

USH 41: BREEZEWOOD LN/BELL ST TO STH 76 (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) 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	1499	937	0	0.51	0	64.6	58.4	41.9	
6-7 AM	1811	0.0	1499	1811	0	4.11	107	63.0	34.4	30.8	
7-8 AM	2458	0.0	1499	1500	958	15.57+	399	61.3	15.1	32.4	
8-9 AM	1941	0.0	1500	1567	374	15.52+	393	62.8	15.2	30.8	
9-10 AM	1688	0.0	1500	1505	183	15.80+	399	63.2	15.0	30.8	
10-11 AM	1680	0.0	1499	1500	180	15.83+	400	63.3	15.0	30.8	
11AM-NOON	1735	0.0	1500	1500	235	15.82+	400	63.2	15.0	30.8	
NOON-1PM	1821	0.0	1500	1500	321	15.81+	400	63.0	15.0	30.8	
1-2 PM	2009	0.0	1500	1500	509	15.78+	400	62.7	15.0	30.8	
2-3 PM	2202	0.0	1500	1500	702	15.75+	400	62.3	15.0	30.8	
3-4 PM	2345	0.0	1500	1500	845	15.73+	400	62.0	15.0	30.8	
4-5 PM	2693	0.0	1500	1500	1193	15.46+	400	58.9	15.0	30.8	
5-6 PM	2507	0.0	1500	1500	1007	15.63+	400	60.8	15.0	30.8	
6-7 PM	1588	0.0	1500	1459	129	15.11+	381	63.4	15.6	30.8	
7-8 PM	1144	0.0	1499	1144	0	6.25	181	64.3	28.1	34.3	
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	

+ 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	0.0272
MAIN ROUTE WITH WORKS	0.0200
'DIVERSION'	0.0127
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$88,592
CONGESTED HOURS PER DAY*	12

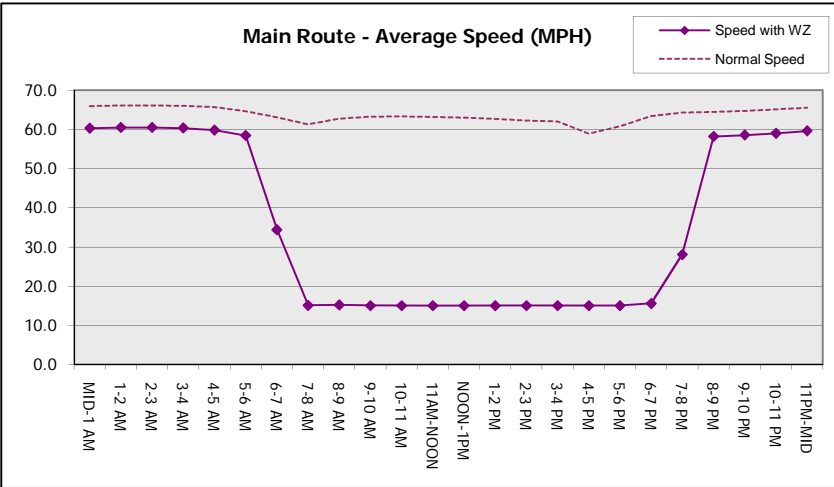
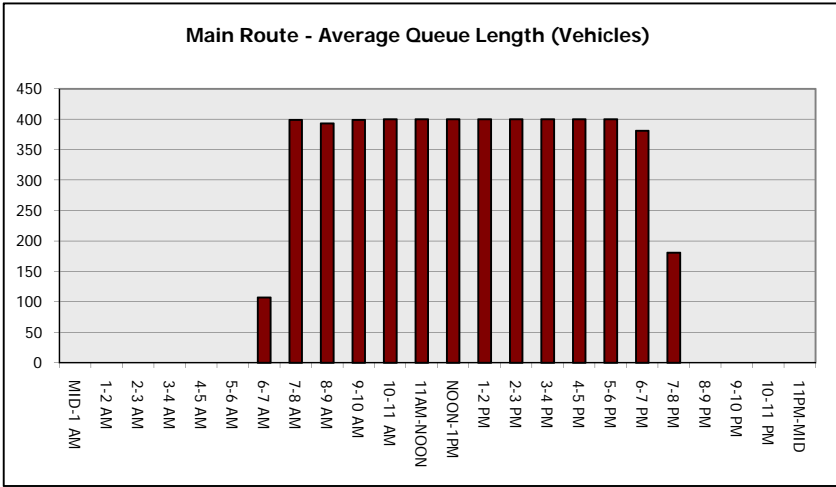
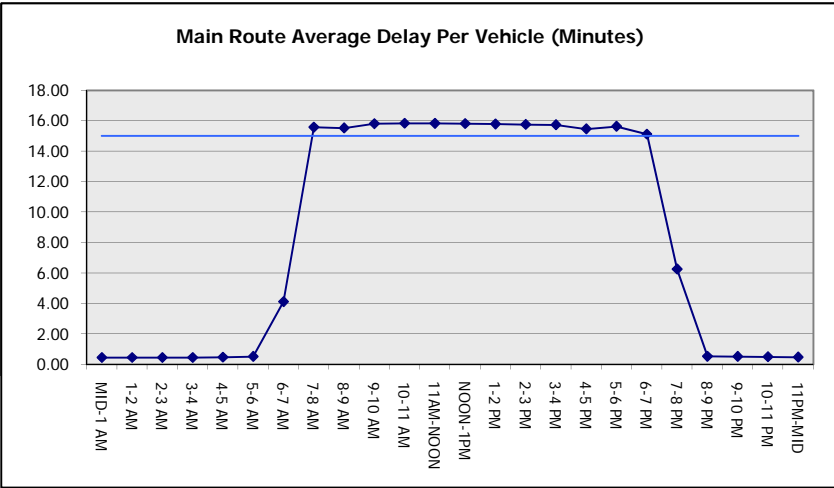
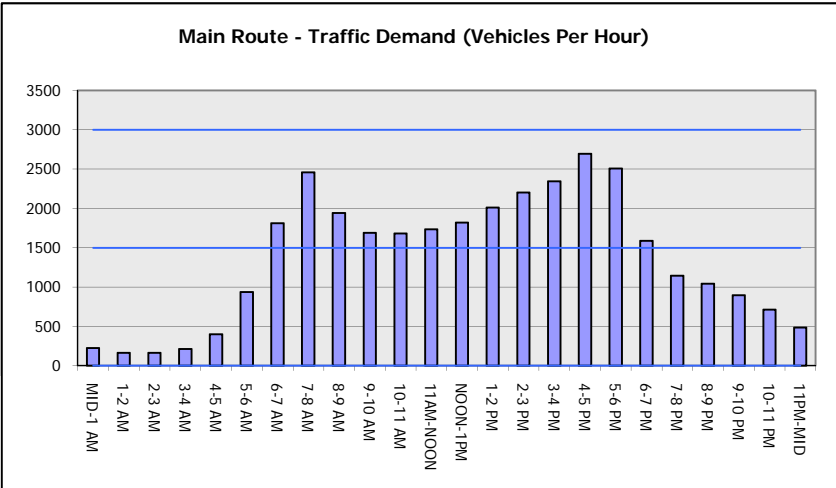
*Delays Exceeding User-Specified Maximum

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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	1500	898	0	0.51	0	64.7	58.5	42.0
6-7 AM	1616	0.0	1499	1616	0	2.11	39	63.4	44.4	31.7
7-8 AM	2519	0.0	1500	1755	764	14.16+	371	60.7	16.1	32.7
8-9 AM	1859	0.0	1499	1500	359	15.80+	399	62.9	15.0	30.8
9-10 AM	1717	0.0	1500	1500	217	15.82+	400	63.2	15.0	30.8
10-11 AM	1812	0.0	1500	1500	312	15.81+	400	63.0	15.0	30.8
11AM-NOON	1884	0.0	1500	1500	384	15.80+	400	62.8	15.0	30.8
NOON-1PM	1867	0.0	1500	1500	367	15.80+	400	62.9	15.0	30.8
1-2 PM	1942	0.0	1500	1500	442	15.79+	400	62.8	15.0	30.8
2-3 PM	2181	0.0	1500	1500	681	15.75+	400	62.3	15.0	30.8
3-4 PM	2549	0.0	1500	1500	1049	15.59+	400	60.4	15.0	30.8
4-5 PM	2870	0.0	1500	1500	1370	15.29+	400	57.1	15.0	30.8
5-6 PM	2663	0.0	1500	1500	1163	15.49+	400	59.2	15.0	30.8
6-7 PM	1735	0.0	1500	1482	252	15.74+	398	63.2	15.1	30.8
7-8 PM	1171	0.0	1499	1171	0	9.50	255	64.2	21.7	33.0
8-9 PM	986	0.0	1500	986	0	0.67	4	64.5	56.8	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

+ 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	0.0275
MAIN ROUTE WITH WORKS	0.0197
'DIVERSION'	0.0141

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$91,055
CONGESTED HOURS PER DAY*	12

*Delays Exceeding User-Specified Maximum

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