	8	0	9	306
Hourly Total	0	0	523	6	0	529	0	0	0	0	0	0	5	20	617	0	0	642	0	3	0	23	0	26	1197
2:00 PM	0	0	141	1	0	142	0	0	0	0	0	0	0	6	172	0	0	178	0	1	0	3	0	4	324
2:15 PM	0	0	136	1	0	137	0	0	0	0	0	0	2	6	235	0	0	243	0	0	0	3	1	3	383
2:30 PM	0	0	121	0	1	121	0	0	0	0	0	0	2	3	198	0	0	203	0	2	0	10	0	12	336
2:45 PM	0	0	139	0	0	139	0	0	0	0	0	0	2	5	214	0	0	221	0	1	0	4	1	5	365
Hourly Total	0	0	537	2	1	539	0	0	0	0	0	0	6	20	819	0	0	845	0	4	0	20	2	24	1408
3:00 PM	0	0	126	0	0	126	0	0	0	0	0	0	1	6	244	0	0	251	0	0	0	5	0	5	382
3:15 PM	0	0	137	0	0	137	0	0	0	0	0	0	0	7	251	0	0	258	0	2	0	7	0	9	404
3:30 PM	0	0	125	2	0	127	0	0	0	0	0	0	2	10	299	0	0	311	0	0	0	8	0	8	446
3:45 PM	0	0	124	3	0	127	0	0	0	0	0	0	1	7	273	0	0	281	0	0	0	7	0	7	415
Hourly Total	0	0	512	5	0	517	0	0	0	0	0	0	4	30	1067	0	0	1101	0	2	0	27	0	29	1647

TMC 2359 - CSAH 17 @ 112th Ave

0 0

Tuesday, August 22, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	0	137	2	0	139	0	0	0	0	0	0	0	9	304	0	0	0	0	5	0	8	0	13	465	
4:15 PM	0	0	149	1	0	150	0	0	0	0	0	0	1	16	329	0	0	0	0	0	3	0	8	0	11	507
4:30 PM	0	0	151	9	0	160	0	0	0	0	0	0	0	8	362	0	0	0	0	0	4	0	9	0	13	543
4:45 PM	0	0	136	3	0	139	0	0	0	0	0	0	5	15	348	0	0	0	0	0	4	0	2	0	6	513
Hourly Total	0	0	573	15	0	588	0	0	0	0	0	0	6	48	1343	0	0	0	0	0	16	0	27	0	43	2028
5:00 PM	0	0	134	3	1	137	0	0	0	0	0	0	1	14	308	0	0	0	0	0	2	0	5	1	7	467
5:15 PM	0	0	139	3	0	142	0	0	0	0	0	0	1	11	326	0	0	0	0	0	3	0	3	0	6	486
5:30 PM	0	0	130	1	0	131	0	0	0	0	0	0	0	10	299	0	0	0	0	0	1	0	13	1	14	454
5:45 PM	0	0	112	2	0	114	0	0	0	0	0	0	2	15	267	0	1	0	0	0	4	0	8	0	12	410
Hourly Total	0	0	515	9	1	524	0	0	0	0	0	0	4	50	1200	0	1	0	0	0	10	0	29	2	39	1817
6:00 PM	1	0	114	1	0	116	0	0	0	0	0	0	1	14	201	0	0	0	0	0	0	0	6	1	6	338
6:15 PM	0	0	122	2	0	124	0	0	0	0	0	0	2	9	183	0	0	0	0	0	1	0	6	0	7	325
6:30 PM	1	0	112	1	0	114	0	0	0	0	0	0	0	4	159	0	0	0	0	0	1	0	5	0	6	283
6:45 PM	0	0	98	0	0	98	0	0	0	0	0	0	0	11	124	0	0	0	0	0	1	0	7	0	8	241
Hourly Total	2	0	446	4	0	452	0	0	0	0	0	0	3	38	667	0	0	0	0	0	3	0	24	1	27	1187
7:00 PM	0	0	88	3	0	91	0	0	0	0	0	0	0	7	131	0	0	0	0	0	1	0	7	0	8	237
7:15 PM	1	0	95	2	0	98	0	0	0	0	0	0	2	9	98	0	0	0	0	0	3	0	4	0	7	214
7:30 PM	0	0	88	2	0	90	0	0	0	0	0	0	0	6	158	0	0	0	0	0	1	0	7	0	8	262
7:45 PM	1	0	62	2	0	65	0	0	0	0	0	0	3	8	129	0	0	0	0	0	0	0	3	2	3	208
Hourly Total	2	0	333	9	0	344	0	0	0	0	0	0	5	30	516	0	0	0	0	0	5	0	21	2	26	921
8:00 PM	0	0	60	2	0	62	0	0	0	0	0	0	1	6	136	0	0	0	0	0	0	0	4	0	4	209
8:15 PM	0	0	70	0	0	70	0	0	0	0	0	0	0	10	127	0	0	0	0	0	1	0	4	1	5	212
8:30 PM	0	0	68	1	0	69	0	0	0	0	0	0	0	6	124	0	0	0	0	0	3	0	3	0	6	205
8:45 PM	0	0	61	2	0	63	0	0	0	0	0	0	1	7	92	0	0	0	0	0	0	0	2	0	2	165
Hourly Total	0	0	259	5	0	264	0	0	0	0	0	0	2	29	479	0	0	0	0	0	4	0	13	1	17	791
9:00 PM	0	0	53	3	0	56	0	0	0	0	0	0	0	8	94	0	0	0	0	0	1	0	0	0	1	159
9:15 PM	0	0	29	0	0	29	0	0	0	0	0	0	0	3	78	0	0	0	0	0	0	0	6	0	6	116
9:30 PM	0	0	44	1	0	45	0	0	0	0	0	0	0	4	54	0	0	0	0	0	1	0	4	0	5	108
9:45 PM	0	0	32	0	0	32	0	0	0	0	0	0	0	5	64	0	0	0	0	0	0	0	0	0	0	101
Hourly Total	0	0	158	4	0	162	0	0	0	0	0	0	0	20	290	0	0	0	0	0	2	0	10	0	12	484
10:00 PM	0	0	30	0	0	30	0	0	0	0	0	0	0	3	52	0	0	0	0	0	0	0	1	0	1	86
10:15 PM	0	0	25	0	0	25	0	0	0	0	0	0	1	0	58	0	0	0	0	0	0	0	0	0	0	84
10:30 PM	0	0	26	1	0	27	0	0	0	0	0	0	0	4	38	0	0	0	0	0	0	0	0	0	0	69
10:45 PM	0	0	20	1	0	21	0	0	0	0	0	0	1	2	28	0	0	0	0	0	1	0	0	0	1	53
Hourly Total	0	0	101	2	0	103	0	0	0	0	0	0	2	9	176	0	0	0	0	0	1	0	1	0	2	292
11:00 PM	0	0	15	1	0	16	0	0	0	0	0	0	0	3	36	0	0	0	0	0	1	0	1	0	2	57
11:15 PM	0	0	9	1	0	10	0	0	0	0	0	0	0	2	40	0	0	0	0	0	0	0	1	0	1	53
11:30 PM	0	0	11	1	0	12	0	0	0	0	0	0	0	2	39	0	0	0	0	0	0	0	0	0	0	53
11:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	4	21	0	0	0	0	0	0	0	1	0	1	28
Hourly Total	0	0	37	3	0	40	0	0	0	0	0	0	0	11	136	0	0	0	0	0	1	0	3	0	4	191
DAILY TOTAL	9	0	10211	89	4	10309	0	0	0	0	0	0	104	422	10145	0	1	10671	0	92	0	416	17	508	21488	
Cars	9	0	9873	88	2	9970	0	0	0	0	0	0	103	420	9986	0	0	10509	0	90	0	416	7	506	20985	
Heavy Vehicles	0	0	338	1	2	339	0	0	0	0	0	0	1	2	159	0	1	162	0	2	0	0	10	2	503	
Heavy Vehicle %	0.00%	0.00%	3.31%	1.12%	50.00%	3.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.96%	0.47%	1.57%	0.00%	100.00%	1.52%	0.00%	2.17%	0.00%	0.00%	58.82%	0.39%	2.34%	

TMC 2359 - CSAH 17 @ 112th Ave

0 0

Tuesday, August 22, 2023

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	
7:00 AM	0	0	273	2	0	275	0	0	0	0	0	0	6	4	70	0	0	80	0	4	0	12	0	16	371
7:15 AM	0	0	323	2	0	325	0	0	0	0	0	0	0	0	71	0	0	71	0	1	0	8	0	9	405
7:30 AM	0	0	358	3	0	361	0	0	0	0	0	0	0	1	65	0	0	66	0	3	0	11	0	14	441
7:45 AM	0	0	274	2	0	276	0	0	0	0	0	0	1	4	89	0	0	94	0	1	0	13	0	14	384
Peak Hour Total PHF	0	0	1228	9	0	1237	0	0	0	0	0	0	7	9	295	0	0	311	0	9	0	44	0	53	1601
	0.000	0.000	0.858	0.750	0.000	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.292	0.563	0.829	0.000	0.000	0.827	0.000	0.563	0.000	0.846	0.000	0.828	0.908

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	
4:15 PM	0	0	149	1	0	150	0	0	0	0	0	0	1	16	329	0	0	346	0	3	0	8	0	11	507
4:30 PM	0	0	151	9	0	160	0	0	0	0	0	0	0	8	362	0	0	370	0	4	0	9	0	13	543
4:45 PM	0	0	136	3	0	139	0	0	0	0	0	0	5	15	348	0	0	368	0	4	0	2	0	6	513
5:00 PM	0	0	134	3	1	137	0	0	0	0	0	0	1	14	308	0	0	323	0	2	0	5	1	7	467
Peak Hour Total PHF	0	0	570	16	1	586	0	0	0	0	0	0	7	53	1347	0	0	1407	0	13	0	24	1	37	2030
	0.000	0.000	0.944	0.444	0.250	0.916	0.000	0.000	0.000	0.000	0.000	0.000	0.350	0.828	0.930	0.000	0.000	0.951	0.000	0.813	0.000	0.667	0.250	0.712	0.935

Total Vehicles On Leg				20555	
Vehicles Entering Intersection		10309	Vehicles Exiting Intersection		10246
Southbound					
Cars	88	9873	0	9	2
Heavy	1	338	0	0	2
Total	89	10211	0	9	4



Total Vehicles on Leg 1019	Vehicles Entering Intersection 508	Eastbound	Cars	7	10	17
			Heavy	0	0	0
	Total		90	2	92	
	Vehicles Exiting Intersection 511		Cars	0	0	0
			Heavy	416	0	416



Daily Volumes

Total Vehicles on Leg 0	Westbound	Cars	0	0	0	
		Heavy	0	0	0	
		Total	0	0	0	
		Vehicles Entering Intersection 0	Cars	0	0	0
			Heavy	0	0	0
			Total	0	0	0
Vehicles Exiting Intersection 0	Cars	0	0	0		
	Heavy	0	0	0		
	Total	0	0	0		



Cars	0	103	420	9986	0	
Heavy	1	1	2	159	0	
Total	1	104	422	10145	0	
Northbound						
Vehicles Entering Intersection			10671	Vehicles Exiting Intersection		10731
Total Vehicles On Leg			21402			

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2359

Study Date : 08/24/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 17

Number of Lanes : 2+

Total Approach Volume: 10,671

Southbound: CSAH 17

Number of Lanes :2+

Total Approach Volume: 10,309

Minor Street Approaches

Eastbound: 112th Ave

Number of Lanes :1

Total Approach Volume: 508

Warrant Summary (Rural 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 2 hours, 8 are needed

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

Required 1A volumes reached for 0 hours, 8 are needed

Required 1B volumes reached for 3 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 2359

Study Date : 08/24/2023

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 = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **420**

Veh/Hr Minor = **105**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	1407	+	586	=	1993	37	0	No
16:00 - 17:00	1397	+	588	=	1985	43	0	No
16:30 - 17:30	1399	+	578	=	1977	32	0	No
16:45 - 17:45	1338	+	549	=	1887	33	0	No
15:45 - 16:45	1310	+	576	=	1886	44	0	No
15:30 - 16:30	1251	+	543	=	1794	39	0	No
17:00 - 18:00	1254	+	524	=	1778	39	0	No
15:15 - 16:15	1163	+	530	=	1693	37	0	No
17:15 - 18:15	1147	+	503	=	1650	38	0	No
15:00 - 16:00	1101	+	517	=	1618	29	0	No
14:45 - 15:45	1041	+	529	=	1570	27	0	No
07:00 - 08:00	311	+	1237	=	1548	53	0	No
06:45 - 07:45	293	+	1250	=	1543	57	0	No
07:15 - 08:15	302	+	1220	=	1522	50	0	No
17:30 - 18:30	1003	+	485	=	1488	39	0	No
14:30 - 15:30	933	+	523	=	1456	31	0	No
07:30 - 08:30	315	+	1130	=	1445	55	0	No
14:15 - 15:15	918	+	523	=	1441	25	0	No
06:30 - 07:30	280	+	1144	=	1424	55	0	No
14:00 - 15:00	845	+	539	=	1384	24	0	No
07:45 - 08:45	352	+	978	=	1330	47	0	No
17:45 - 18:45	857	+	468	=	1325	31	0	No
13:45 - 14:45	789	+	532	=	1321	28	0	No
06:15 - 07:15	257	+	1024	=	1281	51	0	No
13:30 - 14:30	724		550		1274	23	0	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2359

Study Date : 08/24/2023

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 0 hours meet 1A minimums.
Only 3 hours meet 1B minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **336 504**

Veh/Hr Minor = **84 42**

Major Road CSAH 17

Minor Road 112th Ave

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:15 - 17:15	1407	+	586	=	1993	37	0	No
16:00 - 17:00	1397	+	588	=	1985	43	0	No
16:30 - 17:30	1399	+	578	=	1977	32	0	No
16:45 - 17:45	1338	+	549	=	1887	33	0	No
15:45 - 16:45	1310	+	576	=	1886	44	0	No
15:30 - 16:30	1251	+	543	=	1794	39	0	No
17:00 - 18:00	1254	+	524	=	1778	39	0	No
15:15 - 16:15	1163	+	530	=	1693	37	0	No
17:15 - 18:15	1147	+	503	=	1650	38	0	No
15:00 - 16:00	1101	+	517	=	1618	29	0	No
14:45 - 15:45	1041	+	529	=	1570	27	0	No
07:00 - 08:00	311		1237		1548	53	0	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	1310	+	576	=	1886	44	0	Yes
07:15 - 08:15	302	+	1220	=	1522	50	0	Yes
06:15 - 07:15	257	+	1024	=	1281	51	0	Yes
16:45 - 17:45	1338	+	549	=	1887	33	0	No
15:30 - 16:30	1251	+	543	=	1794	39	0	No
17:00 - 18:00	1254	+	524	=	1778	39	0	No
15:15 - 16:15	1163	+	530	=	1693	37	0	No
17:15 - 18:15	1147	+	503	=	1650	38	0	No
15:00 - 16:00	1101	+	517	=	1618	29	0	No
14:45 - 15:45	1041	+	529	=	1570	27	0	No
17:30 - 18:30	1003	+	485	=	1488	39	0	No
14:30 - 15:30	933		523		1456	31	0	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2359

Study Date : 08/24/2023

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.

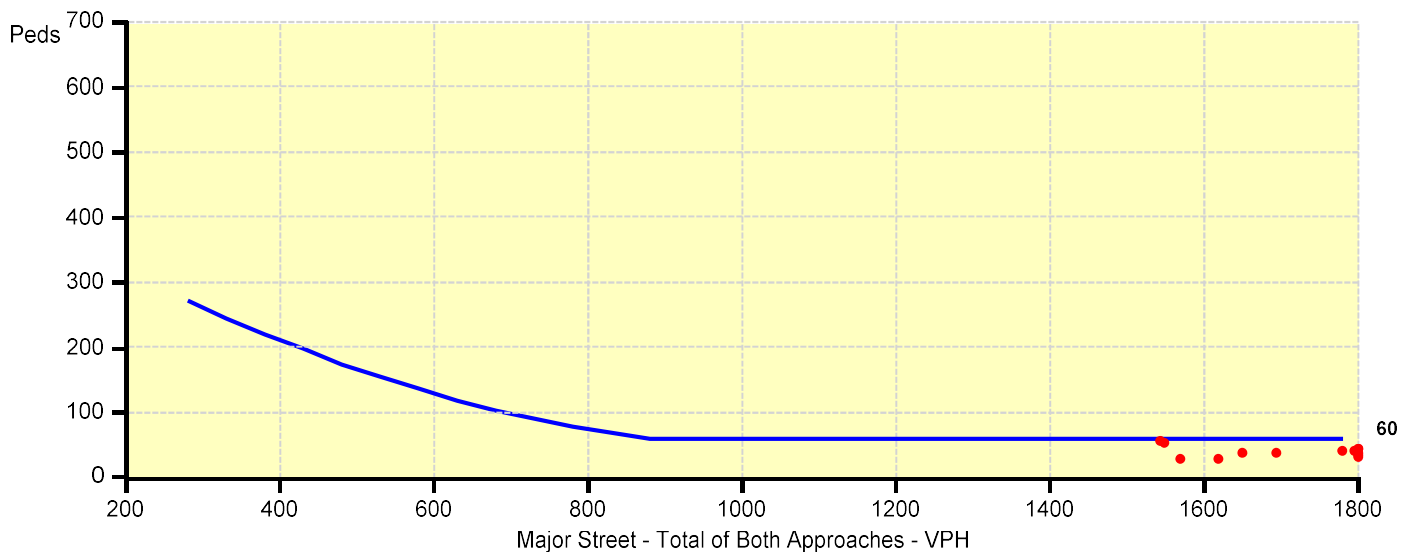
Summary

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

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 17				Total	Minor Road 112th Ave		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	1407	+	586	=	1993	37	0	No
16:00 - 17:00	1397	+	588	=	1985	43	0	No
16:30 - 17:30	1399	+	578	=	1977	32	0	No
16:45 - 17:45	1338	+	549	=	1887	33	0	No
15:45 - 16:45	1310	+	576	=	1886	44	0	No
15:30 - 16:30	1251	+	543	=	1794	39	0	No
17:00 - 18:00	1254	+	524	=	1778	39	0	No
15:15 - 16:15	1163	+	530	=	1693	37	0	No
17:15 - 18:15	1147	+	503	=	1650	38	0	No
15:00 - 16:00	1101	+	517	=	1618	29	0	No
14:45 - 15:45	1041	+	529	=	1570	27	0	No
07:00 - 08:00	311		1237		1548	53	0	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2359

Study Date : 08/24/2023

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 = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 17				Total	Minor Road 112th Ave		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	1407	+	586	=	1993	37	0	No
16:00 - 17:00	1397	+	588	=	1985	43	0	No
16:30 - 17:30	1399	+	578	=	1977	32	0	No
16:45 - 17:45	1338	+	549	=	1887	33	0	No
15:45 - 16:45	1310	+	576	=	1886	44	0	No
15:30 - 16:30	1251	+	543	=	1794	39	0	No
17:00 - 18:00	1254	+	524	=	1778	39	0	No
15:15 - 16:15	1163	+	530	=	1693	37	0	No
17:15 - 18:15	1147	+	503	=	1650	38	0	No
15:00 - 16:00	1101	+	517	=	1618	29	0	No
14:45 - 15:45	1041	+	529	=	1570	27	0	No
07:00 - 08:00	311		1237		1548	53	0	No

