

USH 41: 9TH AVE TO STH 44 (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) 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	1500	798	0	0.50	0	64.9	46.8	42.4	
6-7 AM	1491	0.0	1499	1491	0	1.40	20	63.6	30.9	32.9	
7-8 AM	2169	0.0	1500	1817	352	12.81+	338	62.3	9.1	30.8	
8-9 AM	1871	0.0	1500	1510	362	17.31+	440	62.9	7.8	30.8	
9-10 AM	1609	0.0	1500	1528	81	17.15+	435	63.4	7.8	30.8	
10-11 AM	1669	0.0	1500	1501	168	17.30+	439	63.3	7.8	30.8	
11AM-NOON	1736	0.0	1500	1501	235	17.30+	439	63.2	7.8	30.8	
NOON-1PM	1883	0.0	1500	1501	382	17.31+	440	62.9	7.8	30.8	
1-2 PM	2023	0.0	1500	1501	522	17.32+	440	62.6	7.8	30.8	
2-3 PM	2326	0.0	1499	1501	826	17.35+	441	62.0	7.8	30.8	
3-4 PM	2591	0.0	1499	1504	1087	17.31+	443	59.9	7.8	30.8	
4-5 PM	2721	0.0	1499	1504	1217	17.41+	447	58.6	7.8	30.8	
5-6 PM	2417	0.0	1500	1499	918	17.35+	442	61.7	7.8	30.8	
6-7 PM	1688	0.0	1500	1493	195	17.28+	438	63.2	7.8	30.8	
7-8 PM	1164	0.0	1499	1164	0	11.20+	294	64.2	9.7	32.7	
8-9 PM	947	0.0	1500	947	0	0.71	10	64.6	41.7	41.8	
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	

+ 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

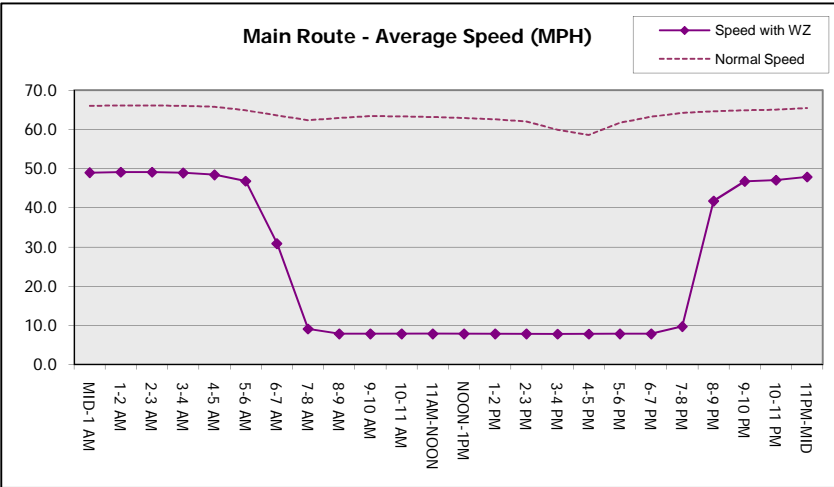
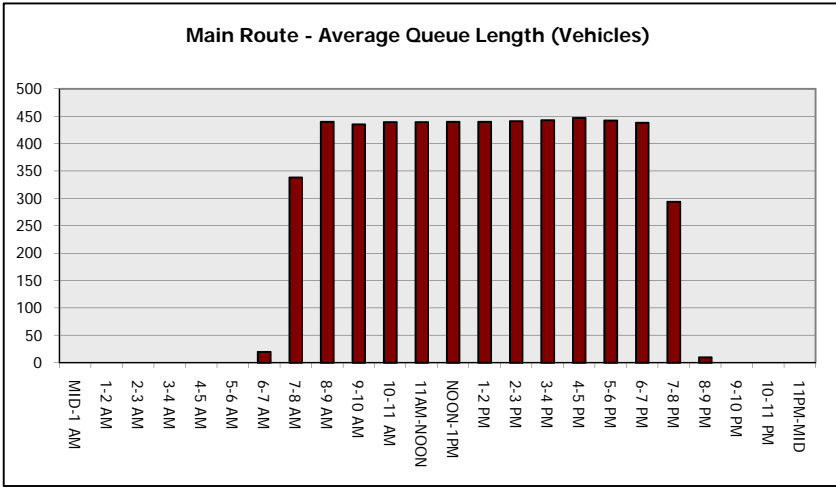
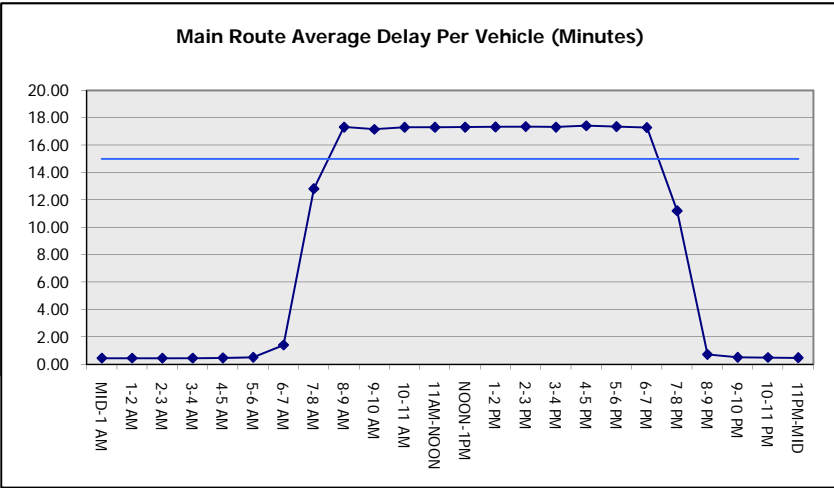
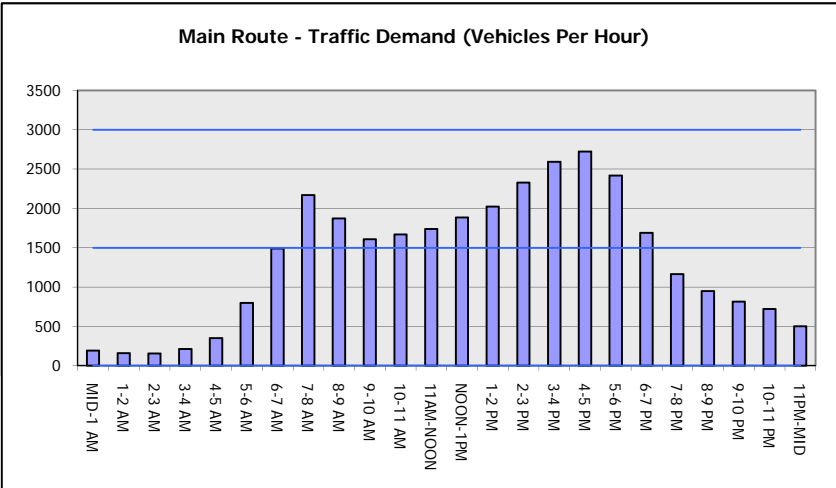
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0072
MAIN ROUTE WITH WORKS	0.0040
'DIVERSION'	0.0033
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$98,947
CONGESTED HOURS PER DAY*	13

*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	1500	730	0	0.49	0	65.0	47.0	42.7
6-7 AM	1399	0.0	1499	1399	0	1.05	7	63.8	35.5	34.0
7-8 AM	2015	0.0	1500	1975	39	10.00+	274	62.7	10.3	30.8
8-9 AM	1598	0.0	1499	1420	178	16.51+	418	63.4	7.9	30.8
9-10 AM	1614	0.0	1499	1504	110	17.29+	438	63.4	7.8	30.8
10-11 AM	1745	0.0	1500	1502	242	17.30+	439	63.2	7.8	30.8
11AM-NOON	1831	0.0	1500	1502	329	17.31+	439	63.0	7.8	30.8
NOON-1PM	1924	0.0	1500	1502	422	17.32+	440	62.8	7.8	30.8
1-2 PM	2109	0.0	1500	1501	608	17.33+	441	62.5	7.8	30.8
2-3 PM	2314	0.0	1500	1501	813	17.35+	441	62.1	7.8	30.8
3-4 PM	2469	0.0	1500	1501	967	17.33+	442	61.2	7.8	30.8
4-5 PM	2696	0.0	1500	1508	1188	17.37+	446	58.9	7.8	30.8
5-6 PM	2707	0.0	1500	1499	1209	17.40+	447	58.7	7.8	30.8
6-7 PM	2250	0.0	1500	1499	751	17.34+	441	62.2	7.8	30.8
7-8 PM	1786	0.0	1500	1499	287	17.31+	439	63.0	7.8	30.8
8-9 PM	1370	0.0	1499	1370	0	15.91+	402	63.8	8.1	30.8
9-10 PM	1008	0.0	1499	1008	0	2.51	115	64.5	24.3	38.0
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

+ 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	0.0075
MAIN ROUTE WITH WORKS	0.0042
'DIVERSION'	0.0037

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$109,059
CONGESTED HOURS PER DAY*	14

*Delays Exceeding User-Specified Maximum

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