

**USH 41: STH 76 TO USH 45 (WINNEBAGO COUNTY)
OFF-PEAK DAY 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	OFF	297	0	0.00	0	65.8	65.8	65.8	
1-2 AM	186	0.0	OFF	186	0	0.00	0	66.0	66.0	66.0	
2-3 AM	166	0.0	OFF	166	0	0.00	0	66.1	66.1	66.1	
3-4 AM	125	0.0	OFF	125	0	0.00	0	66.1	66.1	66.1	
4-5 AM	130	0.0	OFF	130	0	0.00	0	66.1	66.1	66.1	
5-6 AM	182	0.0	OFF	182	0	0.00	0	66.1	66.1	66.1	
6-7 AM	290	0.0	OFF	290	0	0.00	0	65.8	65.8	65.8	
7-8 AM	443	0.0	OFF	443	0	0.00	0	65.6	65.6	65.6	
8-9 AM	695	0.0	OFF	695	0	0.00	0	65.1	65.1	65.1	
9-10 AM	1070	0.0	1499	1070	0	0.55	0	64.4	54.1	40.7	
10-11 AM	1428	0.0	1499	1428	0	0.96	1	63.7	47.9	32.5	
11AM-NOON	1716	0.0	1500	1716	0	4.20	100	63.2	26.0	30.8	
NOON-1PM	1793	0.0	1500	1663	130	13.53+	345	63.0	11.6	30.8	
1-2 PM	1854	0.0	1499	1501	353	16.10+	407	62.9	10.4	30.8	
2-3 PM	2073	0.0	1500	1501	572	16.09+	407	62.5	10.4	30.8	
3-4 PM	2193	0.0	1500	1501	691	16.08+	407	62.3	10.4	30.8	
4-5 PM	2241	0.0	1500	1501	740	16.08+	407	62.2	10.4	30.8	
5-6 PM	2019	0.0	1500	1501	518	16.09+	407	62.6	10.4	30.8	
6-7 PM	1755	0.0	1500	1501	254	16.11+	407	63.1	10.4	30.8	
7-8 PM	1192	0.0	OFF	1192	0	0.44	27	64.1	55.7	55.7	
8-9 PM	760	0.0	OFF	760	0	0.00	0	65.0	65.0	65.0	
9-10 PM	515	0.0	OFF	515	0	0.00	0	65.5	65.5	65.5	
10-11 PM	374	0.0	OFF	374	0	0.00	0	65.7	65.7	65.7	
11PM-MID	468	0.0	OFF	468	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	0.0118
MAIN ROUTE WITH WORKS	0.0092
'DIVERSION'	0.0037
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$63,147
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

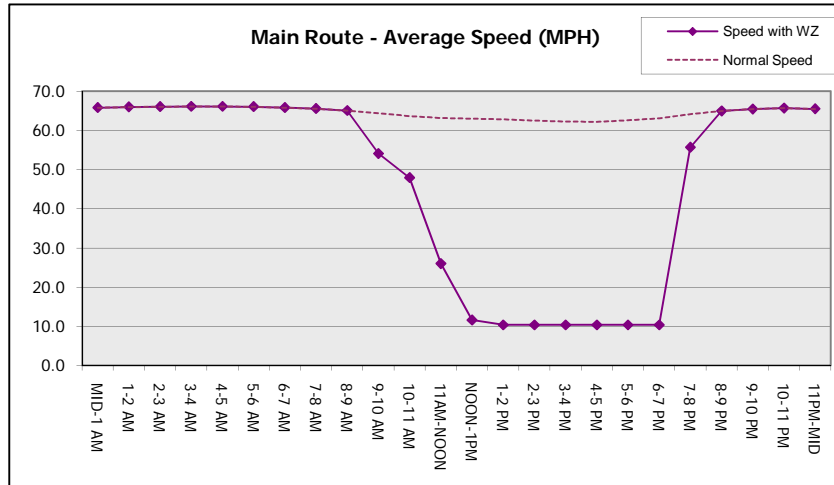
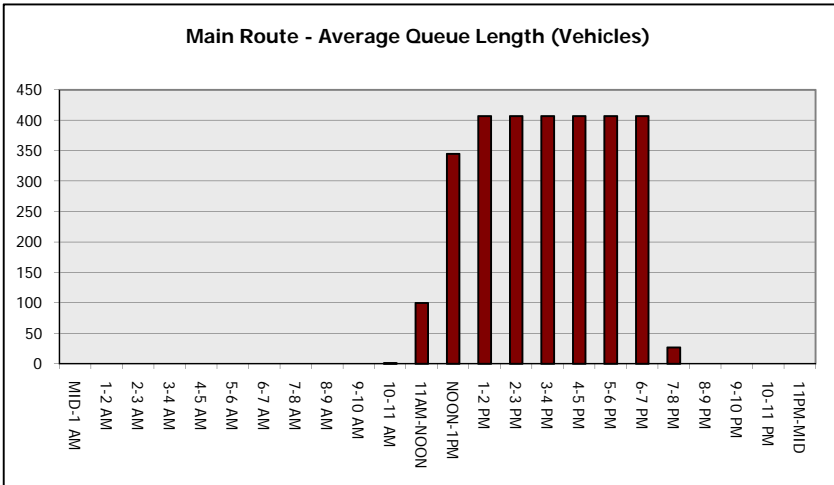
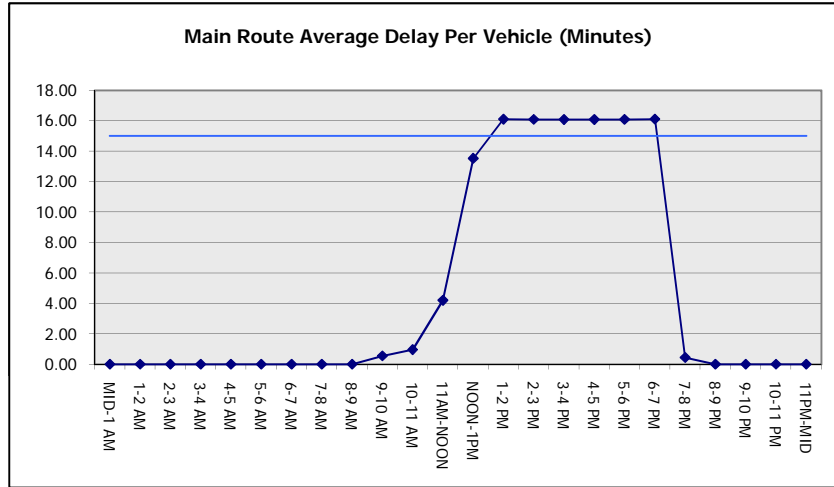
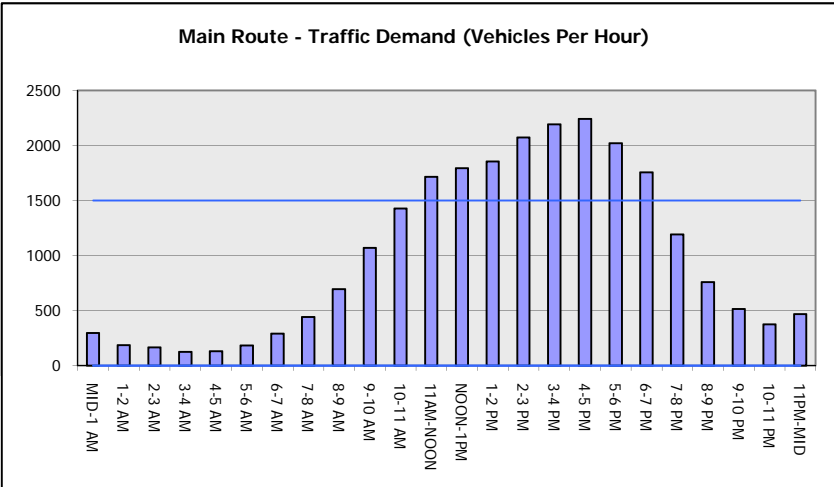
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY SOUTHBOUND DIRECTION



USH 41: STH 76 TO USH 45 (WINNEBAGO COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
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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	OFF	262	0	0.00	0	65.9	65.9	65.9
1-2 AM	184	0.0	OFF	184	0	0.00	0	66.0	66.0	66.0
2-3 AM	133	0.0	OFF	133	0	0.00	0	66.1	66.1	66.1
3-4 AM	94	0.0	OFF	94	0	0.00	0	66.2	66.2	66.2
4-5 AM	101	0.0	OFF	101	0	0.00	0	66.2	66.2	66.2
5-6 AM	203	0.0	OFF	203	0	0.00	0	66.0	66.0	66.0
6-7 AM	264	0.0	OFF	264	0	0.00	0	65.9	65.9	65.9
7-8 AM	472	0.0	OFF	472	0	0.00	0	65.5	65.5	65.5
8-9 AM	1060	0.0	OFF	1060	0	0.00	0	64.4	64.4	64.4
9-10 AM	1521	0.0	1499	1521	0	1.36	11	63.5	43.4	31.2
10-11 AM	1600	0.0	1499	1600	0	4.02	84	63.4	26.7	30.8
11AM-NOON	1827	0.0	1500	1821	6	11.15+	291	63.0	13.4	30.8
NOON-1PM	2067	0.0	1500	1488	579	16.06+	406	62.5	10.4	30.8
1-2 PM	2029	0.0	1499	1498	531	16.09+	407	62.6	10.4	30.8
2-3 PM	2158	0.0	1499	1498	660	16.08+	407	62.3	10.4	30.8
3-4 PM	2263	0.0	1499	1498	765	16.08+	407	62.2	10.4	30.8
4-5 PM	2111	0.0	1499	1498	613	16.09+	407	62.5	10.4	30.8
5-6 PM	1851	0.0	1499	1485	366	16.05+	406	62.9	10.4	30.8
6-7 PM	1571	0.0	1499	1469	102	16.00+	404	63.5	10.4	30.8
7-8 PM	1283	0.0	OFF	1283	0	0.47	29	64.0	55.0	55.0
8-9 PM	848	0.0	OFF	848	0	0.00	0	64.8	64.8	64.8
9-10 PM	623	0.0	OFF	623	0	0.00	0	65.2	65.2	65.2
10-11 PM	426	0.0	OFF	426	0	0.00	0	65.6	65.6	65.6
11PM-MID	256	0.0	OFF	256	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	0.0124
MAIN ROUTE WITH WORKS	0.0096
'DIVERSION'	0.0041

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$70,311
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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SUNDAY NORTHBOUND DIRECTION

