

USH 41: BREEZEWOOD LN/BELL ST TO STH 76 (WINNEBAGO COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	225	0.0	1500	225	0	0.44	0	66.0	60.3	44.6
1-2 AM	162	0.0	1500	162	0	0.44	0	66.1	60.5	44.8
2-3 AM	163	0.0	1500	163	0	0.44	0	66.1	60.5	44.8
3-4 AM	211	0.0	1500	211	0	0.44	0	66.0	60.4	44.6
4-5 AM	400	0.0	1500	400	0	0.46	0	65.6	59.8	43.9
5-6 AM	937	0.0	OFF	937	0	0.00	0	64.6	64.6	64.6
6-7 AM	1811	0.0	OFF	1811	0	0.00	0	63.0	63.0	63.0
7-8 AM	2458	0.0	OFF	2458	0	0.00	0	61.3	61.3	61.3
8-9 AM	1941	0.0	OFF	1941	0	0.00	0	62.8	62.8	62.8
9-10 AM	1688	0.0	OFF	1688	0	0.00	0	63.2	63.2	63.2
10-11 AM	1680	0.0	OFF	1680	0	0.00	0	63.3	63.3	63.3
11AM-NOON	1735	0.0	OFF	1735	0	0.00	0	63.2	63.2	63.2
NOON-1PM	1821	0.0	OFF	1821	0	0.00	0	63.0	63.0	63.0
1-2 PM	2009	0.0	OFF	2009	0	0.00	0	62.7	62.7	62.7
2-3 PM	2202	0.0	OFF	2202	0	0.00	0	62.3	62.3	62.3
3-4 PM	2345	0.0	OFF	2345	0	0.00	0	62.0	62.0	62.0
4-5 PM	2693	0.0	OFF	2693	0	0.00	0	58.9	58.9	58.9
5-6 PM	2507	0.0	OFF	2507	0	0.00	0	60.8	60.8	60.8
6-7 PM	1588	0.0	OFF	1588	0	0.00	0	63.4	63.4	63.4
7-8 PM	1144	0.0	1500	1144	0	0.56	0	64.3	57.6	40.4
8-9 PM	1040	0.0	1500	1040	0	0.52	0	64.5	58.2	41.5
9-10 PM	894	0.0	1500	894	0	0.51	0	64.7	58.6	42.0
10-11 PM	712	0.0	1500	712	0	0.49	0	65.1	59.0	42.7
11PM-MID	483	0.0	1500	483	0	0.47	0	65.5	59.6	43.6

"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

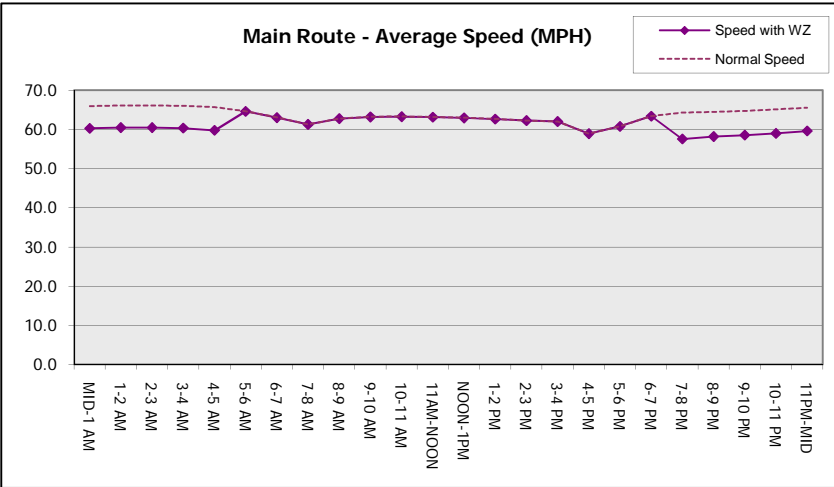
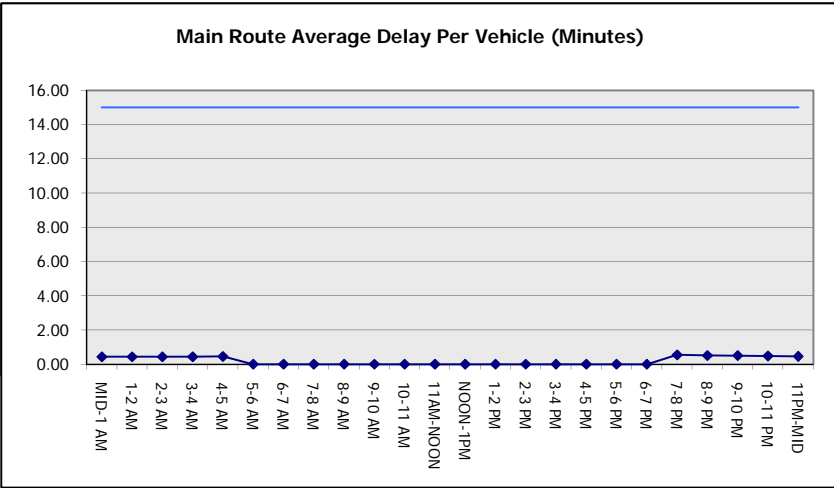
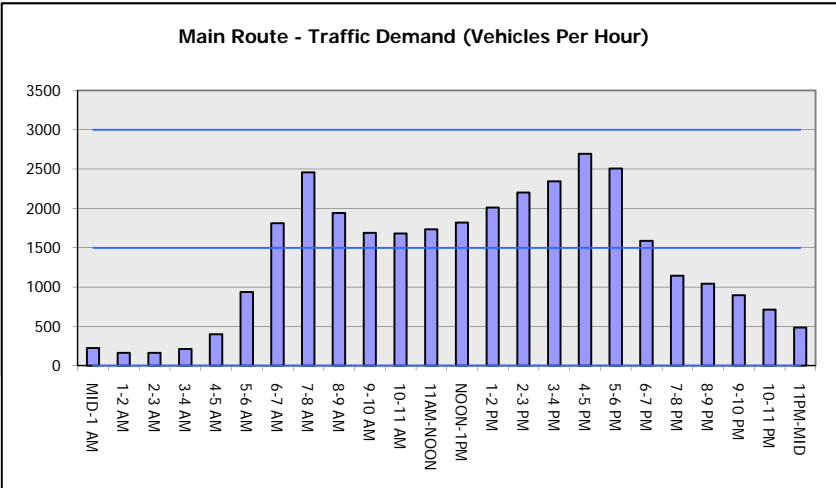
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0272
MAIN ROUTE WITH WORKS	0.0268
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$569
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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



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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	237	0.0	1500	237	0	0.45	0	66.0	60.2	44.5
1-2 AM	174	0.0	1500	174	0	0.44	0	66.1	60.4	44.8
2-3 AM	150	0.0	1500	150	0	0.44	0	66.1	60.5	44.9
3-4 AM	167	0.0	1500	167	0	0.44	0	66.1	60.5	44.8
4-5 AM	320	0.0	1500	320	0	0.45	0	65.8	60.1	44.2
5-6 AM	898	0.0	OFF	898	0	0.00	0	64.7	64.7	64.7
6-7 AM	1616	0.0	OFF	1616	0	0.00	0	63.4	63.4	63.4
7-8 AM	2519	0.0	OFF	2519	0	0.00	0	60.7	60.7	60.7
8-9 AM	1859	0.0	OFF	1859	0	0.00	0	62.9	62.9	62.9
9-10 AM	1717	0.0	OFF	1717	0	0.00	0	63.2	63.2	63.2
10-11 AM	1812	0.0	OFF	1812	0	0.00	0	63.0	63.0	63.0
11AM-NOON	1884	0.0	OFF	1884	0	0.00	0	62.8	62.8	62.8
NOON-1PM	1867	0.0	OFF	1867	0	0.00	0	62.9	62.9	62.9
1-2 PM	1942	0.0	OFF	1942	0	0.00	0	62.8	62.8	62.8
2-3 PM	2181	0.0	OFF	2181	0	0.00	0	62.3	62.3	62.3
3-4 PM	2549	0.0	OFF	2549	0	0.00	0	60.4	60.4	60.4
4-5 PM	2870	0.0	OFF	2870	0	0.00	0	57.1	57.1	57.1
5-6 PM	2663	0.0	OFF	2663	0	0.00	0	59.2	59.2	59.2
6-7 PM	1735	0.0	OFF	1735	0	0.00	0	63.2	63.2	63.2
7-8 PM	1171	0.0	1500	1171	0	0.60	0	64.2	57.1	39.4
8-9 PM	986	0.0	1500	986	0	0.52	0	64.5	58.3	41.7
9-10 PM	812	0.0	1500	812	0	0.50	0	64.9	58.7	42.4
10-11 PM	628	0.0	1500	628	0	0.48	0	65.2	59.2	43.0
11PM-MID	458	0.0	1500	458	0	0.47	0	65.5	59.7	43.7

"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	0.0275
MAIN ROUTE WITH WORKS	0.0272
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$542
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

AUGUST

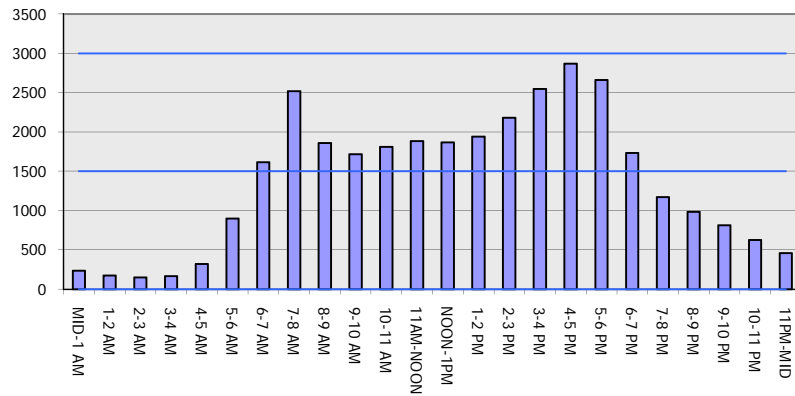
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

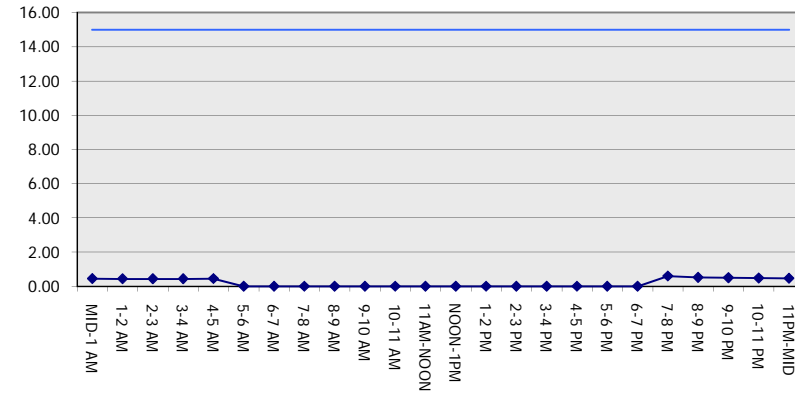
MON-THUR

NORTHBOUND DIRECTION

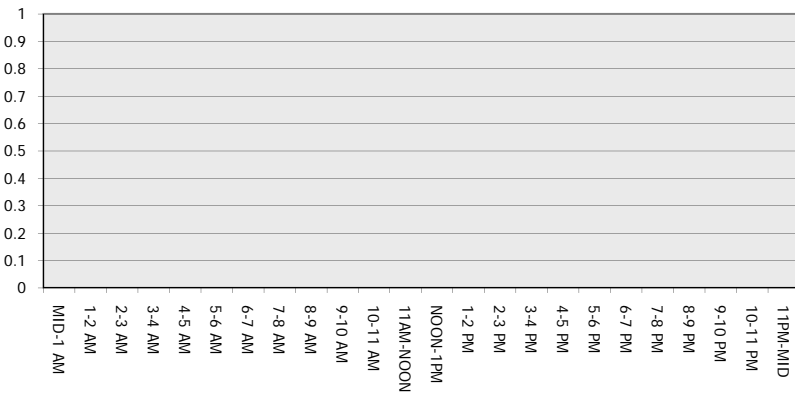
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

