

USH 41: STH 44 TO STH 26 (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	202	0.0	1500	202	0	0.44	0	66.0	56.0	44.6	
1-2 AM	139	0.0	1500	139	0	0.44	0	66.1	56.1	45.0	
2-3 AM	126	0.0	1500	126	0	0.43	0	66.1	56.2	45.0	
3-4 AM	116	0.0	1500	116	0	0.43	0	66.2	56.2	45.0	
4-5 AM	187	0.0	1500	187	0	0.44	0	66.0	56.0	44.7	
5-6 AM	327	0.0	1500	327	0	0.45	0	65.8	55.5	44.2	
6-7 AM	609	0.0	1500	609	0	0.48	0	65.3	54.6	43.1	
7-8 AM	1055	0.0	1500	1055	0	0.52	0	64.4	53.3	41.5	
8-9 AM	1256	0.0	1500	1256	0	0.71	0	64.0	50.1	36.8	
9-10 AM	1427	0.0	1499	1427	0	0.93	0	63.7	46.7	32.4	
10-11 AM	1583	0.0	1499	1583	0	2.28	37	63.5	33.5	30.8	
11AM-NOON	1569	0.0	1499	1569	0	5.32	117	63.5	20.6	30.8	
NOON-1PM	1594	0.0	1500	1594	0	8.40	201	63.4	14.8	30.8	
1-2 PM	1497	0.0	1499	1497	0	10.19	247	63.6	12.7	30.8	
2-3 PM	1504	0.0	1500	1504	0	10.10	244	63.6	12.8	30.8	
3-4 PM	1493	0.0	1499	1493	0	10.05	243	63.6	12.9	30.8	
4-5 PM	1497	0.0	1500	1497	0	9.98	241	63.6	12.9	30.8	
5-6 PM	1381	0.0	1499	1381	0	7.78	186	63.8	15.7	30.8	
6-7 PM	1195	0.0	1500	1195	0	1.33	26	64.1	42.0	37.4	
7-8 PM	983	0.0	1500	983	0	0.52	0	64.6	53.5	41.7	
8-9 PM	813	0.0	1500	813	0	0.50	0	64.9	54.0	42.4	
9-10 PM	702	0.0	1500	702	0	0.49	0	65.1	54.4	42.7	
10-11 PM	559	0.0	1500	559	0	0.48	0	65.3	54.8	43.3	
11PM-MID	364	0.0	1500	364	0	0.46	0	65.7	55.4	44.0	

----- 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	0.0095
MAIN ROUTE WITH WORKS	0.0081
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

ROAD USER COSTS PER DAY	\$28,830
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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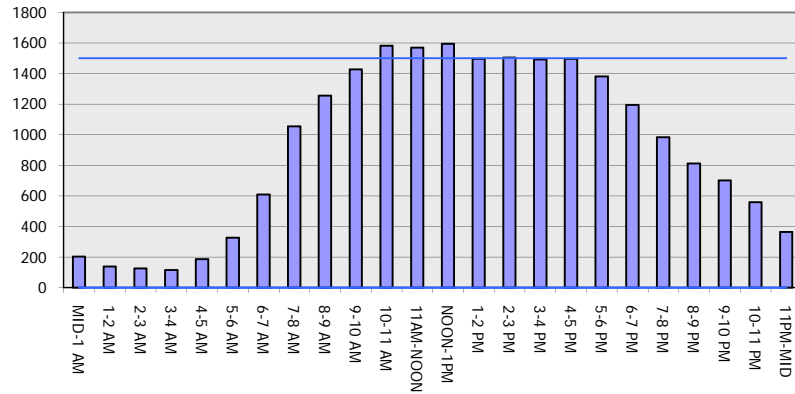
OCTOBER

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Construction Season

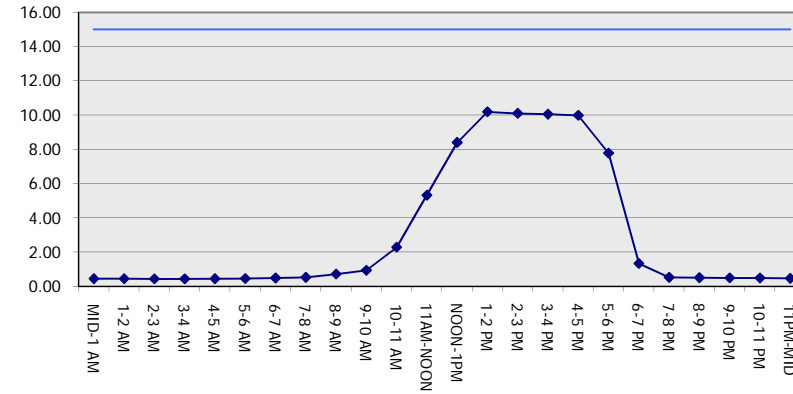
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION

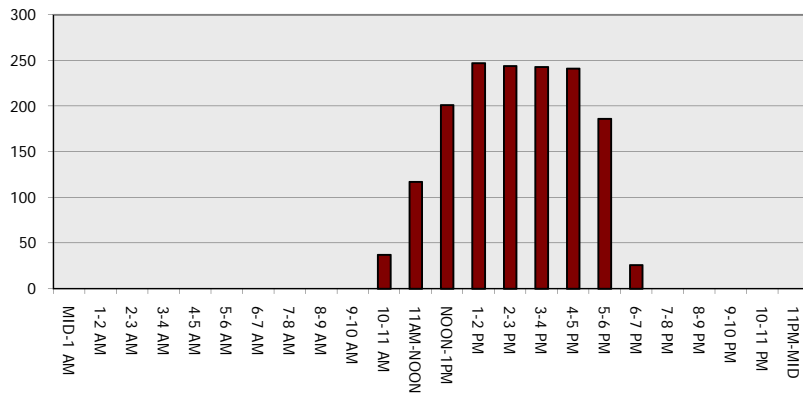
Main Route - Traffic Demand (Vehicles Per Hour)



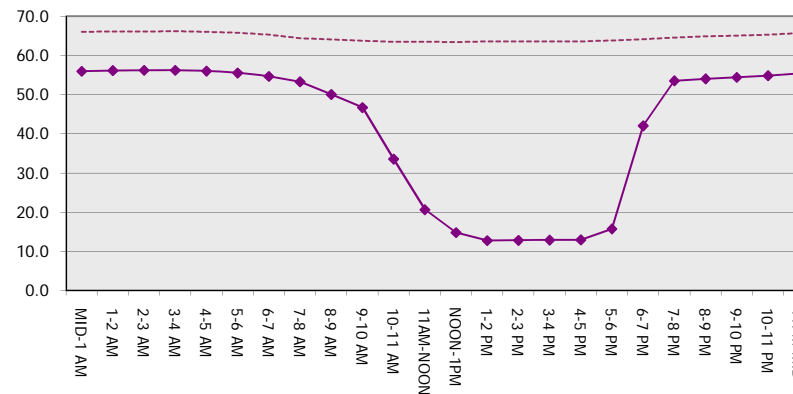
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	235	0.0	1500	235	0	0.45	0	66.0	55.8	44.5
1-2 AM	147	0.0	1500	147	0	0.44	0	66.1	56.1	44.9
2-3 AM	125	0.0	1500	125	0	0.43	0	66.1	56.2	45.0
3-4 AM	117	0.0	1500	117	0	0.43	0	66.1	56.2	45.0
4-5 AM	154	0.0	1500	154	0	0.44	0	66.1	56.1	44.8
5-6 AM	319	0.0	1500	319	0	0.45	0	65.8	55.6	44.2
6-7 AM	444	0.0	1500	444	0	0.47	0	65.6	55.1	43.7
7-8 AM	728	0.0	1500	728	0	0.49	0	65.0	54.3	42.7
8-9 AM	973	0.0	1500	973	0	0.52	0	64.6	53.5	41.8
9-10 AM	1298	0.0	1499	1298	0	0.76	0	64.0	49.2	35.7
10-11 AM	1596	0.0	1499	1596	0	2.17	35	63.4	34.3	30.8
11AM-NOON	1691	0.0	1500	1691	0	7.71	189	63.2	15.8	30.8
NOON-1PM	1644	0.0	1499	1644	0	14.34+	361	63.3	10.4	30.8
1-2 PM	1608	0.0	1499	1493	115	16.37+	414	63.4	9.7	30.8
2-3 PM	1535	0.0	1499	1490	45	16.36+	413	63.5	9.7	30.8
3-4 PM	1548	0.0	1500	1500	48	16.40+	414	63.5	9.7	30.8
4-5 PM	1551	0.0	1500	1500	51	16.40+	414	63.5	9.7	30.8
5-6 PM	1490	0.0	1500	1476	13	16.18+	408	63.6	9.8	30.8
6-7 PM	1252	0.0	1499	1252	0	11.00	281	64.0	12.4	31.3
7-8 PM	1010	0.0	1500	1010	0	1.04	23	64.5	45.6	40.9
8-9 PM	835	0.0	1500	835	0	0.50	0	64.8	54.0	42.3
9-10 PM	686	0.0	1500	686	0	0.49	0	65.1	54.4	42.8
10-11 PM	479	0.0	1500	479	0	0.47	0	65.5	55.1	43.6
11PM-MID	330	0.0	1500	330	0	0.45	0	65.8	55.5	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	0.0094
MAIN ROUTE WITH WORKS	0.0078
'DIVERSION'	0.0003

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$51,609
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
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