

**USH 41: STH 76 TO USH 45 (WINNEBAGO COUNTY)
NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

OCTOBER
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	258	0.0	1500	258	0	0.45	0	65.9	56.9	44.5
1-2 AM	168	0.0	1500	168	0	0.44	0	66.1	57.1	44.8
2-3 AM	152	0.0	1500	152	0	0.44	0	66.1	57.2	44.9
3-4 AM	133	0.0	1500	133	0	0.44	0	66.1	57.3	45.0
4-5 AM	202	0.0	1500	202	0	0.44	0	66.0	57.1	44.6
5-6 AM	348	0.0	1500	348	0	0.46	0	65.8	56.6	44.1
6-7 AM	710	0.0	1500	710	0	0.49	0	65.1	55.5	42.7
7-8 AM	1226	0.0	1500	1226	0	0.67	0	64.1	52.0	37.6
8-9 AM	1363	0.0	OFF	1363	0	0.00	0	63.8	63.8	63.8
9-10 AM	1513	0.0	OFF	1513	0	0.00	0	63.6	63.6	63.6
10-11 AM	1632	0.0	OFF	1632	0	0.00	0	63.3	63.3	63.3
11AM-NOON	1644	0.0	OFF	1644	0	0.00	0	63.3	63.3	63.3
NOON-1PM	1663	0.0	OFF	1663	0	0.00	0	63.3	63.3	63.3
1-2 PM	1622	0.0	OFF	1622	0	0.00	0	63.3	63.3	63.3
2-3 PM	1669	0.0	OFF	1669	0	0.00	0	63.3	63.3	63.3
3-4 PM	1641	0.0	OFF	1641	0	0.00	0	63.3	63.3	63.3
4-5 PM	1648	0.0	OFF	1648	0	0.00	0	63.3	63.3	63.3
5-6 PM	1483	0.0	OFF	1483	0	0.00	0	63.7	63.7	63.7
6-7 PM	1304	0.0	1500	1304	0	0.77	0	64.0	50.5	35.4
7-8 PM	1073	0.0	1500	1073	0	0.53	0	64.4	54.5	41.4
8-9 PM	913	0.0	1500	913	0	0.51	0	64.7	54.9	42.0
9-10 PM	865	0.0	1500	865	0	0.51	0	64.8	55.1	42.2
10-11 PM	645	0.0	1500	645	0	0.48	0	65.2	55.7	43.0
11PM-MID	442	0.0	1500	442	0	0.47	0	65.6	56.3	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	0.0120
MAIN ROUTE WITH WORKS	0.0114
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,287
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

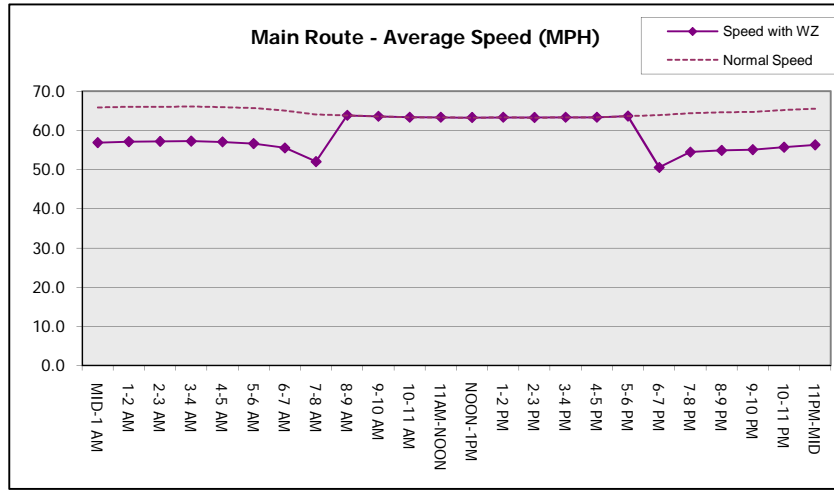
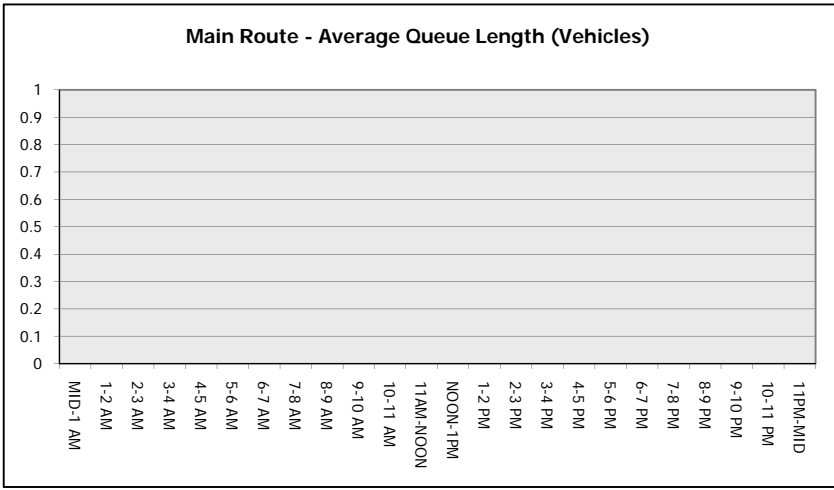
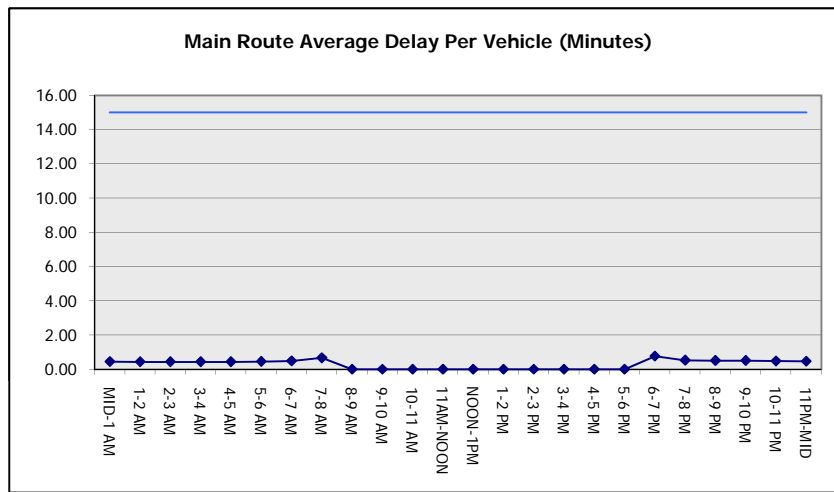
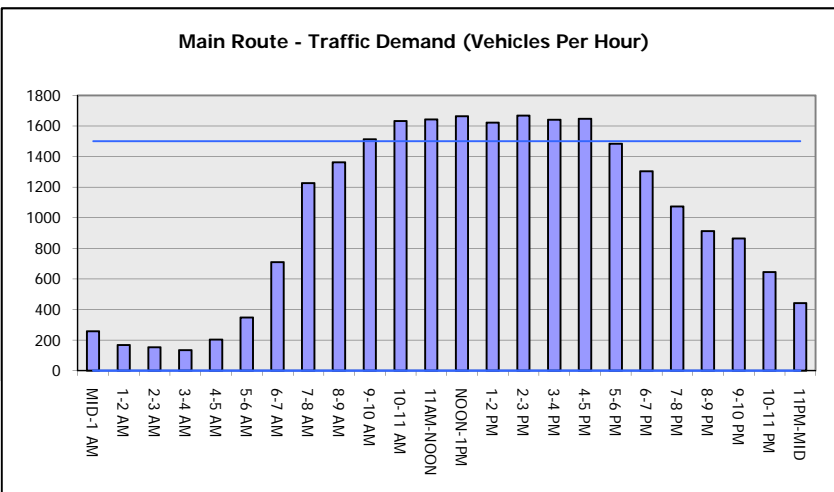
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

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	283	0.0	1500	283	0	0.45	0	65.9	56.8	44.3
1-2 AM	195	0.0	1500	195	0	0.44	0	66.0	57.1	44.7
2-3 AM	148	0.0	1500	148	0	0.44	0	66.1	57.2	44.9
3-4 AM	137	0.0	1500	137	0	0.44	0	66.1	57.3	45.0
4-5 AM	173	0.0	1500	173	0	0.44	0	66.1	57.1	44.8
5-6 AM	334	0.0	1500	334	0	0.45	0	65.8	56.6	44.2
6-7 AM	499	0.0	1500	499	0	0.47	0	65.5	56.1	43.5
7-8 AM	896	0.0	1500	896	0	0.51	0	64.7	55.0	42.0
8-9 AM	1249	0.0	OFF	1249	0	0.00	0	64.1	64.1	64.1
9-10 AM	1590	0.0	OFF	1590	0	0.00	0	63.4	63.4	63.4
10-11 AM	2023	0.0	OFF	2023	0	0.00	0	62.6	62.6	62.6
11AM-NOON	2201	0.0	OFF	2201	0	0.00	0	62.3	62.3	62.3
NOON-1PM	2245	0.0	OFF	2245	0	0.00	0	62.2	62.2	62.2
1-2 PM	2183	0.0	OFF	2183	0	0.00	0	62.3	62.3	62.3
2-3 PM	2135	0.0	OFF	2135	0	0.00	0	62.4	62.4	62.4
3-4 PM	2169	0.0	OFF	2169	0	0.00	0	62.3	62.3	62.3
4-5 PM	2194	0.0	OFF	2194	0	0.00	0	62.3	62.3	62.3
5-6 PM	2057	0.0	OFF	2057	0	0.00	0	62.5	62.5	62.5
6-7 PM	1734	0.0	1499	1734	0	5.66	139	63.2	21.6	30.8
7-8 PM	1345	0.0	1499	1345	0	7.27	176	63.9	18.3	31.4
8-9 PM	1116	0.0	1500	1116	0	0.83	9	64.3	50.0	40.0
9-10 PM	927	0.0	1500	927	0	0.51	0	64.6	54.9	41.9
10-11 PM	664	0.0	1500	664	0	0.49	0	65.1	55.6	42.9
11PM-MID	441	0.0	1500	441	0	0.47	0	65.6	56.3	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	0.0143
MAIN ROUTE WITH WORKS	0.0137
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$6,200
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

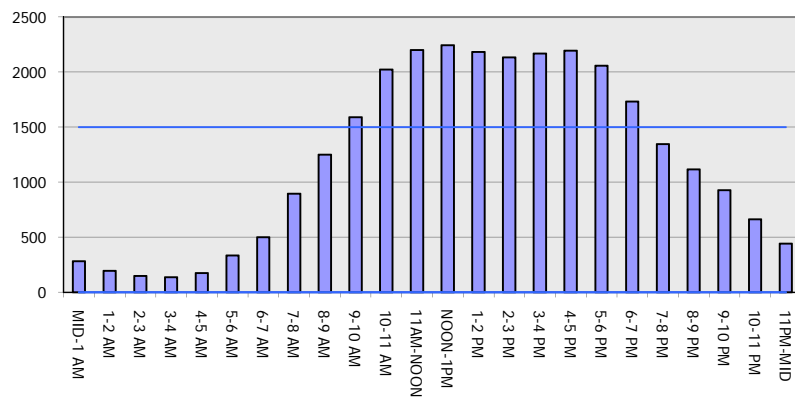
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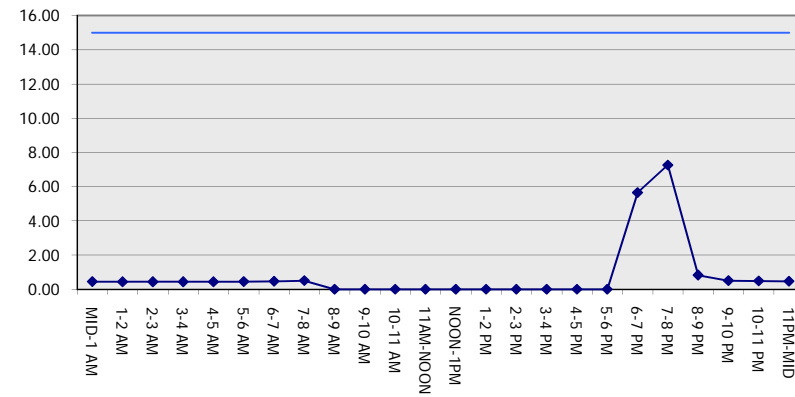
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY NORTHBOUND DIRECTION

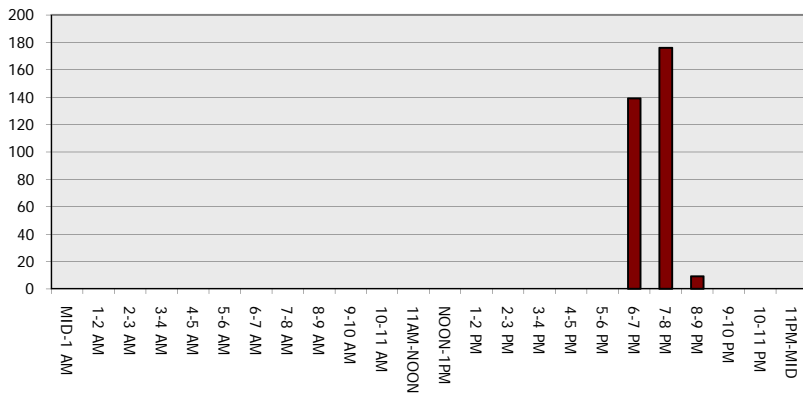
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

