

<b>USH 41: STH 114 TO BREEZEWOOD LN/BELL ST (WINNEBAGO COUNTY)</b> <b>CONTINUOUS (24 HOUR) 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**

SATURDAY 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	405	0.0	1500	405	0	0.52	0	70.2	48.8	43.9	
1-2 AM	258	0.0	1500	258	0	0.50	0	70.2	49.4	44.5	
2-3 AM	225	0.0	1500	225	0	0.50	0	70.2	49.5	44.6	
3-4 AM	190	0.0	1500	190	0	0.50	0	70.2	49.6	44.7	
4-5 AM	292	0.0	1500	292	0	0.51	0	70.2	49.2	44.3	
5-6 AM	444	0.0	1500	444	0	0.53	0	70.2	48.7	43.7	
6-7 AM	907	0.0	1499	907	0	0.58	0	69.6	47.1	42.0	
7-8 AM	1577	0.0	1499	1577	0	1.69	22	68.7	28.8	31.0	
8-9 AM	1705	0.0	1499	1705	0	7.69	182	68.6	10.5	30.8	
9-10 AM	1849	0.0	1500	1652	196	16.17+	396	68.4	6.8	30.8	
10-11 AM	2029	0.0	1499	1497	532	17.27+	423	68.2	6.5	30.8	
11AM-NOON	2081	0.0	1499	1497	584	17.27+	423	68.1	6.5	30.8	
NOON-1PM	2169	0.0	1499	1498	671	17.27+	424	68.1	6.5	30.8	
1-2 PM	2215	0.0	1499	1498	717	17.28+	424	68.0	6.5	30.8	
2-3 PM	2168	0.0	1499	1498	670	17.27+	424	68.1	6.5	30.8	
3-4 PM	2172	0.0	1499	1499	673	17.27+	424	68.1	6.5	30.8	
4-5 PM	2240	0.0	1499	1499	741	17.28+	424	67.9	6.5	30.8	
5-6 PM	2077	0.0	1500	1499	578	17.27+	423	68.1	6.5	30.8	
6-7 PM	1854	0.0	1499	1499	355	17.26+	423	68.4	6.6	30.8	
7-8 PM	1543	0.0	1500	1483	60	17.18+	420	68.8	6.6	30.8	
8-9 PM	1388	0.0	1499	1388	0	14.87+	361	69.0	7.1	30.8	
9-10 PM	1377	0.0	1500	1377	0	10.60	251	69.0	8.6	30.8	
10-11 PM	1001	0.0	1500	1001	0	1.26	38	69.5	34.2	40.1	
11PM-MID	705	0.0	1500	705	0	0.56	0	69.9	47.8	42.7	

+ 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	0.0073
MAIN ROUTE WITH WORKS	0.0042
'DIVERSION'	0.0030
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$121,966
CONGESTED HOURS PER DAY*	12

\*Delays Exceeding User-Specified Maximum

**USH 41: STH 114 TO BREEZEWOOD LN/BELL ST (WINNEBAGO COUNTY)  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

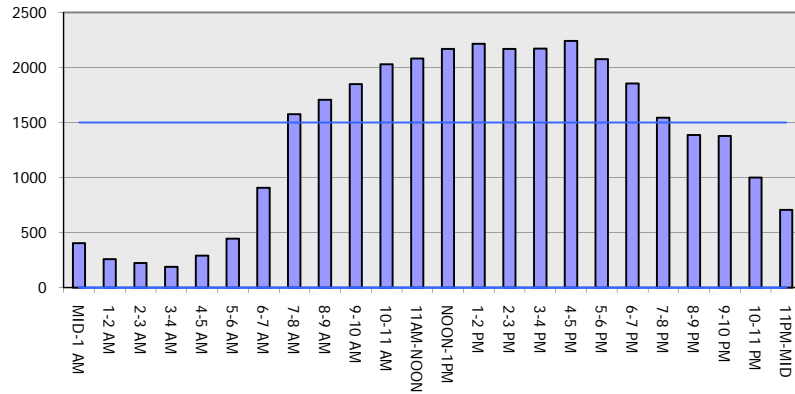
**OCTOBER**

Analyzed for 2009  
Construction Season

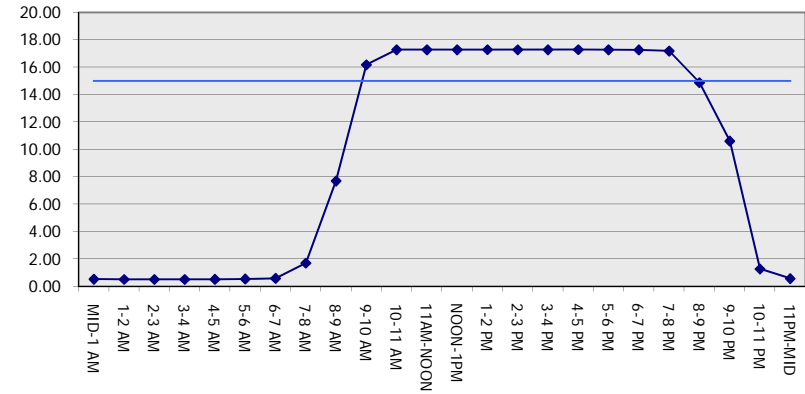
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SATURDAY SOUTHBOUND DIRECTION**

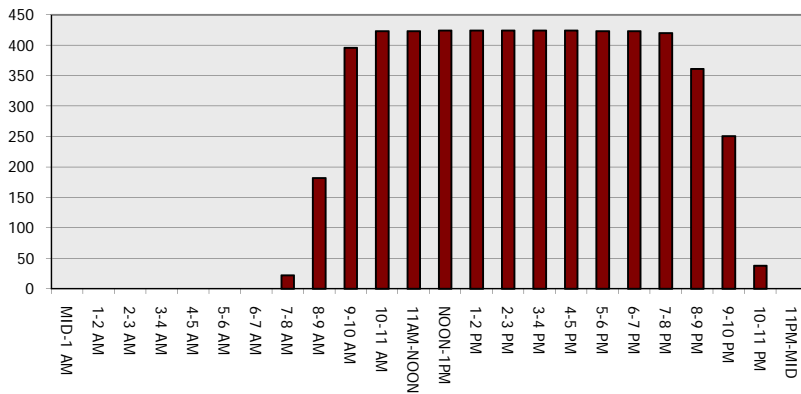
**Main Route - Traffic Demand (Vehicles Per Hour)**



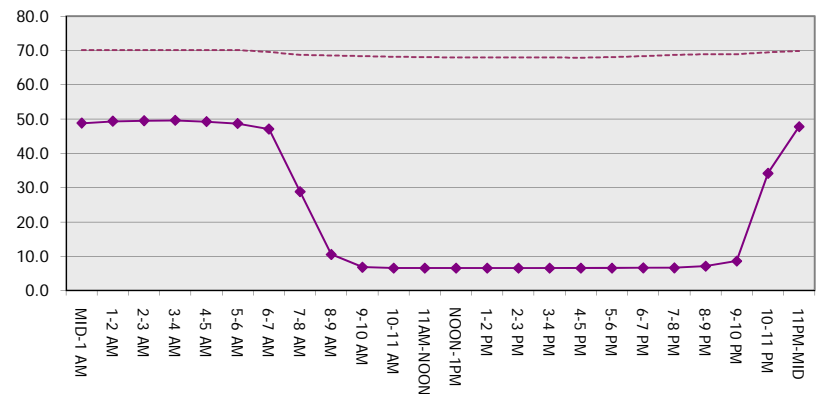
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



<b>USH 41: STH 114 TO BREEZEWOOD LN/BELL ST (WINNEBAGO COUNTY)</b> <b>CONTINUOUS (24 HOUR) 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**

SATURDAY 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	407	0.0	1500	407	0	0.52	0	70.2	48.8	43.8
1-2 AM	249	0.0	1500	249	0	0.50	0	70.2	49.4	44.5
2-3 AM	233	0.0	1500	233	0	0.50	0	70.2	49.4	44.5
3-4 AM	185	0.0	1500	185	0	0.49	0	70.2	49.6	44.7
4-5 AM	212	0.0	1500	212	0	0.50	0	70.2	49.5	44.6
5-6 AM	424	0.0	1500	424	0	0.52	0	70.2	48.7	43.8
6-7 AM	602	0.0	1500	602	0	0.54	0	70.0	48.1	43.1
7-8 AM	1106	0.0	1499	1106	0	0.65	0	69.4	45.0	39.8
8-9 AM	1482	0.0	1499	1482	0	1.31	9	68.9	33.2	32.0
9-10 AM	1839	0.0	1500	1839	0	6.99	180	68.4	11.4	30.8
10-11 AM	2310	0.0	1499	1512	798	17.31+	425	67.9	6.5	30.8
11AM-NOON	2599	0.0	1500	1522	1077	17.38+	427	67.5	6.5	30.8
NOON-1PM	2729	0.0	1500	1515	1214	17.38+	427	67.3	6.5	30.8
1-2 PM	2568	0.0	1500	1500	1068	17.30+	424	67.6	6.5	30.8
2-3 PM	2530	0.0	1500	1500	1030	17.29+	424	67.6	6.5	30.8
3-4 PM	2555	0.0	1500	1500	1055	17.29+	424	67.6	6.5	30.8
4-5 PM	2737	0.0	1499	1503	1234	17.40+	427	67.3	6.5	30.8
5-6 PM	2548	0.0	1500	1499	1049	17.30+	425	67.6	6.5	30.8
6-7 PM	2153	0.0	1500	1500	653	17.27+	424	68.1	6.5	30.8
7-8 PM	1630	0.0	1500	1500	130	17.25+	422	68.7	6.6	30.8
8-9 PM	1376	0.0	1499	1376	0	15.53+	379	69.0	7.0	30.8
9-10 PM	1128	0.0	1499	1128	0	3.67	137	69.3	18.5	35.8
10-11 PM	858	0.0	1500	858	0	0.57	0	69.7	47.3	42.2
11PM-MID	606	0.0	1500	606	0	0.54	0	70.0	48.1	43.1

+ 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	0.0078
MAIN ROUTE WITH WORKS	0.0040
'DIVERSION'	0.0048

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$129,247
CONGESTED HOURS PER DAY*	11

\*Delays Exceeding User-Specified Maximum

**USH 41: STH 114 TO BREEZEWOOD LN/BELL ST (WINNEBAGO COUNTY)**  
**CONTINUOUS (24 HOUR) 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

Analyzed for 2009  
 Construction Season

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

