

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

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	1500	845	0	0.50	0	64.8	46.6	42.2	
6-7 AM	1570	0.0	1499	1570	0	1.66	30	63.5	28.1	31.9	
7-8 AM	2218	0.0	1500	1843	375	14.15+	367	62.2	8.6	30.8	
8-9 AM	1769	0.0	1499	1490	278	17.29+	439	63.1	7.8	30.8	
9-10 AM	1544	0.0	1499	1485	59	17.24+	437	63.5	7.8	30.8	
10-11 AM	1532	0.0	1500	1500	32	17.29+	438	63.5	7.8	30.8	
11AM-NOON	1588	0.0	1499	1500	88	17.29+	439	63.4	7.8	30.8	
NOON-1PM	1660	0.0	1500	1500	160	17.30+	439	63.3	7.8	30.8	
1-2 PM	1748	0.0	1499	1500	248	17.30+	439	63.2	7.8	30.8	
2-3 PM	1936	0.0	1499	1500	436	17.32+	440	62.8	7.8	30.8	
3-4 PM	2297	0.0	1499	1501	796	17.35+	441	62.1	7.8	30.8	
4-5 PM	2499	0.0	1500	1501	999	17.33+	442	60.9	7.8	30.8	
5-6 PM	2213	0.0	1500	1500	713	17.34+	441	62.3	7.8	30.8	
6-7 PM	1457	0.0	1500	1407	50	16.44+	416	63.7	8.0	30.8	
7-8 PM	1072	0.0	1499	1072	0	3.89	156	64.4	18.8	36.5	
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	

+ 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	0.0065
MAIN ROUTE WITH WORKS	0.0039
'DIVERSION'	0.0022
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$86,483
CONGESTED HOURS PER DAY*	12

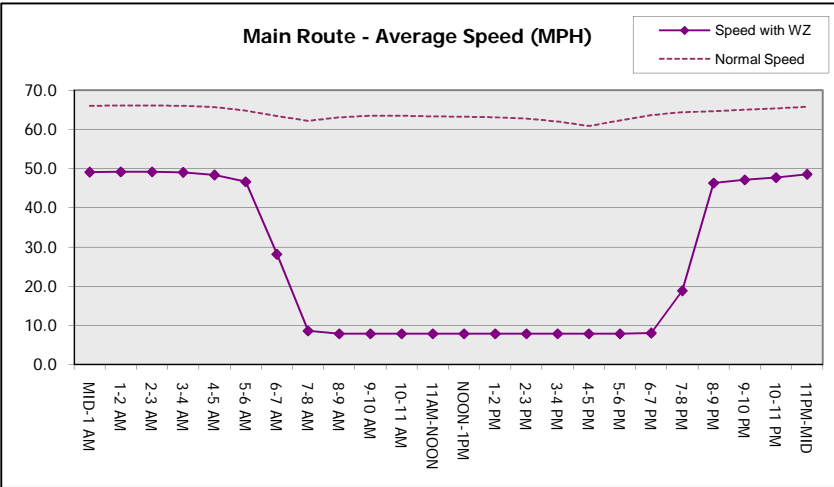
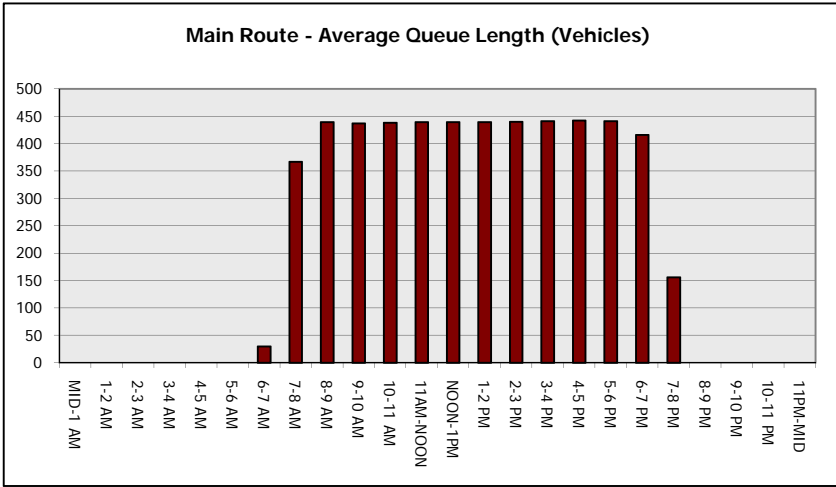
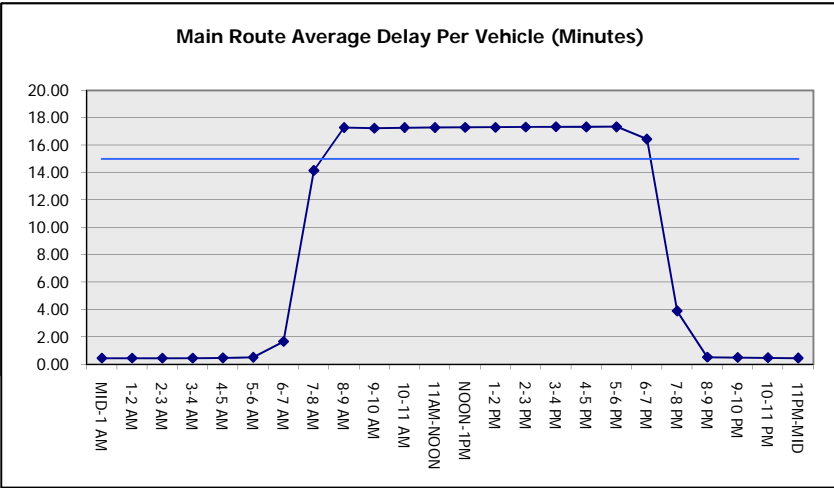
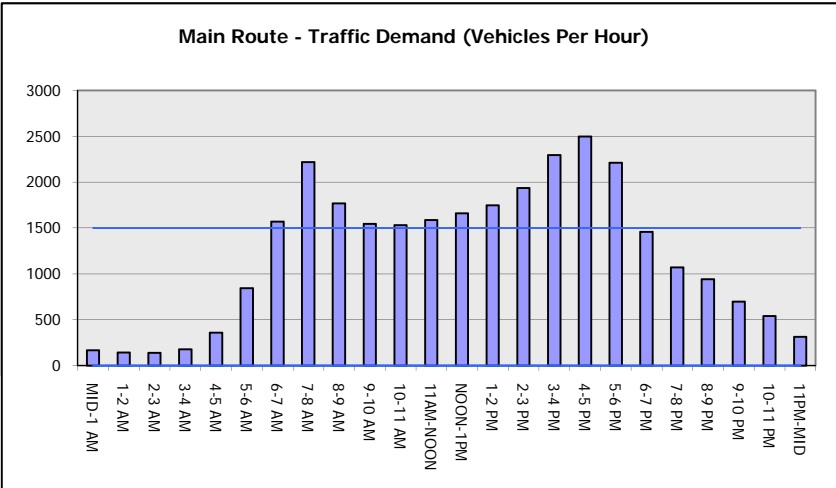
*Delays Exceeding User-Specified Maximum

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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	1500	721	0	0.49	0	65.0	47.1	42.7	
6-7 AM	1347	0.0	1499	1347	0	0.81	0	63.9	39.5	34.7	
7-8 AM	1919	0.0	1499	1919	0	7.65	207	62.8	11.8	30.8	
8-9 AM	1409	0.0	1499	1409	0	15.57+	393	63.8	8.1	30.8	
9-10 AM	1294	0.0	1499	1294	0	9.20	227	64.0	10.4	30.9	
10-11 AM	1331	0.0	1500	1331	0	1.90	41	63.9	26.4	33.2	
11AM-NOON	1384	0.0	1500	1384	0	0.87	0	63.8	38.3	33.3	
NOON-1PM	1432	0.0	1500	1432	0	0.94	0	63.7	37.2	32.2	
1-2 PM	1466	0.0	1499	1466	0	0.98	0	63.7	36.5	31.5	
2-3 PM	1655	0.0	1499	1655	0	2.95	63	63.3	20.2	30.8	
3-4 PM	1917	0.0	1500	1786	130	12.78+	330	62.8	9.0	30.8	
4-5 PM	2146	0.0	1499	1500	646	17.33+	441	62.4	7.8	30.8	
5-6 PM	2033	0.0	1500	1500	533	17.33+	440	62.6	7.8	30.8	
6-7 PM	1416	0.0	1500	1393	24	16.31+	413	63.8	8.0	30.8	
7-8 PM	986	0.0	1499	986	0	2.60	122	64.5	24.0	38.2	
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	

+ 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	0.0057
MAIN ROUTE WITH WORKS	0.0038
'DIVERSION'	0.0007

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$41,180
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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