

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

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	355	0.0	91	0.0	OFF	355	0	91	0.00	0	65.7	65.7	65.7	22.4	22.4
1-2 AM	219	0.0	56	0.0	OFF	219	0	56	0.00	0	66.0	66.0	66.0	22.9	22.9
2-3 AM	191	0.0	48	0.0	OFF	191	0	48	0.00	0	66.0	66.0	66.0	23.0	23.0
3-4 AM	160	0.0	41	0.0	OFF	160	0	41	0.00	0	66.1	66.1	66.1	23.0	23.0
4-5 AM	173	0.0	44	0.0	OFF	173	0	44	0.00	0	66.1	66.1	66.1	23.0	23.0
5-6 AM	271	0.0	69	0.0	OFF	271	0	69	0.00	0	65.9	65.9	65.9	22.7	22.7
6-7 AM	430	0.0	109	0.0	OFF	430	0	109	0.00	0	65.6	65.6	65.6	22.2	22.2
7-8 AM	625	0.0	160	0.0	OFF	625	0	160	0.00	0	65.2	65.2	65.2	21.5	21.5
8-9 AM	1012	0.0	258	0.0	OFF	1012	0	258	0.00	0	64.5	64.5	64.5	20.2	20.2
9-10 AM	1528	0.0	389	0.0	1499	1528	0	389	1.54	22	63.5	34.2	32.2	18.5	18.5
10-11 AM	2259	0.0	575	0.0	1500	1936	324	899	12.95	347	62.2	9.9	30.8	16.1	14.7
11A-NOON	2757	0.0	703	0.0	1499	1761	996	1699+	25.69	676	58.2	7.3	30.8	14.4	10.0
NOON-1PM	2899	0.0	739	0.0	1500	1518	1381	2120+	30.41	804	56.8	6.9	30.8	14.0	9.1
1-2 PM	2957	0.0	754	0.0	1500	1514	1444	2197+	30.55	809	56.2	6.8	30.8	13.8	9.1
2-3 PM	3328	0.0	848	0.0	1500	1500	1828	2676+	30.86	826	52.4	6.8	30.8	12.7	9.0
3-4 PM	3408	0.0	869	0.0	1500	1500	1908	2777+	30.78	826	51.6	6.8	30.8	12.6	9.0
4-5 PM	3354	0.0	856	0.0	1500	1500	1854	2709+	30.83	826	52.2	6.8	30.8	12.7	9.0
5-6 PM	3038	0.0	774	0.0	1500	1479	1558	2332+	30.82	819	55.4	6.8	30.8	13.5	9.1
6-7 PM	2516	0.0	641	0.0	1500	1324	1192	1833+	28.12	736	60.7	7.1	30.8	15.2	9.5
7-8 PM	1828	0.0	466	0.0	OFF	1828	0	466	1.38	89	63.0	35.7	35.7	17.5	17.5
8-9 PM	1164	0.0	296	0.0	OFF	1164	0	296	0.00	0	64.2	64.2	64.2	19.7	19.7
9-10 PM	756	0.0	193	0.0	OFF	756	0	193	0.00	0	65.0	65.0	65.0	21.1	21.1
10-11 PM	558	0.0	142	0.0	OFF	558	0	142	0.00	0	65.3	65.3	65.3	21.7	21.7
11PM-MID	520	0.0	133	0.0	OFF	520	0	133	0.00	0	65.4	65.4	65.4	21.9	21.9

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

+ 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	0.0110
MAIN ROUTE WITH WORKS	0.0062
DIVERSION	0.0810

PIA: Personal Injury Accidents

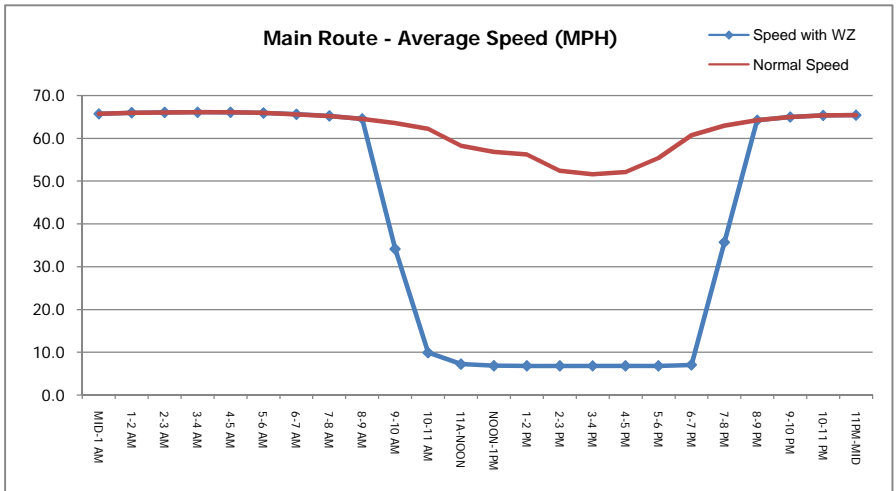
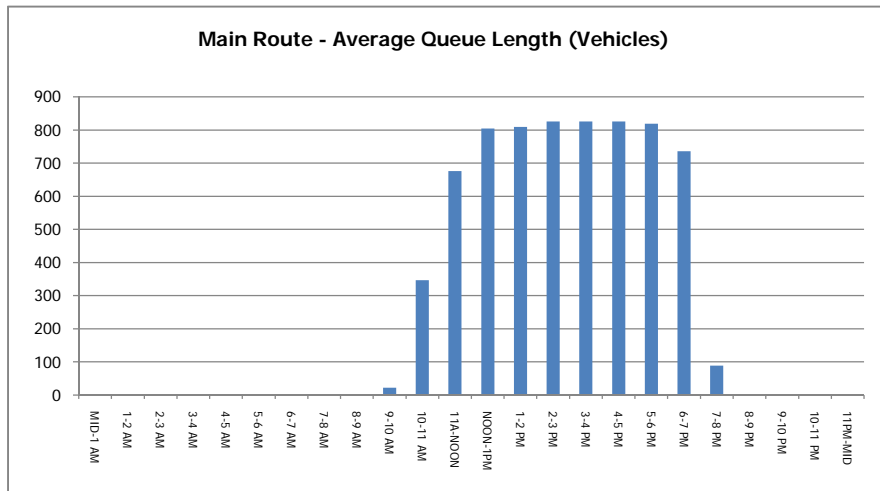
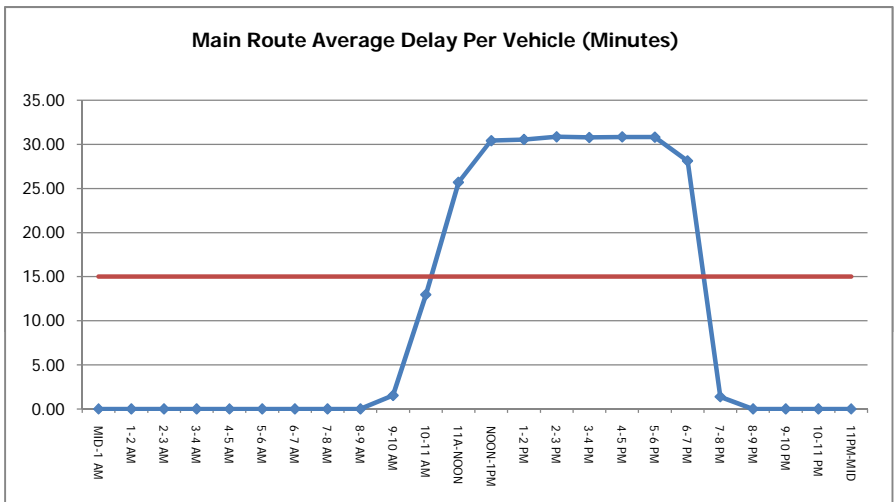
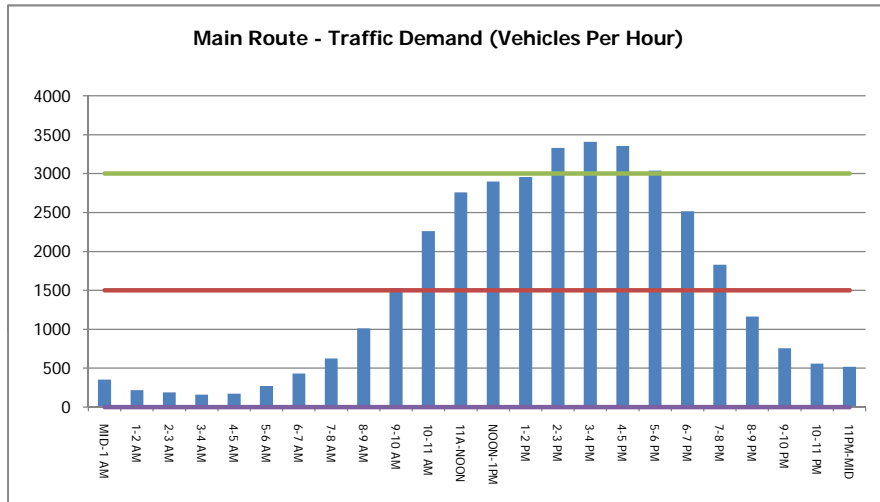
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$239,396
CONGESTED HOURS PER DAY*	8

\*Delays Exceeding 15 Minutes

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

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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



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

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			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		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	292	0.0	74	0.0	OFF	292	0	74	0.00	0	65.8	65.8	65.8	21.6	21.6
1-2 AM	197	0.0	50	0.0	OFF	197	0	50	0.00	0	66.0	66.0	66.0	22.3	22.3
2-3 AM	146	0.0	37	0.0	OFF	146	0	37	0.00	0	66.1	66.1	66.1	22.6	22.6
3-4 AM	110	0.0	28	0.0	OFF	110	0	28	0.00	0	66.2	66.2	66.2	22.9	22.9
4-5 AM	124	0.0	31	0.0	OFF	124	0	31	0.00	0	66.1	66.1	66.1	22.8	22.8
5-6 AM	278	0.0	71	0.0	OFF	278	0	71	0.00	0	65.9	65.9	65.9	21.7	21.7
6-7 AM	335	0.0	85	0.0	OFF	335	0	85	0.00	0	65.8	65.8	65.8	21.4	21.4
7-8 AM	534	0.0	136	0.0	OFF	534	0	136	0.00	0	65.4	65.4	65.4	20.0	20.0
8-9 AM	1169	0.0	298	0.0	OFF	1169	0	298	0.00	0	64.2	64.2	64.2	15.8	15.8
9-10 AM	1594	0.0	407	0.0	1499	1594	0	407	1.87	28	63.4	31.1	30.8	12.9	13.0
10-11 AM	1778	0.0	453	0.0	1500	1778	0	453	8.69	220	63.1	12.0	30.8	12.2	12.9
11A-NOON	1998	0.0	510	0.0	1499	1816	182	691	20.84	541	62.7	7.9	30.8	11.4	11.3
NOON-1PM	2183	0.0	557	0.0	1499	1588	595	1152+	29.47	769	62.3	7.0	30.8	10.6	9.3
1-2 PM	2186	0.0	558	0.0	1499	1501	686	1244+	29.94	782	62.3	7.0	30.8	10.6	9.3
2-3 PM	2255	0.0	575	0.0	1499	1501	754	1330+	29.95	782	62.2	7.0	30.8	10.3	9.3
3-4 PM	2359	0.0	601	0.0	1499	1500	859	1460+	29.97	783	62.0	7.0	30.8	9.9	9.3
4-5 PM	2235	0.0	569	0.0	1499	1499	736	1305+	29.95	782	62.2	7.0	30.8	10.4	9.3
5-6 PM	2014	0.0	514	0.0	1499	1496	518	1032+	29.90	780	62.7	7.0	30.8	11.3	9.3
6-7 PM	1726	0.0	440	0.0	1499	1306	420	860+	26.43	687	63.2	7.2	30.8	12.4	9.9
7-8 PM	1395	0.0	355	0.0	OFF	1395	0	355	1.00	64	63.8	40.9	40.9	14.2	14.2
8-9 PM	929	0.0	237	0.0	OFF	929	0	237	0.00	0	64.6	64.6	64.6	17.3	17.3
9-10 PM	690	0.0	176	0.0	OFF	690	0	176	0.00	0	65.1	65.1	65.1	18.9	18.9
10-11 PM	498	0.0	127	0.0	OFF	498	0	127	0.00	0	65.5	65.5	65.5	20.2	20.2
11PM-MID	283	0.0	72	0.0	OFF	283	0	72	0.00	0	65.9	65.9	65.9	21.7	21.7

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

+ 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	0.0083
MAIN ROUTE WITH WORKS	0.0058
DIVERSION	0.0436

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$158,451
CONGESTED HOURS PER DAY*	8

\*Delays Exceeding 15 Minutes

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

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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

