

USH 41: 9TH AVE TO STH 44 (WINNEBAGO COUNTY) OFF-PEAK DAY 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	275	0.0	OFF	275	0	0.00	0	65.9	65.9	65.9	
1-2 AM	187	0.0	OFF	187	0	0.00	0	66.0	66.0	66.0	
2-3 AM	169	0.0	OFF	169	0	0.00	0	66.1	66.1	66.1	
3-4 AM	220	0.0	OFF	220	0	0.00	0	66.0	66.0	66.0	
4-5 AM	385	0.0	OFF	385	0	0.00	0	65.6	65.6	65.6	
5-6 AM	841	0.0	OFF	841	0	0.00	0	64.8	64.8	64.8	
6-7 AM	1496	0.0	OFF	1496	0	0.00	0	63.6	63.6	63.6	
7-8 AM	2096	0.0	OFF	2096	0	0.00	0	62.5	62.5	62.5	
8-9 AM	1844	0.0	OFF	1844	0	0.00	0	63.0	63.0	63.0	
9-10 AM	1839	0.0	OFF	1839	0	0.00	0	63.0	63.0	63.0	
10-11 AM	1975	0.0	1499	1975	0	8.31+	229	62.7	11.4	30.8	
11AM-NOON	2090	0.0	1499	1492	598	17.33+	441	62.5	7.8	30.8	
NOON-1PM	2201	0.0	1499	1494	707	17.34+	441	62.3	7.8	30.8	
1-2 PM	2320	0.0	1499	1495	825	17.35+	441	62.0	7.8	30.8	
2-3 PM	2570	0.0	1499	1493	1078	17.33+	443	60.2	7.8	30.8	
3-4 PM	2684	0.0	OFF	2684	0	1.27	76	59.0	31.2	31.2	
4-5 PM	2696	0.0	OFF	2696	0	0.00	0	58.9	58.9	58.9	
5-6 PM	2310	0.0	OFF	2310	0	0.00	0	62.1	62.1	62.1	
6-7 PM	1730	0.0	OFF	1730	0	0.00	0	63.2	63.2	63.2	
7-8 PM	1247	0.0	OFF	1247	0	0.00	0	64.1	64.1	64.1	
8-9 PM	1009	0.0	OFF	1009	0	0.00	0	64.5	64.5	64.5	
9-10 PM	870	0.0	OFF	870	0	0.00	0	64.8	64.8	64.8	
10-11 PM	784	0.0	OFF	784	0	0.00	0	64.9	64.9	64.9	
11PM-MID	492	0.0	OFF	492	0	0.00	0	65.5	65.5	65.5	

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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

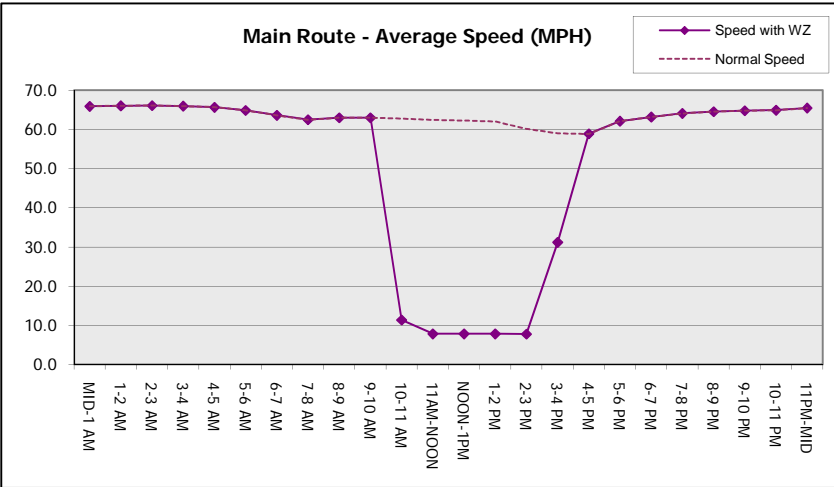
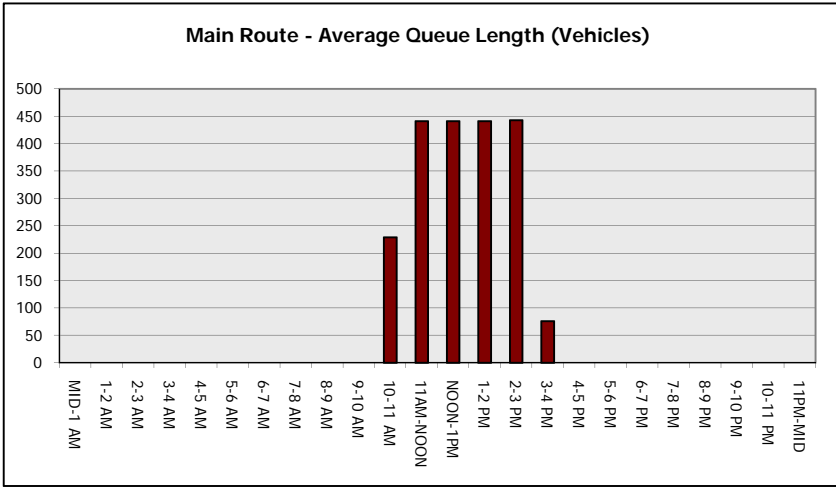
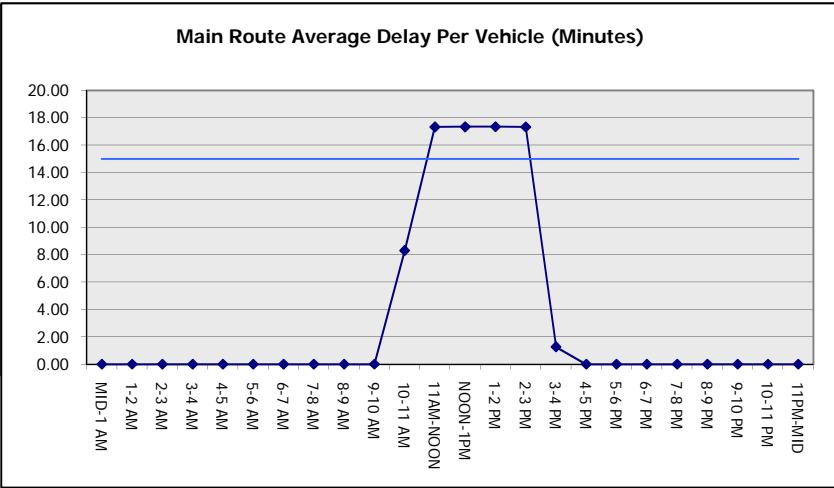
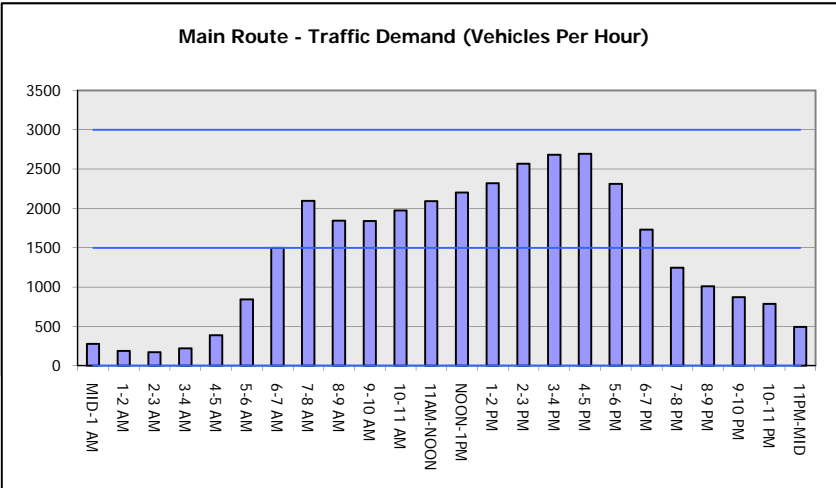
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0076
MAIN ROUTE WITH WORKS	0.0064
'DIVERSION'	0.0017
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$39,650
CONGESTED HOURS PER DAY*	5

*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	244	0.0	OFF	244	0	0.00	0	66.0	66.0	66.0
1-2 AM	163	0.0	OFF	163	0	0.00	0	66.1	66.1	66.1
2-3 AM	163	0.0	OFF	163	0	0.00	0	66.1	66.1	66.1
3-4 AM	195	0.0	OFF	195	0	0.00	0	66.0	66.0	66.0
4-5 AM	288	0.0	OFF	288	0	0.00	0	65.8	65.8	65.8
5-6 AM	755	0.0	OFF	755	0	0.00	0	65.0	65.0	65.0
6-7 AM	1363	0.0	OFF	1363	0	0.00	0	63.8	63.8	63.8
7-8 AM	1860	0.0	OFF	1860	0	0.00	0	62.9	62.9	62.9
8-9 AM	1588	0.0	OFF	1588	0	0.00	0	63.4	63.4	63.4
9-10 AM	1707	0.0	OFF	1707	0	0.00	0	63.2	63.2	63.2
10-11 AM	1927	0.0	1499	1927	0	7.37	202	62.8	12.0	30.8
11AM-NOON	2069	0.0	1499	1503	566	17.33+	440	62.5	7.8	30.8
NOON-1PM	2194	0.0	1500	1503	691	17.34+	441	62.3	7.8	30.8
1-2 PM	2366	0.0	1500	1502	863	17.35+	442	62.0	7.8	30.8
2-3 PM	2494	0.0	1500	1502	992	17.33+	442	60.9	7.8	30.8
3-4 PM	2657	0.0	OFF	2657	0	1.18	71	59.3	32.3	32.3
4-5 PM	2733	0.0	OFF	2733	0	0.00	0	58.5	58.5	58.5
5-6 PM	2704	0.0	OFF	2704	0	0.00	0	58.8	58.8	58.8
6-7 PM	2349	0.0	OFF	2349	0	0.00	0	62.0	62.0	62.0
7-8 PM	1867	0.0	OFF	1867	0	0.00	0	62.9	62.9	62.9
8-9 PM	1439	0.0	OFF	1439	0	0.00	0	63.7	63.7	63.7
9-10 PM	1077	0.0	OFF	1077	0	0.00	0	64.4	64.4	64.4
10-11 PM	766	0.0	OFF	766	0	0.00	0	65.0	65.0	65.0
11PM-MID	595	0.0	OFF	595	0	0.00	0	65.3	65.3	65.3

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0079
MAIN ROUTE WITH WORKS	0.0067
'DIVERSION'	0.0016

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$38,877
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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