

USH 41: 9TH AVE TO STH 44 (WINNEBAGO COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	166	0.0	1500	166	0	0.44	0	66.1	49.1	44.8
1-2 AM	142	0.0	1500	142	0	0.44	0	66.1	49.2	44.9
2-3 AM	140	0.0	1500	140	0	0.44	0	66.1	49.2	44.9
3-4 AM	178	0.0	1500	178	0	0.44	0	66.1	49.1	44.8
4-5 AM	359	0.0	1500	359	0	0.46	0	65.7	48.4	44.0
5-6 AM	845	0.0	OFF	845	0	0.00	0	64.8	64.8	64.8
6-7 AM	1570	0.0	OFF	1570	0	0.00	0	63.5	63.5	63.5
7-8 AM	2218	0.0	OFF	2218	0	0.00	0	62.2	62.2	62.2
8-9 AM	1769	0.0	OFF	1769	0	0.00	0	63.1	63.1	63.1
9-10 AM	1544	0.0	OFF	1544	0	0.00	0	63.5	63.5	63.5
10-11 AM	1532	0.0	OFF	1532	0	0.00	0	63.5	63.5	63.5
11AM-NOON	1588	0.0	OFF	1588	0	0.00	0	63.4	63.4	63.4
NOON-1PM	1660	0.0	OFF	1660	0	0.00	0	63.3	63.3	63.3
1-2 PM	1748	0.0	OFF	1748	0	0.00	0	63.2	63.2	63.2
2-3 PM	1936	0.0	OFF	1936	0	0.00	0	62.8	62.8	62.8
3-4 PM	2297	0.0	OFF	2297	0	0.00	0	62.1	62.1	62.1
4-5 PM	2499	0.0	OFF	2499	0	0.00	0	60.9	60.9	60.9
5-6 PM	2213	0.0	OFF	2213	0	0.00	0	62.3	62.3	62.3
6-7 PM	1457	0.0	OFF	1457	0	0.00	0	63.7	63.7	63.7
7-8 PM	1072	0.0	1500	1072	0	0.53	0	64.4	45.9	41.4
8-9 PM	943	0.0	1500	943	0	0.51	0	64.6	46.3	41.9
9-10 PM	698	0.0	1500	698	0	0.49	0	65.1	47.1	42.8
10-11 PM	539	0.0	1500	539	0	0.47	0	65.4	47.7	43.3
11PM-MID	313	0.0	1500	313	0	0.45	0	65.8	48.6	44.2

"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

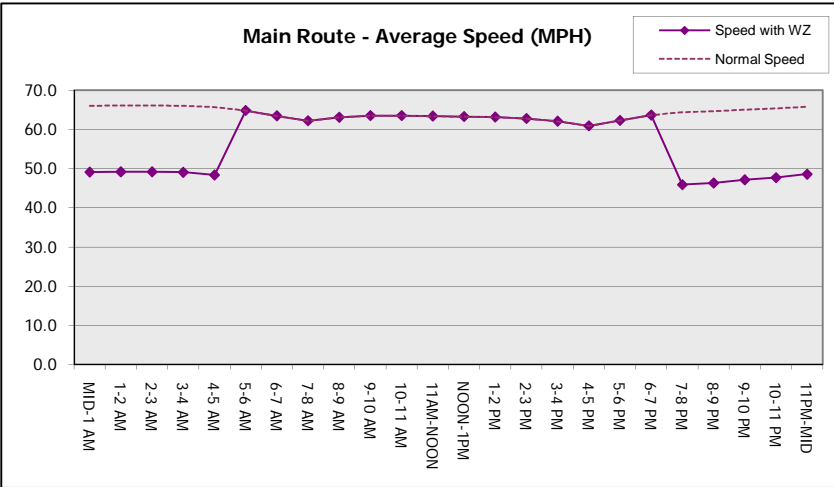
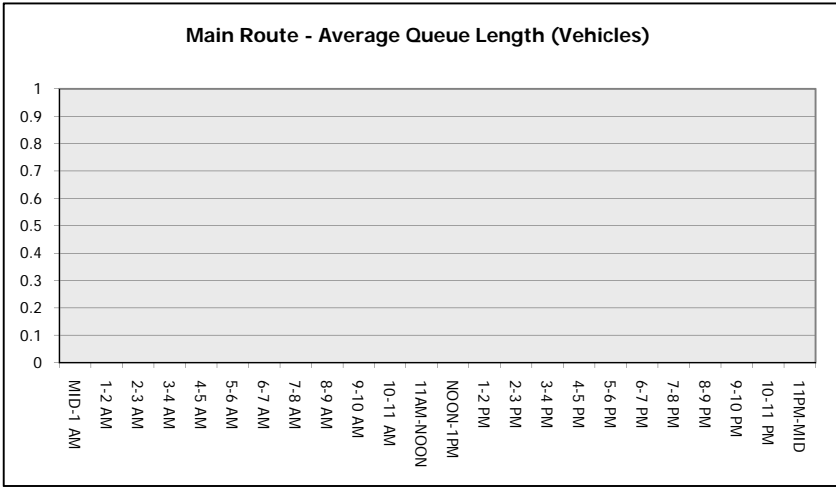
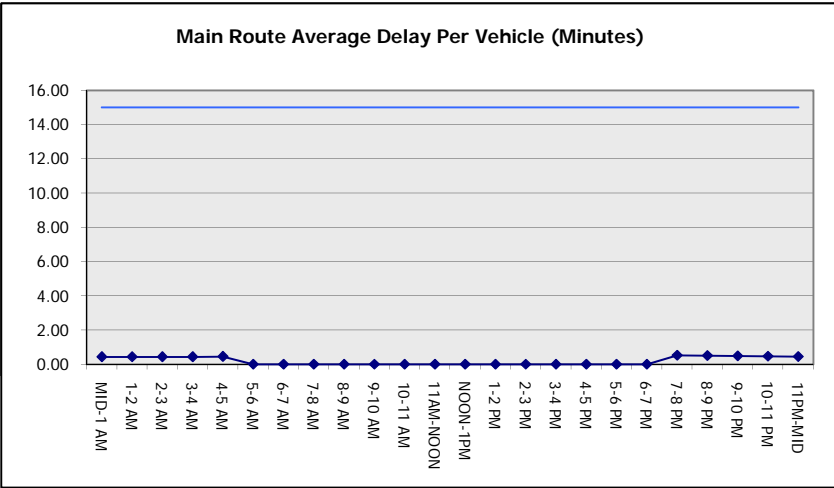
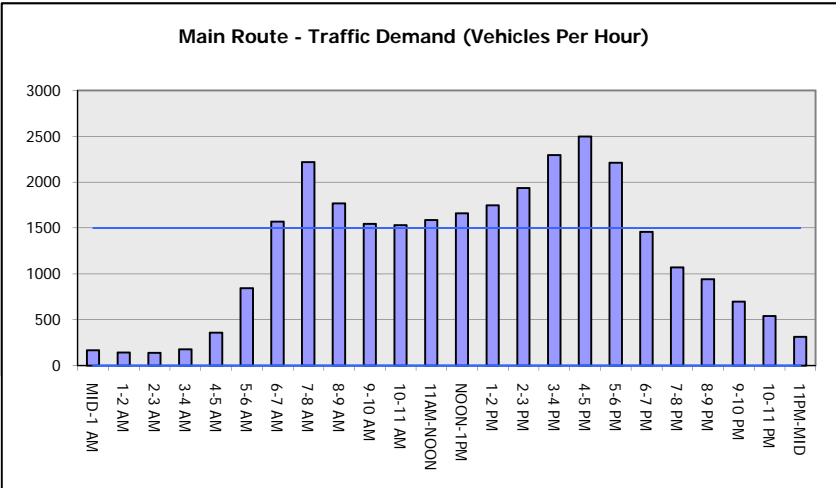
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0065
MAIN ROUTE WITH WORKS	0.0062
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$461
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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



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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	167	0.0	1500	167	0	0.44	0	66.1	49.1	44.8
1-2 AM	118	0.0	1500	118	0	0.43	0	66.1	49.3	45.0
2-3 AM	111	0.0	1500	111	0	0.43	0	66.2	49.3	45.0
3-4 AM	150	0.0	1500	150	0	0.44	0	66.1	49.2	44.9
4-5 AM	253	0.0	1500	253	0	0.45	0	65.9	48.7	44.5
5-6 AM	721	0.0	OFF	721	0	0.00	0	65.0	65.0	65.0
6-7 AM	1347	0.0	OFF	1347	0	0.00	0	63.9	63.9	63.9
7-8 AM	1919	0.0	OFF	1919	0	0.00	0	62.8	62.8	62.8
8-9 AM	1409	0.0	OFF	1409	0	0.00	0	63.8	63.8	63.8
9-10 AM	1294	0.0	OFF	1294	0	0.00	0	64.0	64.0	64.0
10-11 AM	1331	0.0	OFF	1331	0	0.00	0	63.9	63.9	63.9
11AM-NOON	1384	0.0	OFF	1384	0	0.00	0	63.8	63.8	63.8
NOON-1PM	1432	0.0	OFF	1432	0	0.00	0	63.7	63.7	63.7
1-2 PM	1466	0.0	OFF	1466	0	0.00	0	63.7	63.7	63.7
2-3 PM	1655	0.0	OFF	1655	0	0.00	0	63.3	63.3	63.3
3-4 PM	1917	0.0	OFF	1917	0	0.00	0	62.8	62.8	62.8
4-5 PM	2146	0.0	OFF	2146	0	0.00	0	62.4	62.4	62.4
5-6 PM	2033	0.0	OFF	2033	0	0.00	0	62.6	62.6	62.6
6-7 PM	1416	0.0	OFF	1416	0	0.00	0	63.8	63.8	63.8
7-8 PM	986	0.0	1500	986	0	0.52	0	64.5	46.1	41.7
8-9 PM	830	0.0	1500	830	0	0.50	0	64.8	46.7	42.3
9-10 PM	669	0.0	1500	669	0	0.49	0	65.1	47.3	42.8
10-11 PM	463	0.0	1500	463	0	0.47	0	65.5	48.0	43.7
11PM-MID	324	0.0	1500	324	0	0.45	0	65.8	48.5	44.2

"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	0.0057
MAIN ROUTE WITH WORKS	0.0054
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$408
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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