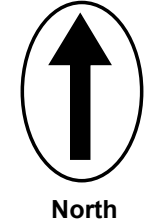


Date: 03/19/24

Count Number: TMC 2452

Location: CSAH 17
@ Restwood Rd

Collection Period: 6 AM - 10 PM



North

7672

#2

CSAH 17

3671			
114	3555	1	1
E	F	G	H

4001

Driveway

I	0	0
J	0	
K	0	
L	0	

#3

1

1

559

#1

319	0	D
	145	C
	0	B
	174	A

Restwood Rd.

240

P	O	N	M
0	126	3855	0
3981			

#4

7710

CSAH 17

3729

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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

Date: 03/19/24

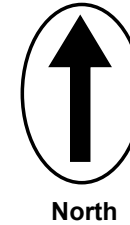
Count Number: TMC 2452

Location: CSAH 17

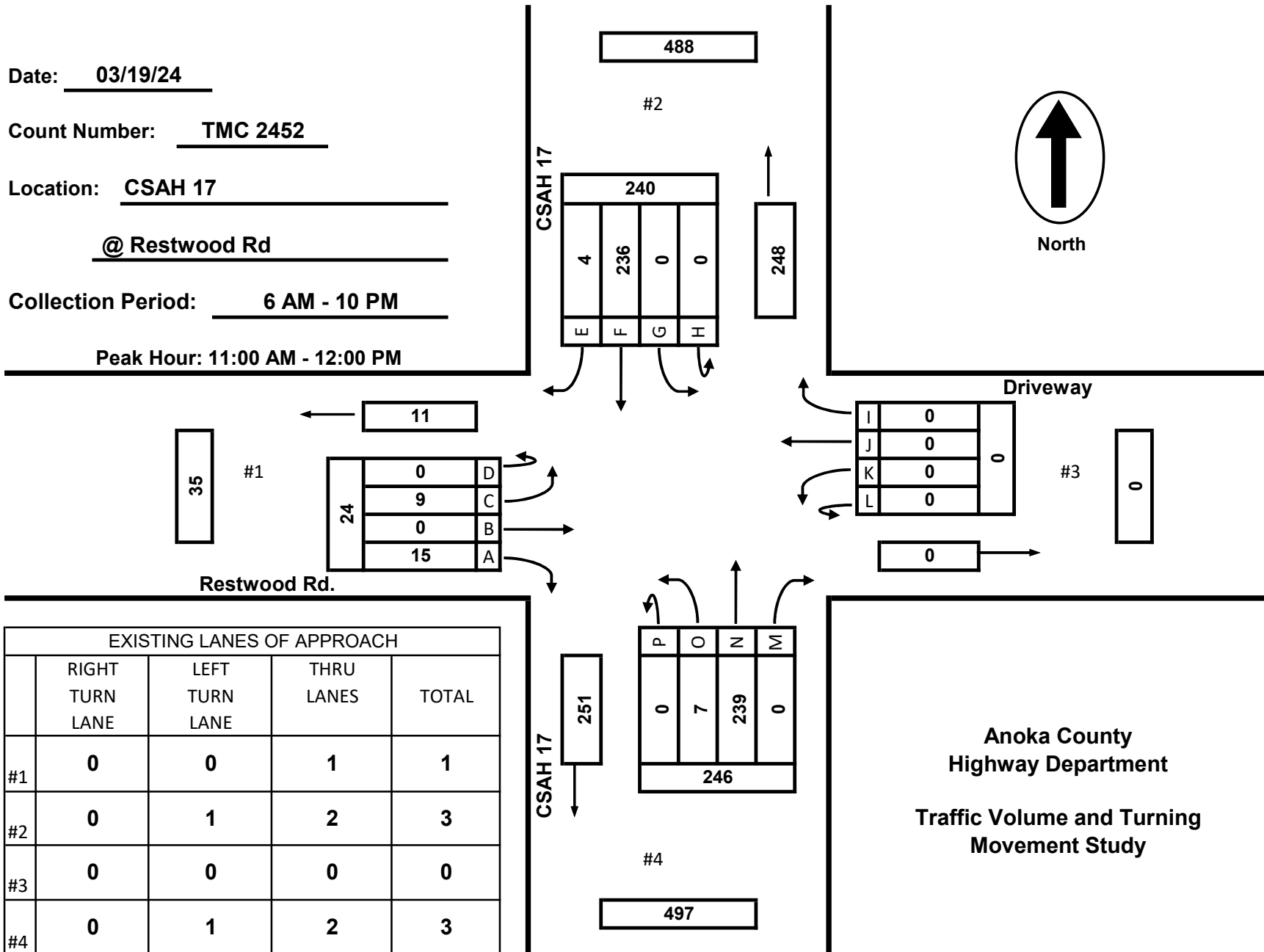
@ Restwood Rd

Collection Period: 6 AM - 10 PM

Peak Hour: 11:00 AM - 12:00 PM



North



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

Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

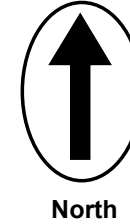
Date: 03/19/24

Count Number: TMC 2452

Location: CSAH 17
@ Restwood Rd

Collection Period: 6 AM - 10 PM

Peak Hour: 4:00 - 5:00 PM



North

879

#2

CSAH 17

357			
14	343	0	0
E	F	G	H

522

Driveway

I	0	0
J	0	
K	0	
L	0	

#3

0

0

59

#1

29	0	D
	8	C
	0	B
	21	A

Restwood Rd.

364

CSAH 17

P	O	N	M
0	16	514	0
530			

#4

894

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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

**TMC 2452 - CSAH 17 @ Restwood Rd
Lexington MN
Tuesday, March 19, 2024**

Time	Southbound CSAH 17						Westbound Driveway						Northbound CSAH 17						Eastbound Restwood Rd.						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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 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
12:30 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
12:45 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
Hourly Total	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
1:00 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
1:15 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
1:30 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
1:45 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
Hourly Total	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
2:00 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
2:15 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
2:30 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
2:45 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
Hourly Total	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
3:00 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
3:15 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
3:30 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
3:45 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
Hourly Total	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
4:00 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
4:15 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
4:30 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
4:45 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
Hourly Total	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
5:00 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
5:15 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
5:30 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
5:45 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
Hourly Total	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
6:00 AM	0	0	27	1	0	28	0	0	0	0	0	0	0	0	19	0	0	19	0	0	0	2	0	2	2	49
6:15 AM	0	0	35	2	0	37	0	0	0	0	0	0	0	0	14	0	0	14	0	2	0	1	0	3	54	
6:30 AM	0	0	50	0	0	50	0	0	0	0	0	0	0	1	25	0	0	26	0	2	0	3	0	5	81	
6:45 AM	0	0	40	0	0	40	0	0	0	0	0	0	0	1	25	0	0	26	0	0	0	1	0	1	67	
Hourly Total	0	0	152	3	0	155	0	0	0	0	0	0	0	2	83	0	0	85	0	4	0	7	0	11	251	
7:00 AM	0	0	56	0	0	56	0	0	0	0	0	0	0	1	31	0	0	32	0	2	0	1	0	3	91	
7:15 AM	0	0	74	0	0	74	0	0	0	0	1	0	0	2	33	0	0	35	0	2	0	3	0	5	114	
7:30 AM	0	0	60	0	1	60	0	0	0	0	0	0	0	0	62	0	0	62	0	3	0	2	0	5	127	
7:45 AM	0	0	71	2	0	73	0	0	0	0	0	0	0	1	56	0	0	57	0	2	0	1	0	3	133	
Hourly Total	0	0	261	2	1	263	0	0	0	0	1	0	0	4	182	0	0	186	0	9	0	7	0	16	465	

**TMC 2452 - CSAH 17 @ Restwood Rd
Lexington MN
Tuesday, March 19, 2024**

Time	Southbound CSAH 17						Westbound Driveway						Northbound CSAH 17						Eastbound Restwood Rd.						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	0	63	2	0	65	0	0	0	0	0	0	0	3	44	0	0	47	0	2	0	2	0	4	116
8:15 AM	1	0	62	1	0	64	0	0	0	0	0	0	0	1	37	0	0	38	0	0	0	3	0	3	105
8:30 AM	0	0	53	0	0	53	0	0	0	0	0	0	0	2	50	0	0	52	0	1	0	6	0	7	112
8:45 AM	0	0	56	1	0	57	0	0	0	0	1	0	0	2	57	0	0	59	0	1	0	2	0	3	119
Hourly Total	1	0	234	4	0	239	0	0	0	0	1	0	0	8	188	0	0	196	0	4	0	13	0	17	452
9:00 AM	0	0	46	1	0	47	0	0	0	0	0	0	0	1	44	0	0	45	0	9	0	4	0	13	105
9:15 AM	0	0	51	3	0	54	0	0	0	0	0	0	0	3	49	0	0	52	0	2	0	1	0	3	109
9:30 AM	0	0	36	2	0	38	0	0	0	0	1	0	0	0	37	0	0	37	0	5	0	3	0	8	83
9:45 AM	0	0	39	2	0	41	0	0	0	0	0	0	0	1	44	0	0	45	0	4	0	1	0	5	91
Hourly Total	0	0	172	8	0	180	0	0	0	0	1	0	0	5	174	0	0	179	0	20	0	9	0	29	388
10:00 AM	0	0	47	2	0	49	0	0	0	0	0	0	0	1	48	0	0	49	0	0	0	2	0	2	100
10:15 AM	0	0	46	2	1	48	0	0	0	0	0	0	0	1	67	0	0	68	0	3	0	2	0	5	121
10:30 AM	0	0	39	0	0	39	0	0	0	0	0	0	0	1	64	0	0	65	0	4	0	0	0	4	108
10:45 AM	0	0	44	2	0	46	0	0	0	0	0	0	0	3	68	0	2	71	0	0	0	2	0	2	119
Hourly Total	0	0	176	6	1	182	0	0	0	0	0	0	0	6	247	0	2	253	0	7	0	6	0	13	448
11:00 AM	0	0	47	1	1	48	0	0	0	0	0	0	0	0	57	0	0	57	0	1	0	3	0	4	109
11:15 AM	0	0	66	1	0	67	0	0	0	0	0	0	0	2	63	0	0	65	0	2	0	3	0	5	137
11:30 AM	0	0	57	1	0	58	0	0	0	0	0	0	0	2	68	0	0	70	0	2	0	5	0	7	135
11:45 AM	0	0	66	1	0	67	0	0	0	0	0	0	0	3	51	0	0	54	0	4	0	4	0	8	129
Hourly Total	0	0	236	4	1	240	0	0	0	0	0	0	0	7	239	0	0	246	0	9	0	15	0	24	510
12:00 PM	0	0	61	2	0	63	0	0	0	0	0	0	0	3	64	0	0	67	0	4	0	6	0	10	140
12:15 PM	0	0	50	1	0	51	0	0	0	0	2	0	0	2	68	0	0	70	0	3	0	5	0	8	129
12:30 PM	0	0	56	3	0	59	0	0	0	0	1	0	0	4	56	0	0	60	0	2	0	0	0	2	121
12:45 PM	0	0	61	1	0	62	0	0	0	0	1	0	0	2	78	0	0	80	0	4	0	7	0	11	153
Hourly Total	0	0	228	7	0	235	0	0	0	0	4	0	0	11	266	0	0	277	0	13	0	18	0	31	543
1:00 PM	0	0	62	2	0	64	0	0	0	0	0	0	0	1	57	0	0	58	0	1	0	4	0	5	127
1:15 PM	0	0	61	2	0	63	0	0	0	0	0	0	0	2	72	0	0	74	0	2	0	3	0	5	142
1:30 PM	0	0	61	0	0	61	0	0	0	0	0	0	0	2	60	0	0	62	0	3	0	2	0	5	128
1:45 PM	0	0	54	3	0	57	0	0	0	0	0	0	0	3	49	0	0	52	0	1	0	2	0	3	112
Hourly Total	0	0	238	7	0	245	0	0	0	0	0	0	0	8	238	0	0	246	0	7	0	11	0	18	509
2:00 PM	0	0	62	0	0	62	0	0	0	0	1	0	0	3	79	0	0	82	0	1	0	4	0	5	149
2:15 PM	0	0	55	3	0	58	0	0	0	0	0	0	0	1	74	0	0	75	0	5	0	2	0	7	140
2:30 PM	0	0	88	2	2	90	0	0	0	0	0	0	0	2	76	0	0	78	0	1	0	1	0	2	170
2:45 PM	0	0	52	2	0	54	0	0	0	0	1	0	0	3	86	0	0	89	0	2	0	2	0	4	147
Hourly Total	0	0	257	7	2	264	0	0	0	0	2	0	0	9	315	0	0	324	0	9	0	9	0	18	606
3:00 PM	0	0	77	6	0	83	0	0	0	0	4	0	0	7	96	0	1	103	0	3	0	3	0	6	192
3:15 PM	0	0	58	1	0	59	0	0	0	0	0	0	0	3	89	0	0	92	0	4	0	5	0	9	160
3:30 PM	0	0	73	2	0	75	0	0	0	0	1	0	0	6	105	0	0	111	0	8	0	4	0	12	198
3:45 PM	0	0	75	7	0	82	0	0	0	0	0	0	0	6	119	0	0	125	0	3	0	4	0	7	214
Hourly Total	0	0	283	16	0	299	0	0	0	0	5	0	0	22	409	0	1	431	0	18	0	16	0	34	764

**TMC 2452 - CSAH 17 @ Restwood Rd
Lexington MN
Tuesday, March 19, 2024**

Time	Southbound CSAH 17						Westbound Driveway						Northbound CSAH 17						Eastbound Restwood Rd.						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	78	4	0	82	0	0	0	0	1	0	0	2	132	0	0	0	134	0	2	0	3	2	5	221
4:15 PM	0	0	107	3	0	110	0	0	0	0	0	0	0	5	118	0	0	0	123	0	2	0	6	1	8	241
4:30 PM	0	0	83	3	0	86	0	0	0	0	0	0	0	6	136	0	1	0	142	0	2	0	6	0	8	236
4:45 PM	0	0	75	4	0	79	0	0	0	0	0	0	0	3	128	0	0	0	131	0	2	0	6	0	8	218
Hourly Total	0	0	343	14	0	357	0	0	0	0	1	0	0	16	514	0	1	0	530	0	8	0	21	3	29	916
5:00 PM	0	0	91	3	0	94	0	0	0	0	0	0	0	1	109	0	0	0	110	0	3	0	5	0	8	212
5:15 PM	0	0	65	3	0	68	0	0	0	0	2	0	0	3	81	0	0	0	84	0	2	0	3	0	5	157
5:30 PM	0	0	84	2	0	86	0	0	0	0	0	0	0	2	90	0	0	0	92	0	5	0	1	0	6	184
5:45 PM	0	0	69	1	0	70	0	0	0	0	0	0	0	2	102	0	0	0	104	0	3	0	7	0	10	184
Hourly Total	0	0	309	9	0	318	0	0	0	0	2	0	0	8	382	0	0	0	390	0	13	0	16	0	29	737
6:00 PM	0	0	59	0	0	59	0	0	0	0	0	0	0	4	74	0	0	0	78	0	1	0	5	0	6	143
6:15 PM	0	0	61	4	0	65	0	0	0	0	0	0	0	3	68	0	0	0	71	0	4	0	2	0	6	142
6:30 PM	0	0	74	4	0	78	0	0	0	0	1	0	0	1	62	0	0	0	63	0	1	0	2	0	3	144
6:45 PM	0	0	44	0	1	44	0	0	0	0	0	0	0	2	51	0	0	0	53	0	4	0	0	0	4	101
Hourly Total	0	0	238	8	1	246	0	0	0	0	1	0	0	10	255	0	0	0	265	0	10	0	9	0	19	530
7:00 PM	0	0	60	3	1	63	0	0	0	0	0	0	0	1	58	0	0	0	59	0	0	0	3	0	3	125
7:15 PM	0	0	58	4	0	62	0	0	0	0	1	0	0	2	68	0	0	0	70	0	4	0	4	0	8	140
7:30 PM	0	0	43	1	0	44	0	0	0	0	0	0	0	1	36	0	0	0	37	0	1	0	0	0	1	82
7:45 PM	0	0	49	0	0	49	0	0	0	0	0	0	0	1	44	0	0	0	45	0	2	0	1	0	3	97
Hourly Total	0	0	210	8	1	218	0	0	0	0	1	0	0	5	206	0	0	0	211	0	7	0	8	0	15	444
8:00 PM	0	0	43	1	0	44	0	0	0	0	0	0	0	1	24	0	0	0	25	0	2	0	1	0	3	72
8:15 PM	0	0	37	3	0	40	0	0	0	0	0	0	0	0	28	0	0	0	28	0	1	0	0	0	1	69
8:30 PM	0	0	31	0	0	31	0	0	0	0	0	0	0	0	26	0	0	0	26	0	3	0	0	0	3	60
8:45 PM	0	1	24	4	0	29	0	0	0	0	0	0	0	3	26	0	0	0	29	0	0	0	2	0	2	60
Hourly Total	0	1	135	8	0	144	0	0	0	0	0	0	0	4	104	0	0	0	108	0	6	0	3	0	9	261
9:00 PM	0	0	33	0	0	33	0	0	0	0	0	0	0	1	17	0	0	0	18	0	1	0	3	0	4	55
9:15 PM	0	0	18	0	0	18	0	0	0	0	0	0	0	0	17	0	0	0	17	0	0	0	1	0	1	36
9:30 PM	0	0	15	2	0	17	0	0	0	0	0	0	0	0	10	0	0	0	10	0	0	0	1	0	1	28
9:45 PM	0	0	17	1	0	18	0	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	1	0	1	28
Hourly Total	0	0	83	3	0	86	0	0	0	0	0	0	0	1	53	0	0	0	54	0	1	0	6	0	7	147
10:00 PM	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
10:15 PM	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
10:30 PM	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
10:45 PM	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
Hourly Total	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
11:00 PM	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
11:15 PM	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
11:30 PM	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
11:45 PM	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
Hourly Total	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
DAILY TOTAL	1	1	3555	114	7	3671	0	0	0	0	19	0	0	126	3855	0	4	3981	0	145	0	174	3	319	7971	
Cars	1	1	3527	111	6	3640	0	0	0	0	15	0	0	124	3804	0	4	3928	0	139	0	170	3	309	7877	
Heavy Vehicles	0	0	28	3	1	31	0	0	0	0	4	0	0	2	51	0	0	53	0	6	0	4	0	10	94	
Heavy Vehicle %	0.00%	0.00%	0.79%	2.63%	14.29%	0.84%	0.00%	0.00%	0.00%	0.00%	21.05%	0.00%	0.00%	0.00%	1.59%	1.32%	0.00%	0.00%	1.33%	0.00%	4.14%	0.00%	2.30%	0.00%	3.13%	1.18%

**TMC 2452 - CSAH 17 @ Restwood Rd
Lexington MN
Tuesday, March 19, 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	
11:00 AM	0	0	47	1	1	48	0	0	0	0	0	0	0	0	57	0	0	57	0	1	0	3	0	4	109
11:15 AM	0	0	66	1	0	67	0	0	0	0	0	0	0	2	63	0	0	65	0	2	0	3	0	5	137
11:30 AM	0	0	57	1	0	58	0	0	0	0	0	0	0	2	68	0	0	70	0	2	0	5	0	7	135
11:45 AM	0	0	66	1	0	67	0	0	0	0	0	0	0	3	51	0	0	54	0	4	0	4	0	8	129
Peak Hour Total	0	0	236	4	1	240	0	0	0	0	0	0	0	7	239	0	0	246	0	9	0	15	0	24	510
PHF	0.000	0.000	0.894	1.000	0.250	0.896	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583	0.879	0.000	0.000	0.879	0.000	0.563	0.000	0.750	0.000	0.750	0.931

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	
4:00 PM	0	0	78	4	0	82	0	0	0	0	1	0	0	2	132	0	0	134	0	2	0	3	2	5	221
4:15 PM	0	0	107	3	0	110	0	0	0	0	0	0	0	5	118	0	0	123	0	2	0	6	1	8	241
4:30 PM	0	0	83	3	0	86	0	0	0	0	0	0	0	6	136	0	1	142	0	2	0	6	0	8	236
4:45 PM	0	0	75	4	0	79	0	0	0	0	0	0	0	3	128	0	0	131	0	2	0	6	0	8	218
Peak Hour Total	0	0	343	14	0	357	0	0	0	0	1	0	0	16	514	0	1	530	0	8	0	21	3	29	916
PHF	0.000	0.000	0.801	0.875	0.000	0.811	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.667	0.945	0.000	0.250	0.933	0.000	1.000	0.000	0.875	0.375	0.906	0.950

Total Vehicles On Leg				7672			
Vehicles Entering Intersection		3671		Vehicles Exiting Intersection		4001	
Southbound							
Cars	111	3527	1	1	6		
Heavy	3	28	0	0	1		
Total	114	3555	1	1	7		



Total Vehicles on Leg 559	Vehicles Entering Intersection 319	Eastbound	Cars	Heavy	Total	
			3	0	3	
			0	0	0	
	139		6	145		
	0		0	0		
Vehicles Exiting Intersection 240			170	4	174	

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 0	Total Vehicles on Leg 1
0	0	0			
0	0	0			
0	0	0			
0	0	0			
15	4	19	Vehicles Exiting Intersection 1		



Cars	4	0	124	3804	0
Heavy	0	0	2	51	0
Total	4	0	126	3855	0
Northbound					
Vehicles Entering Intersection			3981		
Vehicles Exiting Intersection			3729		
Total Vehicles On Leg			7710		

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2452

Study Date : 03/28/2024

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 17

Number of Lanes : 2+

Total Approach Volume: 3,981

Southbound: CSAH 17

Number of Lanes :2+

Total Approach Volume: 3,671

Minor Street Approaches

Eastbound: Restwood Rd.

Number of Lanes :1

Total Approach Volume: 319

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 0 hours, 8 are needed

Required 1B volumes reached for 0 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 2452

Study Date : 03/28/2024

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

Volume Requirements

Veh/Hr Major = **600**

Veh/Hr Minor = **150**

Time	Major Road CSAH 17				Total	Minor Road Restwood Rd.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	530	+	357	=	887	29	0	No
15:45 - 16:45	524	+	360	=	884	28	0	No
16:15 - 17:15	506	+	369	=	875	32	0	No
15:30 - 16:30	493	+	349	=	842	32	0	No
16:30 - 17:30	467	+	327	=	794	29	0	No
15:15 - 16:15	462	+	298	=	760	33	0	No
16:45 - 17:45	417	+	327	=	744	27	0	No
15:00 - 16:00	431	+	299	=	730	34	0	No
17:00 - 18:00	390	+	318	=	708	29	0	No
14:45 - 15:45	395	+	271	=	666	31	0	No
14:30 - 15:30	362	+	286	=	648	21	0	No
17:15 - 18:15	358	+	283	=	641	27	0	No
14:15 - 15:15	345	+	285	=	630	19	0	No
17:30 - 18:30	345	+	280	=	625	28	0	No
14:00 - 15:00	324	+	264	=	588	18	0	No
17:45 - 18:45	316	+	272	=	588	25	0	No
13:45 - 14:45	287	+	267	=	554	17	0	No
12:45 - 13:45	274	+	250	=	524	26	0	No
12:30 - 13:30	272	+	248	=	520	23	0	No
13:15 - 14:15	270	+	243	=	513	18	0	No
12:00 - 13:00	277	+	235	=	512	31	0	No
18:00 - 19:00	265	+	246	=	511	19	0	No
11:15 - 12:15	256	+	255	=	511	30	0	No
13:30 - 14:30	271	+	238	=	509	20	0	No
12:15 - 13:15	268		236		504	26	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2452

Study Date : 03/28/2024

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

Volume Requirements

Veh/Hr Major = **900**

Veh/Hr Minor = **75**

Time	Major Road CSAH 17				Total	Minor Road Restwood Rd.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	530	+	357	=	887	29	0	No
15:45 - 16:45	524	+	360	=	884	28	0	No
16:15 - 17:15	506	+	369	=	875	32	0	No
15:30 - 16:30	493	+	349	=	842	32	0	No
16:30 - 17:30	467	+	327	=	794	29	0	No
15:15 - 16:15	462	+	298	=	760	33	0	No
16:45 - 17:45	417	+	327	=	744	27	0	No
15:00 - 16:00	431	+	299	=	730	34	0	No
17:00 - 18:00	390	+	318	=	708	29	0	No
14:45 - 15:45	395	+	271	=	666	31	0	No
14:30 - 15:30	362	+	286	=	648	21	0	No
17:15 - 18:15	358	+	283	=	641	27	0	No
14:15 - 15:15	345	+	285	=	630	19	0	No
17:30 - 18:30	345	+	280	=	625	28	0	No
14:00 - 15:00	324	+	264	=	588	18	0	No
17:45 - 18:45	316	+	272	=	588	25	0	No
13:45 - 14:45	287	+	267	=	554	17	0	No
12:45 - 13:45	274	+	250	=	524	26	0	No
12:30 - 13:30	272	+	248	=	520	23	0	No
13:15 - 14:15	270	+	243	=	513	18	0	No
12:00 - 13:00	277	+	235	=	512	31	0	No
18:00 - 19:00	265	+	246	=	511	19	0	No
11:15 - 12:15	256	+	255	=	511	30	0	No
13:30 - 14:30	271	+	238	=	509	20	0	No
12:15 - 13:15	268		236		504	26	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2452

Study Date : 03/28/2024

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

Site Data Required

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

Volume Requirements

Warrant 1A 1B
Veh/Hr Major = **480 720**

Veh/Hr Minor = **120 60**

Major Road CSAH 17

Minor Road Restwood Rd.

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:00 - 17:00	530	+	357	=	887	29	0	No
15:45 - 16:45	524	+	360	=	884	28	0	No
16:15 - 17:15	506	+	369	=	875	32	0	No
15:30 - 16:30	493	+	349	=	842	32	0	No
16:30 - 17:30	467	+	327	=	794	29	0	No
15:15 - 16:15	462	+	298	=	760	33	0	No
16:45 - 17:45	417	+	327	=	744	27	0	No
15:00 - 16:00	431	+	299	=	730	34	0	No
17:00 - 18:00	390	+	318	=	708	29	0	No
14:45 - 15:45	395	+	271	=	666	31	0	No
14:30 - 15:30	362	+	286	=	648	21	0	No
17:15 - 18:15	358	+	283	=	641	27	0	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:00 - 17:00	530	+	357	=	887	29	0	No
15:45 - 16:45	524	+	360	=	884	28	0	No
16:15 - 17:15	506	+	369	=	875	32	0	No
15:30 - 16:30	493	+	349	=	842	32	0	No
16:30 - 17:30	467	+	327	=	794	29	0	No
15:15 - 16:15	462	+	298	=	760	33	0	No
16:45 - 17:45	417	+	327	=	744	27	0	No
15:00 - 16:00	431	+	299	=	730	34	0	No
17:00 - 18:00	390	+	318	=	708	29	0	No
14:45 - 15:45	395	+	271	=	666	31	0	No
14:30 - 15:30	362	+	286	=	648	21	0	No
17:15 - 18:15	358	+	283	=	641	27	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2452

Study Date : 03/28/2024

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.

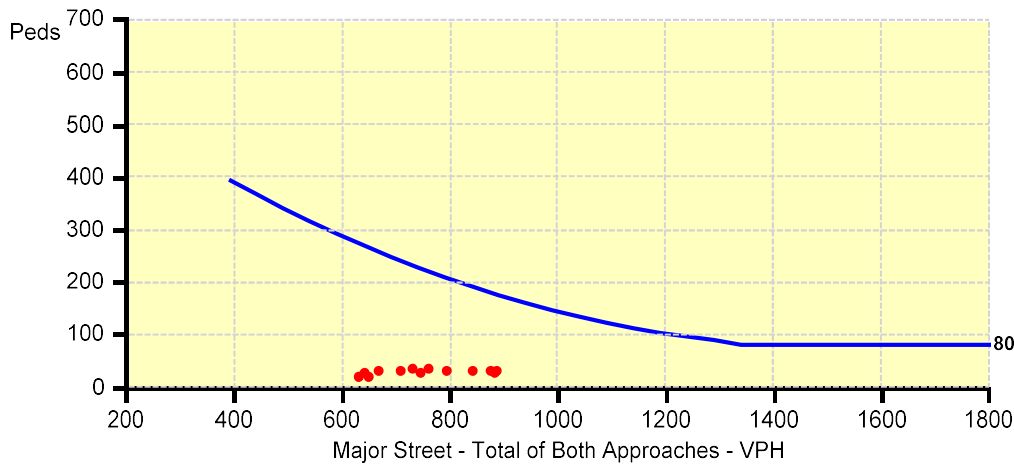
Summary

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

Site Data Required

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

Time	Major Road CSAH 17				Total	Minor Road Restwood Rd.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	530	+	357	=	887	29	0	No
15:45 - 16:45	524	+	360	=	884	28	0	No
16:15 - 17:15	506	+	369	=	875	32	0	No
15:30 - 16:30	493	+	349	=	842	32	0	No
16:30 - 17:30	467	+	327	=	794	29	0	No
15:15 - 16:15	462	+	298	=	760	33	0	No
16:45 - 17:45	417	+	327	=	744	27	0	No
15:00 - 16:00	431	+	299	=	730	34	0	No
17:00 - 18:00	390	+	318	=	708	29	0	No
14:45 - 15:45	395	+	271	=	666	31	0	No
14:30 - 15:30	362	+	286	=	648	21	0	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2452

Study Date : 03/28/2024

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.

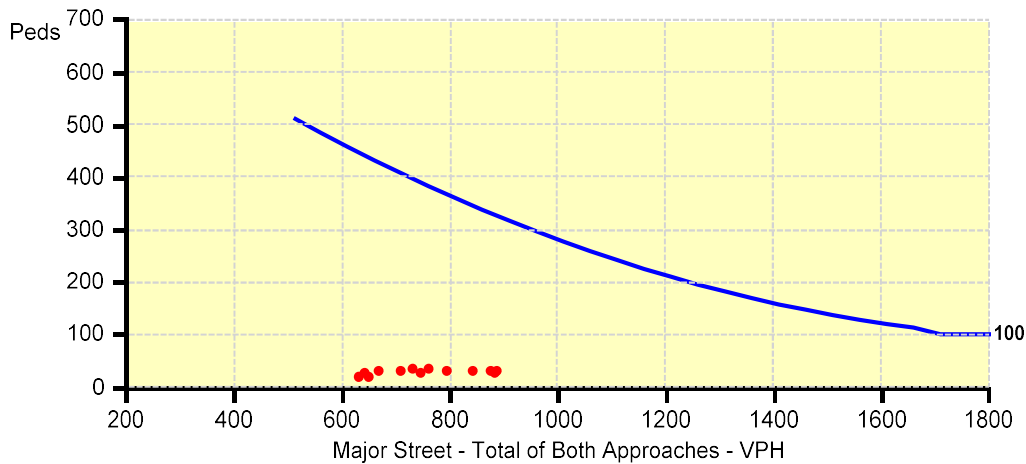
Summary

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

Site Data Required

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

Time	Major Road CSAH 17				=	Total	Minor Road Restwood Rd.		Met?
	Major NB	+	Major SB				Minor EB	Minor WB	
16:00 - 17:00	530	+	357	=	887	29	0	No	
15:45 - 16:45	524	+	360	=	884	28	0	No	
16:15 - 17:15	506	+	369	=	875	32	0	No	
15:30 - 16:30	493	+	349	=	842	32	0	No	
16:30 - 17:30	467	+	327	=	794	29	0	No	
15:15 - 16:15	462	+	298	=	760	33	0	No	
16:45 - 17:45	417	+	327	=	744	27	0	No	
15:00 - 16:00	431	+	299	=	730	34	0	No	
17:00 - 18:00	390	+	318	=	708	29	0	No	
14:45 - 15:45	395	+	271	=	666	31	0	No	
14:30 - 15:30	362	+	286	=	648	21	0	No	



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2452

Study Date : 03/28/2024

Multiway Stop Warrants - Summary

Major Street Approaches

Northbound: CSAH 17
 Number of Lanes : 2+
 Total Approach Volume: 3,981

Southbound: CSAH 17
 Number of Lanes :2+
 Total Approach Volume: 3,671

Minor Street Approaches

Eastbound: Restwood Rd.
 Number of Lanes :1
 Total Approach Volume: 319

Westbound: Driveway
 Number of Lanes :2+
 Total Approach Volume: 0

Warrant Summary (Urban Values Apply)

Criteria A - Interim Measure	Not Evaluated
If traffic signals are justified, stop signs can be installed as an interim measure.	
Criteria B - Crash Experience	Not Satisfied
Number of crashes (-1) is less than minimum required (5).	
Criteria C - Minimum Volumes and Delays	Not Satisfied
Average of 8 highest hours is less than volume criteria.	
Criteria D - 80% of Volumes, Delays, and Crashes	Not Satisfied
Number of crashes (-1) is less than minimum required (4). Average of 8 highest hours is less than volume criteria.	

Criteria C Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
16:00 - 17:00	887	616.5	34	32.6	300	200	No
15:00 - 16:00	730		44				
17:00 - 18:00	708		34				
14:00 - 15:00	588		42				
12:45 - 13:45	524		28				
11:15 - 12:15	511		33				
18:00 - 19:00	511		25				
07:15 - 08:15	473		21				
10:15 - 11:15	442		20				
08:30 - 09:30	419		31				
19:00 - 20:00	429		16				
06:15 - 07:15	281		17				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
16:00 - 17:00	887	616.5	34	32.6	240	160	No
15:00 - 16:00	730		44				
17:00 - 18:00	708		34				
14:00 - 15:00	588		42				
12:45 - 13:45	524		28				
11:15 - 12:15	511		33				
18:00 - 19:00	511		25				
07:15 - 08:15	473		21				
10:15 - 11:15	442		20				
08:30 - 09:30	419		31				
19:00 - 20:00	429		16				
06:15 - 07:15	281		17				