

USH 41: USH 10 TO STH 114 (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	336	0.0	3000	336	0	0.36	0	70.2	61.8	49.7
1-2 AM	242	0.0	3000	242	0	0.36	0	70.2	61.8	49.7
2-3 AM	242	0.0	3000	242	0	0.36	0	70.2	61.8	49.7
3-4 AM	315	0.0	3000	315	0	0.36	0	70.2	61.8	49.7
4-5 AM	595	0.0	3000	595	0	0.36	0	70.0	61.7	49.7
5-6 AM	1395	0.0	3000	1395	0	0.34	0	69.0	61.2	49.7
6-7 AM	2698	0.0	2999	2698	0	0.52	0	67.4	56.7	43.2
7-8 AM	3663	0.0	2999	3663	0	5.60	325	65.8	22.2	37.3
8-9 AM	2890	0.0	2999	2890	0	12.39	643	67.1	13.2	37.3
9-10 AM	2513	0.0	2999	2513	0	5.79	320	67.6	21.8	39.4
10-11 AM	2500	0.0	3000	2500	0	0.47	4	67.6	57.8	46.6
11AM-NOON	2583	0.0	3000	2583	0	0.46	0	67.5	57.9	44.9
NOON-1PM	2711	0.0	2999	2711	0	0.54	0	67.4	56.3	42.2
1-2 PM	2991	0.0	2999	2991	0	0.83	7	67.0	51.5	37.9
2-3 PM	3278	0.0	3000	3278	0	3.25	154	66.6	30.8	37.3
3-4 PM	3491	0.0	3000	3491	0	9.97	531	66.4	15.2	37.3
4-5 PM	4010	0.0	2999	3041	969	16.06+	855	63.5	11.7	37.3
5-6 PM	3734	0.0	3000	3003	731	16.08+	850	65.3	11.7	37.3
6-7 PM	2366	0.0	2999	2366	0	10.58+	589	67.8	15.0	40.4
7-8 PM	1705	0.0	3000	1705	0	0.55	18	68.6	57.1	49.7
8-9 PM	1550	0.0	3000	1550	0	0.34	0	68.8	61.1	49.7
9-10 PM	1333	0.0	3000	1333	0	0.35	0	69.1	61.2	49.7
10-11 PM	1054	0.0	3000	1054	0	0.35	0	69.4	61.4	49.7
11PM-MID	704	0.0	3000	704	0	0.36	0	69.9	61.6	49.7

+ 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

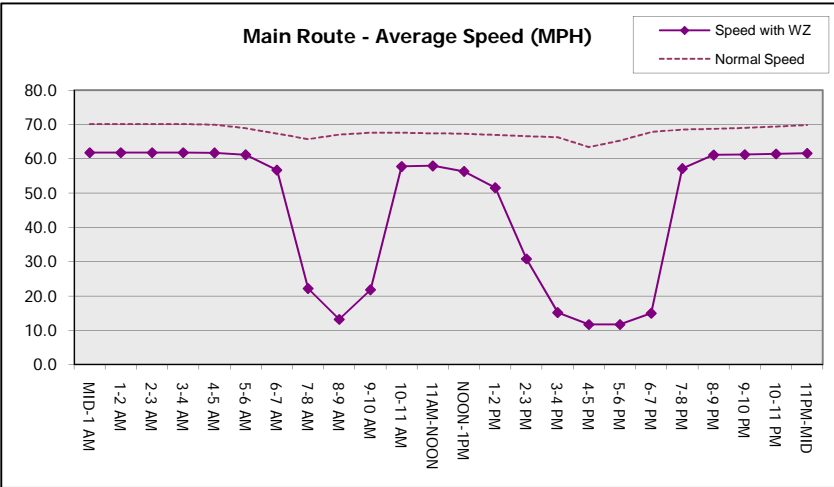
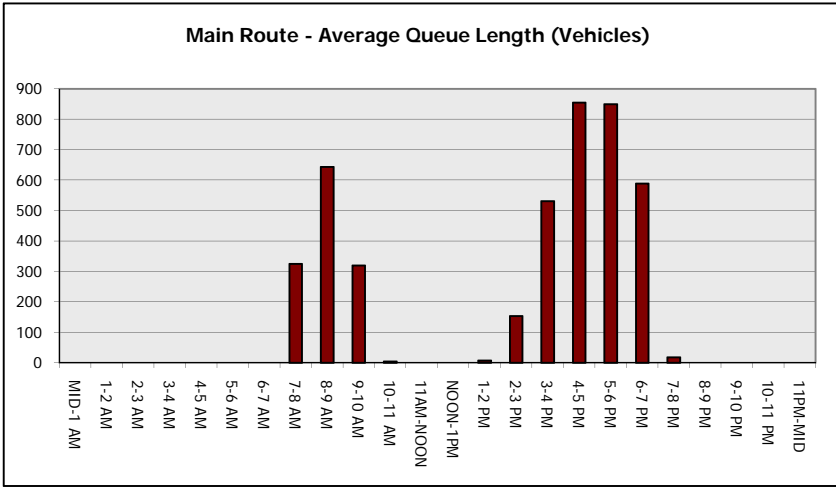
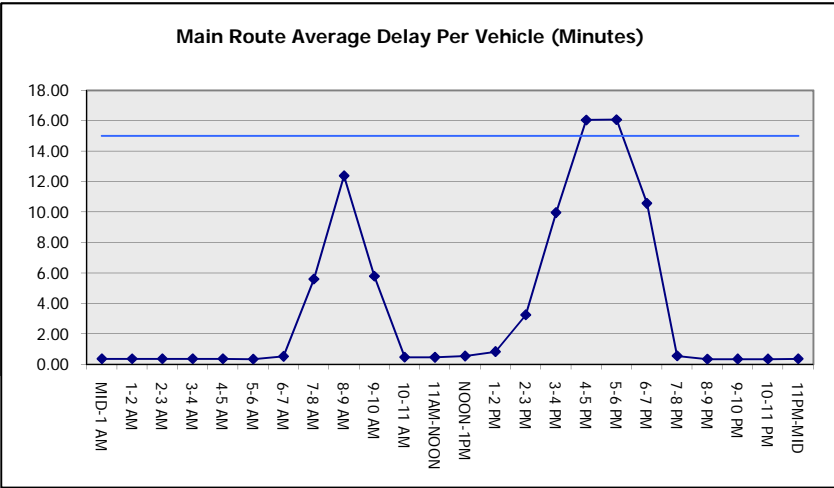
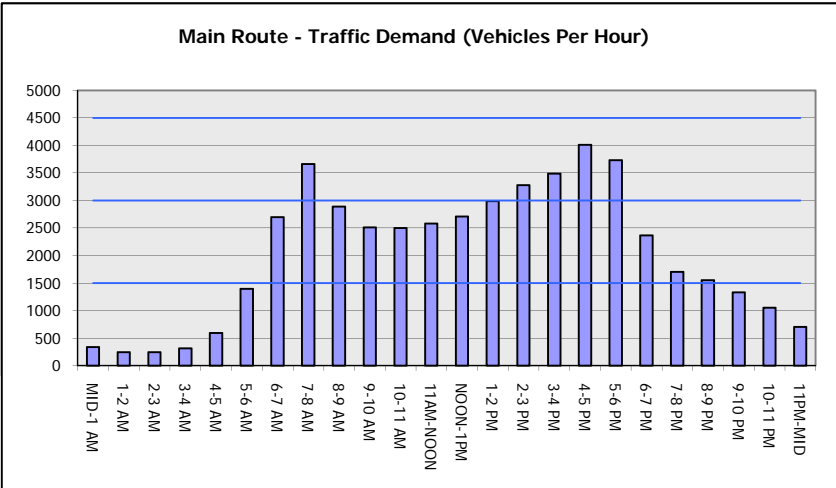
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0241
MAIN ROUTE WITH WORKS	0.0202
'DIVERSION'	0.0019
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$61,470
CONGESTED HOURS PER DAY*	3

*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	354	0.0	3000	354	0	0.36	0	70.2	61.8	49.7
1-2 AM	260	0.0	3000	260	0	0.36	0	70.2	61.8	49.7
2-3 AM	224	0.0	3000	224	0	0.36	0	70.2	61.8	49.7
3-4 AM	248	0.0	3000	248	0	0.36	0	70.2	61.8	49.7
4-5 AM	478	0.0	3000	478	0	0.36	0	70.1	61.8	49.7
5-6 AM	1338	0.0	3000	1338	0	0.35	0	69.1	61.2	49.7
6-7 AM	2410	0.0	2999	2410	0	0.43	0	67.8	58.5	46.0
7-8 AM	3754	0.0	2999	3754	0	6.15	365	65.2	21.1	37.3
8-9 AM	2771	0.0	2999	2771	0	12.97+	677	67.3	12.9	37.3
9-10 AM	2559	0.0	2999	2559	0	5.70	307	67.6	22.0	38.7
10-11 AM	2698	0.0	3000	2698	0	0.71	10	67.4	53.7	42.1
11AM-NOON	2807	0.0	3000	2807	0	0.60	0	67.3	55.2	40.4
NOON-1PM	2780	0.0	3000	2780	0	0.59	0	67.3	55.5	40.9
1-2 PM	2892	0.0	2999	2892	0	0.66	0	67.1	54.3	39.0
2-3 PM	3246	0.0	2999	3246	0	2.19	94	66.7	37.3	37.3
3-4 PM	3793	0.0	3000	3696	98	10.71+	595	65.0	14.7	37.3
4-5 PM	4275	0.0	2999	2924	1351	16.19+	868	61.7	11.6	37.3
5-6 PM	3963	0.0	2999	2991	972	16.06+	854	63.8	11.7	37.3
6-7 PM	2580	0.0	2999	2580	0	13.52+	716	67.5	12.7	37.6
7-8 PM	1742	0.0	3000	1742	0	1.14	85	68.6	48.3	49.7
8-9 PM	1467	0.0	3000	1467	0	0.34	0	68.9	61.1	49.7
9-10 PM	1210	0.0	3000	1210	0	0.35	0	69.2	61.3	49.7
10-11 PM	927	0.0	3000	927	0	0.35	0	69.6	61.5	49.7
11PM-MID	679	0.0	3000	679	0	0.36	0	69.9	61.7	49.7

+ 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	0.0244
MAIN ROUTE WITH WORKS	0.0201
'DIVERSION'	0.0028

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$66,928
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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