

USH 41: STH 44 TO STH 26 (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	166	0.0	1500	166	0	0.44	0	66.1	56.1	44.8
1-2 AM	136	0.0	1500	136	0	0.44	0	66.1	56.1	45.0
2-3 AM	135	0.0	1500	135	0	0.44	0	66.1	56.1	45.0
3-4 AM	182	0.0	1500	182	0	0.44	0	66.1	56.0	44.8
4-5 AM	303	0.0	1500	303	0	0.45	0	65.8	55.6	44.3
5-6 AM	692	0.0	1500	692	0	0.49	0	65.1	54.4	42.8
6-7 AM	1293	0.0	1499	1293	0	0.74	0	64.0	49.4	36.1
7-8 AM	1882	0.0	1499	1882	0	6.45	180	62.9	18.1	30.8
8-9 AM	1623	0.0	1499	1529	94	16.26+	411	63.3	9.8	30.8
9-10 AM	1396	0.0	1499	1396	0	14.50+	364	63.8	10.4	30.8
10-11 AM	1447	0.0	1500	1447	0	11.29	277	63.7	11.8	30.8
11AM-NOON	1506	0.0	1500	1506	0	10.35	251	63.6	12.5	30.8
NOON-1PM	1634	0.0	1500	1634	0	12.77	319	63.3	11.1	30.8
1-2 PM	1754	0.0	1499	1502	252	16.39+	415	63.1	9.7	30.8
2-3 PM	2019	0.0	1500	1502	517	16.38+	415	62.6	9.7	30.8
3-4 PM	2248	0.0	1500	1502	747	16.37+	415	62.2	9.7	30.8
4-5 PM	2360	0.0	1500	1502	859	16.37+	416	62.0	9.7	30.8
5-6 PM	2097	0.0	1500	1501	596	16.38+	415	62.5	9.7	30.8
6-7 PM	1465	0.0	1500	1415	50	15.35+	387	63.7	10.1	30.8
7-8 PM	1010	0.0	1499	1010	0	2.88	118	64.5	30.1	37.9
8-9 PM	821	0.0	1500	821	0	0.50	0	64.8	54.0	42.3
9-10 PM	706	0.0	1500	706	0	0.49	0	65.1	54.3	42.7
10-11 PM	626	0.0	1500	626	0	0.48	0	65.2	54.6	43.0
11PM-MID	434	0.0	1500	434	0	0.46	0	65.6	55.2	43.8

+ 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

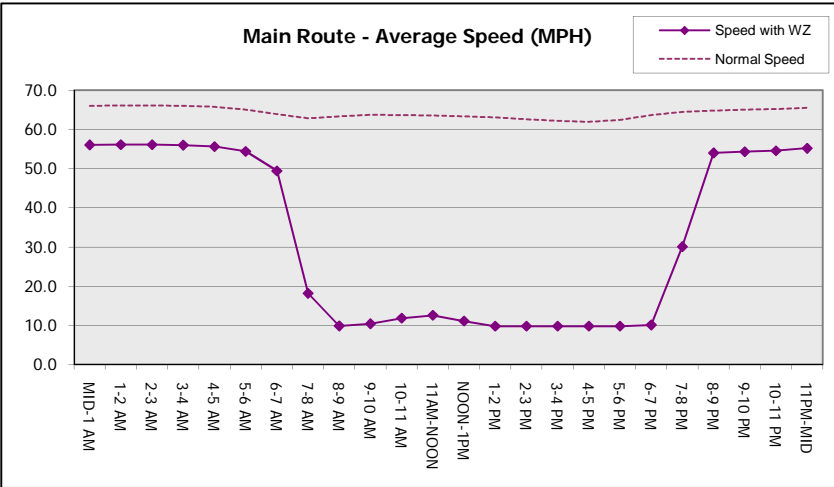
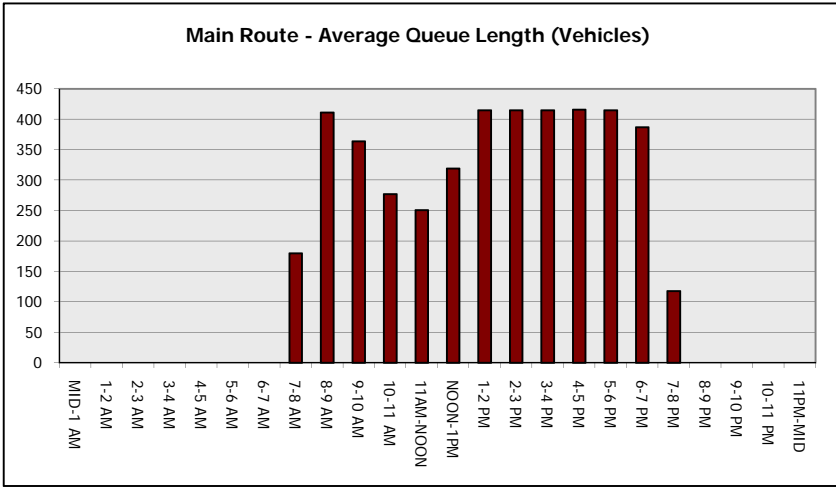
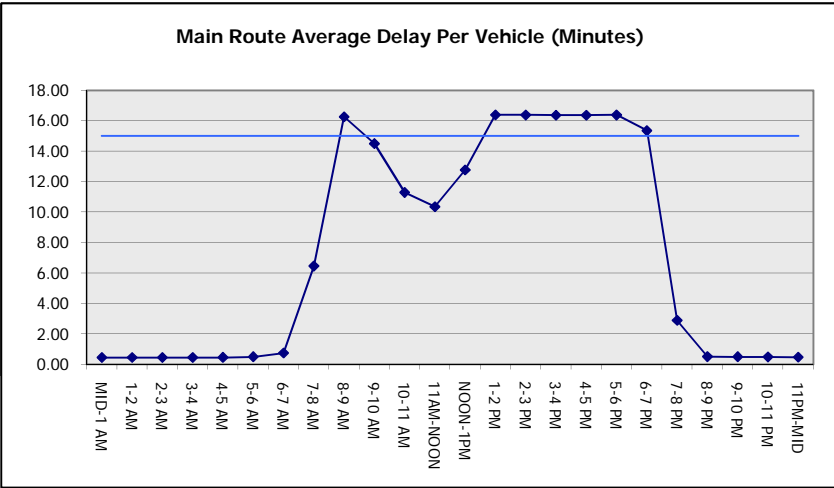
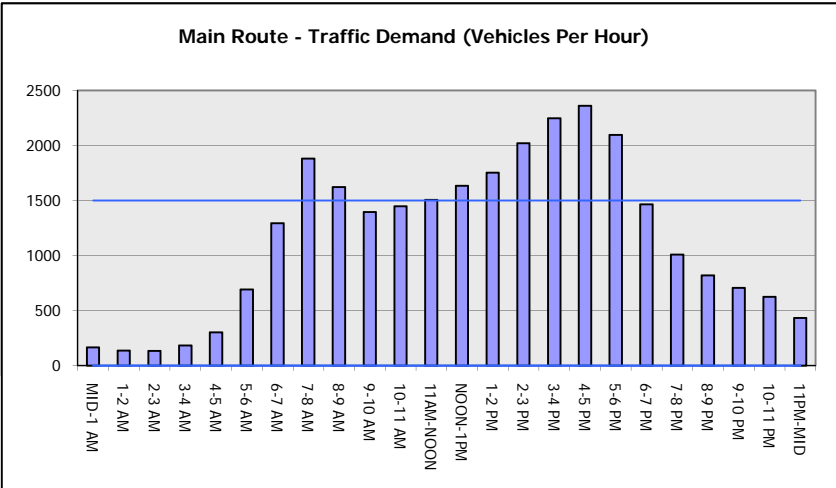
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0120
MAIN ROUTE WITH WORKS	0.0090
'DIVERSION'	0.0031
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$71,020
CONGESTED HOURS PER DAY*	8

*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	186	0.0	1500	186	0	0.44	0	66.0	56.0	44.7
1-2 AM	146	0.0	1500	146	0	0.44	0	66.1	56.1	44.9
2-3 AM	130	0.0	1500	130	0	0.44	0	66.1	56.2	45.0
3-4 AM	163	0.0	1500	163	0	0.44	0	66.1	56.1	44.8
4-5 AM	234	0.0	1500	234	0	0.45	0	66.0	55.8	44.5
5-6 AM	633	0.0	1500	633	0	0.48	0	65.2	54.6	43.0
6-7 AM	1214	0.0	1499	1214	0	0.67	0	64.1	50.7	37.8
7-8 AM	1748	0.0	1499	1748	0	4.72	118	63.2	22.2	30.8
8-9 AM	1387	0.0	1499	1387	0	8.40	202	63.8	14.8	30.8
9-10 AM	1400	0.0	1500	1400	0	3.86	80	63.8	25.3	30.9
10-11 AM	1514	0.0	1500	1514	0	2.35	35	63.6	33.1	30.8
11AM-NOON	1588	0.0	1500	1588	0	4.18	88	63.4	24.0	30.8
NOON-1PM	1670	0.0	1500	1670	0	8.71	214	63.3	14.4	30.8
1-2 PM	1830	0.0	1500	1642	188	15.67+	397	63.0	10.0	30.8
2-3 PM	2008	0.0	1499	1497	512	16.38+	415	62.7	9.7	30.8
3-4 PM	2141	0.0	1499	1497	644	16.38+	415	62.4	9.7	30.8
4-5 PM	2339	0.0	1499	1497	841	16.37+	415	62.0	9.7	30.8
5-6 PM	2348	0.0	1499	1498	850	16.37+	416	62.0	9.7	30.8
6-7 PM	1953	0.0	1499	1498	455	16.38+	415	62.7	9.7	30.8
7-8 PM	1549	0.0	1499	1459	91	16.24+	410	63.5	9.8	30.8
8-9 PM	1188	0.0	1499	1188	0	9.70	259	64.1	13.7	32.7
9-10 PM	875	0.0	1500	875	0	0.66	6	64.8	51.3	42.1
10-11 PM	616	0.0	1500	616	0	0.48	0	65.3	54.6	43.1
11PM-MID	441	0.0	1500	441	0	0.47	0	65.6	55.2	43.7

+ 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	0.0126
MAIN ROUTE WITH WORKS	0.0094
'DIVERSION'	0.0036

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$67,176
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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