

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

FRIDAY 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	190	0.0	1500	190	0	0.44	0	66.0	49.0	44.7
1-2 AM	157	0.0	1500	157	0	0.44	0	66.1	49.1	44.8
2-3 AM	155	0.0	1500	155	0	0.44	0	66.1	49.1	44.8
3-4 AM	210	0.0	1500	210	0	0.44	0	66.0	48.9	44.6
4-5 AM	349	0.0	1500	349	0	0.46	0	65.8	48.4	44.1
5-6 AM	798	0.0	OFF	798	0	0.00	0	64.9	64.9	64.9
6-7 AM	1491	0.0	OFF	1491	0	0.00	0	63.6	63.6	63.6
7-8 AM	2169	0.0	OFF	2169	0	0.00	0	62.3	62.3	62.3
8-9 AM	1871	0.0	OFF	1871	0	0.00	0	62.9	62.9	62.9
9-10 AM	1609	0.0	OFF	1609	0	0.00	0	63.4	63.4	63.4
10-11 AM	1669	0.0	OFF	1669	0	0.00	0	63.3	63.3	63.3
11AM-NOON	1736	0.0	OFF	1736	0	0.00	0	63.2	63.2	63.2
NOON-1PM	1883	0.0	OFF	1883	0	0.00	0	62.9	62.9	62.9
1-2 PM	2023	0.0	OFF	2023	0	0.00	0	62.6	62.6	62.6
2-3 PM	2326	0.0	OFF	2326	0	0.00	0	62.0	62.0	62.0
3-4 PM	2591	0.0	OFF	2591	0	0.00	0	59.9	59.9	59.9
4-5 PM	2721	0.0	OFF	2721	0	0.00	0	58.6	58.6	58.6
5-6 PM	2417	0.0	OFF	2417	0	0.00	0	61.7	61.7	61.7
6-7 PM	1688	0.0	OFF	1688	0	0.00	0	63.2	63.2	63.2
7-8 PM	1164	0.0	1500	1164	0	0.59	0	64.2	44.2	39.6
8-9 PM	947	0.0	1500	947	0	0.51	0	64.6	46.3	41.9
9-10 PM	813	0.0	1500	813	0	0.50	0	64.9	46.8	42.4
10-11 PM	722	0.0	1500	722	0	0.49	0	65.0	47.1	42.7
11PM-MID	500	0.0	1500	500	0	0.47	0	65.5	47.9	43.5

"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

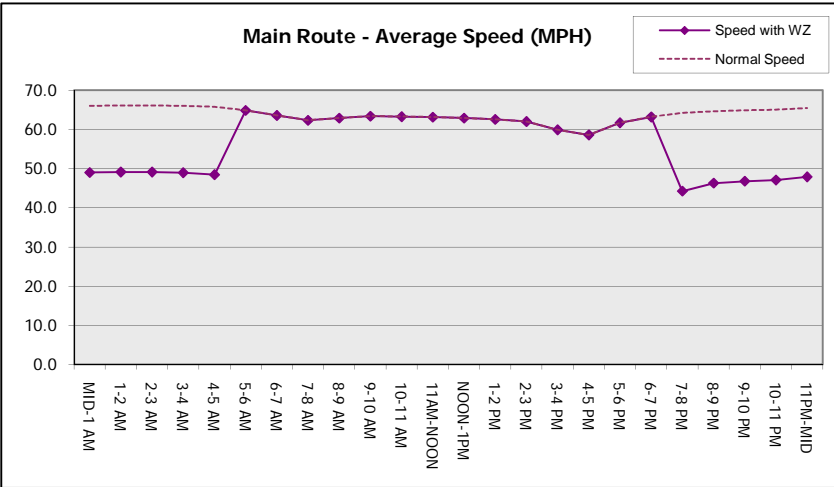
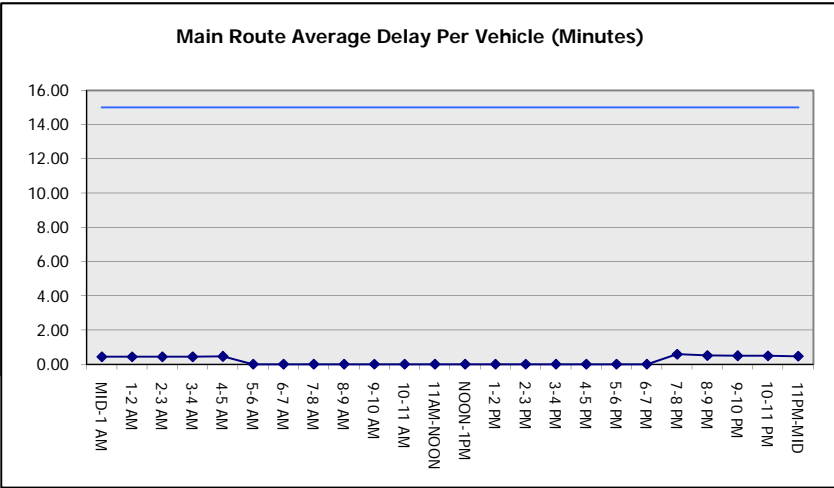
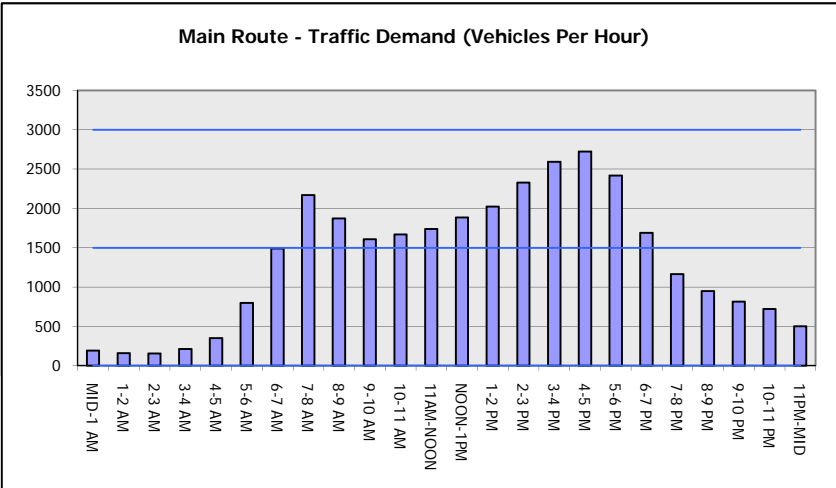
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0072
MAIN ROUTE WITH WORKS	0.0068
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$652
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	215	0.0	1500	215	0	0.44	0	66.0	48.9	44.6
1-2 AM	169	0.0	1500	169	0	0.44	0	66.1	49.1	44.8
2-3 AM	149	0.0	1500	149	0	0.44	0	66.1	49.2	44.9
3-4 AM	188	0.0	1500	188	0	0.44	0	66.0	49.0	44.7
4-5 AM	269	0.0	1500	269	0	0.45	0	65.9	48.7	44.4
5-6 AM	730	0.0	OFF	730	0	0.00	0	65.0	65.0	65.0
6-7 AM	1399	0.0	OFF	1399	0	0.00	0	63.8	63.8	63.8
7-8 AM	2015	0.0	OFF	2015	0	0.00	0	62.7	62.7	62.7
8-9 AM	1598	0.0	OFF	1598	0	0.00	0	63.4	63.4	63.4
9-10 AM	1614	0.0	OFF	1614	0	0.00	0	63.4	63.4	63.4
10-11 AM	1745	0.0	OFF	1745	0	0.00	0	63.2	63.2	63.2
11AM-NOON	1831	0.0	OFF	1831	0	0.00	0	63.0	63.0	63.0
NOON-1PM	1924	0.0	OFF	1924	0	0.00	0	62.8	62.8	62.8
1-2 PM	2109	0.0	OFF	2109	0	0.00	0	62.5	62.5	62.5
2-3 PM	2314	0.0	OFF	2314	0	0.00	0	62.1	62.1	62.1
3-4 PM	2469	0.0	OFF	2469	0	0.00	0	61.2	61.2	61.2
4-5 PM	2696	0.0	OFF	2696	0	0.00	0	58.9	58.9	58.9
5-6 PM	2707	0.0	OFF	2707	0	0.00	0	58.7	58.7	58.7
6-7 PM	2250	0.0	OFF	2250	0	0.00	0	62.2	62.2	62.2
7-8 PM	1786	0.0	1499	1786	0	6.76	170	63.0	12.4	30.8
8-9 PM	1370	0.0	1499	1370	0	10.02	245	63.8	9.9	30.8
9-10 PM	1008	0.0	1500	1008	0	1.06	29	64.5	35.8	40.4
10-11 PM	709	0.0	1500	709	0	0.49	0	65.1	47.1	42.7
11PM-MID	509	0.0	1500	509	0	0.47	0	65.5	47.8	43.5

"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	0.0075
MAIN ROUTE WITH WORKS	0.0071
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$6,889
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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