

USH 41: STH 44 TO STH 26 (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) 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	169	0.0	1500	169	0	0.44	0	66.1	56.0	44.8
1-2 AM	137	0.0	1500	137	0	0.44	0	66.1	56.1	45.0
2-3 AM	130	0.0	1500	130	0	0.44	0	66.1	56.2	45.0
3-4 AM	194	0.0	1500	194	0	0.44	0	66.0	56.0	44.7
4-5 AM	363	0.0	1500	363	0	0.46	0	65.7	55.4	44.0
5-6 AM	834	0.0	1500	834	0	0.50	0	64.8	54.0	42.3
6-7 AM	1487	0.0	1499	1487	0	1.42	17	63.6	40.9	32.7
7-8 AM	2040	0.0	1500	1810	230	11.16+	302	62.6	12.5	30.8
8-9 AM	1641	0.0	1500	1536	105	16.22+	410	63.3	9.8	30.8
9-10 AM	1438	0.0	1499	1438	0	15.48+	390	63.7	10.1	30.8
10-11 AM	1461	0.0	1500	1461	0	13.28	330	63.7	10.8	30.8
11AM-NOON	1541	0.0	1500	1541	0	13.25	330	63.5	10.8	30.8
NOON-1PM	1609	0.0	1500	1546	62	15.70+	396	63.4	9.9	30.8
1-2 PM	1679	0.0	1500	1501	178	16.39+	414	63.3	9.7	30.8
2-3 PM	1864	0.0	1500	1501	363	16.39+	415	62.9	9.7	30.8
3-4 PM	2033	0.0	1500	1501	532	16.38+	415	62.6	9.7	30.8
4-5 PM	2217	0.0	1500	1501	716	16.37+	415	62.2	9.7	30.8
5-6 PM	1942	0.0	1500	1501	442	16.38+	415	62.8	9.7	30.8
6-7 PM	1269	0.0	1499	1269	0	12.64+	323	64.0	11.4	31.3
7-8 PM	936	0.0	1500	936	0	1.14	30	64.6	44.5	41.5
8-9 PM	814	0.0	1500	814	0	0.50	0	64.9	54.0	42.4
9-10 PM	663	0.0	1500	663	0	0.49	0	65.1	54.5	42.9
10-11 PM	539	0.0	1500	539	0	0.47	0	65.4	54.9	43.3
11PM-MID	361	0.0	1500	361	0	0.46	0	65.7	55.5	44.0

+ 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

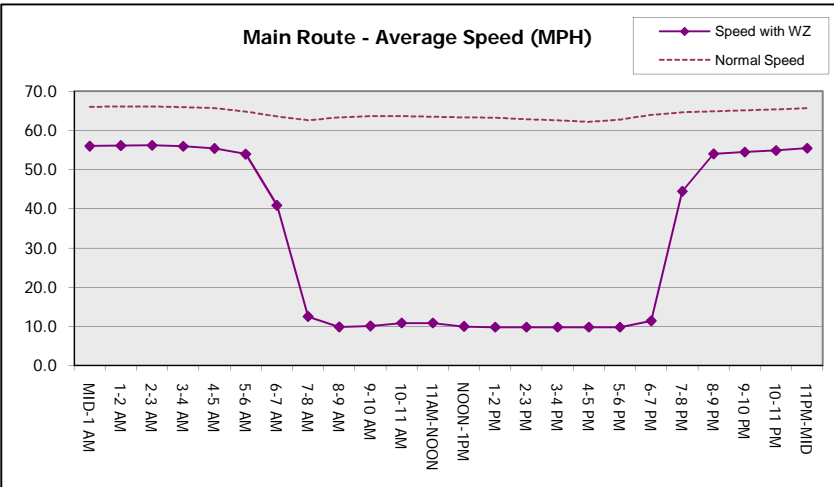
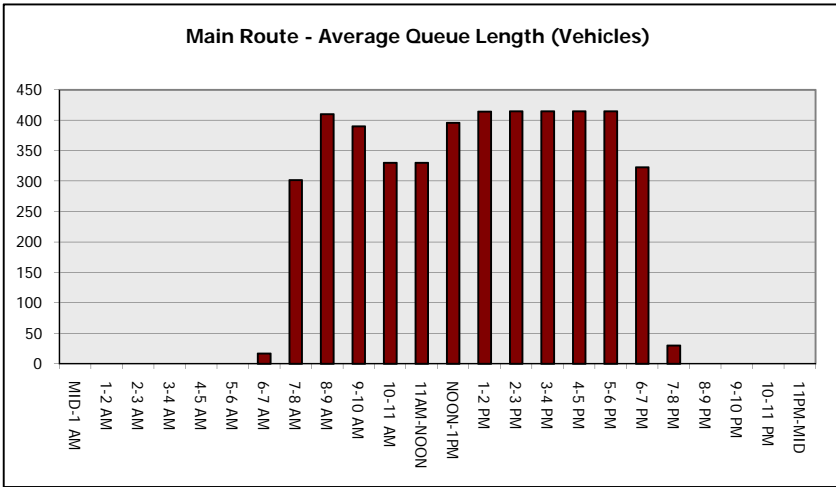
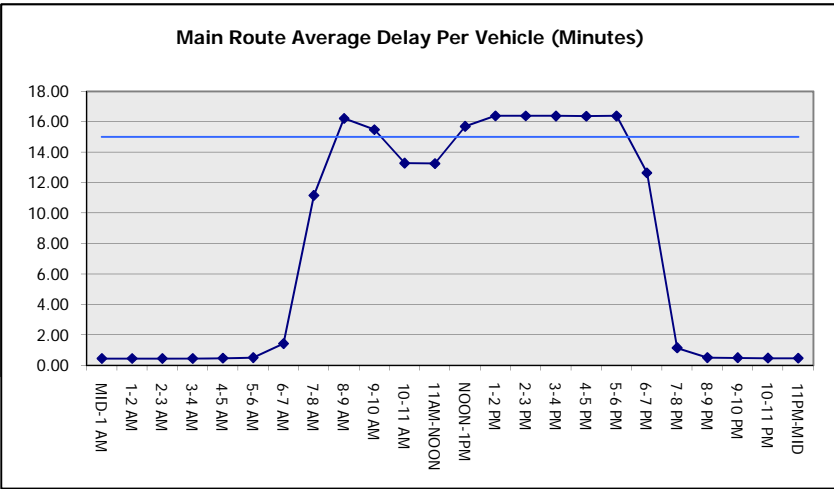
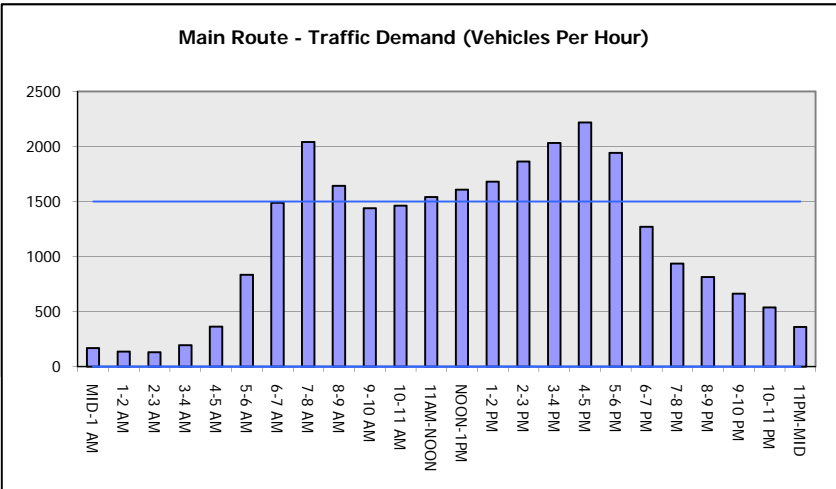
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0118
MAIN ROUTE WITH WORKS	0.0090
'DIVERSION'	0.0026
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$70,160
CONGESTED HOURS PER DAY*	10

*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	177	0.0	1500	177	0	0.44	0	66.1	56.0	44.8
1-2 AM	133	0.0	1500	133	0	0.44	0	66.1	56.1	45.0
2-3 AM	122	0.0	1500	122	0	0.43	0	66.1	56.2	45.0
3-4 AM	150	0.0	1500	150	0	0.44	0	66.1	56.1	44.9
4-5 AM	253	0.0	1500	253	0	0.45	0	65.9	55.8	44.5
5-6 AM	690	0.0	1500	690	0	0.49	0	65.1	54.4	42.8
6-7 AM	1242	0.0	1499	1242	0	0.68	0	64.1	50.4	37.5
7-8 AM	1707	0.0	1499	1707	0	4.27	101	63.2	23.7	30.8
8-9 AM	1296	0.0	1499	1296	0	4.73	118	64.0	22.3	32.4
9-10 AM	1270	0.0	1500	1270	0	0.73	0	64.0	49.7	36.3
10-11 AM	1367	0.0	1500	1367	0	0.85	0	63.8	47.8	33.8
11AM-NOON	1404	0.0	1500	1404	0	0.90	0	63.8	47.1	32.9
NOON-1PM	1413	0.0	1499	1413	0	0.91	0	63.8	46.9	32.7
1-2 PM	1482	0.0	1499	1482	0	1.04	1	63.7	45.2	31.2
2-3 PM	1627	0.0	1500	1627	0	2.88	57	63.3	29.8	30.8
3-4 PM	1840	0.0	1500	1840	0	10.97+	287	63.0	12.5	30.8
4-5 PM	2076	0.0	1500	1491	586	16.37+	415	62.5	9.7	30.8
5-6 PM	1964	0.0	1499	1481	483	16.33+	414	62.7	9.7	30.8
6-7 PM	1344	0.0	1499	1297	48	14.08+	356	63.9	10.6	30.8
7-8 PM	965	0.0	1499	965	0	1.76	61	64.6	37.9	39.9
8-9 PM	789	0.0	1500	789	0	0.50	0	64.9	54.1	42.4
9-10 PM	617	0.0	1500	617	0	0.48	0	65.3	54.6	43.0
10-11 PM	444	0.0	1500	444	0	0.47	0	65.6	55.1	43.7
11PM-MID	309	0.0	1500	309	0	0.45	0	65.8	55.6	44.3

+ 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	0.0106
MAIN ROUTE WITH WORKS	0.0086
'DIVERSION'	0.0011

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$29,559
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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