

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

FRIDAY 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	513	0.0	3000	513	0	0.36	0	70.1	61.7	49.7
1-2 AM	293	0.0	3000	293	0	0.36	0	70.2	61.8	49.7
2-3 AM	291	0.0	3000	291	0	0.36	0	70.2	61.8	49.7
3-4 AM	336	0.0	3000	336	0	0.36	0	70.2	61.8	49.7
4-5 AM	553	0.0	3000	553	0	0.36	0	70.0	61.7	49.7
5-6 AM	1221	0.0	3000	1221	0	0.35	0	69.2	61.3	49.7
6-7 AM	2407	0.0	2999	2407	0	0.42	0	67.8	58.8	46.5
7-8 AM	3254	0.0	2999	3254	0	2.56	115	66.7	34.7	37.3
8-9 AM	2788	0.0	2999	2788	0	3.53	165	67.3	29.6	38.2
9-10 AM	2674	0.0	3000	2674	0	0.56	2	67.4	56.0	42.8
10-11 AM	2857	0.0	2999	2857	0	0.63	0	67.2	54.6	39.6
11AM-NOON	3059	0.0	2999	3059	0	1.01	16	66.9	49.1	37.3
NOON-1PM	3269	0.0	3000	3269	0	3.73	178	66.7	28.6	37.3
1-2 PM	3549	0.0	3000	3549	0	10.89+	584	66.3	14.3	37.3
2-3 PM	3893	0.0	2999	2992	901	16.04+	851	64.3	11.7	37.3
3-4 PM	4012	0.0	2999	2991	1020	16.01+	852	63.5	11.7	37.3
4-5 PM	4231	0.0	2999	2996	1234	16.06+	860	62.0	11.7	37.3
5-6 PM	3618	0.0	3000	2998	621	16.11+	850	66.1	11.7	37.3
6-7 PM	2504	0.0	2999	2504	0	12.43+	663	67.6	13.4	38.0
7-8 PM	1816	0.0	3000	1816	0	0.94	60	68.5	50.9	49.7
8-9 PM	1539	0.0	3000	1539	0	0.34	0	68.8	61.1	49.7
9-10 PM	1475	0.0	3000	1475	0	0.34	0	68.9	61.1	49.7
10-11 PM	1222	0.0	3000	1222	0	0.35	0	69.2	61.3	49.7
11PM-MID	737	0.0	3000	737	0	0.35	0	69.8	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

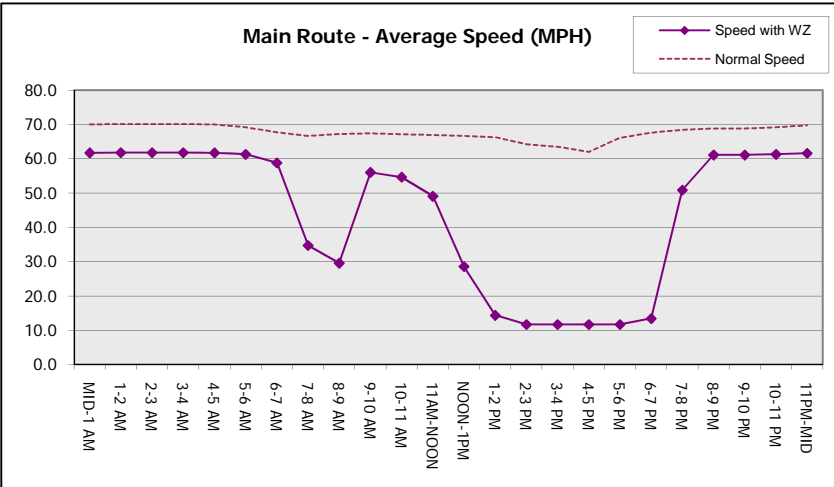
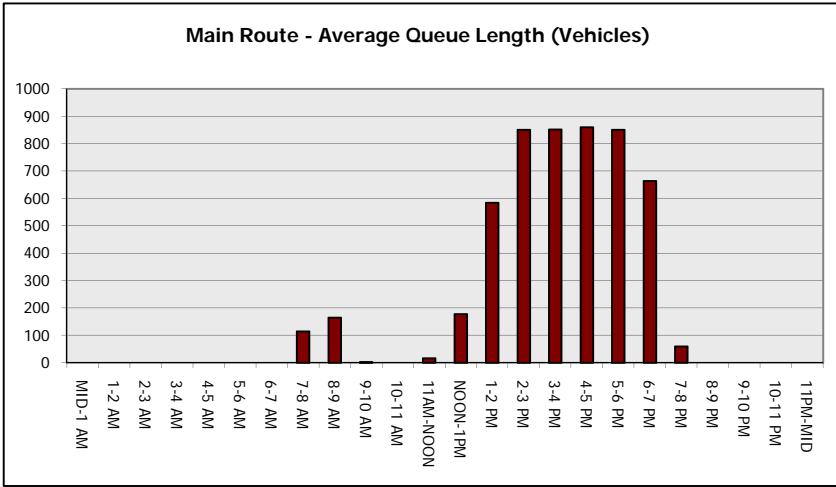
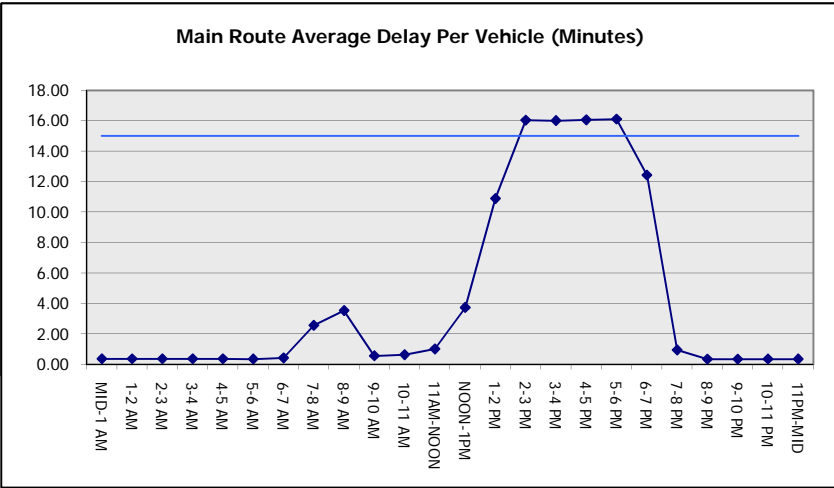
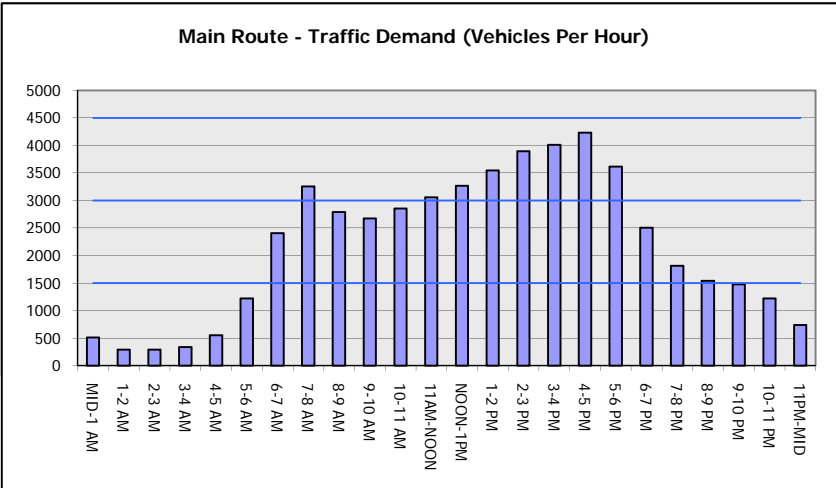
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0257
MAIN ROUTE WITH WORKS	0.0207
'DIVERSION'	0.0043
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$83,292
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	447	0.0	3000	447	0	0.36	0	70.2	61.8	49.7
1-2 AM	301	0.0	3000	301	0	0.36	0	70.2	61.8	49.7
2-3 AM	283	0.0	3000	283	0	0.36	0	70.2	61.8	49.7
3-4 AM	272	0.0	3000	272	0	0.36	0	70.2	61.8	49.7
4-5 AM	488	0.0	3000	488	0	0.36	0	70.1	61.8	49.7
5-6 AM	1236	0.0	3000	1236	0	0.35	0	69.2	61.3	49.7
6-7 AM	2219	0.0	2999	2219	0	0.36	0	68.0	60.0	48.4
7-8 AM	3393	0.0	2999	3393	0	3.51	180	66.5	29.5	37.3
8-9 AM	2720	0.0	2999	2720	0	5.42	273	67.4	22.7	38.0
9-10 AM	2747	0.0	3000	2747	0	0.91	21	67.3	50.6	40.8
10-11 AM	3048	0.0	2999	3048	0	0.96	14	66.9	49.7	37.4
11AM-NOON	3278	0.0	3000	3278	0	3.80	183	66.6	28.2	37.3
NOON-1PM	3444	0.0	3000	3444	0	10.34	546	66.4	14.7	37.3
1-2 PM	3596	0.0	2999	3021	575	16.12+	850	66.3	11.7	37.3
2-3 PM	3997	0.0	3000	3042	955	16.07+	855	63.5	11.7	37.3
3-4 PM	4353	0.0	3000	3029	1325	16.11+	865	61.1	11.6	37.3
4-5 PM	4648	0.0	2999	3009	1639	16.30+	883	59.1	11.6	37.3
5-6 PM	4437	0.0	3000	2986	1451	16.21+	873	60.5	11.6	37.3
6-7 PM	3541	0.0	3000	2995	546	16.12+	849	66.3	11.7	37.3
7-8 PM	2747	0.0	2999	2738	9	14.72+	773	67.3	12.2	37.3
8-9 PM	2055	0.0	2999	2055	0	2.47	215	68.2	35.8	46.2
9-10 PM	1692	0.0	3000	1692	0	0.34	0	68.6	61.0	49.7
10-11 PM	1281	0.0	3000	1281	0	0.35	0	69.1	61.2	49.7
11PM-MID	1017	0.0	3000	1017	0	0.35	0	69.5	61.4	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	0.0282
MAIN ROUTE WITH WORKS	0.0217
'DIVERSION'	0.0074

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$120,030
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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