

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

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	344	0.0	1500	344	0	0.46	0	65.8	60.0	44.1
1-2 AM	198	0.0	1500	198	0	0.44	0	66.0	60.4	44.7
2-3 AM	196	0.0	1500	196	0	0.44	0	66.0	60.4	44.7
3-4 AM	225	0.0	1500	225	0	0.44	0	66.0	60.3	44.6
4-5 AM	372	0.0	1500	372	0	0.46	0	65.7	59.9	44.0
5-6 AM	820	0.0	1500	820	0	0.50	0	64.8	58.7	42.3
6-7 AM	1617	0.0	1499	1617	0	2.05	35	63.3	44.8	31.4
7-8 AM	2185	0.0	1500	1819	366	13.62+	352	62.3	16.8	30.8
8-9 AM	1872	0.0	1499	1455	418	15.63+	395	62.9	15.2	30.8
9-10 AM	1796	0.0	1500	1500	296	15.81+	400	63.0	15.0	30.8
10-11 AM	1919	0.0	1500	1500	419	15.79+	400	62.8	15.0	30.8
11AM-NOON	2056	0.0	1500	1500	556	15.77+	400	62.5	15.0	30.8
NOON-1PM	2196	0.0	1500	1500	696	15.75+	400	62.3	15.0	30.8
1-2 PM	2384	0.0	1500	1500	884	15.72+	400	61.9	15.0	30.8
2-3 PM	2615	0.0	1500	1500	1115	15.53+	400	59.7	15.0	30.8
3-4 PM	2695	0.0	1500	1500	1195	15.46+	400	58.9	15.0	30.8
4-5 PM	2842	0.0	1500	1500	1342	15.32+	400	57.4	15.0	30.8
5-6 PM	2430	0.0	1500	1500	930	15.69+	400	61.6	15.0	30.8
6-7 PM	1682	0.0	1500	1472	210	15.71+	396	63.3	15.1	30.8
7-8 PM	1220	0.0	1499	1220	0	10.35	269	64.1	20.5	32.0
8-9 PM	1035	0.0	1500	1035	0	0.91	13	64.5	54.3	41.2
9-10 PM	991	0.0	1500	991	0	0.52	0	64.5	58.3	41.7
10-11 PM	821	0.0	1500	821	0	0.50	0	64.8	58.7	42.3
11PM-MID	495	0.0	1500	495	0	0.47	0	65.5	59.6	43.5

+ 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

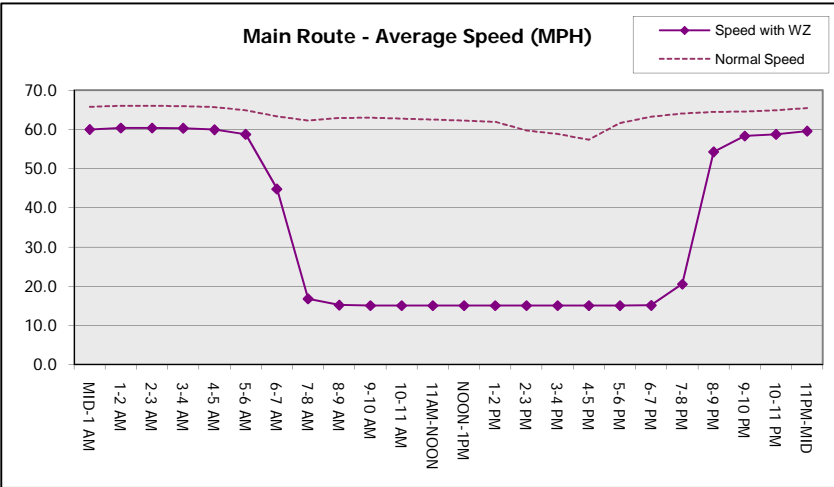
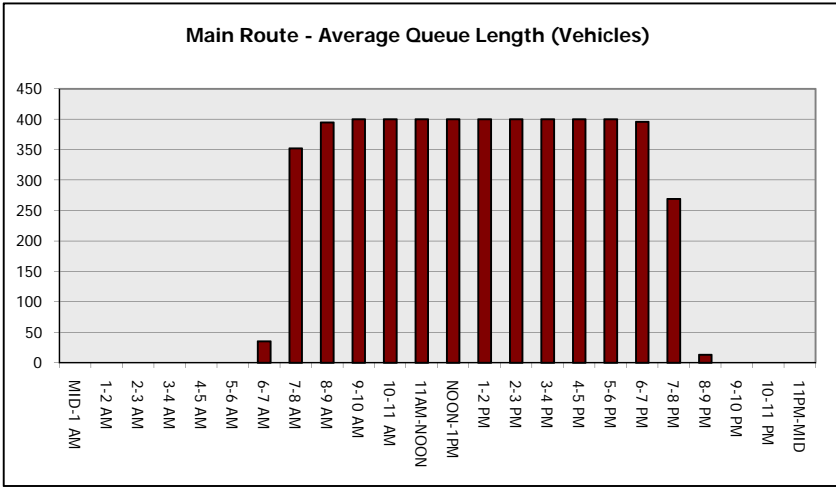
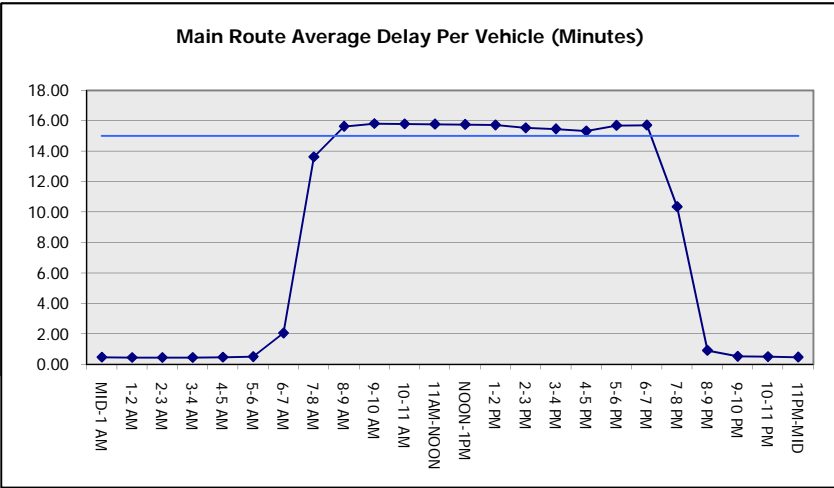
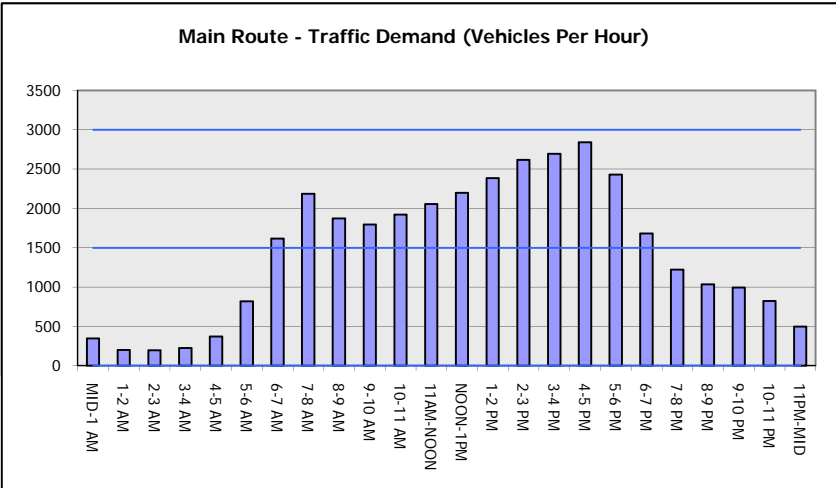
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0290
MAIN ROUTE WITH WORKS	0.0202
'DIVERSION'	0.0162
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$97,651
CONGESTED HOURS PER DAY*	12

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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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	300	0.0	1500	300	0	0.45	0	65.8	60.1	44.3	
1-2 AM	202	0.0	1500	202	0	0.44	0	66.0	60.4	44.6	
2-3 AM	190	0.0	1500	190	0	0.44	0	66.0	60.4	44.7	
3-4 AM	183	0.0	1500	183	0	0.44	0	66.1	60.4	44.8	
4-5 AM	327	0.0	1500	327	0	0.45	0	65.8	60.1	44.2	
5-6 AM	831	0.0	1500	831	0	0.50	0	64.8	58.7	42.3	
6-7 AM	1491	0.0	1499	1491	0	1.56	21	63.6	48.3	33.0	
7-8 AM	2279	0.0	1500	1868	411	12.74+	334	62.2	17.6	30.8	
8-9 AM	1827	0.0	1499	1467	360	15.68+	396	63.0	15.1	30.8	
9-10 AM	1846	0.0	1499	1500	346	15.80+	400	63.0	15.0	30.8	
10-11 AM	2047	0.0	1499	1500	547	15.77+	400	62.6	15.0	30.8	
11AM-NOON	2202	0.0	1499	1500	702	15.75+	400	62.3	15.0	30.8	
NOON-1PM	2314	0.0	1499	1500	814	15.73+	400	62.1	15.0	30.8	
1-2 PM	2415	0.0	1499	1500	915	15.71+	400	61.8	15.0	30.8	
2-3 PM	2685	0.0	1500	1500	1185	15.47+	400	59.0	15.0	30.8	
3-4 PM	2925	0.0	1499	1500	1425	15.24+	399	56.5	15.0	30.8	
4-5 PM	3122	0.0	1499	1500	1622	15.04+	400	54.5	15.0	30.8	
5-6 PM	2980	0.0	1499	1500	1480	15.18+	400	56.0	15.0	30.8	
6-7 PM	2379	0.0	1499	1500	879	15.72+	400	62.0	15.0	30.8	
7-8 PM	1846	0.0	1499	1500	346	15.80+	400	63.0	15.0	30.8	
8-9 PM	1380	0.0	1499	1347	33	14.07+	354	63.8	16.5	30.8	
9-10 PM	1136	0.0	1499	1136	0	3.68	113	64.3	36.5	36.3	
10-11 PM	861	0.0	1500	861	0	0.51	0	64.8	58.6	42.2	
11PM-MID	682	0.0	1500	682	0	0.49	0	65.1	59.1	42.8	

+ 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	0.0318
MAIN ROUTE WITH WORKS	0.0209
'DIVERSION'	0.0212

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$113,271
CONGESTED HOURS PER DAY*	14

*Delays Exceeding User-Specified Maximum

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