

USH 41: 9TH AVE TO STH 44 (WINNEBAGO COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	195	0.0	OFF	195	0	0.00	0	66.0	66.0	66.0
1-2 AM	157	0.0	OFF	157	0	0.00	0	66.1	66.1	66.1
2-3 AM	149	0.0	OFF	149	0	0.00	0	66.1	66.1	66.1
3-4 AM	222	0.0	OFF	222	0	0.00	0	66.0	66.0	66.0
4-5 AM	419	0.0	OFF	419	0	0.00	0	65.6	65.6	65.6
5-6 AM	961	0.0	OFF	961	0	0.00	0	64.6	64.6	64.6
6-7 AM	1714	0.0	OFF	1714	0	0.00	0	63.2	63.2	63.2
7-8 AM	2351	0.0	OFF	2351	0	0.00	0	62.0	62.0	62.0
8-9 AM	1892	0.0	OFF	1892	0	0.00	0	62.8	62.8	62.8
9-10 AM	1657	0.0	OFF	1657	0	0.00	0	63.3	63.3	63.3
10-11 AM	1684	0.0	1499	1684	0	3.83	88	63.2	17.2	30.8
11AM-NOON	1777	0.0	1500	1777	0	12.46+	317	63.1	9.1	30.8
NOON-1PM	1855	0.0	1499	1495	360	17.31+	440	62.9	7.8	30.8
1-2 PM	1934	0.0	1499	1496	438	17.32+	440	62.8	7.8	30.8
2-3 PM	2149	0.0	1499	1497	652	17.33+	441	62.4	7.8	30.8
3-4 PM	2343	0.0	OFF	2343	0	1.01	61	62.0	35.5	35.5
4-5 PM	2556	0.0	OFF	2556	0	0.00	0	60.3	60.3	60.3
5-6 PM	2239	0.0	OFF	2239	0	0.00	0	62.2	62.2	62.2
6-7 PM	1463	0.0	OFF	1463	0	0.00	0	63.7	63.7	63.7
7-8 PM	1079	0.0	OFF	1079	0	0.00	0	64.4	64.4	64.4
8-9 PM	939	0.0	OFF	939	0	0.00	0	64.6	64.6	64.6
9-10 PM	764	0.0	OFF	764	0	0.00	0	65.0	65.0	65.0
10-11 PM	622	0.0	OFF	622	0	0.00	0	65.2	65.2	65.2
11PM-MID	416	0.0	OFF	416	0	0.00	0	65.6	65.6	65.6

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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

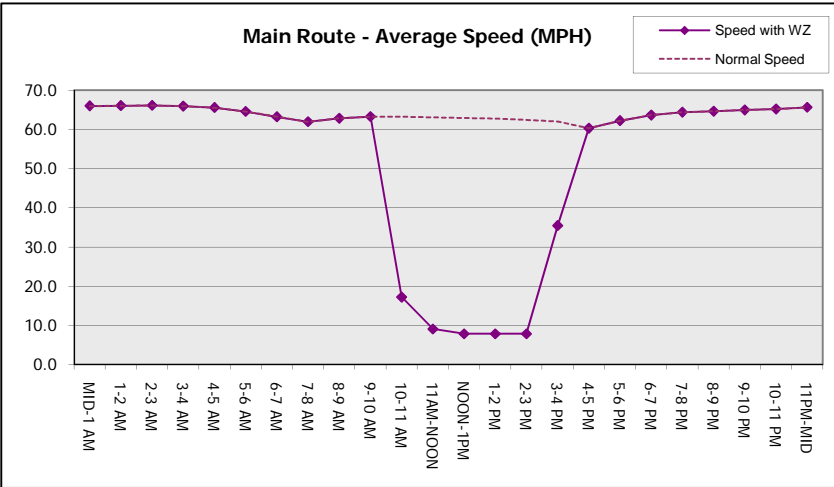
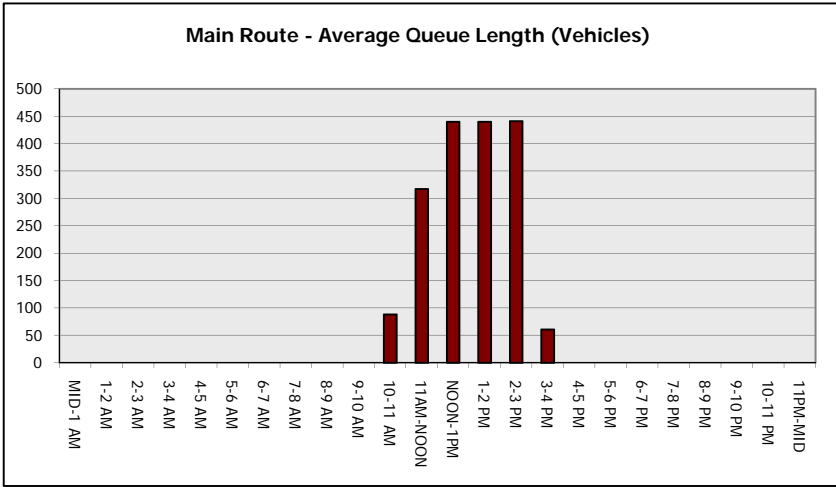
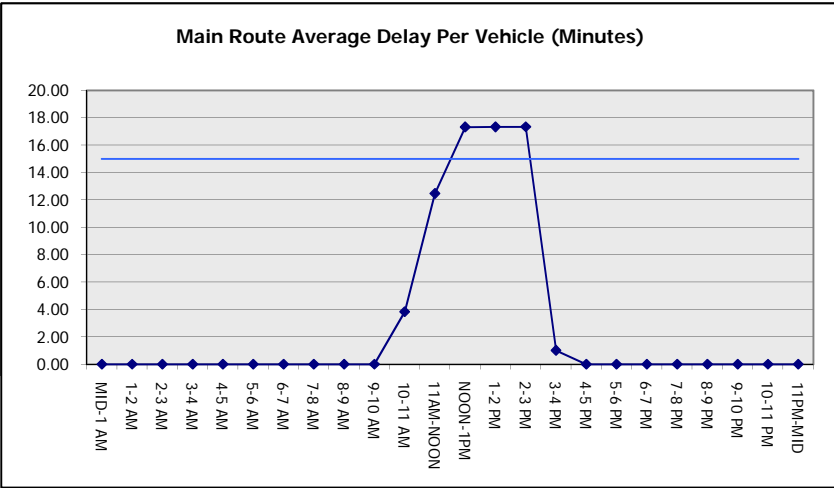
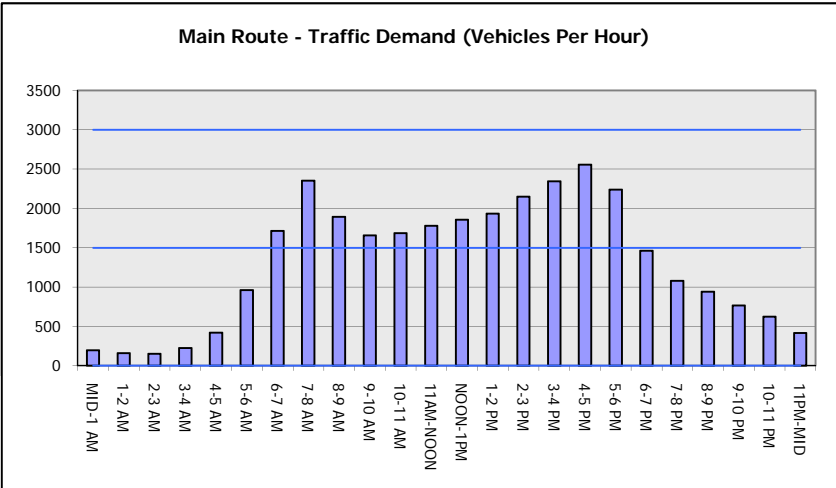
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0070
MAIN ROUTE WITH WORKS	0.0062
'DIVERSION'	0.0007
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$28,368
CONGESTED HOURS PER DAY*	4

*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	204	0.0	OFF	204	0	0.00	0	66.0	66.0	66.0
1-2 AM	153	0.0	OFF	153	0	0.00	0	66.1	66.1	66.1
2-3 AM	141	0.0	OFF	141	0	0.00	0	66.1	66.1	66.1
3-4 AM	174	0.0	OFF	174	0	0.00	0	66.1	66.1	66.1
4-5 AM	292	0.0	OFF	292	0	0.00	0	65.8	65.8	65.8
5-6 AM	796	0.0	OFF	796	0	0.00	0	64.9	64.9	64.9
6-7 AM	1432	0.0	OFF	1432	0	0.00	0	63.7	63.7	63.7
7-8 AM	1967	0.0	OFF	1967	0	0.00	0	62.7	62.7	62.7
8-9 AM	1494	0.0	OFF	1494	0	0.00	0	63.6	63.6	63.6
9-10 AM	1465	0.0	OFF	1465	0	0.00	0	63.7	63.7	63.7
10-11 AM	1575	0.0	1499	1575	0	2.10	32	63.5	24.5	30.8
11AM-NOON	1618	0.0	1500	1618	0	5.79	132	63.3	13.3	30.8
NOON-1PM	1630	0.0	1499	1630	0	10.39	255	63.3	9.7	30.8
1-2 PM	1708	0.0	1500	1592	116	15.90+	403	63.2	8.1	30.8
2-3 PM	1876	0.0	1500	1506	370	17.31+	440	62.9	7.8	30.8
3-4 PM	2120	0.0	OFF	2120	0	0.75	47	62.4	40.1	40.1
4-5 PM	2393	0.0	OFF	2393	0	0.00	0	61.9	61.9	61.9
5-6 PM	2264	0.0	OFF	2264	0	0.00	0	62.2	62.2	62.2
6-7 PM	1550	0.0	OFF	1550	0	0.00	0	63.5	63.5	63.5
7-8 PM	1112	0.0	OFF	1112	0	0.00	0	64.3	64.3	64.3
8-9 PM	909	0.0	OFF	909	0	0.00	0	64.7	64.7	64.7
9-10 PM	711	0.0	OFF	711	0	0.00	0	65.1	65.1	65.1
10-11 PM	511	0.0	OFF	511	0	0.00	0	65.5	65.5	65.5
11PM-MID	356	0.0	OFF	356	0	0.00	0	65.7	65.7	65.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0063
MAIN ROUTE WITH WORKS	0.0057
'DIVERSION'	0.0003

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$19,257
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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