

USH 41: STH 76 TO USH 45 (WINNEBAGO COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	742	0.0	2000	742	0	0.49	0	65.0	55.4	42.6
1-2 AM	225	0.0	2000	225	0	0.44	0	66.0	57.0	44.6
2-3 AM	166	0.0	2000	166	0	0.44	0	66.1	57.2	44.8
3-4 AM	131	0.0	2000	131	0	0.44	0	66.1	57.3	45.0
4-5 AM	125	0.0	2000	125	0	0.43	0	66.1	57.3	45.0
5-6 AM	177	0.0	2000	177	0	0.44	0	66.1	57.1	44.8
6-7 AM	303	0.0	2000	303	0	0.45	0	65.8	56.8	44.3
7-8 AM	548	0.0	2000	548	0	0.48	0	65.4	56.0	43.3
8-9 AM	968	0.0	2000	968	0	0.52	0	64.6	54.8	41.8
9-10 AM	1465	0.0	OFF	1465	0	0.00	0	63.7	63.7	63.7
10-11 AM	1971	0.0	OFF	1971	0	0.00	0	62.7	62.7	62.7
11AM-NOON	2318	0.0	OFF	2318	0	0.00	0	62.0	62.0	62.0
NOON-1PM	2299	0.0	OFF	2299	0	0.00	0	62.1	62.1	62.1
1-2 PM	2285	0.0	OFF	2285	0	0.00	0	62.1	62.1	62.1
2-3 PM	2277	0.0	OFF	2277	0	0.00	0	62.2	62.2	62.2
3-4 PM	2276	0.0	OFF	2276	0	0.00	0	62.2	62.2	62.2
4-5 PM	2182	0.0	OFF	2182	0	0.00	0	62.3	62.3	62.3
5-6 PM	1955	0.0	OFF	1955	0	0.00	0	62.7	62.7	62.7
6-7 PM	1614	0.0	OFF	1614	0	0.00	0	63.4	63.4	63.4
7-8 PM	1275	0.0	2000	1275	0	0.73	0	64.0	51.1	36.2
8-9 PM	948	0.0	2000	948	0	0.51	0	64.6	54.8	41.9
9-10 PM	644	0.0	2000	644	0	0.48	0	65.2	55.7	43.0
10-11 PM	409	0.0	2000	409	0	0.46	0	65.6	56.4	43.8
11PM-MID	236	0.0	2000	236	0	0.45	0	66.0	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 (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

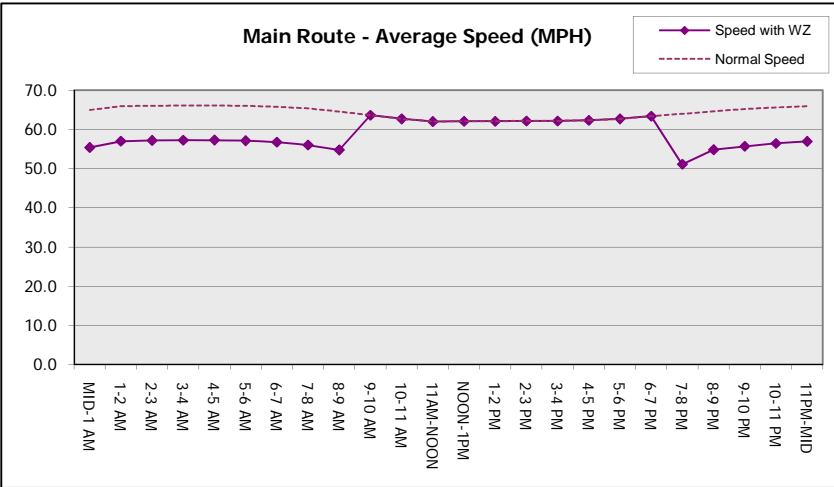
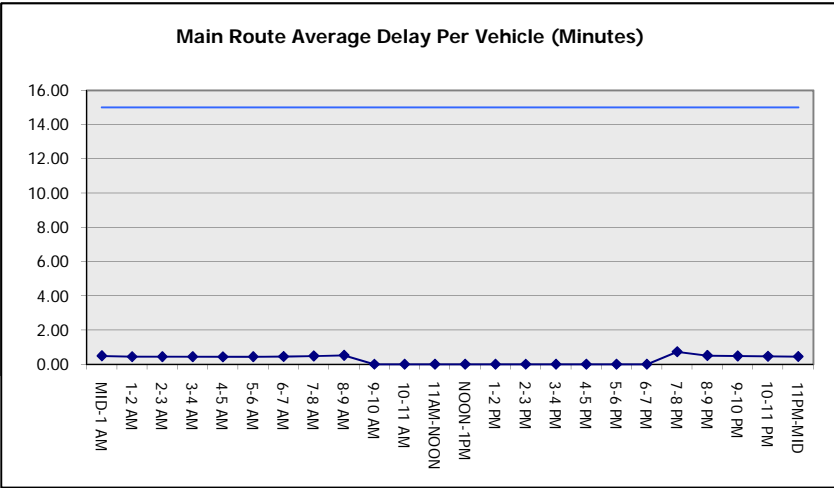
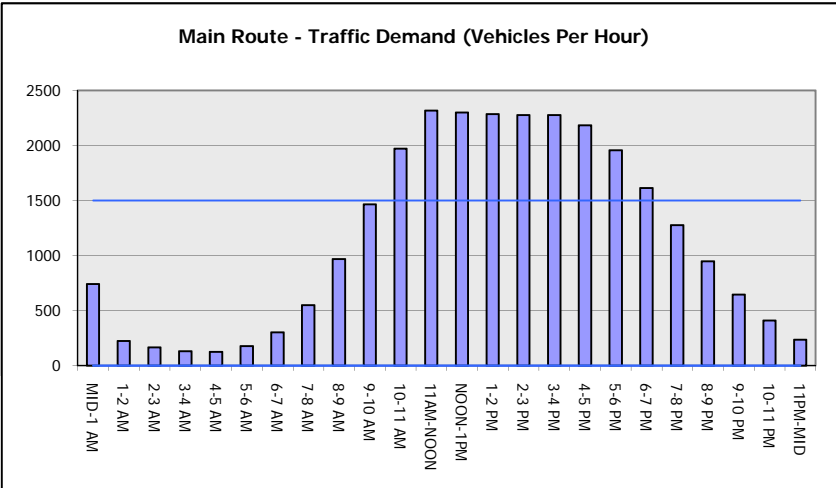
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0136
MAIN ROUTE WITH WORKS	0.0131
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$884
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
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AUGUST
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Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



USH 41: STH 76 TO USH 45 (WINNEBAGO COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
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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	291	0.0	2000	291	0	0.45	0	65.8	56.8	44.3
1-2 AM	196	0.0	2000	196	0	0.44	0	66.0	57.1	44.7
2-3 AM	131	0.0	2000	131	0	0.44	0	66.1	57.3	45.0
3-4 AM	84	0.0	2000	84	0	0.43	0	66.2	57.4	45.1
4-5 AM	82	0.0	2000	82	0	0.43	0	66.3	57.4	45.1
5-6 AM	206	0.0	2000	206	0	0.44	0	66.0	57.1	44.6
6-7 AM	234	0.0	2000	234	0	0.45	0	66.0	56.9	44.5
7-8 AM	340	0.0	2000	340	0	0.46	0	65.8	56.6	44.2
8-9 AM	584	0.0	2000	584	0	0.48	0	65.3	55.9	43.2
9-10 AM	940	0.0	OFF	940	0	0.00	0	64.6	64.6	64.6
10-11 AM	1483	0.0	OFF	1483	0	0.00	0	63.7	63.7	63.7
11AM-NOON	1877	0.0	OFF	1877	0	0.00	0	62.9	62.9	62.9
NOON-1PM	2073	0.0	OFF	2073	0	0.00	0	62.5	62.5	62.5
1-2 PM	2157	0.0	OFF	2157	0	0.00	0	62.3	62.3	62.3
2-3 PM	2104	0.0	OFF	2104	0	0.00	0	62.5	62.5	62.5
3-4 PM	2103	0.0	OFF	2103	0	0.00	0	62.5	62.5	62.5
4-5 PM	2133	0.0	OFF	2133	0	0.00	0	62.4	62.4	62.4
5-6 PM	2025	0.0	OFF	2025	0	0.00	0	62.6	62.6	62.6
6-7 PM	1730	0.0	OFF	1730	0	0.00	0	63.2	63.2	63.2
7-8 PM	1422	0.0	2000	1422	0	0.92	0	63.7	48.4	32.5
8-9 PM	1201	0.0	2000	1201	0	0.64	0	64.1	52.6	38.4
9-10 PM	921	0.0	2000	921	0	0.51	0	64.6	54.9	42.0
10-11 PM	593	0.0	2000	593	0	0.48	0	65.3	55.9	43.2
11PM-MID	361	0.0	2000	361	0	0.46	0	65.7	56.6	44.0

"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	0.0125
MAIN ROUTE WITH WORKS	0.0120
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$965
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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

AUGUST

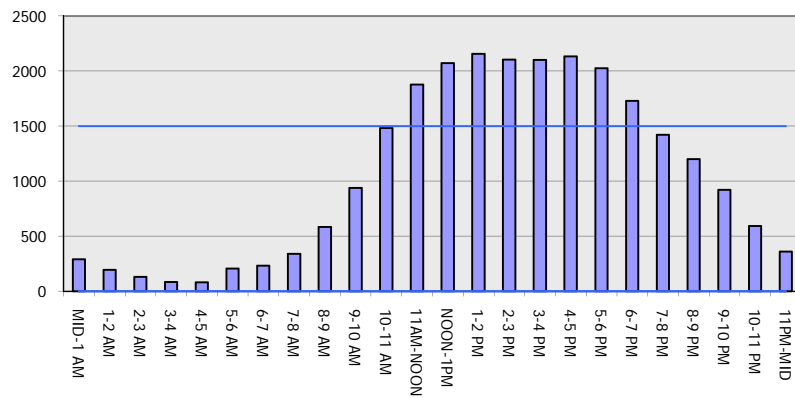
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

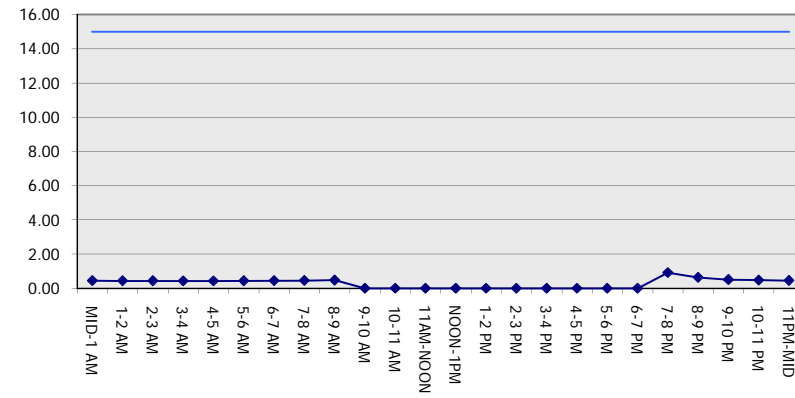
SUNDAY

NORTHBOUND DIRECTION

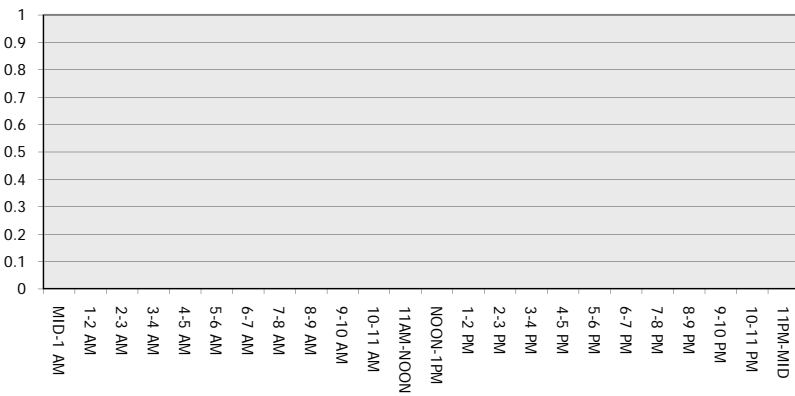
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

