

<b>USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)</b> <b>CONTINUOUS (24 HOUR) 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	1499	1875	83	582	6.46	180	62.7	15.0	30.8	17.1	16.7
9-10 AM	2320	0.0	592	0.0	1499	1680	640	1232	18.25	468	62.0	8.3	30.8	15.9	12.0
10-11 AM	2676	0.0	682	0.0	1499	1686	990	1673+	25.29	662	59.1	7.3	30.8	14.7	10.1
11A-NOON	2767	0.0	705	0.0	1499	1560	1207	1912+	29.41	775	58.1	7.0	30.8	14.4	9.3
NOON-1PM	2733	0.0	697	0.0	1499	1479	1254	1951+	30.02	790	58.5	6.9	30.8	14.5	9.2
1-2 PM	2604	0.0	664	0.0	1499	1424	1180	1844+	28.20	739	59.8	7.1	30.8	15.0	9.5
2-3 PM	2566	0.0	655	0.0	1500	1469	1097	1752+	26.51	692	60.2	7.2	30.8	15.1	9.8
3-4 PM	2361	0.0	602	0.0	1499	1403	958	1560+	23.84	618	62.0	7.5	30.8	15.8	10.4
4-5 PM	2241	0.0	571	0.0	1500	1423	818	1389	21.05	542	62.2	7.8	30.8	16.1	11.1
5-6 PM	1961	0.0	500	0.0	1499	1354	607	1108	16.45	418	62.7	8.7	30.8	17.1	12.8
6-7 PM	1596	0.0	407	0.0	1499	1363	232	639	10.98	271	63.4	10.5	30.8	18.3	16.5
7-8 PM	1413	0.0	360	0.0	1500	1408	6	366	7.59	178	63.8	12.7	30.8	18.9	19.3
8-9 PM	1222	0.0	311	0.0	1500	1222	0	311	1.42	30	64.1	35.6	36.3	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

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- 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	0.0064
DIVERSION	0.0679

PIA: Personal Injury Accidents

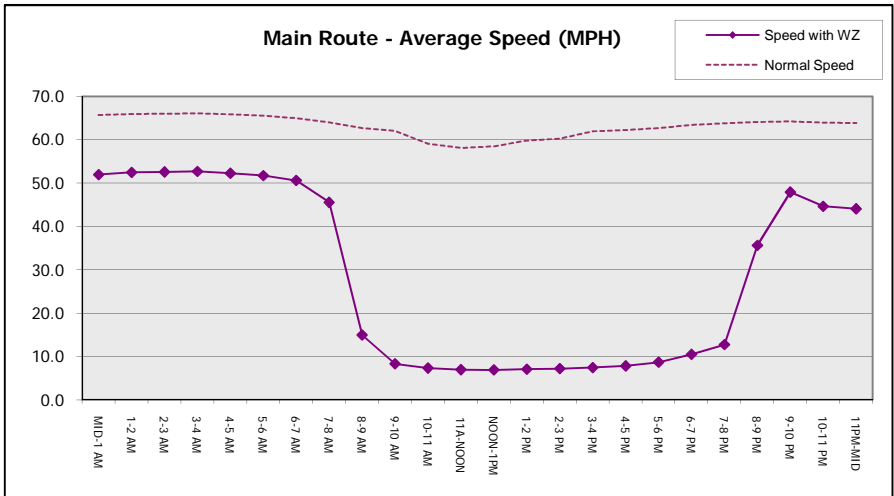
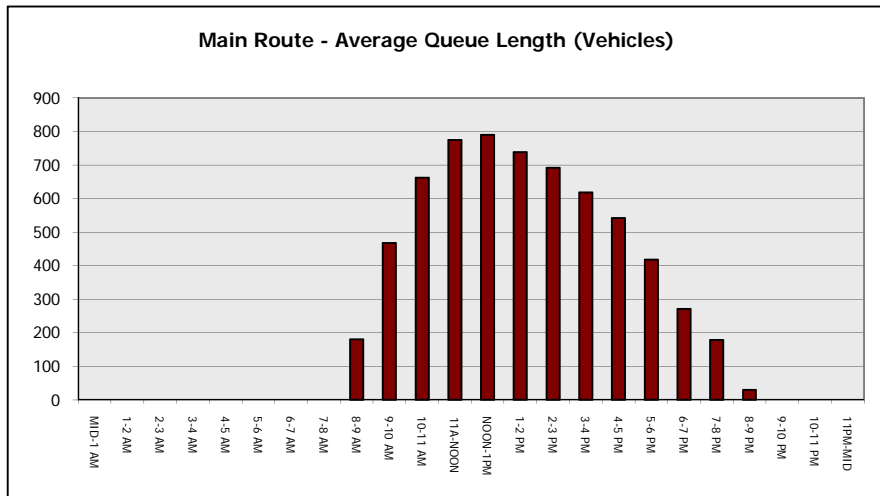
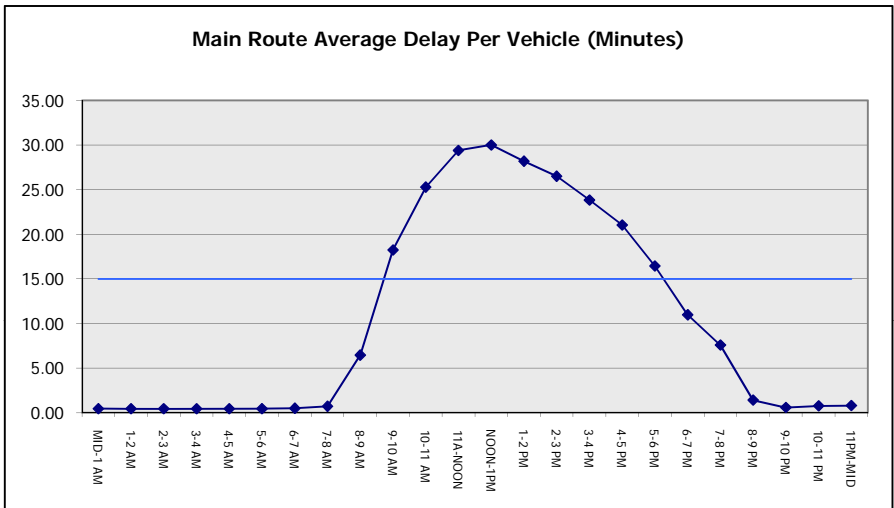
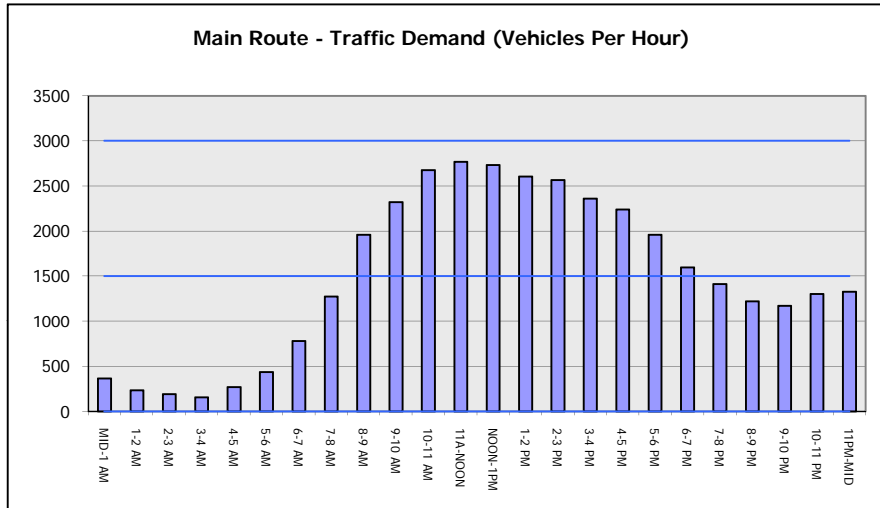
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$187,778
CONGESTED HOURS PER DAY*	9

\*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)**  
**CONTINUOUS (24 HOUR) 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)                  CONTINUOUS (24 HOUR) CLOSURE                  DIVERSION ROUTE: STH 21, USH 45</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

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	1499	1463	0	373	1.23	10	63.7	37.8	32.6	13.8	13.8
9-10 AM	2002	0.0	511	0.0	1500	1994	8	518	9.17	257	62.7	12.0	30.8	11.3	12.2
10-11 AM	2549	0.0	649	0.0	1499	1760	789	1438+	28.35	743	60.4	7.1	30.8	9.2	9.5
11A-NOON	2745	0.0	700	0.0	1499	1504	1242	1942+	30.14	794	58.4	6.9	30.8	8.4	9.2
NOON-1PM	2771	0.0	706	0.0	1499	1499	1273	1979+	30.20	796	58.1	6.9	30.8	8.3	9.2
1-2 PM	2797	0.0	713	0.0	1499	1499	1298	2012+	30.26	798	57.9	6.9	30.8	8.2	9.1
2-3 PM	2719	0.0	693	0.0	1499	1493	1225	1918+	30.11	792	58.6	6.9	30.8	8.5	9.2
3-4 PM	2653	0.0	676	0.0	1499	1494	1159	1835+	29.97	788	59.3	6.9	30.8	8.8	9.2
4-5 PM	2528	0.0	644	0.0	1499	1499	1029	1674+	29.92	784	60.6	6.9	30.8	9.3	9.3
5-6 PM	2283	0.0	583	0.0	1499	1497	786	1368+	29.96	782	62.2	7.0	30.8	10.2	9.3
6-7 PM	1739	0.0	444	0.0	1499	1302	436	880+	27.09	705	63.2	7.1	30.8	12.4	9.7
7-8 PM	1324	0.0	338	0.0	1499	1156	167	505	15.35	396	63.9	9.1	30.8	14.7	13.6
8-9 PM	1156	0.0	294	0.0	1499	1156	0	294	2.51	91	64.2	27.0	36.6	15.8	16.0
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

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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	0.0059
DIVERSION	0.0679

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$226,715
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)  
CONTINUOUS (24 HOUR) CLOSURE  
DIVERSION ROUTE: STH 21, USH 45**

**AUGUST**  
Analyzed for 2009  
Construction Season

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

