

<b>USH 41: USH 10 TO STH 114 (WINNEBAGO COUNTY)</b> <b>OFF-PEAK DAY 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR      SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	295	0.0	OFF	295	0	0.00	0	70.2	70.2	70.2
1-2 AM	204	0.0	OFF	204	0	0.00	0	70.2	70.2	70.2
2-3 AM	215	0.0	OFF	215	0	0.00	0	70.2	70.2	70.2
3-4 AM	286	0.0	OFF	286	0	0.00	0	70.2	70.2	70.2
4-5 AM	557	0.0	OFF	557	0	0.00	0	70.0	70.0	70.0
5-6 AM	1358	0.0	OFF	1358	0	0.00	0	69.1	69.1	69.1
6-7 AM	2747	0.0	OFF	2747	0	0.00	0	67.3	67.3	67.3
7-8 AM	4058	0.0	OFF	4058	0	0.00	0	63.2	63.2	63.2
8-9 AM	2983	0.0	OFF	2983	0	0.00	0	67.0	67.0	67.0
9-10 AM	2424	0.0	OFF	2424	0	0.00	0	67.8	67.8	67.8
10-11 AM	2336	0.0	1499	1916	419	11.81+	304	67.8	12.8	30.8
11AM-NOON	2448	0.0	1500	1500	948	16.33+	400	67.7	9.7	30.8
NOON-1PM	2489	0.0	1500	1500	989	16.33+	400	67.6	9.7	30.8
1-2 PM	2707	0.0	1500	1500	1207	16.32+	400	67.4	9.7	30.8
2-3 PM	3111	0.0	1500	1500	1611	16.30+	400	66.9	9.7	30.8
3-4 PM	3366	0.0	OFF	3366	0	0.40	32	66.6	58.3	58.3
4-5 PM	3951	0.0	OFF	3951	0	0.00	0	63.8	63.8	63.8
5-6 PM	3595	0.0	OFF	3595	0	0.00	0	66.3	66.3	66.3
6-7 PM	2203	0.0	OFF	2203	0	0.00	0	68.0	68.0	68.0
7-8 PM	1560	0.0	OFF	1560	0	0.00	0	68.8	68.8	68.8
8-9 PM	1456	0.0	OFF	1456	0	0.00	0	68.9	68.9	68.9
9-10 PM	1235	0.0	OFF	1235	0	0.00	0	69.2	69.2	69.2
10-11 PM	881	0.0	OFF	881	0	0.00	0	69.6	69.6	69.6
11PM-MID	513	0.0	OFF	513	0	0.00	0	70.1	70.1	70.1

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0232
MAIN ROUTE WITH WORKS	0.0201
'DIVERSION'	0.0059
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$44,240
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

**USH 41: USH 10 TO STH 114 (WINNEBAGO COUNTY)  
OFF-PEAK DAY 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

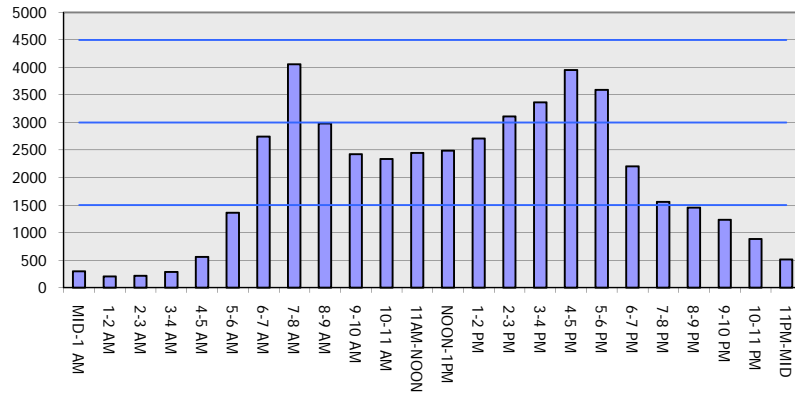
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

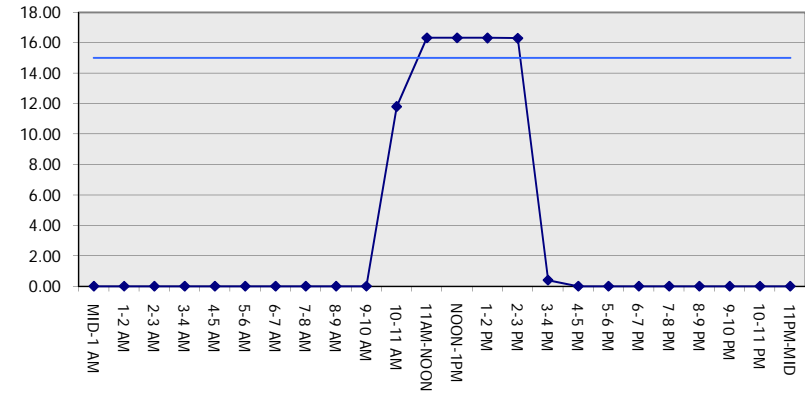
**MON-THUR**

**SOUTHBOUND DIRECTION**

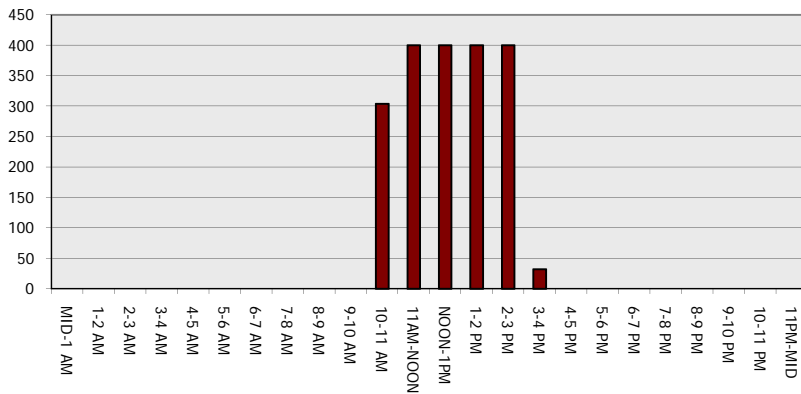
**Main Route - Traffic Demand (Vehicles Per Hour)**



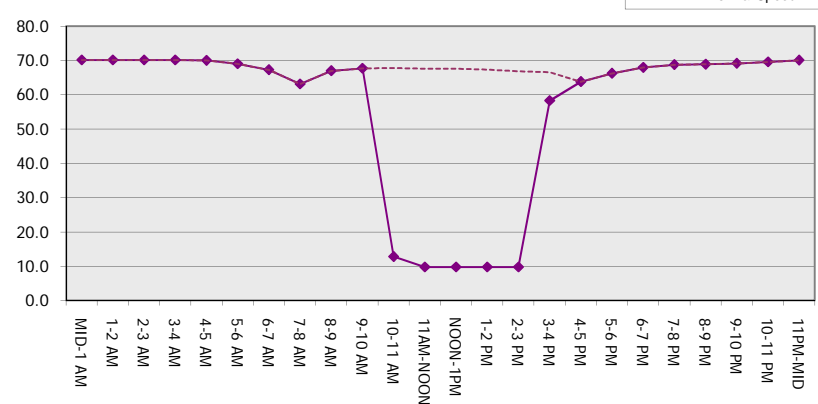
**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**



<b>USH 41: USH 10 TO STH 114 (WINNEBAGO COUNTY)</b> <b>OFF-PEAK DAY 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR                      NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	295	0.0	OFF	295	0	0.00	0	70.2	70.2	70.2
1-2 AM	215	0.0	OFF	215	0	0.00	0	70.2	70.2	70.2
2-3 AM	189	0.0	OFF	189	0	0.00	0	70.2	70.2	70.2
3-4 AM	223	0.0	OFF	223	0	0.00	0	70.2	70.2	70.2
4-5 AM	434	0.0	OFF	434	0	0.00	0	70.2	70.2	70.2
5-6 AM	1285	0.0	OFF	1285	0	0.00	0	69.1	69.1	69.1
6-7 AM	2385	0.0	OFF	2385	0	0.00	0	67.8	67.8	67.8
7-8 AM	4095	0.0	OFF	4095	0	0.00	0	62.9	62.9	62.9
8-9 AM	2812	0.0	OFF	2812	0	0.00	0	67.3	67.3	67.3
9-10 AM	2513	0.0	OFF	2513	0	0.00	0	67.6	67.6	67.6
10-11 AM	2492	0.0	1499	1987	506	12.79+	321	67.6	12.0	31.2
11AM-NOON	2632	0.0	1499	1500	1132	16.28+	399	67.4	9.7	31.4
NOON-1PM	2619	0.0	1500	1500	1119	16.28+	400	67.5	9.7	31.4
1-2 PM	2688	0.0	1500	1500	1188	16.28+	400	67.4	9.7	31.4
2-3 PM	3101	0.0	1500	1500	1601	16.25+	400	66.9	9.7	31.4
3-4 PM	3821	0.0	OFF	3821	0	0.70	54	64.8	52.1	52.1
4-5 PM	4279	0.0	OFF	4279	0	0.00	0	61.6	61.6	61.6
5-6 PM	3870	0.0	OFF	3870	0	0.00	0	64.4	64.4	64.4
6-7 PM	2457	0.0	OFF	2457	0	0.00	0	67.7	67.7	67.7
7-8 PM	1529	0.0	OFF	1529	0	0.00	0	68.8	68.8	68.8
8-9 PM	1328	0.0	OFF	1328	0	0.00	0	69.1	69.1	69.1
9-10 PM	1071	0.0	OFF	1071	0	0.00	0	69.4	69.4	69.4
10-11 PM	760	0.0	OFF	760	0	0.00	0	69.8	69.8	69.8
11PM-MID	554	0.0	OFF	554	0	0.00	0	70.0	70.0	70.0

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0235
MAIN ROUTE WITH WORKS	0.0202
'DIVERSION'	0.0063

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$46,348
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

**USH 41: USH 10 TO STH 114 (WINNEBAGO COUNTY)  
OFF-PEAK DAY 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT  
MON-THUR NORTHBOUND DIRECTION**

