

**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

SUNDAY 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	297	0.0	1500	297	0	0.45	0	65.8	56.8	44.3
1-2 AM	186	0.0	1500	186	0	0.44	0	66.0	57.1	44.7
2-3 AM	166	0.0	1500	166	0	0.44	0	66.1	57.2	44.8
3-4 AM	125	0.0	1500	125	0	0.43	0	66.1	57.3	45.0
4-5 AM	130	0.0	1500	130	0	0.44	0	66.1	57.3	45.0
5-6 AM	182	0.0	1500	182	0	0.44	0	66.1	57.1	44.8
6-7 AM	290	0.0	1500	290	0	0.45	0	65.8	56.8	44.3
7-8 AM	443	0.0	1500	443	0	0.47	0	65.6	56.3	43.7
8-9 AM	695	0.0	1500	695	0	0.49	0	65.1	55.6	42.8
9-10 AM	1070	0.0	OFF	1070	0	0.00	0	64.4	64.4	64.4
10-11 AM	1428	0.0	OFF	1428	0	0.00	0	63.7	63.7	63.7
11AM-NOON	1716	0.0	OFF	1716	0	0.00	0	63.2	63.2	63.2
NOON-1PM	1793	0.0	OFF	1793	0	0.00	0	63.0	63.0	63.0
1-2 PM	1854	0.0	OFF	1854	0	0.00	0	62.9	62.9	62.9
2-3 PM	2073	0.0	OFF	2073	0	0.00	0	62.5	62.5	62.5
3-4 PM	2193	0.0	OFF	2193	0	0.00	0	62.3	62.3	62.3
4-5 PM	2241	0.0	OFF	2241	0	0.00	0	62.2	62.2	62.2
5-6 PM	2019	0.0	OFF	2019	0	0.00	0	62.6	62.6	62.6
6-7 PM	1755	0.0	OFF	1755	0	0.00	0	63.1	63.1	63.1
7-8 PM	1192	0.0	1500	1192	0	0.63	0	64.1	52.8	38.7
8-9 PM	760	0.0	1500	760	0	0.50	0	65.0	55.4	42.5
9-10 PM	515	0.0	1500	515	0	0.47	0	65.5	56.1	43.5
10-11 PM	374	0.0	1500	374	0	0.46	0	65.7	56.5	44.0
11PM-MID	468	0.0	1500	468	0	0.47	0	65.5	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	0.0118
MAIN ROUTE WITH WORKS	0.0114
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$697
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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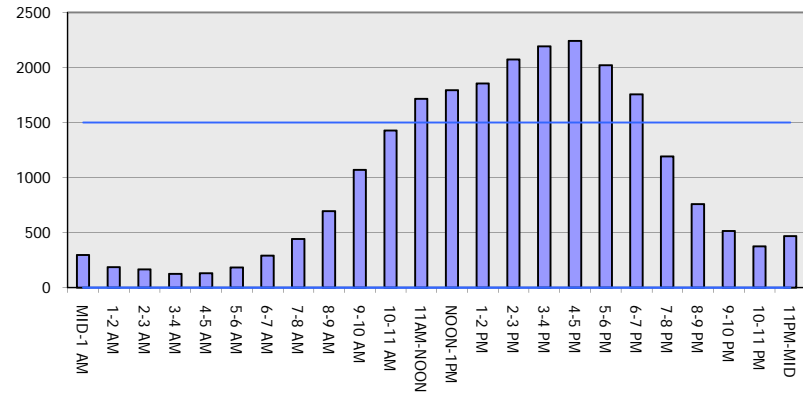
OCTOBER

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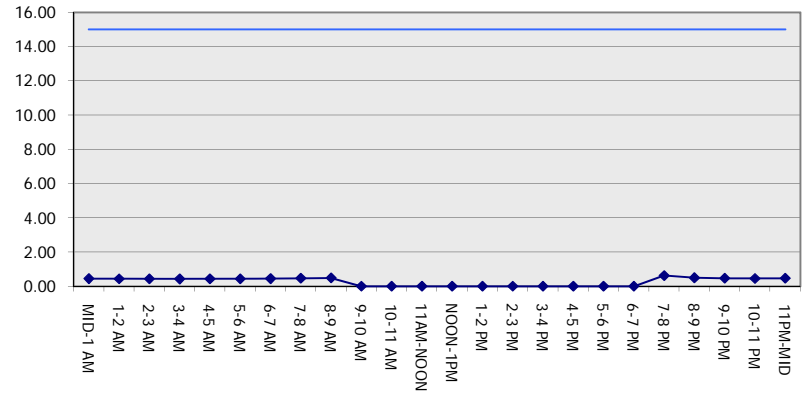
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY SOUTHBOUND DIRECTION

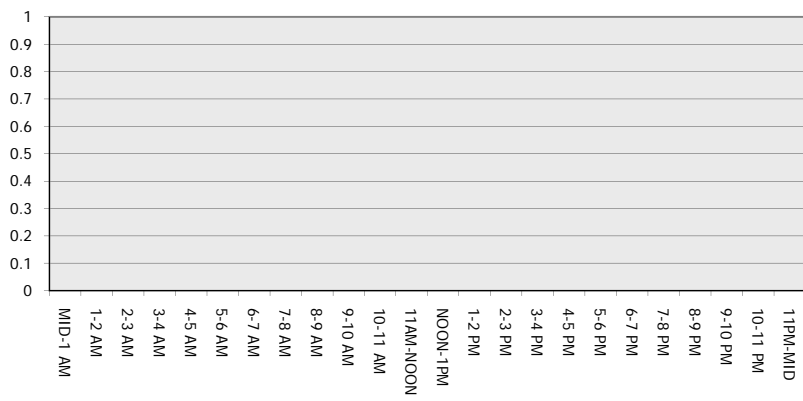
Main Route - Traffic Demand (Vehicles Per Hour)



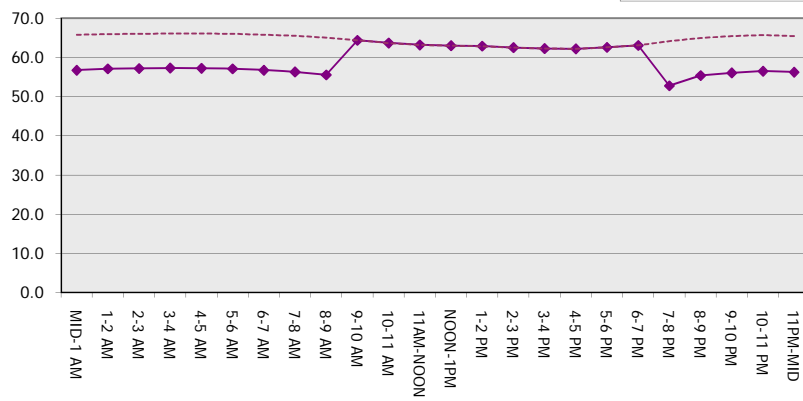
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	262	0.0	1500	262	0	0.45	0	65.9	56.9	44.4
1-2 AM	184	0.0	1500	184	0	0.44	0	66.0	57.1	44.8
2-3 AM	133	0.0	1500	133	0	0.44	0	66.1	57.3	45.0
3-4 AM	94	0.0	1500	94	0	0.43	0	66.2	57.4	45.1
4-5 AM	101	0.0	1500	101	0	0.43	0	66.2	57.4	45.1
5-6 AM	203	0.0	1500	203	0	0.44	0	66.0	57.1	44.6
6-7 AM	264	0.0	1500	264	0	0.45	0	65.9	56.9	44.4
7-8 AM	472	0.0	1500	472	0	0.47	0	65.5	56.2	43.6
8-9 AM	1060	0.0	1499	1060	0	0.57	0	64.4	53.8	40.3
9-10 AM	1521	0.0	OFF	1521	0	0.00	0	63.5	63.5	63.5
10-11 AM	1600	0.0	OFF	1600	0	0.00	0	63.4	63.4	63.4
11AM-NOON	1827	0.0	OFF	1827	0	0.00	0	63.0	63.0	63.0
NOON-1PM	2067	0.0	OFF	2067	0	0.00	0	62.5	62.5	62.5
1-2 PM	2029	0.0	OFF	2029	0	0.00	0	62.6	62.6	62.6
2-3 PM	2158	0.0	OFF	2158	0	0.00	0	62.3	62.3	62.3
3-4 PM	2263	0.0	OFF	2263	0	0.00	0	62.2	62.2	62.2
4-5 PM	2111	0.0	OFF	2111	0	0.00	0	62.5	62.5	62.5
5-6 PM	1851	0.0	OFF	1851	0	0.00	0	62.9	62.9	62.9
6-7 PM	1571	0.0	OFF	1571	0	0.00	0	63.5	63.5	63.5
7-8 PM	1283	0.0	1500	1283	0	0.74	0	64.0	51.0	36.0
8-9 PM	848	0.0	1500	848	0	0.50	0	64.8	55.1	42.2
9-10 PM	623	0.0	1500	623	0	0.48	0	65.2	55.8	43.0
10-11 PM	426	0.0	1500	426	0	0.46	0	65.6	56.4	43.8
11PM-MID	256	0.0	1500	256	0	0.45	0	65.9	56.9	44.5

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

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(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	0
(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	0.0124
MAIN ROUTE WITH WORKS	0.0120
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$801
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
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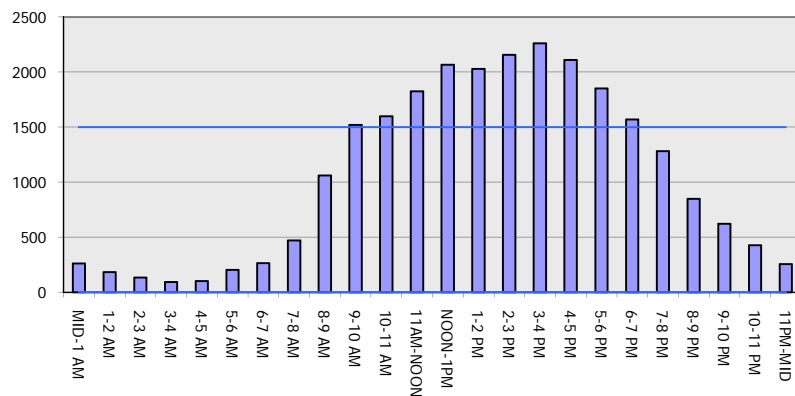
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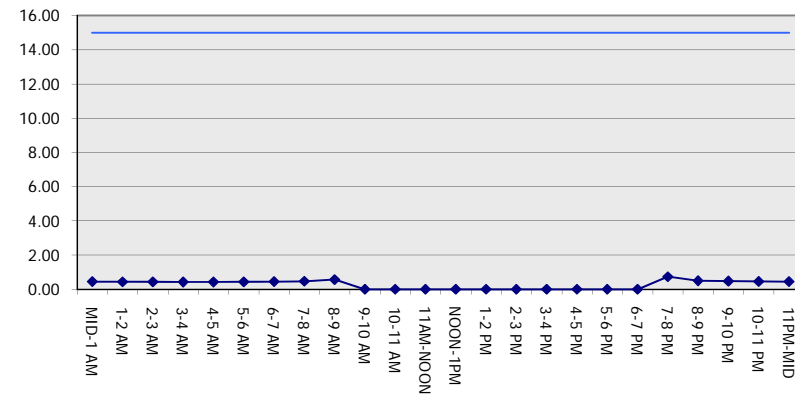
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SUNDAY NORTHBOUND DIRECTION

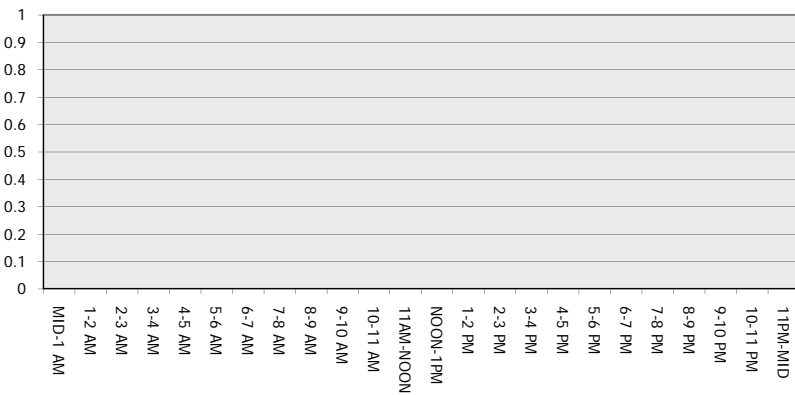
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

