

USH 41: USH 10 TO STH 114 (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	447	0.0	1500	447	0	0.53	0	70.2	58.5	43.7	
1-2 AM	283	0.0	1500	283	0	0.51	0	70.2	58.9	44.3	
2-3 AM	298	0.0	1500	298	0	0.51	0	70.2	59.1	44.6	
3-4 AM	210	0.0	1500	210	0	0.50	0	70.2	59.1	44.7	
4-5 AM	190	0.0	1500	190	0	0.51	0	70.2	58.9	44.4	
5-6 AM	480	0.0	1500	480	0	0.53	0	70.1	58.4	43.6	
6-7 AM	671	0.0	1500	671	0	0.55	0	69.9	57.9	42.8	
7-8 AM	1152	0.0	1499	1152	0	0.70	0	69.3	54.9	38.6	
8-9 AM	1816	0.0	1499	1816	0	4.53	119	68.5	25.6	30.8	
9-10 AM	2371	0.0	1499	1506	864	16.26+	399	67.8	9.8	31.5	
10-11 AM	2646	0.0	1500	1500	1146	16.27+	400	67.4	9.7	31.6	
11AM-NOON	3024	0.0	1500	1500	1524	16.25+	400	67.0	9.7	31.6	
NOON-1PM	2983	0.0	1500	1500	1483	16.25+	400	67.0	9.7	31.6	
1-2 PM	2982	0.0	1500	1500	1482	16.25+	400	67.0	9.7	31.6	
2-3 PM	3045	0.0	1500	1500	1545	16.25+	400	66.9	9.7	31.6	
3-4 PM	3125	0.0	1500	1500	1625	16.24+	400	66.8	9.7	31.6	
4-5 PM	2792	0.0	1500	1500	1292	16.26+	400	67.3	9.7	31.6	
5-6 PM	2219	0.0	1500	1525	694	16.21+	397	68.0	9.8	31.2	
6-7 PM	1856	0.0	1499	1547	309	16.15+	394	68.4	9.9	30.8	
7-8 PM	1359	0.0	1500	1359	0	14.29+	349	69.1	10.9	30.8	
8-9 PM	1037	0.0	1499	1037	0	2.35	82	69.4	36.9	38.3	
9-10 PM	726	0.0	1500	726	0	0.56	0	69.8	57.8	42.7	
10-11 PM	400	0.0	1500	400	0	0.52	0	70.2	58.6	43.9	
11PM-MID											

+ 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

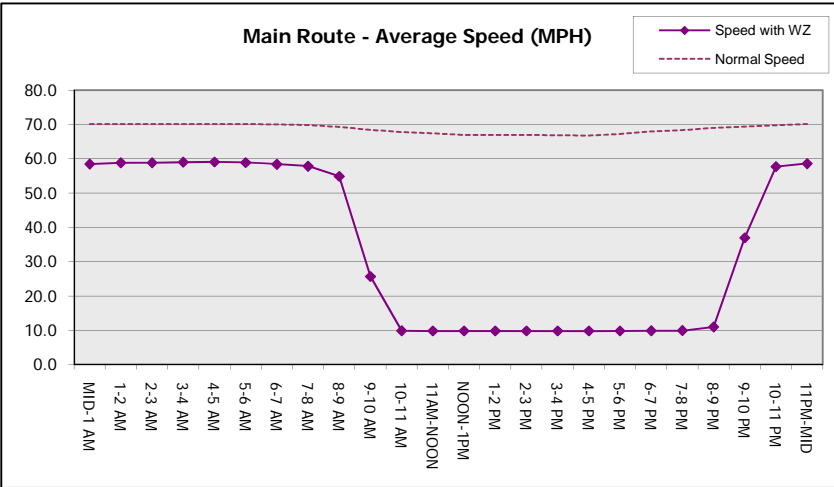
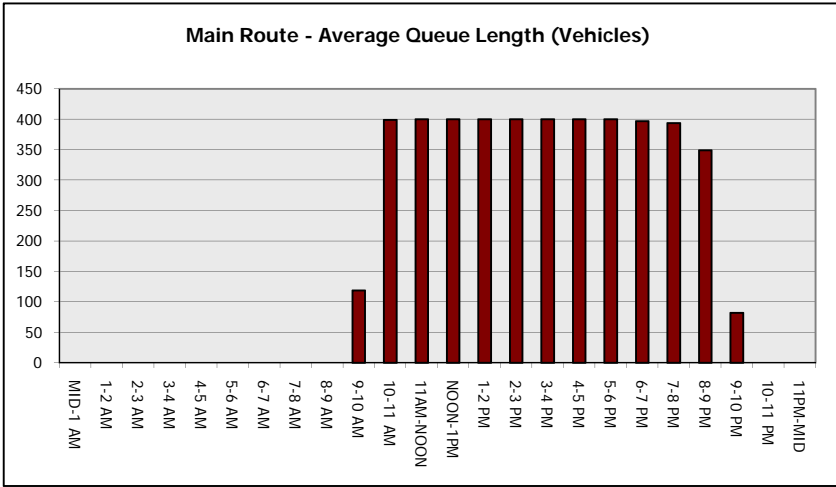
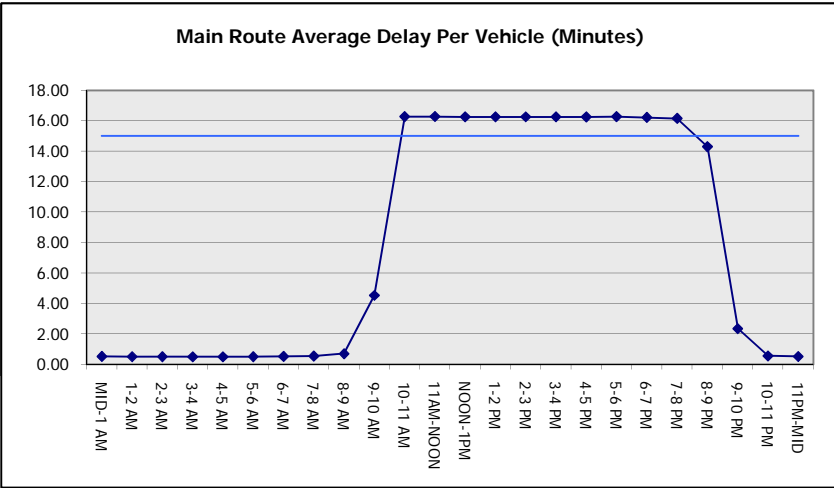
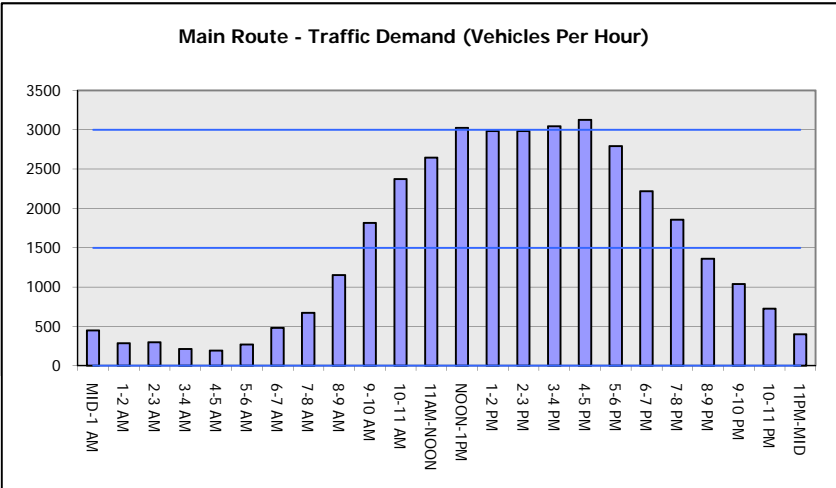
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0180
MAIN ROUTE WITH WORKS	0.0104
'DIVERSION'	0.0137
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$132,230
CONGESTED HOURS PER DAY*	11

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	410	0.0	1500	410	0	0.52	0	70.2	58.6	43.8
1-2 AM	253	0.0	1500	253	0	0.50	0	70.2	59.0	44.5
2-3 AM	219	0.0	1500	219	0	0.50	0	70.2	59.1	44.6
3-4 AM	126	0.0	1500	126	0	0.49	0	70.2	59.2	45.0
4-5 AM	139	0.0	1500	139	0	0.49	0	70.2	59.2	45.0
5-6 AM	346	0.0	1500	346	0	0.51	0	70.2	58.7	44.1
6-7 AM	397	0.0	1500	397	0	0.52	0	70.2	58.6	43.9
7-8 AM	708	0.0	1500	708	0	0.56	0	69.9	57.8	42.7
8-9 AM	1026	0.0	1499	1026	0	0.60	0	69.4	56.8	41.4
9-10 AM	1527	0.0	1499	1527	0	1.65	20	68.8	42.7	32.0
10-11 AM	2146	0.0	1500	1762	385	11.75+	307	68.1	12.9	30.8
11AM-NOON	2510	0.0	1500	1500	1010	16.33+	400	67.6	9.7	30.8
NOON-1PM	2644	0.0	1500	1500	1144	16.32+	400	67.4	9.7	30.8
1-2 PM	2519	0.0	1500	1500	1019	16.33+	400	67.6	9.7	30.8
2-3 PM	2411	0.0	1499	1500	911	16.33+	400	67.8	9.7	30.8
3-4 PM	2621	0.0	1500	1500	1121	16.32+	400	67.5	9.7	30.8
4-5 PM	2510	0.0	1499	1500	1010	16.33+	400	67.6	9.7	30.8
5-6 PM	2477	0.0	1499	1500	977	16.33+	400	67.6	9.7	30.8
6-7 PM	2247	0.0	1500	1500	747	16.34+	400	67.9	9.7	30.8
7-8 PM	1823	0.0	1500	1543	280	16.16+	394	68.5	9.9	30.8
8-9 PM	1456	0.0	1500	1449	6	15.71+	383	68.9	10.1	30.8
9-10 PM	1154	0.0	1499	1154	0	6.42	185	69.3	20.4	34.2
10-11 PM	776	0.0	1500	776	0	0.56	0	69.7	57.6	42.5
11PM-MID	451	0.0	1500	451	0	0.53	0	70.2	58.5	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	0.0162
MAIN ROUTE WITH WORKS	0.0104
'DIVERSION'	0.0098

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$116,397
CONGESTED HOURS PER DAY*	11

*Delays Exceeding User-Specified Maximum

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