

USH 41: 9TH AVE TO STH 44 (WINNEBAGO COUNTY) OFF-PEAK DAY 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	661	0.0	OFF	661	0	0.00	0	65.1	65.1	65.1	
1-2 AM	213	0.0	OFF	213	0	0.00	0	66.0	66.0	66.0	
2-3 AM	153	0.0	OFF	153	0	0.00	0	66.1	66.1	66.1	
3-4 AM	132	0.0	OFF	132	0	0.00	0	66.1	66.1	66.1	
4-5 AM	133	0.0	OFF	133	0	0.00	0	66.1	66.1	66.1	
5-6 AM	195	0.0	OFF	195	0	0.00	0	66.0	66.0	66.0	
6-7 AM	331	0.0	OFF	331	0	0.00	0	65.8	65.8	65.8	
7-8 AM	593	0.0	OFF	593	0	0.00	0	65.3	65.3	65.3	
8-9 AM	1084	0.0	OFF	1084	0	0.00	0	64.3	64.3	64.3	
9-10 AM	1634	0.0	1499	1634	0	1.85	36	63.3	26.6	31.1	
10-11 AM	2380	0.0	1500	1841	539	15.13+	391	62.0	8.3	30.8	
11AM-NOON	2733	0.0	1499	1464	1270	17.53+	451	58.5	7.8	30.8	
NOON-1PM	2720	0.0	1499	1495	1224	17.42+	447	58.6	7.8	30.8	
1-2 PM	2788	0.0	1499	1503	1285	17.48+	450	57.9	7.8	30.8	
2-3 PM	2826	0.0	1500	1501	1324	17.53+	452	57.6	7.8	30.8	
3-4 PM	2808	0.0	1500	1499	1309	17.52+	451	57.8	7.8	30.8	
4-5 PM	2760	0.0	1499	1497	1263	17.46+	449	58.2	7.8	30.8	
5-6 PM	2499	0.0	1500	1498	1001	17.33+	442	60.9	7.8	30.8	
6-7 PM	2043	0.0	1500	1499	545	17.33+	440	62.6	7.8	30.8	
7-8 PM	1608	0.0	OFF	1608	0	0.64	41	63.4	42.7	42.7	
8-9 PM	1203	0.0	OFF	1203	0	0.00	0	64.1	64.1	64.1	
9-10 PM	761	0.0	OFF	761	0	0.00	0	65.0	65.0	65.0	
10-11 PM	516	0.0	OFF	516	0	0.00	0	65.5	65.5	65.5	
11PM-MID	265	0.0	OFF	265	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

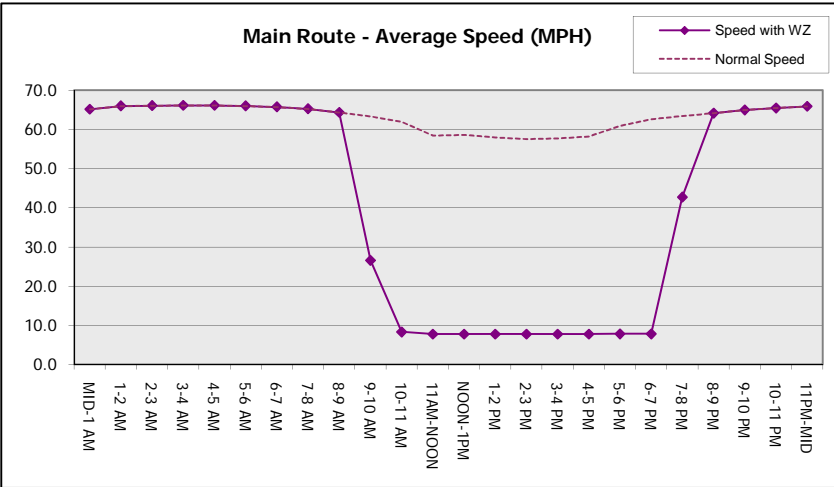
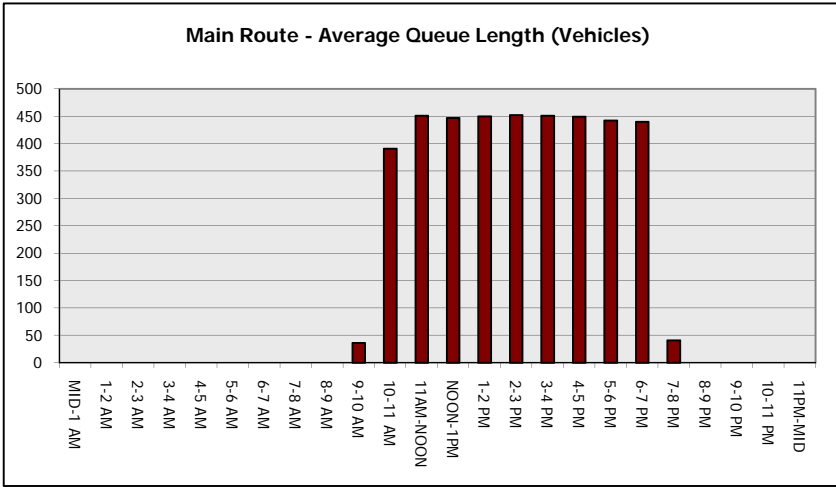
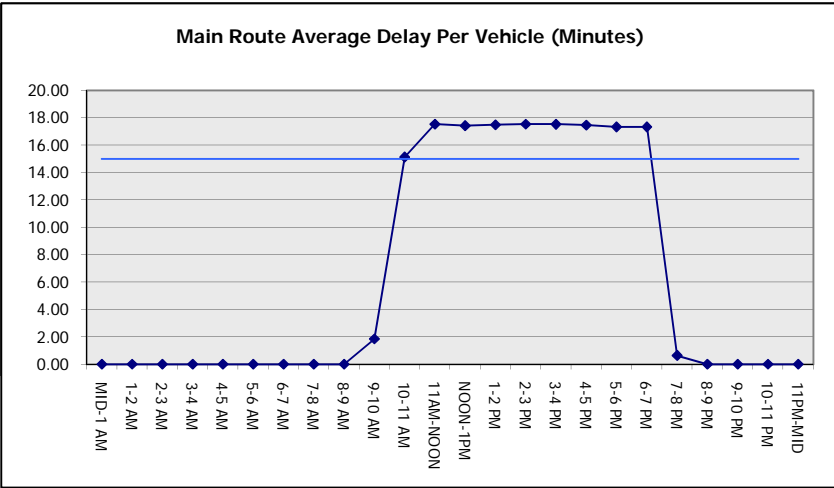
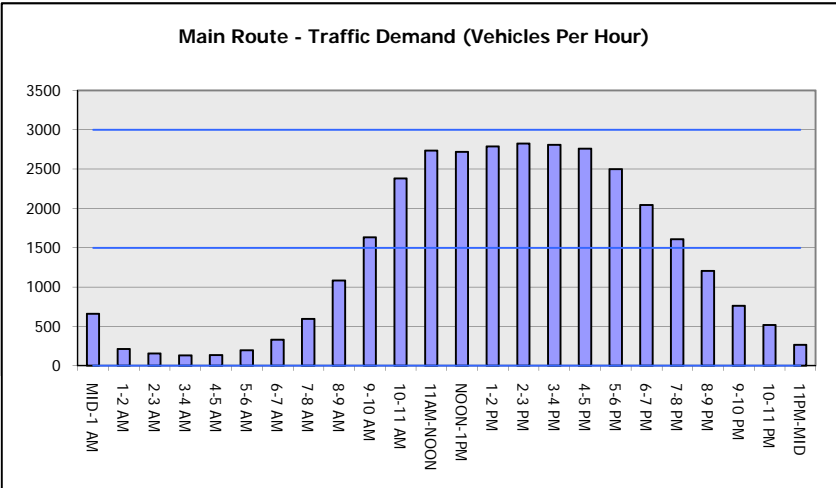
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0074
MAIN ROUTE WITH WORKS	0.0042
'DIVERSION'	0.0050
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$113,278
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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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	250	0.0	OFF	250	0	0.00	0	65.9	65.9	65.9
1-2 AM	163	0.0	OFF	163	0	0.00	0	66.1	66.1	66.1
2-3 AM	119	0.0	OFF	119	0	0.00	0	66.1	66.1	66.1
3-4 AM	76	0.0	OFF	76	0	0.00	0	66.3	66.3	66.3
4-5 AM	89	0.0	OFF	89	0	0.00	0	66.2	66.2	66.2
5-6 AM	247	0.0	OFF	247	0	0.00	0	66.0	66.0	66.0
6-7 AM	255	0.0	OFF	255	0	0.00	0	65.9	65.9	65.9
7-8 AM	346	0.0	OFF	346	0	0.00	0	65.8	65.8	65.8
8-9 AM	574	0.0	OFF	574	0	0.00	0	65.3	65.3	65.3
9-10 AM	959	0.0	1500	959	0	0.52	0	64.6	46.3	41.8
10-11 AM	1337	0.0	1499	1337	0	0.81	0	63.9	39.6	34.7
11AM-NOON	1662	0.0	1499	1662	0	3.06	67	63.3	19.8	30.8
NOON-1PM	1791	0.0	1500	1791	0	11.84+	302	63.0	9.3	30.8
1-2 PM	1859	0.0	1499	1497	362	17.31+	440	62.9	7.8	30.8
2-3 PM	1825	0.0	1499	1498	328	17.31+	439	63.0	7.8	30.8
3-4 PM	1820	0.0	1499	1498	322	17.31+	439	63.0	7.8	30.8
4-5 PM	1824	0.0	1499	1499	326	17.31+	439	63.0	7.8	30.8
5-6 PM	1744	0.0	1499	1499	245	17.30+	439	63.2	7.8	30.8
6-7 PM	1472	0.0	1499	1452	20	16.91+	428	63.7	7.9	30.8
7-8 PM	1218	0.0	OFF	1218	0	0.44	28	64.1	48.1	48.1
8-9 PM	1017	0.0	OFF	1017	0	0.00	0	64.5	64.5	64.5
9-10 PM	758	0.0	OFF	758	0	0.00	0	65.0	65.0	65.0
10-11 PM	517	0.0	OFF	517	0	0.00	0	65.4	65.4	65.4
11PM-MID	321	0.0	OFF	321	0	0.00	0	65.8	65.8	65.8

"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	0.0049
MAIN ROUTE WITH WORKS	0.0036
'DIVERSION'	0.0008

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$58,148
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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