

USH 41: USH 10 TO STH 114 (WINNEBAGO COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	471	0.0	OFF	471	0	0.00	0	70.2	70.2	70.2
1-2 AM	326	0.0	OFF	326	0	0.00	0	70.2	70.2	70.2
2-3 AM	271	0.0	OFF	271	0	0.00	0	70.2	70.2	70.2
3-4 AM	206	0.0	OFF	206	0	0.00	0	70.2	70.2	70.2
4-5 AM	336	0.0	OFF	336	0	0.00	0	70.2	70.2	70.2
5-6 AM	503	0.0	OFF	503	0	0.00	0	70.1	70.1	70.1
6-7 AM	910	0.0	OFF	910	0	0.00	0	69.6	69.6	69.6
7-8 AM	1448	0.0	OFF	1448	0	0.00	0	68.9	68.9	68.9
8-9 AM	2101	0.0	3000	2101	0	0.33	0	68.1	60.7	49.7
9-10 AM	2478	0.0	3000	2478	0	0.39	0	67.6	59.3	47.3
10-11 AM	2813	0.0	3000	2813	0	0.61	0	67.3	55.1	40.3
11AM-NOON	2956	0.0	3000	2956	0	0.70	0	67.1	53.5	37.9
NOON-1PM	2869	0.0	3000	2869	0	0.64	0	67.2	54.5	39.4
1-2 PM	2847	0.0	3000	2847	0	0.63	0	67.2	54.8	39.7
2-3 PM	2794	0.0	3000	2794	0	0.59	0	67.3	55.4	40.7
3-4 PM	2606	0.0	3000	2606	0	0.47	0	67.5	57.6	44.4
4-5 PM	2518	0.0	3000	2518	0	0.41	0	67.6	58.7	46.4
5-6 PM	2235	0.0	3000	2235	0	0.33	0	67.9	60.6	49.7
6-7 PM	1852	0.0	OFF	1852	0	0.00	0	68.4	68.4	68.4
7-8 PM	1598	0.0	OFF	1598	0	0.00	0	68.7	68.7	68.7
8-9 PM	1496	0.0	OFF	1496	0	0.00	0	68.9	68.9	68.9
9-10 PM	1575	0.0	OFF	1575	0	0.00	0	68.8	68.8	68.8
10-11 PM	1743	0.0	OFF	1743	0	0.00	0	68.6	68.6	68.6
11PM-MID	1888	0.0	OFF	1888	0	0.00	0	68.4	68.4	68.4

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

----- 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

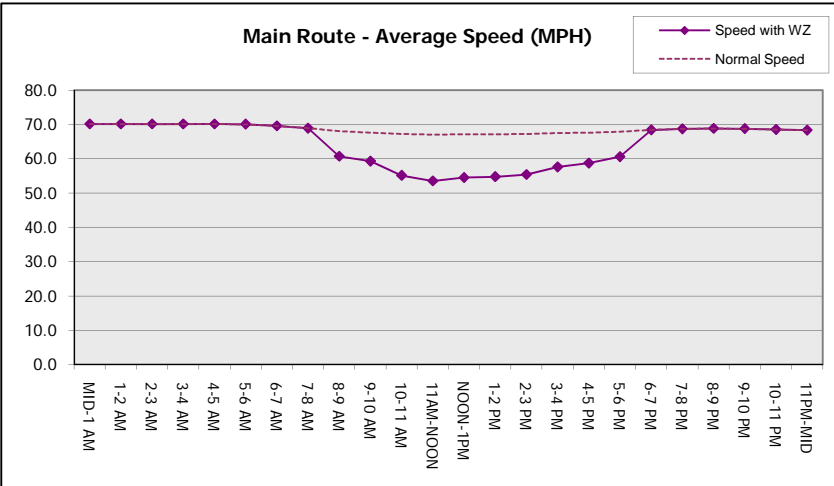
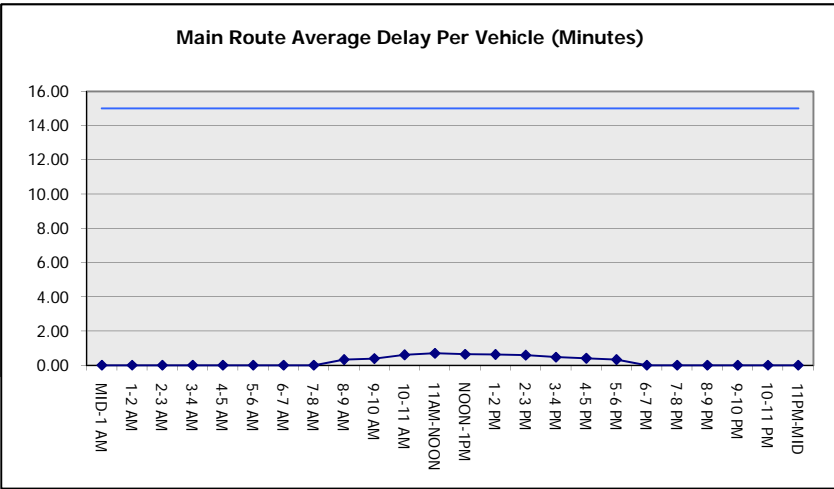
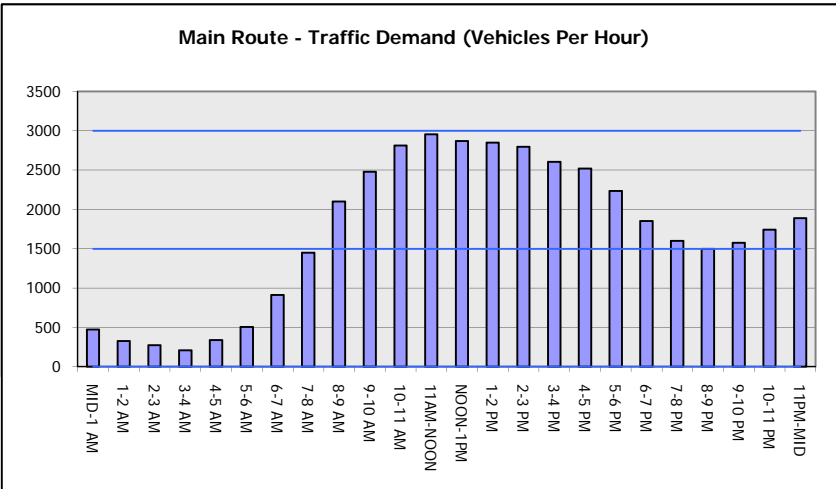
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0202
MAIN ROUTE WITH WORKS	0.0184
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$3,672
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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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	580	0.0	OFF	580	0	0.00	0	70.0	70.0	70.0
1-2 AM	378	0.0	OFF	378	0	0.00	0	70.2	70.2	70.2
2-3 AM	274	0.0	OFF	274	0	0.00	0	70.2	70.2	70.2
3-4 AM	223	0.0	OFF	223	0	0.00	0	70.2	70.2	70.2
4-5 AM	292	0.0	OFF	292	0	0.00	0	70.2	70.2	70.2
5-6 AM	491	0.0	OFF	491	0	0.00	0	70.1	70.1	70.1
6-7 AM	763	0.0	OFF	763	0	0.00	0	69.8	69.8	69.8
7-8 AM	1160	0.0	OFF	1160	0	0.00	0	69.3	69.3	69.3
8-9 AM	1658	0.0	3000	1658	0	0.34	0	68.7	61.0	49.7
9-10 AM	2175	0.0	2999	2175	0	0.33	0	68.0	60.7	49.7
10-11 AM	2877	0.0	2999	2877	0	0.66	0	67.1	54.3	39.4
11AM-NOON	3216	0.0	3000	3216	0	2.23	93	66.8	37.1	37.3
NOON-1PM	3453	0.0	3000	3453	0	8.19	434	66.4	17.1	37.3
1-2 PM	3562	0.0	2999	3222	340	15.61+	823	66.3	11.9	37.3
2-3 PM	3616	0.0	2999	2987	629	16.11+	850	66.1	11.7	37.3
3-4 PM	3494	0.0	2999	2991	503	16.11+	849	66.4	11.7	37.3
4-5 PM	3312	0.0	2999	2993	318	16.11+	848	66.6	11.7	37.3
5-6 PM	3051	0.0	2999	2949	103	16.01+	842	66.9	11.7	37.3
6-7 PM	2240	0.0	OFF	2240	0	0.92	88	67.9	50.8	50.8
7-8 PM	1627	0.0	OFF	1627	0	0.00	0	68.7	68.7	68.7
8-9 PM	1438	0.0	OFF	1438	0	0.00	0	68.9	68.9	68.9
9-10 PM	1231	0.0	OFF	1231	0	0.00	0	69.2	69.2	69.2
10-11 PM	1149	0.0	OFF	1149	0	0.00	0	69.3	69.3	69.3
11PM-MID	784	0.0	OFF	784	0	0.00	0	69.7	69.7	69.7

"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	0.0212
MAIN ROUTE WITH WORKS	0.0184
'DIVERSION'	0.0022

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$83,798
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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