

USH 41: USH 10 TO STH 114 (WINNEBAGO COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	301	0.0	OFF	301	0	0.00	0	70.2	70.2	70.2
1-2 AM	215	0.0	OFF	215	0	0.00	0	70.2	70.2	70.2
2-3 AM	221	0.0	OFF	221	0	0.00	0	70.2	70.2	70.2
3-4 AM	259	0.0	OFF	259	0	0.00	0	70.2	70.2	70.2
4-5 AM	509	0.0	OFF	509	0	0.00	0	70.1	70.1	70.1
5-6 AM	1218	0.0	OFF	1218	0	0.00	0	69.2	69.2	69.2
6-7 AM	2494	0.0	OFF	2494	0	0.00	0	67.6	67.6	67.6
7-8 AM	3513	0.0	OFF	3513	0	0.00	0	66.4	66.4	66.4
8-9 AM	2831	0.0	OFF	2831	0	0.00	0	67.2	67.2	67.2
9-10 AM	2280	0.0	OFF	2280	0	0.00	0	67.9	67.9	67.9
10-11 AM	2230	0.0	1499	1863	367	11.00+	290	67.9	13.5	30.8
11AM-NOON	2314	0.0	1500	1500	814	16.34+	400	67.9	9.7	30.8
NOON-1PM	2415	0.0	1500	1500	915	16.33+	400	67.8	9.7	30.8
1-2 PM	2682	0.0	1500	1500	1182	16.32+	400	67.4	9.7	30.8
2-3 PM	2976	0.0	1500	1500	1476	16.30+	400	67.0	9.7	30.8
3-4 PM	3287	0.0	OFF	3287	0	0.27	24	66.6	60.7	60.7
4-5 PM	3786	0.0	OFF	3786	0	0.00	0	65.0	65.0	65.0
5-6 PM	3470	0.0	OFF	3470	0	0.00	0	66.4	66.4	66.4
6-7 PM	2155	0.0	OFF	2155	0	0.00	0	68.1	68.1	68.1
7-8 PM	1574	0.0	OFF	1574	0	0.00	0	68.8	68.8	68.8
8-9 PM	1418	0.0	OFF	1418	0	0.00	0	69.0	69.0	69.0
9-10 PM	1216	0.0	OFF	1216	0	0.00	0	69.2	69.2	69.2
10-11 PM	930	0.0	OFF	930	0	0.00	0	69.6	69.6	69.6
11PM-MID	510	0.0	OFF	510	0	0.00	0	70.1	70.1	70.1

"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

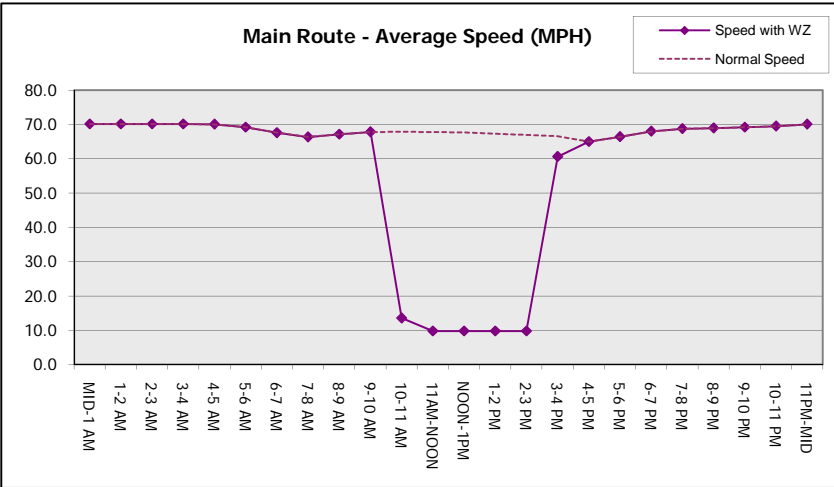
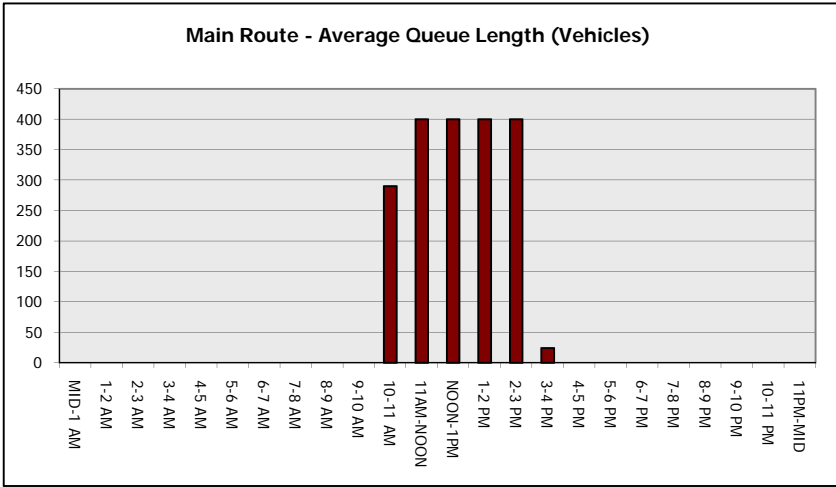
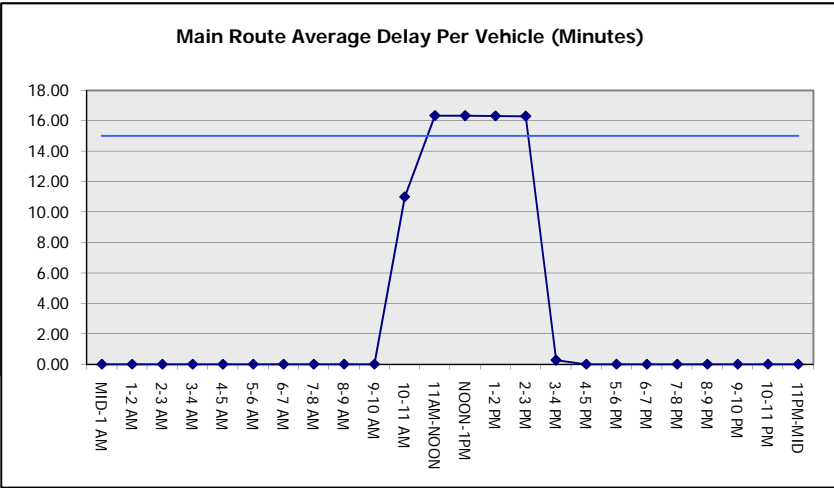
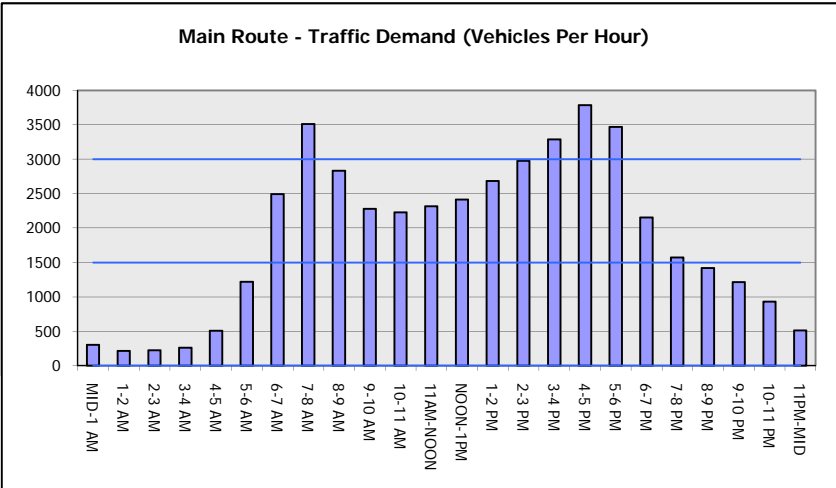
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0221
MAIN ROUTE WITH WORKS	0.0192
'DIVERSION'	0.0054
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$42,785
CONGESTED HOURS PER DAY*	5

*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	292	0.0	OFF	292	0	0.00	0	70.2	70.2	70.2
1-2 AM	208	0.0	OFF	208	0	0.00	0	70.2	70.2	70.2
2-3 AM	181	0.0	OFF	181	0	0.00	0	70.2	70.2	70.2
3-4 AM	219	0.0	OFF	219	0	0.00	0	70.2	70.2	70.2
4-5 AM	431	0.0	OFF	431	0	0.00	0	70.2	70.2	70.2
5-6 AM	1224	0.0	OFF	1224	0	0.00	0	69.2	69.2	69.2
6-7 AM	2290	0.0	OFF	2290	0	0.00	0	67.9	67.9	67.9
7-8 AM	3676	0.0	OFF	3676	0	0.00	0	65.8	65.8	65.8
8-9 AM	2602	0.0	OFF	2602	0	0.00	0	67.5	67.5	67.5
9-10 AM	2286	0.0	OFF	2286	0	0.00	0	67.9	67.9	67.9
10-11 AM	2339	0.0	1499	1908	431	11.69+	302	67.8	12.9	30.8
11AM-NOON	2463	0.0	1500	1500	963	16.33+	400	67.7	9.7	30.8
NOON-1PM	2531	0.0	1500	1500	1031	16.33+	400	67.6	9.7	30.8
1-2 PM	2574	0.0	1500	1500	1074	16.32+	400	67.6	9.7	30.8
2-3 PM	2898	0.0	1500	1500	1398	16.31+	400	67.1	9.7	30.8
3-4 PM	3489	0.0	OFF	3489	0	0.43	33	66.4	57.6	57.6
4-5 PM	3851	0.0	OFF	3851	0	0.00	0	64.5	64.5	64.5
5-6 PM	3499	0.0	OFF	3499	0	0.00	0	66.4	66.4	66.4
6-7 PM	2313	0.0	OFF	2313	0	0.00	0	67.9	67.9	67.9
7-8 PM	1534	0.0	OFF	1534	0	0.00	0	68.8	68.8	68.8
8-9 PM	1365	0.0	OFF	1365	0	0.00	0	69.1	69.1	69.1
9-10 PM	1116	0.0	OFF	1116	0	0.00	0	69.4	69.4	69.4
10-11 PM	783	0.0	OFF	783	0	0.00	0	69.7	69.7	69.7
11PM-MID	580	0.0	OFF	580	0	0.00	0	70.0	70.0	70.0

"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	0.0221
MAIN ROUTE WITH WORKS	0.0191
'DIVERSION'	0.0056

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$43,822
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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