

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

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY      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	349	0.0	1500	349	0	0.52	0	70.2	58.7	44.1	
1-2 AM	241	0.0	1500	241	0	0.50	0	70.2	59.0	44.5	
2-3 AM	282	0.0	1500	282	0	0.51	0	70.2	58.9	44.3	
3-4 AM	323	0.0	1500	323	0	0.51	0	70.2	58.8	44.2	
4-5 AM	508	0.0	1500	508	0	0.53	0	70.1	58.4	43.5	
5-6 AM	1125	0.0	OFF	1125	0	0.00	0	69.3	69.3	69.3	
6-7 AM	2382	0.0	OFF	2382	0	0.00	0	67.8	67.8	67.8	
7-8 AM	3404	0.0	OFF	3404	0	0.00	0	66.5	66.5	66.5	
8-9 AM	2901	0.0	OFF	2901	0	0.00	0	67.1	67.1	67.1	
9-10 AM	2366	0.0	OFF	2366	0	0.00	0	67.8	67.8	67.8	
10-11 AM	2448	0.0	OFF	2448	0	0.00	0	67.7	67.7	67.7	
11AM-NOON	2609	0.0	OFF	2609	0	0.00	0	67.5	67.5	67.5	
NOON-1PM	2850	0.0	OFF	2850	0	0.00	0	67.2	67.2	67.2	
1-2 PM	3164	0.0	OFF	3164	0	0.00	0	66.8	66.8	66.8	
2-3 PM	3540	0.0	OFF	3540	0	0.00	0	66.3	66.3	66.3	
3-4 PM	3857	0.0	OFF	3857	0	0.00	0	64.5	64.5	64.5	
4-5 PM	4177	0.0	OFF	4177	0	0.00	0	62.3	62.3	62.3	
5-6 PM	3795	0.0	OFF	3795	0	0.00	0	65.0	65.0	65.0	
6-7 PM	2622	0.0	OFF	2622	0	0.00	0	67.5	67.5	67.5	
7-8 PM	1790	0.0	1499	1790	0	7.27	180	68.5	18.6	30.8	
8-9 PM	1481	0.0	1499	1481	0	12.22	291	68.9	12.5	30.8	
9-10 PM	1460	0.0	1500	1460	0	11.05	260	68.9	13.5	30.8	
10-11 PM	1176	0.0	1499	1176	0	3.26	102	69.2	31.3	35.8	
11PM-MID	734	0.0	1500	734	0	0.56	0	69.8	57.7	42.6	

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

*----- 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	0.0245
MAIN ROUTE WITH WORKS	0.0239
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$12,591
CONGESTED HOURS PER DAY*	0

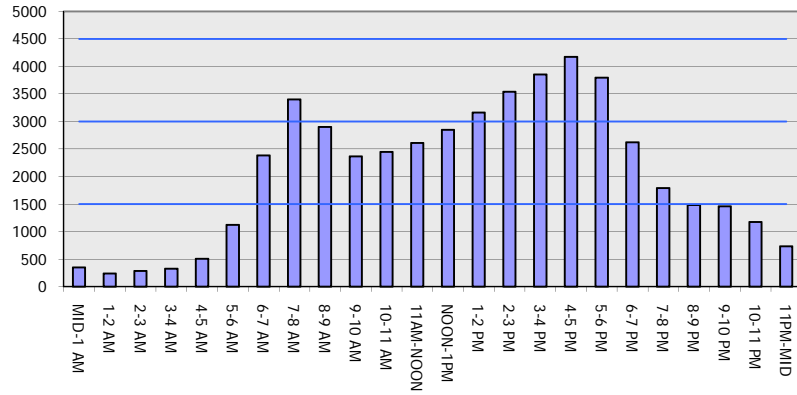
\*Delays Exceeding User-Specified Maximum

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

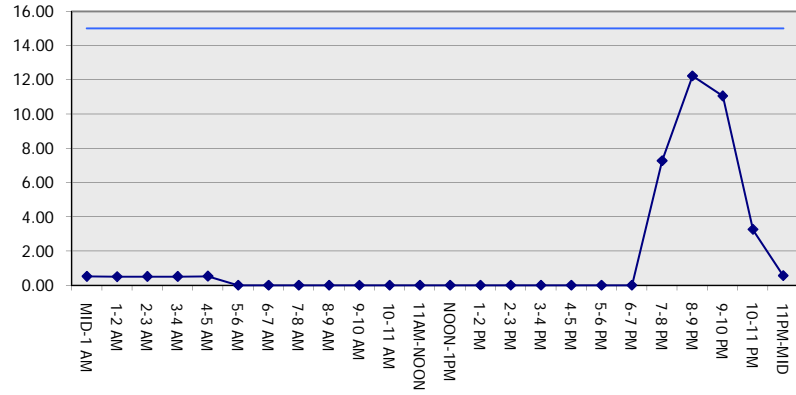
**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY SOUTHBOUND DIRECTION**

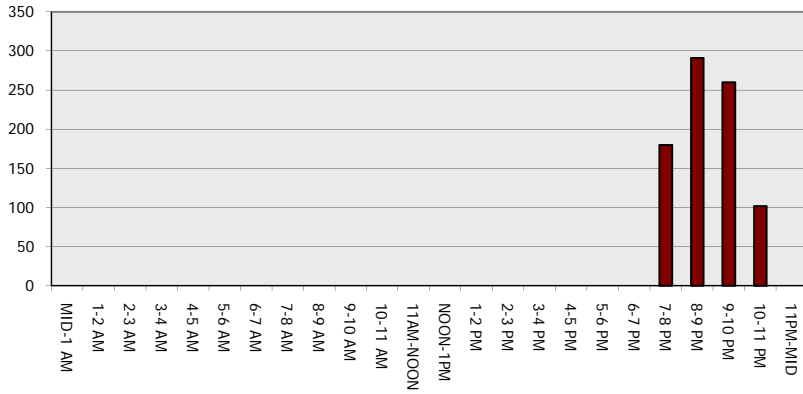
**Main Route - Traffic Demand (Vehicles Per Hour)**



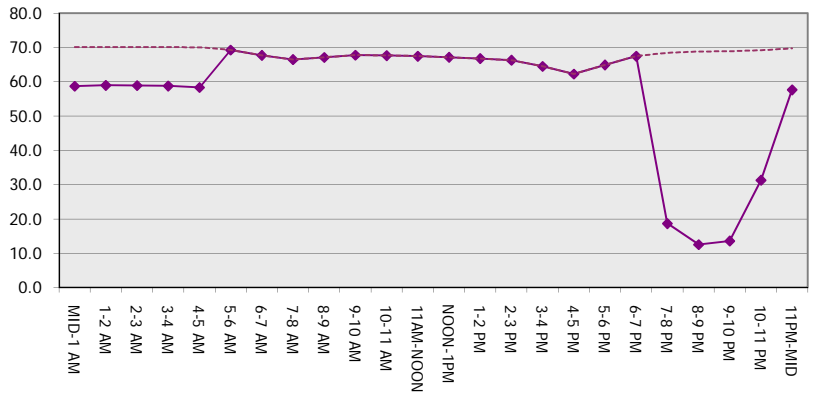
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



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

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY 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	376	0.0	1500	376	0	0.52	0	70.2	58.7	44.0
1-2 AM	301	0.0	1500	301	0	0.51	0	70.2	58.9	44.3
2-3 AM	259	0.0	1500	259	0	0.50	0	70.2	58.9	44.5
3-4 AM	243	0.0	1500	243	0	0.50	0	70.2	59.0	44.5
4-5 AM	446	0.0	1500	446	0	0.53	0	70.2	58.6	43.7
5-6 AM	1203	0.0	OFF	1203	0	0.00	0	69.2	69.2	69.2
6-7 AM	2269	0.0	OFF	2269	0	0.00	0	67.9	67.9	67.9
7-8 AM	3696	0.0	OFF	3696	0	0.00	0	65.6	65.6	65.6
8-9 AM	2718	0.0	OFF	2718	0	0.00	0	67.4	67.4	67.4
9-10 AM	2601	0.0	OFF	2601	0	0.00	0	67.5	67.5	67.5
10-11 AM	2819	0.0	OFF	2819	0	0.00	0	67.3	67.3	67.3
11AM-NOON	2954	0.0	OFF	2954	0	0.00	0	67.1	67.1	67.1
NOON-1PM	3175	0.0	OFF	3175	0	0.00	0	66.8	66.8	66.8
1-2 PM	3323	0.0	OFF	3323	0	0.00	0	66.6	66.6	66.6
2-3 PM	3688	0.0	OFF	3688	0	0.00	0	65.6	65.6	65.6
3-4 PM	4160	0.0	OFF	4160	0	0.00	0	62.4	62.4	62.4
4-5 PM	4443	0.0	OFF	4443	0	0.00	0	60.5	60.5	60.5
5-6 PM	4251	0.0	OFF	4251	0	0.00	0	61.8	61.8	61.8
6-7 PM	3328	0.0	OFF	3328	0	0.00	0	66.6	66.6	66.6
7-8 PM	2649	0.0	1499	1710	939	13.84+	349	67.4	11.2	35.5
8-9 PM	2059	0.0	1499	1670	389	14.96+	370	68.2	10.5	31.3
9-10 PM	1515	0.0	1499	1461	55	15.62+	381	68.9	10.1	30.8
10-11 PM	1162	0.0	1499	1162	0	6.80	189	69.3	19.6	33.8
11PM-MID	928	0.0	1500	928	0	0.58	0	69.6	57.2	41.9

"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	0.0269
MAIN ROUTE WITH WORKS	0.0257
'DIVERSION'	0.0016

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$24,140
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

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NIGHTTIME 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY NORTHBOUND DIRECTION**

