

USH 41: STH 44 TO STH 26 (WINNEBAGO COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	201	0.0	OFF	201	0	0.00	0	66.0	66.0	66.0	
1-2 AM	155	0.0	OFF	155	0	0.00	0	66.1	66.1	66.1	
2-3 AM	115	0.0	OFF	115	0	0.00	0	66.2	66.2	66.2	
3-4 AM	178	0.0	OFF	178	0	0.00	0	66.1	66.1	66.1	
4-5 AM	352	0.0	OFF	352	0	0.00	0	65.7	65.7	65.7	
5-6 AM	840	0.0	OFF	840	0	0.00	0	64.8	64.8	64.8	
6-7 AM	1495	0.0	OFF	1495	0	0.00	0	63.6	63.6	63.6	
7-8 AM	2081	0.0	OFF	2081	0	0.00	0	62.5	62.5	62.5	
8-9 AM	1582	0.0	OFF	1582	0	0.00	0	63.5	63.5	63.5	
9-10 AM	1333	0.0	1500	1333	0	0.81	0	63.9	48.4	34.6	
10-11 AM	1321	0.0	1500	1321	0	0.79	0	63.9	48.7	35.0	
11AM-NOON	1383	0.0	1500	1383	0	0.87	0	63.8	47.5	33.4	
NOON-1PM	1432	0.0	1499	1432	0	0.94	0	63.7	46.6	32.2	
1-2 PM	1512	0.0	1499	1512	0	1.22	6	63.6	43.0	31.1	
2-3 PM	1737	0.0	1500	1737	0	5.18	129	63.2	20.9	30.8	
3-4 PM	1970	0.0	1500	1695	275	15.34+	390	62.7	10.1	30.8	
4-5 PM	2142	0.0	OFF	2142	0	0.95	56	62.4	45.6	45.6	
5-6 PM	1846	0.0	OFF	1846	0	0.00	0	63.0	63.0	63.0	
6-7 PM	1167	0.0	OFF	1167	0	0.00	0	64.2	64.2	64.2	
7-8 PM	808	0.0	OFF	808	0	0.00	0	64.9	64.9	64.9	
8-9 PM	699	0.0	OFF	699	0	0.00	0	65.1	65.1	65.1	
9-10 PM	550	0.0	OFF	550	0	0.00	0	65.4	65.4	65.4	
10-11 PM	411	0.0	OFF	411	0	0.00	0	65.6	65.6	65.6	
11PM-MID	255	0.0	OFF	255	0	0.00	0	65.9	65.9	65.9	

"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	0.0110
MAIN ROUTE WITH WORKS	0.0102
'DIVERSION'	0.0003
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$8,989
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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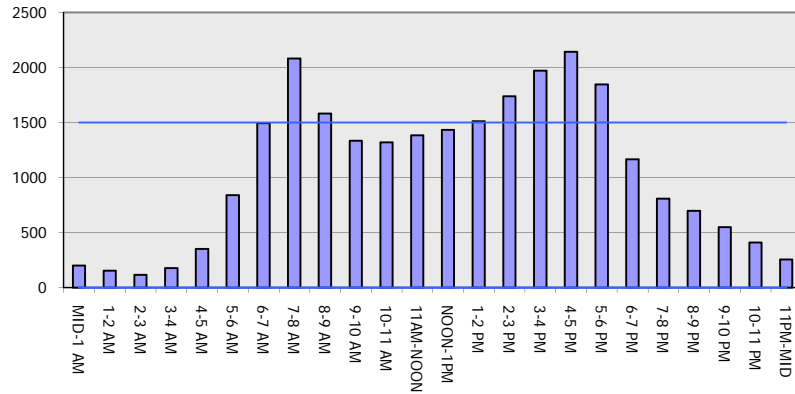
OCTOBER

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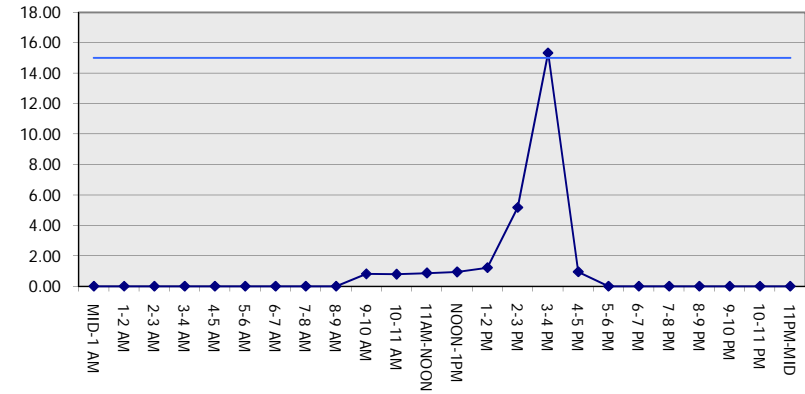
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION

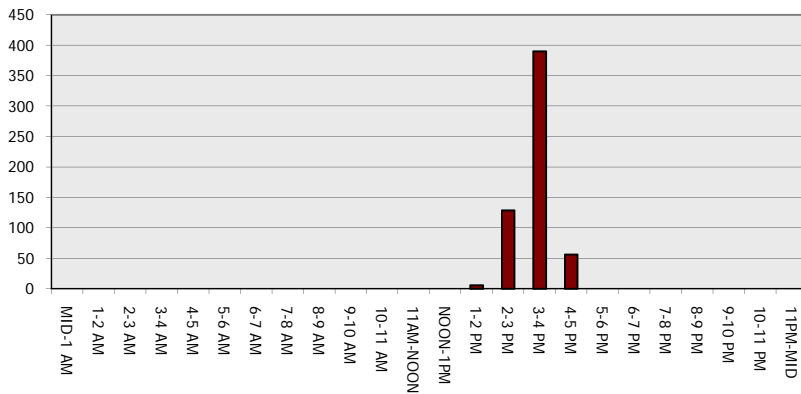
Main Route - Traffic Demand (Vehicles Per Hour)



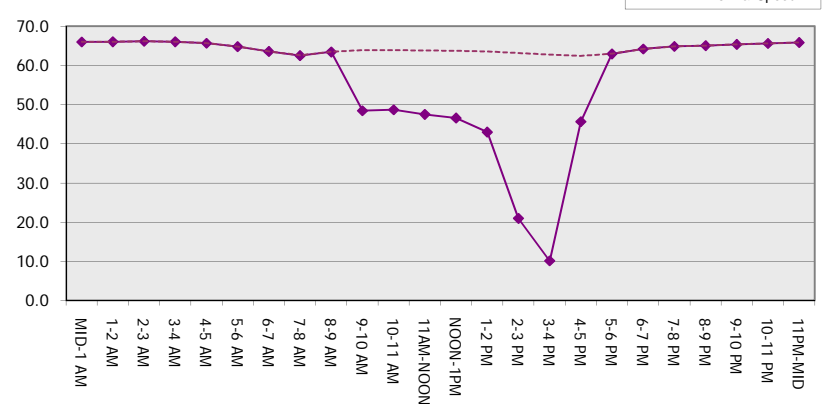
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	143	0.0	OFF	143	0	0.00	0	66.1	66.1	66.1
1-2 AM	108	0.0	OFF	108	0	0.00	0	66.2	66.2	66.2
2-3 AM	105	0.0	OFF	105	0	0.00	0	66.2	66.2	66.2
3-4 AM	138	0.0	OFF	138	0	0.00	0	66.1	66.1	66.1
4-5 AM	244	0.0	OFF	244	0	0.00	0	66.0	66.0	66.0
5-6 AM	684	0.0	OFF	684	0	0.00	0	65.1	65.1	65.1
6-7 AM	1272	0.0	OFF	1272	0	0.00	0	64.0	64.0	64.0
7-8 AM	1811	0.0	OFF	1811	0	0.00	0	63.0	63.0	63.0
8-9 AM	1290	0.0	OFF	1290	0	0.00	0	64.0	64.0	64.0
9-10 AM	1219	0.0	1500	1219	0	0.66	0	64.1	50.8	37.9
10-11 AM	1222	0.0	1500	1222	0	0.67	0	64.1	50.7	37.8
11AM-NOON	1253	0.0	1500	1253	0	0.70	0	64.0	50.1	36.8
NOON-1PM	1297	0.0	1500	1297	0	0.76	0	64.0	49.2	35.6
1-2 PM	1354	0.0	1499	1354	0	0.83	0	63.8	48.1	34.1
2-3 PM	1536	0.0	1499	1536	0	1.36	10	63.5	41.4	30.9
3-4 PM	1727	0.0	1500	1727	0	5.69	141	63.2	19.6	30.8
4-5 PM	1979	0.0	OFF	1979	0	0.29	17	62.7	56.4	56.4
5-6 PM	1833	0.0	OFF	1833	0	0.00	0	63.0	63.0	63.0
6-7 PM	1212	0.0	OFF	1212	0	0.00	0	64.1	64.1	64.1
7-8 PM	802	0.0	OFF	802	0	0.00	0	64.9	64.9	64.9
8-9 PM	653	0.0	OFF	653	0	0.00	0	65.1	65.1	65.1
9-10 PM	512	0.0	OFF	512	0	0.00	0	65.5	65.5	65.5
10-11 PM	375	0.0	OFF	375	0	0.00	0	65.7	65.7	65.7
11PM-MID	258	0.0	OFF	258	0	0.00	0	65.9	65.9	65.9

"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	0.0099
MAIN ROUTE WITH WORKS	0.0093
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$3,218
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR NORTHBOUND DIRECTION**

