

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

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	317	0.0	1500	317	0	0.45	0	65.8	60.1	44.2
1-2 AM	219	0.0	1500	219	0	0.44	0	66.0	60.3	44.6
2-3 AM	182	0.0	1500	182	0	0.44	0	66.1	60.4	44.8
3-4 AM	139	0.0	1500	139	0	0.44	0	66.1	60.5	45.0
4-5 AM	225	0.0	1500	225	0	0.44	0	66.0	60.3	44.6
5-6 AM	338	0.0	1500	338	0	0.46	0	65.8	60.0	44.2
6-7 AM	611	0.0	1500	611	0	0.48	0	65.3	59.2	43.1
7-8 AM	973	0.0	1500	973	0	0.52	0	64.6	58.3	41.8
8-9 AM	1411	0.0	1499	1411	0	0.91	0	63.8	53.8	32.9
9-10 AM	1665	0.0	1499	1665	0	3.22	67	63.3	38.3	30.8
10-11 AM	1890	0.0	1500	1698	192	12.48+	323	62.8	17.9	30.8
11AM-NOON	1987	0.0	1499	1500	487	15.78+	399	62.7	15.0	30.8
NOON-1PM	1927	0.0	1500	1500	427	15.79+	400	62.8	15.0	30.8
1-2 PM	1913	0.0	1500	1500	413	15.79+	400	62.8	15.0	30.8
2-3 PM	1877	0.0	1500	1500	377	15.80+	400	62.9	15.0	30.8
3-4 PM	1751	0.0	1500	1510	241	15.77+	398	63.1	15.0	30.8
4-5 PM	1691	0.0	1500	1514	177	15.76+	398	63.2	15.1	30.8
5-6 PM	1501	0.0	1500	1484	17	15.51+	390	63.6	15.3	30.8
6-7 PM	1245	0.0	1499	1245	0	10.01	256	64.1	21.0	31.6
7-8 PM	1074	0.0	1500	1074	0	1.01	16	64.4	53.3	40.6
8-9 PM	1005	0.0	1500	1005	0	0.52	0	64.5	58.2	41.7
9-10 PM	1058	0.0	1500	1058	0	0.52	0	64.4	58.1	41.5
10-11 PM	1170	0.0	1500	1170	0	0.60	0	64.2	57.1	39.4
11PM-MID	1268	0.0	1500	1268	0	0.72	0	64.0	55.7	36.4

+ 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

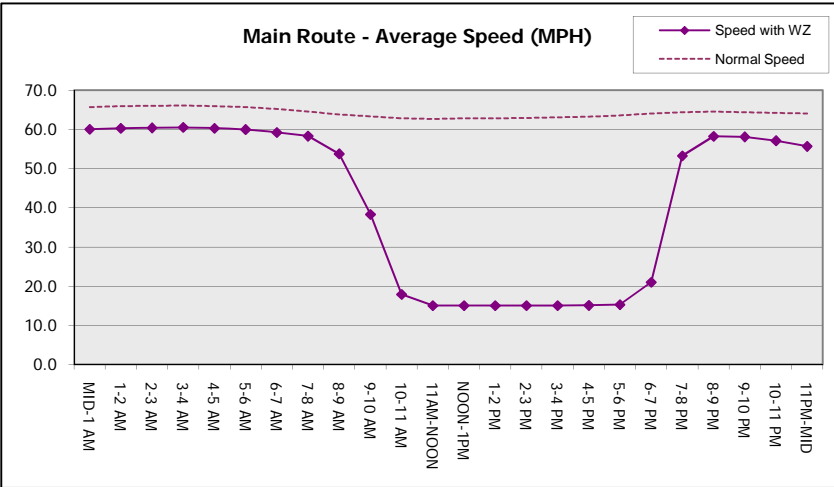
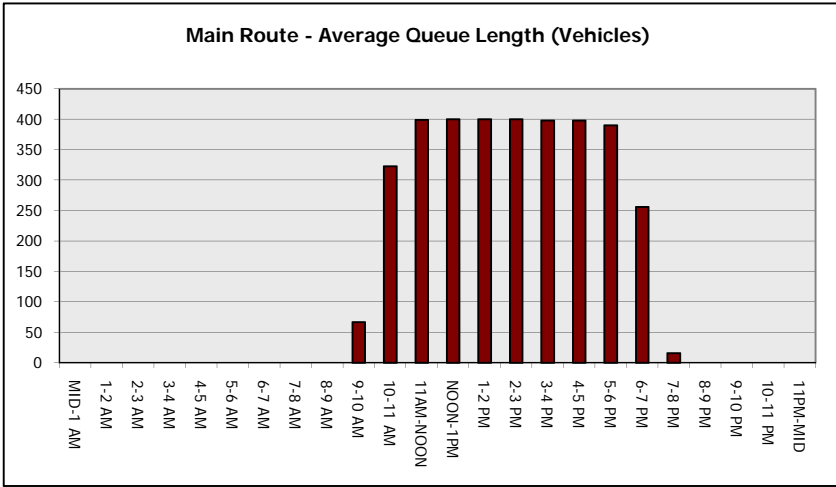
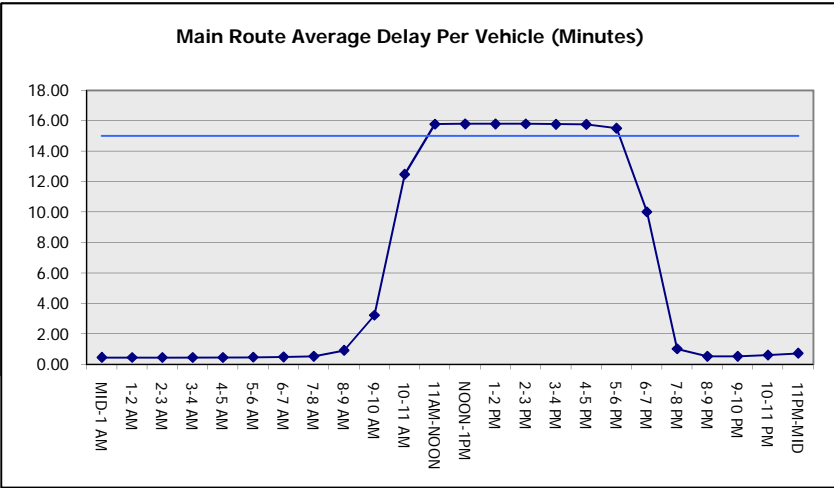
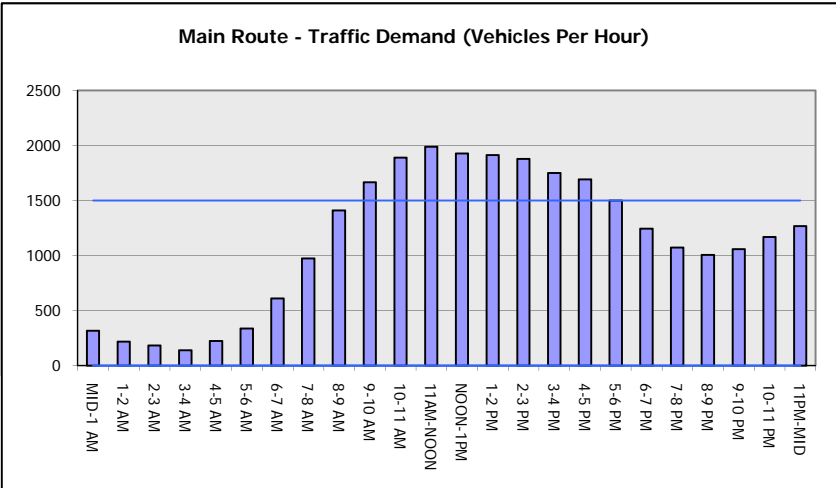
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0227
MAIN ROUTE WITH WORKS	0.0191
'DIVERSION'	0.0045
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$69,331
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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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	390	0.0	1500	390	0	0.46	0	65.6	59.9	43.9	
1-2 AM	253	0.0	1500	253	0	0.45	0	65.9	60.2	44.5	
2-3 AM	184	0.0	1500	184	0	0.44	0	66.0	60.4	44.8	
3-4 AM	150	0.0	1500	150	0	0.44	0	66.1	60.5	44.9	
4-5 AM	197	0.0	1500	197	0	0.44	0	66.0	60.4	44.7	
5-6 AM	330	0.0	1500	330	0	0.45	0	65.8	60.0	44.2	
6-7 AM	513	0.0	1500	513	0	0.47	0	65.5	59.6	43.5	
7-8 AM	779	0.0	1500	779	0	0.50	0	65.0	58.8	42.5	
8-9 AM	1114	0.0	1499	1114	0	0.58	0	64.3	57.4	40.1	
9-10 AM	1461	0.0	1499	1461	0	1.20	7	63.7	51.2	32.4	
10-11 AM	1932	0.0	1500	1932	0	8.10	225	62.8	23.8	30.8	
11AM-NOON	2160	0.0	1500	1489	670	15.72+	398	62.3	15.0	30.8	
NOON-1PM	2319	0.0	1500	1500	819	15.73+	400	62.0	15.0	30.8	
1-2 PM	2393	0.0	1500	1500	893	15.72+	400	61.9	15.0	30.8	
2-3 PM	2429	0.0	1500	1500	929	15.70+	400	61.6	15.0	30.8	
3-4 PM	2347	0.0	1500	1500	847	15.73+	400	62.0	15.0	30.8	
4-5 PM	2225	0.0	1500	1500	725	15.75+	400	62.2	15.0	30.8	
5-6 PM	2050	0.0	1500	1485	565	15.72+	398	62.6	15.1	30.8	
6-7 PM	1505	0.0	1499	1393	112	14.88+	374	63.6	15.8	30.8	
7-8 PM	1093	0.0	1499	1093	0	4.67	150	64.3	32.8	36.2	
8-9 PM	966	0.0	1500	966	0	0.52	0	64.6	58.4	41.8	
9-10 PM	828	0.0	1500	828	0	0.50	0	64.8	58.7	42.3	
10-11 PM	772	0.0	1500	772	0	0.50	0	65.0	58.9	42.5	
11PM-MID	527	0.0	1500	527	0	0.47	0	65.4	59.5	43.4	

+ 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	0.0239
MAIN ROUTE WITH WORKS	0.0178
'DIVERSION'	0.0107

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$83,834
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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