

<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**

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	279	0.0	1500	279	0	0.51	0	70.2	49.3	44.3	
1-2 AM	196	0.0	1500	196	0	0.50	0	70.2	49.6	44.7	
2-3 AM	241	0.0	1500	241	0	0.50	0	70.2	49.4	44.5	
3-4 AM	254	0.0	1500	254	0	0.50	0	70.2	49.4	44.5	
4-5 AM	429	0.0	1500	429	0	0.53	0	70.2	48.7	43.8	
5-6 AM	1036	0.0	1499	1036	0	0.66	0	69.4	45.0	39.7	
6-7 AM	2057	0.0	1499	2057	0	7.09+	215	68.2	11.7	30.8	
7-8 AM	3048	0.0	1500	1428	1620	17.56+	433	66.9	6.5	31.4	
8-9 AM	2456	0.0	1499	1480	976	17.37+	426	67.7	6.5	30.8	
9-10 AM	2042	0.0	1499	1494	548	17.27+	423	68.2	6.5	30.8	
10-11 AM	2227	0.0	1499	1495	732	17.28+	424	67.9	6.5	30.8	
11AM-NOON	2399	0.0	1499	1495	903	17.29+	424	67.8	6.5	30.8	
NOON-1PM	2675	0.0	1499	1485	1191	17.39+	427	67.4	6.5	30.8	
1-2 PM	2911	0.0	1499	1499	1412	17.57+	432	67.1	6.5	30.8	
2-3 PM	3145	0.0	1499	1502	1643	17.75+	437	66.8	6.5	30.8	
3-4 PM	3444	0.0	1500	1500	1944	17.78+	438	66.4	6.5	30.8	
4-5 PM	3732	0.0	1500	1500	2232	17.75+	438	65.4	6.5	30.8	
5-6 PM	3409	0.0	1500	1500	1909	17.78+	438	66.5	6.5	30.8	
6-7 PM	2346	0.0	1500	1498	848	17.29+	424	67.8	6.5	30.8	
7-8 PM	1645	0.0	1500	1486	159	17.20+	421	68.7	6.6	30.8	
8-9 PM	1424	0.0	1499	1424	0	16.07+	392	69.0	6.8	30.8	
9-10 PM	1282	0.0	1499	1282	0	10.16	247	69.1	8.9	31.2	
10-11 PM	1005	0.0	1500	1005	0	0.94	18	69.5	39.0	40.9	
11PM-MID	644	0.0	1500	644	0	0.55	0	69.9	48.0	43.0	

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(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	0
(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	0.0099
MAIN ROUTE WITH WORKS	0.0044
'DIVERSION'	0.0083
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$152,055
CONGESTED HOURS PER DAY*	15

\*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)**

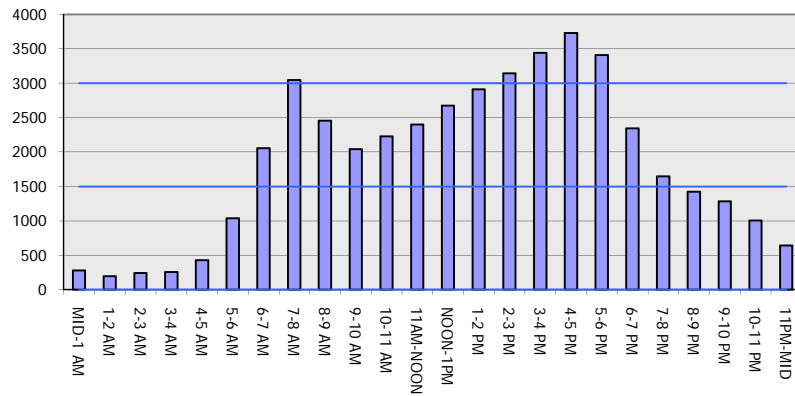
**OCTOBER**

Analyzed for 2009  
Construction Season

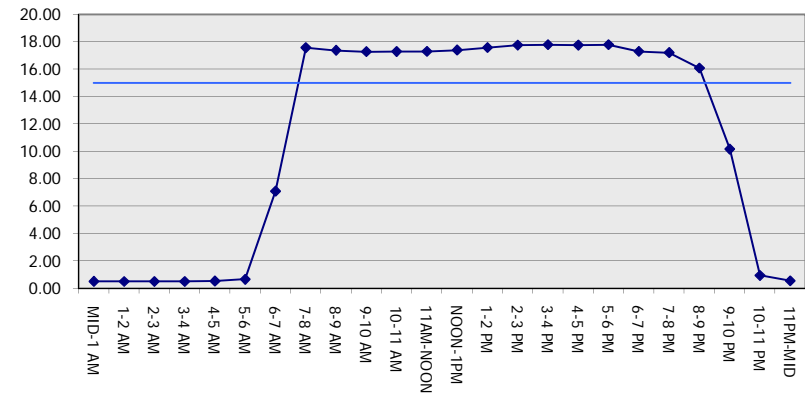
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY SOUTHBOUND DIRECTION**

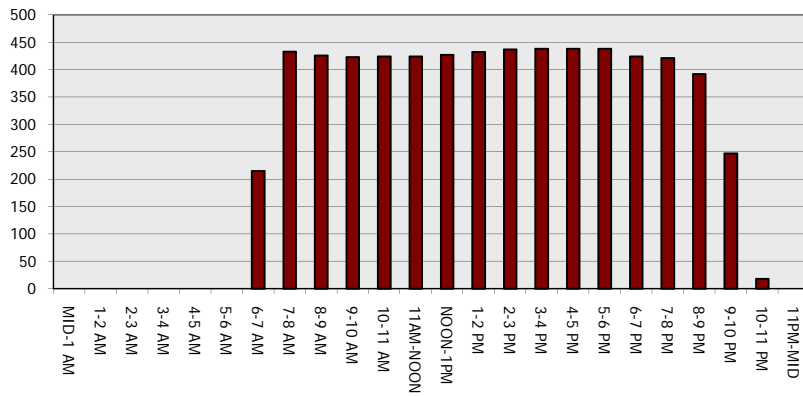
**Main Route - Traffic Demand (Vehicles Per Hour)**



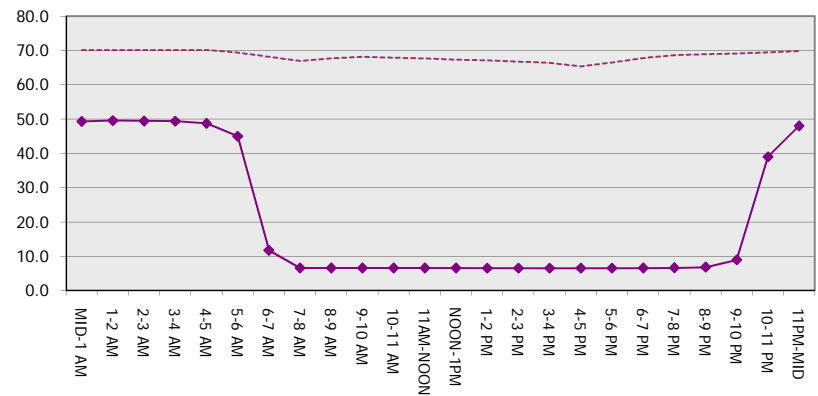
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



<b>USH 41: 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**

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	310	0.0	1500	310	0	0.51	0	70.2	49.2	44.2
1-2 AM	243	0.0	1500	243	0	0.50	0	70.2	49.4	44.5
2-3 AM	217	0.0	1500	217	0	0.50	0	70.2	49.5	44.6
3-4 AM	216	0.0	1500	216	0	0.50	0	70.2	49.5	44.6
4-5 AM	382	0.0	1500	382	0	0.52	0	70.2	48.9	44.0
5-6 AM	961	0.0	1499	961	0	0.60	0	69.6	46.5	41.4
6-7 AM	1841	0.0	1499	1841	0	3.36	102	68.4	19.3	30.8
7-8 AM	3141	0.0	1499	1550	1591	17.57+	432	66.8	6.5	30.8
8-9 AM	2306	0.0	1500	1507	799	17.29+	424	67.9	6.5	30.8
9-10 AM	2263	0.0	1500	1504	759	17.28+	424	67.9	6.5	30.8
10-11 AM	2514	0.0	1500	1509	1005	17.32+	425	67.6	6.5	30.8
11AM-NOON	2816	0.0	1500	1516	1300	17.46+	429	67.3	6.5	30.8
NOON-1PM	2866	0.0	1500	1504	1362	17.52+	431	67.2	6.5	30.8
1-2 PM	3064	0.0	1499	1505	1558	17.70+	436	66.9	6.5	30.8
2-3 PM	3343	0.0	1500	1500	1843	17.79+	438	66.6	6.5	30.8
3-4 PM	3892	0.0	1500	1500	2392	17.72+	438	64.3	6.5	30.8
4-5 PM	4114	0.0	1500	1500	2614	17.67+	438	62.8	6.5	30.8
5-6 PM	3948	0.0	1500	1500	2448	17.71+	438	63.9	6.5	30.8
6-7 PM	2966	0.0	1500	1496	1470	17.60+	433	67.1	6.5	30.8
7-8 PM	2046	0.0	1500	1499	548	17.27+	423	68.2	6.5	30.8
8-9 PM	1434	0.0	1499	1409	25	16.39+	401	68.9	6.7	30.8
9-10 PM	1245	0.0	1499	1245	0	9.22	229	69.2	9.4	32.0
10-11 PM	882	0.0	1500	882	0	0.71	6	69.6	43.9	42.0
11PM-MID	650	0.0	1500	650	0	0.55	0	69.9	47.9	43.0

+ 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	0.0106
MAIN ROUTE WITH WORKS	0.0044
'DIVERSION'	0.0102

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$165,186
CONGESTED HOURS PER DAY*	14

\*Delays Exceeding User-Specified Maximum

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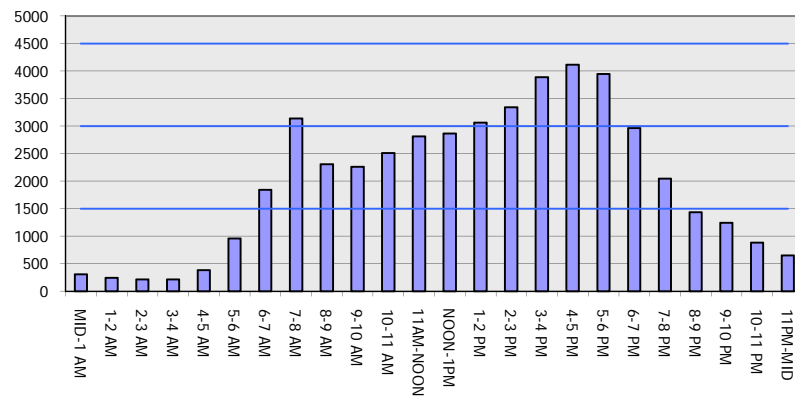
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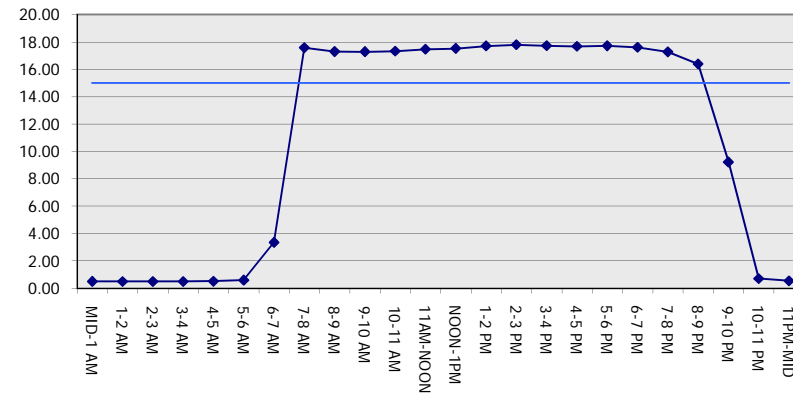
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY NORTHBOUND DIRECTION**

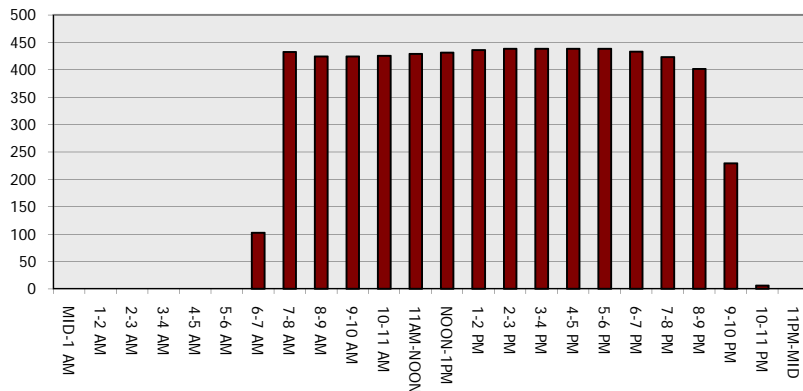
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

