

<b>USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)</b> <b>NIGHTTIME CLOSURE</b> <b>DIVERSION ROUTE: STH 21 - USH 45</b>	<b>AUGUST</b>
	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		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	366	0.0	94	0.0	1500	366	0	94	0.46	0	65.7	52.0	44.0	22.4	22.4
1-2 AM	233	0.0	60	0.0	1500	233	0	60	0.45	0	66.0	52.5	44.5	22.8	22.8
2-3 AM	192	0.0	49	0.0	1500	192	0	49	0.44	0	66.0	52.6	44.7	23.0	23.0
3-4 AM	155	0.0	39	0.0	1500	155	0	39	0.44	0	66.1	52.7	44.8	23.1	23.1
4-5 AM	270	0.0	69	0.0	1500	270	0	69	0.45	0	65.9	52.3	44.4	22.7	22.7
5-6 AM	435	0.0	111	0.0	1500	435	0	111	0.46	0	65.6	51.7	43.8	22.2	22.2
6-7 AM	781	0.0	199	0.0	1500	781	0	199	0.50	0	65.0	50.6	42.5	21.0	21.0
7-8 AM	1276	0.0	325	0.0	1499	1276	0	325	0.72	0	64.0	45.6	36.6	19.4	19.4
8-9 AM	1958	0.0	499	0.0	OFF	1958	0	499	0.00	0	62.7	62.7	62.7	17.1	17.1
9-10 AM	2320	0.0	592	0.0	OFF	2320	0	592	0.00	0	62.0	62.0	62.0	15.9	15.9
10-11 AM	2676	0.0	682	0.0	OFF	2676	0	682	0.00	0	59.1	59.1	59.1	14.7	14.7
11A-NOON	2767	0.0	705	0.0	OFF	2767	0	705	0.00	0	58.1	58.1	58.1	14.4	14.4
NOON-1PM	2733	0.0	697	0.0	OFF	2733	0	697	0.00	0	58.5	58.5	58.5	14.5	14.5
1-2 PM	2604	0.0	664	0.0	OFF	2604	0	664	0.00	0	59.8	59.8	59.8	15.0	15.0
2-3 PM	2566	0.0	655	0.0	OFF	2566	0	655	0.00	0	60.2	60.2	60.2	15.1	15.1
3-4 PM	2361	0.0	602	0.0	OFF	2361	0	602	0.00	0	62.0	62.0	62.0	15.8	15.8
4-5 PM	2241	0.0	571	0.0	OFF	2241	0	571	0.00	0	62.2	62.2	62.2	16.1	16.1
5-6 PM	1961	0.0	500	0.0	OFF	1961	0	500	0.00	0	62.7	62.7	62.7	17.1	17.1
6-7 PM	1596	0.0	407	0.0	1499	1596	0	407	3.28	64	63.4	22.5	30.8	18.3	18.3
7-8 PM	1413	0.0	360	0.0	1499	1413	0	360	3.20	63	63.8	22.9	31.5	18.9	18.9
8-9 PM	1222	0.0	311	0.0	1500	1222	0	311	0.67	0	64.1	46.6	37.8	19.6	19.6
9-10 PM	1173	0.0	300	0.0	1500	1173	0	300	0.60	0	64.2	47.9	39.3	19.7	19.7
10-11 PM	1303	0.0	332	0.0	1500	1303	0	332	0.77	0	64.0	44.6	35.4	19.3	19.3
11PM-MID	1329	0.0	339	0.0	1500	1329	0	339	0.80	0	63.9	44.1	34.7	19.2	19.2

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

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0109
MAIN ROUTE WITH WORKS	0.0101
DIVERSION	0.0341

PIA: Personal Injury Accidents

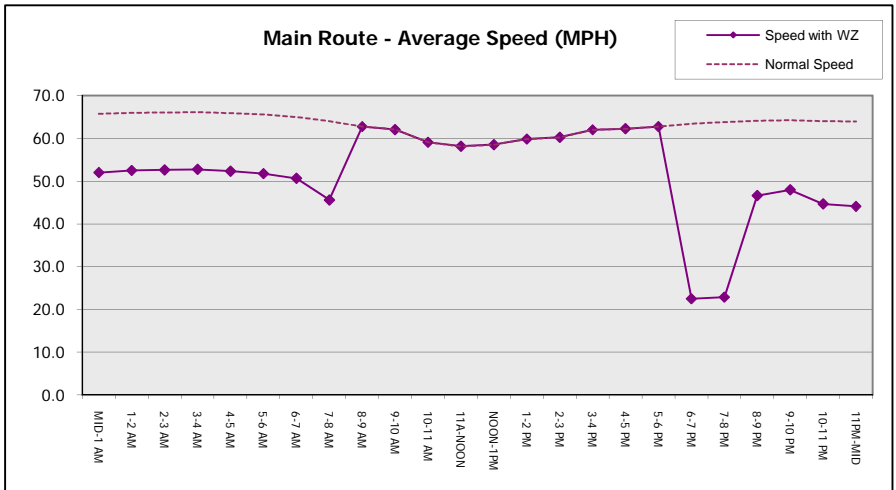
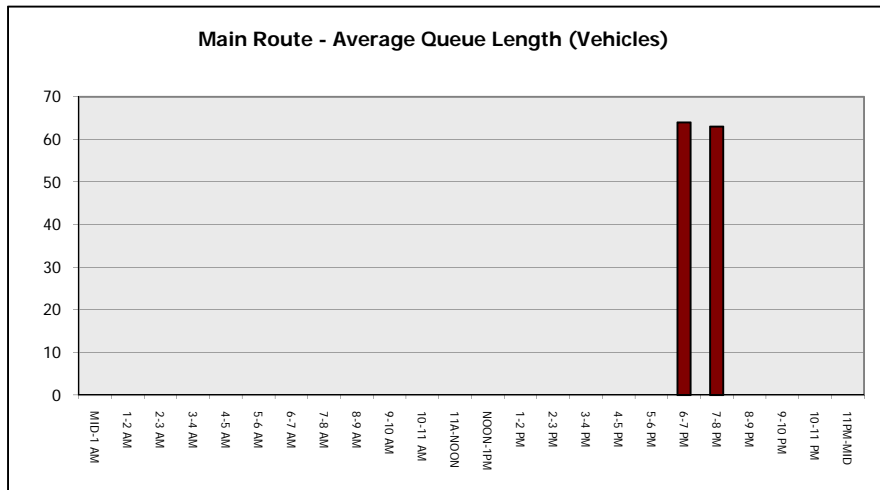
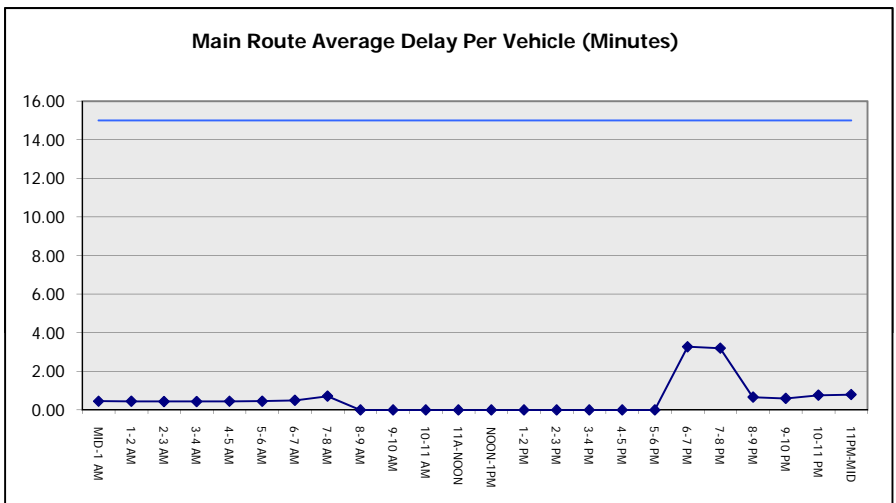
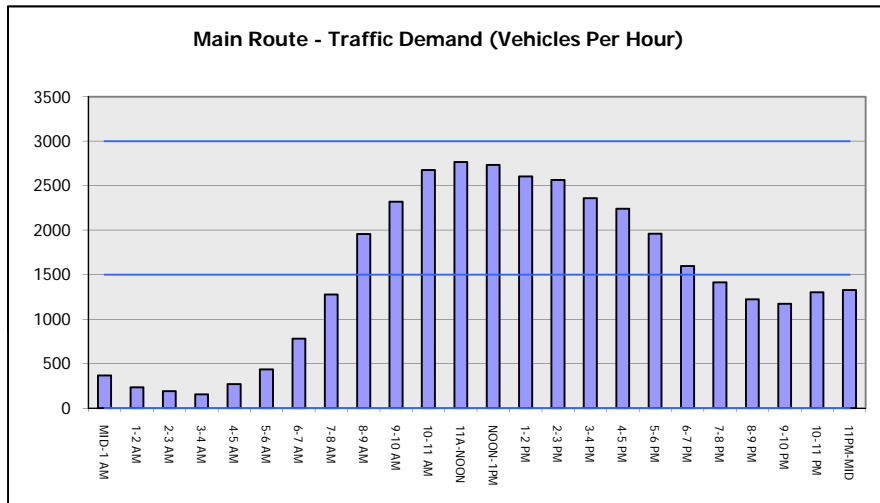
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$4,203
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)  
 NIGHTTIME CLOSURE  
 DIVERSION ROUTE: STH 21 - USH 45**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY SOUTHBOUND DIRECTION**



<b>USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: STH 21 - USH 45</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
SATURDAY	NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	426	0.0	108	0.0	1500	426	0	108	0.46	0	65.6	51.8	43.8	20.7	20.7
1-2 AM	284	0.0	72	0.0	1500	284	0	72	0.45	0	65.8	52.3	44.3	21.7	21.7
2-3 AM	189	0.0	48	0.0	1500	189	0	48	0.44	0	66.0	52.6	44.7	22.3	22.3
3-4 AM	180	0.0	46	0.0	1500	180	0	46	0.44	0	66.1	52.7	44.8	22.4	22.4
4-5 AM	220	0.0	57	0.0	1500	220	0	57	0.44	0	66.0	52.5	44.6	22.1	22.1
5-6 AM	449	0.0	114	0.0	1500	449	0	114	0.47	0	65.6	51.7	43.7	20.6	20.6
6-7 AM	659	0.0	168	0.0	1500	659	0	168	0.49	0	65.1	51.0	42.9	19.2	19.2
7-8 AM	1032	0.0	264	0.0	1499	1032	0	264	0.53	0	64.5	49.6	41.3	16.6	16.6
8-9 AM	1463	0.0	373	0.0	OFF	1463	0	373	0.00	0	63.7	63.7	63.7	13.8	13.8
9-10 AM	2002	0.0	511	0.0	OFF	2002	0	511	0.00	0	62.7	62.7	62.7	11.3	11.3
10-11 AM	2549	0.0	649	0.0	OFF	2549	0	649	0.00	0	60.4	60.4	60.4	9.2	9.2
11A-NOON	2745	0.0	700	0.0	OFF	2745	0	700	0.00	0	58.4	58.4	58.4	8.4	8.4
NOON-1PM	2771	0.0	706	0.0	OFF	2771	0	706	0.00	0	58.1	58.1	58.1	8.3	8.3
1-2 PM	2797	0.0	713	0.0	OFF	2797	0	713	0.00	0	57.9	57.9	57.9	8.2	8.2
2-3 PM	2719	0.0	693	0.0	OFF	2719	0	693	0.00	0	58.6	58.6	58.6	8.5	8.5
3-4 PM	2653	0.0	676	0.0	OFF	2653	0	676	0.00	0	59.3	59.3	59.3	8.8	8.8
4-5 PM	2528	0.0	644	0.0	OFF	2528	0	644	0.00	0	60.6	60.6	60.6	9.3	9.3
5-6 PM	2283	0.0	583	0.0	OFF	2283	0	583	0.00	0	62.2	62.2	62.2	10.2	10.2
6-7 PM	1739	0.0	444	0.0	1499	1739	0	444	6.03	149	63.2	15.2	30.8	12.4	12.7
7-8 PM	1324	0.0	338	0.0	1499	1324	0	338	6.89	168	63.9	13.8	31.7	14.7	15.1
8-9 PM	1156	0.0	294	0.0	1500	1156	0	294	0.75	6	64.2	45.2	39.6	15.8	15.8
9-10 PM	992	0.0	253	0.0	1500	992	0	253	0.52	0	64.5	49.9	41.7	16.9	16.9
10-11 PM	814	0.0	208	0.0	1500	814	0	208	0.50	0	64.9	50.5	42.4	18.1	18.1
11PM-MID	566	0.0	144	0.0	1500	566	0	144	0.48	0	65.3	51.3	43.3	19.8	19.8

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

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0105
MAIN ROUTE WITH WORKS	0.0098
DIVERSION	0.0328

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$6,368
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)**  
**NIGHTTIME CLOSURE**  
**DIVERSION ROUTE: STH 21 - USH 45**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY NORTHBOUND DIRECTION**

