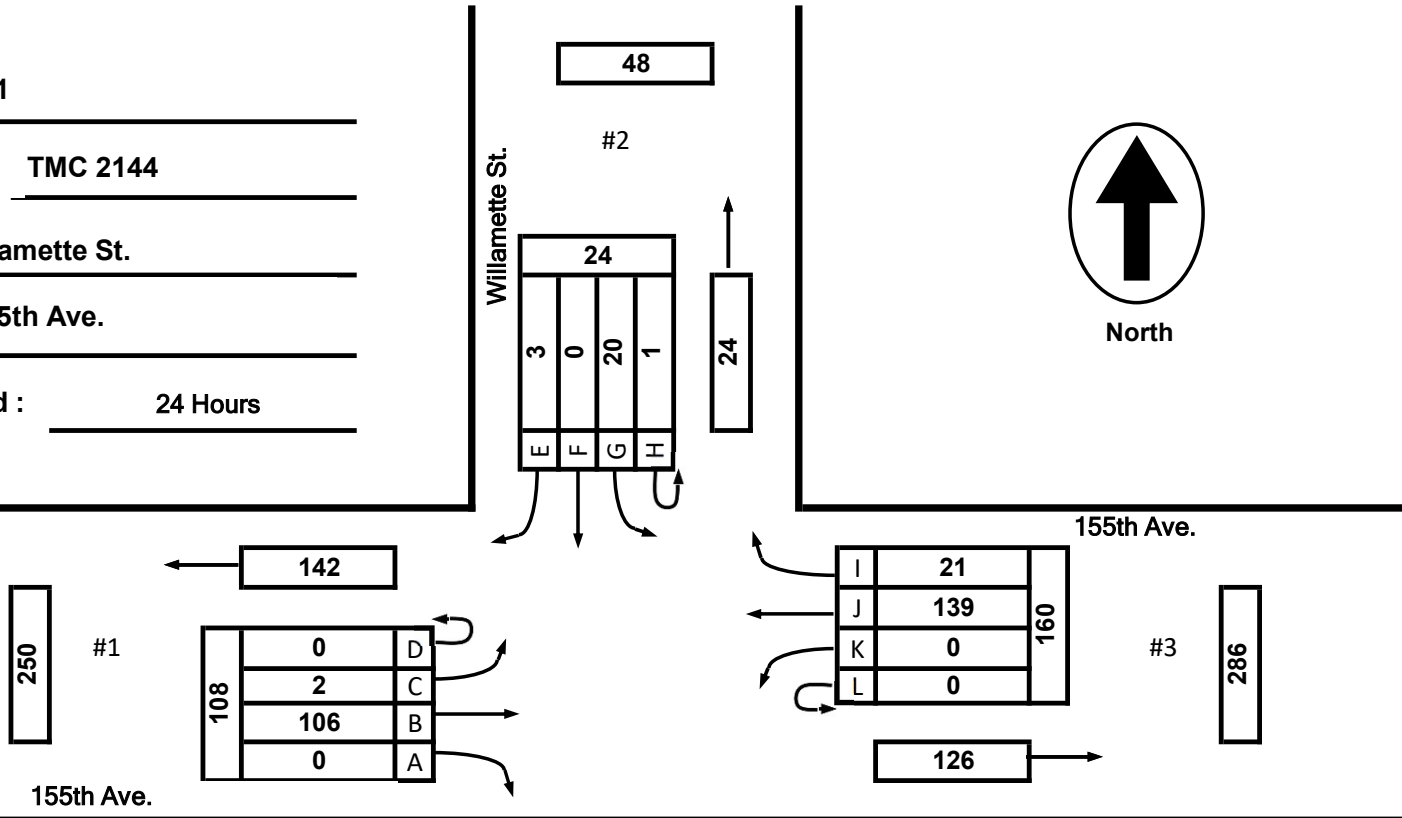


Date : 10/12/21

Count Number : TMC 2144

Location : Willamette St.
@ 155th Ave.

Collection Period : 24 Hours



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

Anoka County Highway Department

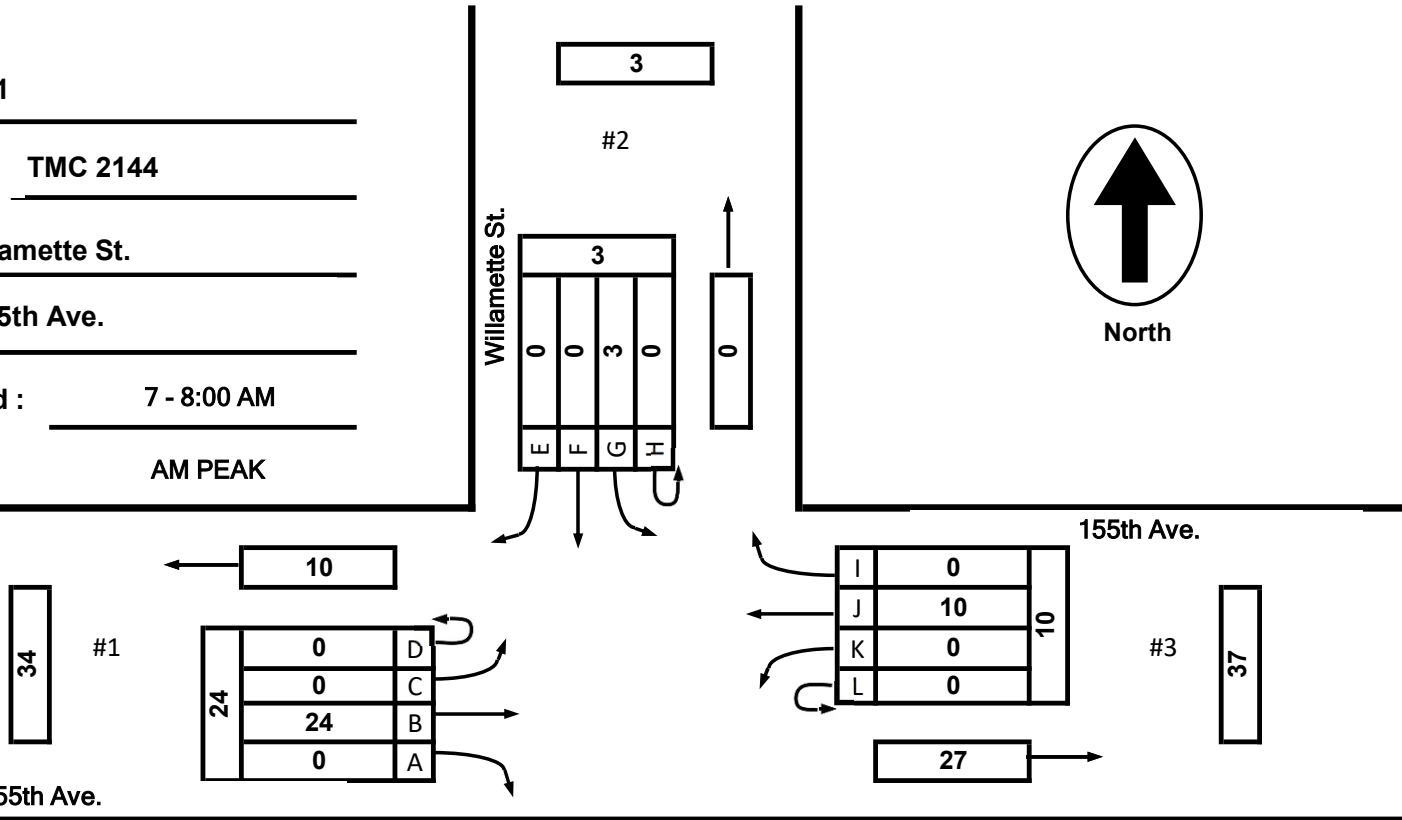
Traffic Volume and Turning Movement Study

Date : 10/12/21

Count Number : TMC 2144

Location : Willamette St.
@ 155th Ave.

Collection Period : 7 - 8:00 AM
AM PEAK



155th Ave.

155th Ave.

Willamette St.

North

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

Anoka County Highway Department

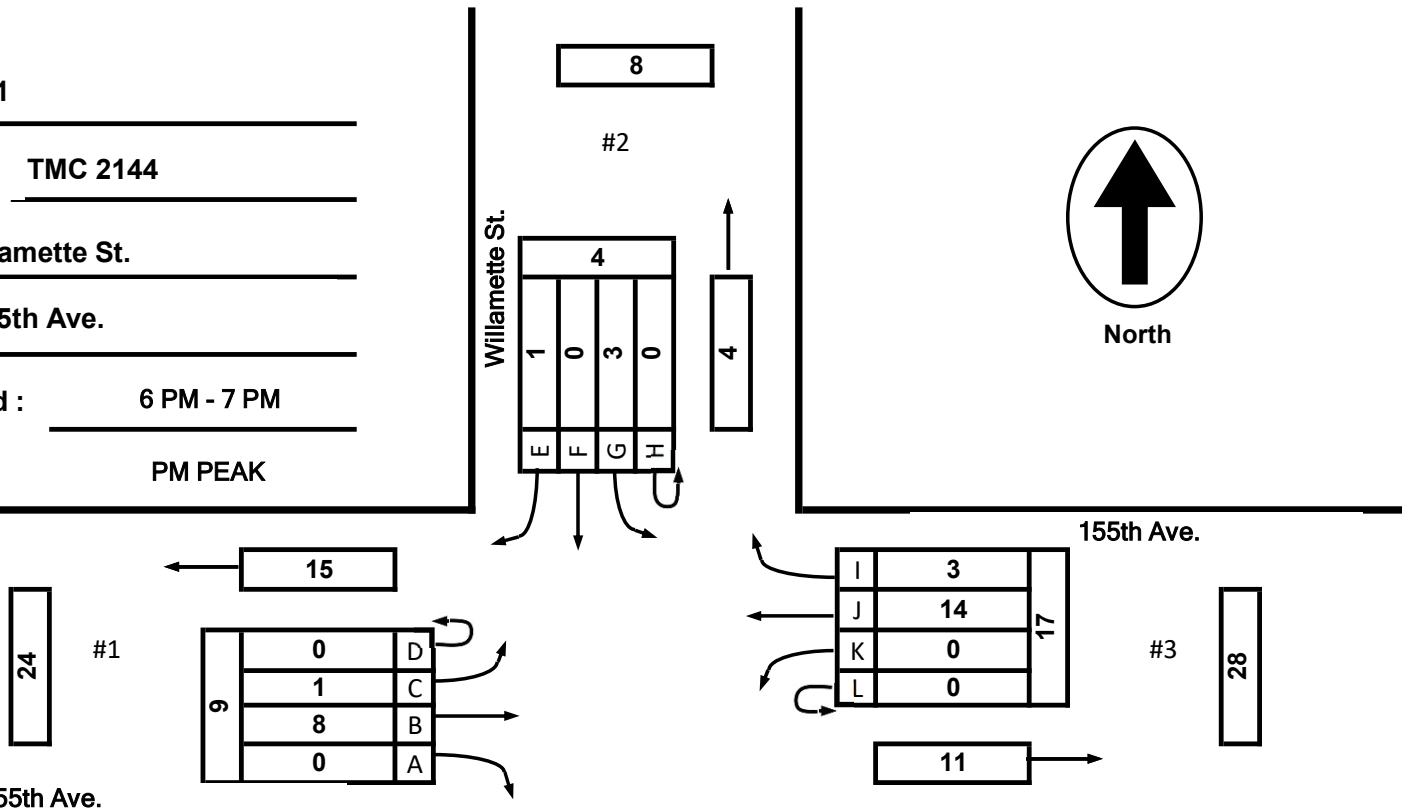
Traffic Volume and Turning Movement Study

Date : 10/12/21

Count Number : TMC 2144

Location : Willamette St.
@ 155th Ave.

Collection Period : 6 PM - 7 PM
 PM PEAK



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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

**155th Ave. @ Willamette St.
Columbus MN
Tuesday, October 12, 2021**

Time	Southbound Willamette St.						Westbound 155th Ave.						Northbound 0						Eastbound 155th Ave.						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	1	0	0	0	1	1
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	1	0	0	0	1	1
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
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	1	0	0	0	1	1
4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
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	2	0	0	0	2	2
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	4
Hourly Total	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5	0	0	0	5	6
6:00 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	4
6:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
6:30 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
6:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	3
Hourly Total	0	2	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	7	0	0	0	7	10
7:00 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	0	4	6
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6	6
7:30 AM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	6	0	0	0	6	10
7:45 AM	0	2	0	0	0	2	0	0	5	0	0	5	0	0	0	0	0	0	0	0	8	0	0	0	8	15
Hourly Total	0	3	0	0	0	3	0	0	10	0	0	10	0	0	0	0	0	0	0	0	24	0	0	0	24	37

**155th Ave. @ Willamette St.
Columbus MN
Tuesday, October 12, 2021**

Time	Southbound Willamette St.						Westbound 155th Ave.						Northbound 0						Eastbound 155th Ave.						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	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	2	4
8:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	3	0	0	3	6
8:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	2
Hourly Total	0	0	0	1	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	0	6	0	0	6	13	
9:00 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	
9:15 AM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	2	0	0	2	4	
9:30 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	3	
9:45 AM	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	4	
Hourly Total	0	1	0	0	0	1	0	0	4	1	0	5	0	0	0	0	0	0	0	0	5	0	0	5	11	
10:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	5	
10:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	4	
10:30 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	3	
10:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	2	3	
Hourly Total	0	1	0	0	0	1	0	0	5	1	0	6	0	0	0	0	0	0	0	0	8	0	0	8	15	
11:00 AM	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	2	4	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	
11:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2	
11:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Hourly Total	0	1	0	0	0	1	0	0	2	1	0	3	0	0	0	0	0	0	0	0	4	0	0	4	8	
12:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2	
12:15 PM	0	0	0	0	0	0	0	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	7	
12:30 PM	0	1	0	1	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	4	
12:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2	
Hourly Total	0	1	0	1	0	2	0	0	8	1	0	9	0	0	0	0	0	0	0	0	4	0	0	4	15	
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	
1:15 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
1:30 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	6	
1:45 PM	0	0	0	0	0	0	0	0	5	1	0	6	0	0	0	0	0	0	0	0	2	0	0	2	8	
Hourly Total	0	0	0	0	0	0	0	0	11	1	0	12	0	0	0	0	0	0	0	0	5	0	0	5	17	
2:00 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	0	0	1	3	
2:15 PM	0	1	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	0	0	1	4	
2:30 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	3	
2:45 PM	0	1	0	0	0	1	0	0	4	1	0	5	0	0	0	0	0	0	0	0	1	0	0	1	7	
Hourly Total	0	2	0	0	0	2	0	0	8	3	0	11	0	0	0	0	0	0	0	0	4	0	0	4	17	
3:00 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	0	0	3	5	
3:15 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	4	
3:30 PM	0	0	0	0	0	0	0	0	3	2	0	5	0	0	0	0	0	0	0	0	3	0	0	3	8	
3:45 PM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	5	
Hourly Total	0	1	0	0	0	1	0	0	10	2	0	12	0	0	0	0	0	0	0	0	9	0	0	9	22	

**155th Ave. @ Willamette St.
Columbus MN
Tuesday, October 12, 2021**

Time	Southbound Willamette St.						Westbound 155th Ave.						Northbound 0						Eastbound 155th Ave.						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	0	0	0	0	0	0	6	2	0	8	0	0	0	0	0	0	0	0	1	0	0	1	9
4:15 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	6
4:30 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	4	8
4:45 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	0	0	1	5
Hourly Total	0	0	0	0	0	0	0	0	18	2	0	20	0	0	0	0	0	0	0	0	8	0	0	8	28
5:00 PM	0	1	0	0	0	1	0	0	2	1	0	3	0	0	0	0	0	0	0	0	2	0	0	2	6
5:15 PM	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	1	0	0	1	6
5:30 PM	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	2	0	0	2	8
5:45 PM	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Hourly Total	0	1	0	0	0	1	0	0	15	3	0	18	0	0	0	0	0	0	0	0	5	0	0	5	24
6:00 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	0	0	1	5
6:15 PM	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	2	0	0	0	0	4	0	0	4	8
6:30 PM	0	2	0	1	0	3	0	0	5	1	0	6	0	0	0	0	0	0	0	1	1	0	0	2	11
6:45 PM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	6
Hourly Total	0	3	0	1	0	4	0	0	14	3	0	17	0	0	0	0	0	0	0	1	8	0	0	9	30
7:00 PM	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	4
7:15 PM	1	0	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4
7:30 PM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	5
7:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	1	2	0	0	0	3	0	0	9	0	0	9	0	0	0	0	0	0	0	1	1	0	0	2	14
8:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 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
8:30 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	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
9:00 PM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
9:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
9:30 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
9:45 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	0	0	0	0	0	0	0	0	6	2	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
10:00 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
10:15 PM	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
10:30 PM	0	1	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
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
Hourly Total	0	2	0	0	0	2	0	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	8
11:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
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
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
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
Hourly Total	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
DAILY TOTAL	1	20	0	3	0	24	0	0	140	21	0	161	0	0	0	0	0	0	0	2	106	0	0	108	293
Cars	1	20	0	2	0	23	0	0	139	21	0	160	0	0	0	0	0	0	0	2	105	0	0	107	290
Heavy Vehicles	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	3
Heavy Vehicle %	0.00%	0.00%	0.00%	33.33%	0.00%	4.17%	0.00%	0.00%	0.71%	0.00%	0.00%	0.62%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.94%	0.00%	0.00%	0.93%	1.02%

**155th Ave. @ Willamette St.
Columbus MN
Tuesday, October 12, 2021
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	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	6
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	6
7:30 AM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	10
7:45 AM	0	2	0	0	0	2	0	0	5	0	0	5	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	15
Peak Hour Total	0	3	0	0	0	3	0	0	10	0	0	10	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0	0	0	37
PHF	0.000	0.375	0.000	0.000	0.000	0.375	0.000	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.617

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							
6:00 PM	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	5
6:15 PM	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	8
6:30 PM	0	2	0	1	0	3	0	0	5	1	0	6	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	11
6:45 PM	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	6
Peak Hour Total	0	3	0	1	0	4	0	0	14	3	0	17	0	0	0	0	0	0	0	1	8	0	0	9	0	0	0	0	0	0	30
PHF	0.000	0.375	0.000	0.250	0.000	0.333	0.000	0.000	0.700	0.375	0.000	0.708	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.500	0.000	0.000	0.563	0.000	0.000	0.000	0.000	0.000	0.000	0.682

Total Vehicles On Leg				48			
Vehicles Entering Intersection		24		Vehicles Exiting Intersection		24	
Southbound							
Cars	2	0	20	1	0		
Heavy	1	0	0	0	0		
Total	3	0	20	1	0		

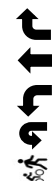


Total Vehicles on Leg 251	Vehicles Entering Intersection 108	Eastbound	Cars	Heavy	Total
			0	0	0
			0	0	0
	2		0	2	
	Vehicles Exiting Intersection 143		105	1	106
			0	0	0



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 161	Total Vehicles on Leg 287
21	0	21			
139	1	140			
0	0	0			
0	0	0			
0	0	0	Vehicles Exiting Intersection 126		



Cars	0	0	0	0	0
Heavy	0	0	0	0	0
Total	0	0	0	0	0
Northbound					
Vehicles Entering Intersection 0			Vehicles Exiting Intersection 0		
Total Vehicles On Leg			0		



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2144

Study Date : 11/16/2021

Signal Warrants - Summary

Major Street Approaches

Eastbound: 155th Ave.

Number of Lanes : 1

Total Approach Volume: 216

Westbound: 155th Ave.

Number of Lanes : 1

Total Approach Volume: 322

Minor Street Approaches

Southbound: Willamette St.

Number of Lanes : 1

Total Approach Volume: 48

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 2144

Study Date : 11/16/2021

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 155th Ave.				=	Total	Minor Road Willamette St.		Met?
	Major EB	+	Major WB				Minor NB	Minor SB	
07:00 - 08:00	48	+	20	=	68	0	6	No	
07:15 - 08:15	44	+	20	=	64	0	6	No	
16:00 - 17:00	16	+	40	=	56	0	0	No	
07:30 - 08:30	32	+	22	=	54	0	6	No	
15:45 - 16:45	16	+	38	=	54	0	2	No	
15:30 - 16:30	14	+	40	=	54	0	2	No	
18:00 - 19:00	18	+	34	=	52	0	8	No	
15:15 - 16:15	14	+	36	=	50	0	2	No	
17:30 - 18:30	14	+	36	=	50	0	0	No	
17:45 - 18:45	14	+	36	=	50	0	6	No	
06:45 - 07:45	36	+	12	=	48	0	2	No	
16:15 - 17:15	18	+	30	=	48	0	2	No	
18:15 - 19:15	18	+	30	=	48	0	10	No	
16:30 - 17:30	16	+	32	=	48	0	2	No	
16:45 - 17:45	12	+	36	=	48	0	2	No	
07:45 - 08:45	26	+	20	=	46	0	6	No	
14:45 - 15:45	18	+	28	=	46	0	2	No	
17:00 - 18:00	10	+	36	=	46	0	2	No	
17:15 - 18:15	8	+	38	=	46	0	0	No	
15:00 - 16:00	18	+	24	=	42	0	2	No	
13:30 - 14:30	12	+	28	=	40	0	2	No	
13:15 - 14:15	10	+	28	=	38	0	0	No	
18:30 - 19:30	10	+	28	=	38	0	12	No	
14:30 - 15:30	14	+	22	=	36	0	2	No	
14:15 - 15:15	12		22		34	0	4	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2144

Study Date : 11/16/2021

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 155th Ave.				=	Total	Minor Road Willamette St.		Met?
	Major EB	+	Major WB				Minor NB	Minor SB	
07:00 - 08:00	48	+	20	=	68	0	6	No	
07:15 - 08:15	44	+	20	=	64	0	6	No	
16:00 - 17:00	16	+	40	=	56	0	0	No	
07:30 - 08:30	32	+	22	=	54	0	6	No	
15:45 - 16:45	16	+	38	=	54	0	2	No	
15:30 - 16:30	14	+	40	=	54	0	2	No	
18:00 - 19:00	18	+	34	=	52	0	8	No	
17:45 - 18:45	14	+	36	=	50	0	6	No	
15:15 - 16:15	14	+	36	=	50	0	2	No	
17:30 - 18:30	14	+	36	=	50	0	0	No	
06:45 - 07:45	36	+	12	=	48	0	2	No	
18:15 - 19:15	18	+	30	=	48	0	10	No	
16:15 - 17:15	18	+	30	=	48	0	2	No	
16:30 - 17:30	16	+	32	=	48	0	2	No	
16:45 - 17:45	12	+	36	=	48	0	2	No	
07:45 - 08:45	26	+	20	=	46	0	6	No	
14:45 - 15:45	18	+	28	=	46	0	2	No	
17:00 - 18:00	10	+	36	=	46	0	2	No	
17:15 - 18:15	8	+	38	=	46	0	0	No	
15:00 - 16:00	18	+	24	=	42	0	2	No	
13:30 - 14:30	12	+	28	=	40	0	2	No	
18:30 - 19:30	10	+	28	=	38	0	12	No	
13:15 - 14:15	10	+	28	=	38	0	0	No	
14:30 - 15:30	14	+	22	=	36	0	2	No	
14:15 - 15:15	12		22		34	0	4	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2144

Study Date : 11/16/2021

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 = **1**
Number of Minor Lanes = **1**

Volume Requirements

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

Veh/Hr Minor = **120 60**

Major Road 155th Ave.

Minor Road Willamette St.

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
07:00 - 08:00	48	+	20	=	68	0	6	No
07:15 - 08:15	44	+	20	=	64	0	6	No
16:00 - 17:00	16	+	40	=	56	0	0	No
15:45 - 16:45	16	+	38	=	54	0	2	No
15:30 - 16:30	14	+	40	=	54	0	2	No
07:30 - 08:30	32	+	22	=	54	0	6	No
18:00 - 19:00	18	+	34	=	52	0	8	No
17:30 - 18:30	14	+	36	=	50	0	0	No
17:45 - 18:45	14	+	36	=	50	0	6	No
15:15 - 16:15	14	+	36	=	50	0	2	No
16:15 - 17:15	18	+	30	=	48	0	2	No
16:30 - 17:30	16		32		48	0	2	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
07:00 - 08:00	48	+	20	=	68	0	6	No
07:15 - 08:15	44	+	20	=	64	0	6	No
16:00 - 17:00	16	+	40	=	56	0	0	No
15:30 - 16:30	14	+	40	=	54	0	2	No
15:45 - 16:45	16	+	38	=	54	0	2	No
07:30 - 08:30	32	+	22	=	54	0	6	No
18:00 - 19:00	18	+	34	=	52	0	8	No
17:45 - 18:45	14	+	36	=	50	0	6	No
17:30 - 18:30	14	+	36	=	50	0	0	No
15:15 - 16:15	14	+	36	=	50	0	2	No
06:45 - 07:45	36	+	12	=	48	0	2	No
18:15 - 19:15	18		30		48	0	10	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2144

Study Date : 11/16/2021

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.

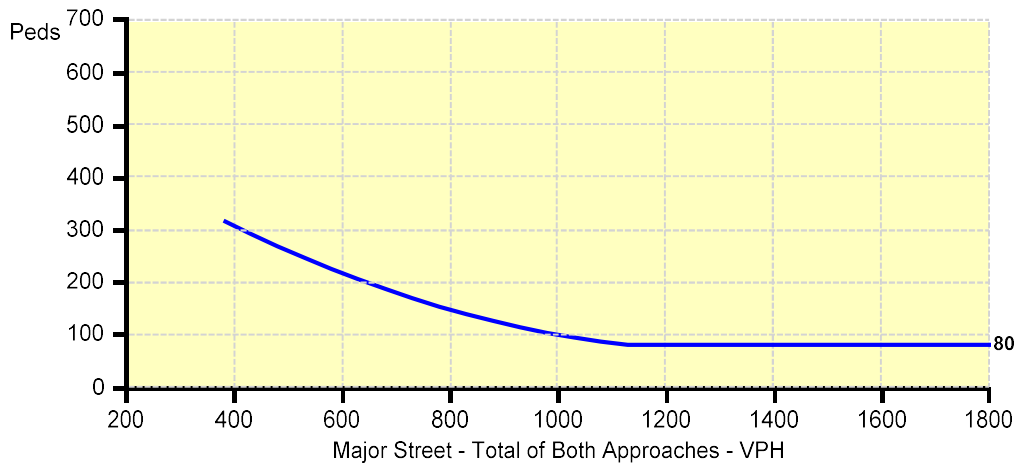
Summary

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 155th Ave.				=	Total	Minor Road Willamette St.		Met?
	Major EB	+	Major WB				Minor NB	Minor SB	
07:00 - 08:00	48	+	20	=	68	0	6	No	
07:15 - 08:15	44	+	20	=	64	0	6	No	
16:00 - 17:00	16	+	40	=	56	0	0	No	
07:30 - 08:30	32	+	22	=	54	0	6	No	
15:45 - 16:45	16	+	38	=	54	0	2	No	
15:30 - 16:30	14	+	40	=	54	0	2	No	
18:00 - 19:00	18	+	34	=	52	0	8	No	
17:45 - 18:45	14	+	36	=	50	0	6	No	
17:30 - 18:30	14	+	36	=	50	0	0	No	
15:15 - 16:15	14	+	36	=	50	0	2	No	
06:45 - 07:45	36	+	12	=	48	0	2	No	
							10	No	



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2144

Study Date : 11/16/2021

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 155th Ave.				=	Total	Minor Road Willamette St.		Met?
	Major EB	+	Major WB	Minor NB			Minor SB		
07:00 - 08:00	48	+	20	=	68	0	6	No	
07:15 - 08:15	44	+	20	=	64	0	6	No	
16:00 - 17:00	16	+	40	=	56	0	0	No	
07:30 - 08:30	32	+	22	=	54	0	6	No	
15:45 - 16:45	16	+	38	=	54	0	2	No	
15:30 - 16:30	14	+	40	=	54	0	2	No	
18:00 - 19:00	18	+	34	=	52	0	8	No	
17:45 - 18:45	14	+	36	=	50	0	6	No	
17:30 - 18:30	14	+	36	=	50	0	0	No	
15:15 - 16:15	14	+	36	=	50	0	2	No	
06:45 - 07:45	36	+	12	=	48	0	2	No	

