

<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>AUGUST</b>
	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		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	351	0.0	90	0.0	OFF	351	0	90	0.00	0	65.7	65.7	65.7	22.4	22.4
1-2 AM	240	0.0	62	0.0	OFF	240	0	62	0.00	0	66.0	66.0	66.0	22.8	22.8
2-3 AM	216	0.0	56	0.0	OFF	216	0	56	0.00	0	66.0	66.0	66.0	22.9	22.9
3-4 AM	282	0.0	72	0.0	OFF	282	0	72	0.00	0	65.9	65.9	65.9	22.7	22.7
4-5 AM	492	0.0	126	0.0	OFF	492	0	126	0.00	0	65.5	65.5	65.5	22.0	22.0
5-6 AM	1077	0.0	275	0.0	OFF	1077	0	275	0.00	0	64.4	64.4	64.4	20.0	20.0
6-7 AM	1914	0.0	488	0.0	OFF	1914	0	488	0.00	0	62.8	62.8	62.8	17.3	17.3
7-8 AM	2680	0.0	683	0.0	OFF	2680	0	683	0.00	0	59.1	59.1	59.1	14.7	14.7
8-9 AM	2359	0.0	601	0.0	OFF	2359	0	601	0.00	0	62.0	62.0	62.0	15.8	15.8
9-10 AM	2352	0.0	599	0.0	OFF	2352	0	599	0.00	0	62.0	62.0	62.0	15.8	15.8
10-11 AM	2527	0.0	644	0.0	1499	2129	398	1043	14.91	408	60.6	9.3	30.8	15.2	13.9
11A-NOON	2674	0.0	681	0.0	1499	1611	1063	1745+	26.35	690	59.1	7.2	30.8	14.7	9.8
NOON-1PM	2815	0.0	717	0.0	1500	1571	1245	1962+	29.60	781	57.6	7.0	30.8	14.2	9.3
1-2 PM	2969	0.0	757	0.0	1499	1511	1457	2214+	30.57	810	56.1	6.8	30.8	13.7	9.1
2-3 PM	3289	0.0	838	0.0	1499	1500	1789	2627+	30.89	826	52.8	6.8	30.8	12.9	9.0
3-4 PM	3433	0.0	875	0.0	OFF	3433	0	875	8.37	538	51.4	10.7	10.7	12.5	12.5
4-5 PM	3449	0.0	879	0.0	OFF	3449	0	879	1.01	59	51.2	35.2	35.2	12.5	12.5
5-6 PM	2955	0.0	753	0.0	OFF	2955	0	753	0.00	0	56.2	56.2	56.2	13.8	13.8
6-7 PM	2214	0.0	564	0.0	OFF	2214	0	564	0.00	0	62.3	62.3	62.3	16.3	16.3
7-8 PM	1596	0.0	407	0.0	OFF	1596	0	407	0.00	0	63.4	63.4	63.4	18.3	18.3
8-9 PM	1290	0.0	328	0.0	OFF	1290	0	328	0.00	0	64.0	64.0	64.0	19.3	19.3
9-10 PM	1113	0.0	284	0.0	OFF	1113	0	284	0.00	0	64.3	64.3	64.3	19.9	19.9
10-11 PM	1004	0.0	256	0.0	OFF	1004	0	256	0.00	0	64.5	64.5	64.5	20.2	20.2
11PM-MID	629	0.0	161	0.0	OFF	629	0	161	0.00	0	65.2	65.2	65.2	21.5	21.5

"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	0.0133
MAIN ROUTE WITH WORKS	0.0109
DIVERSION	0.0639

PIA: Personal Injury Accidents

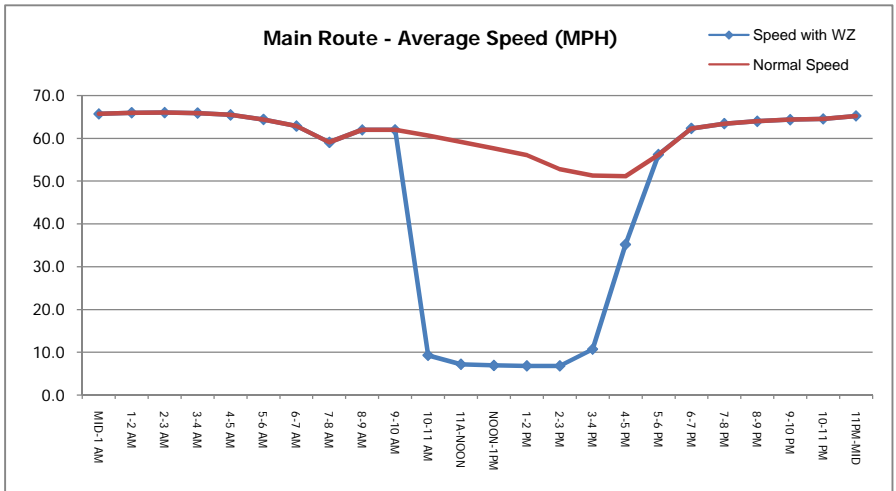
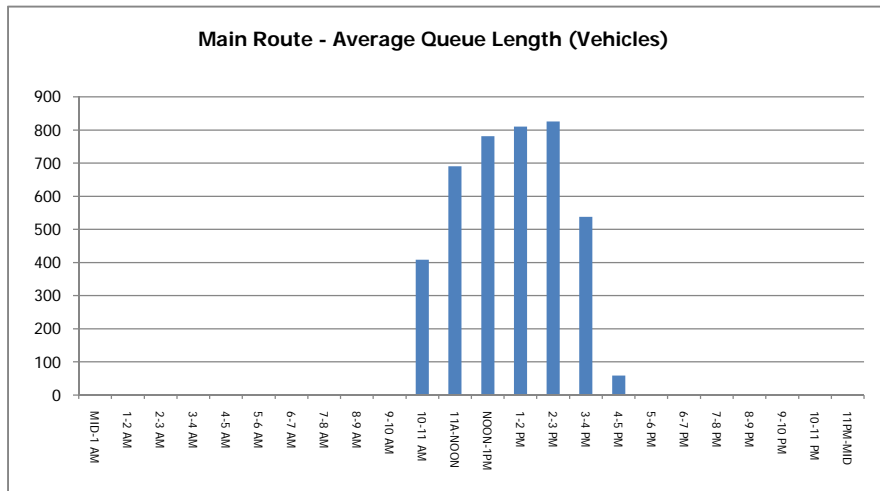
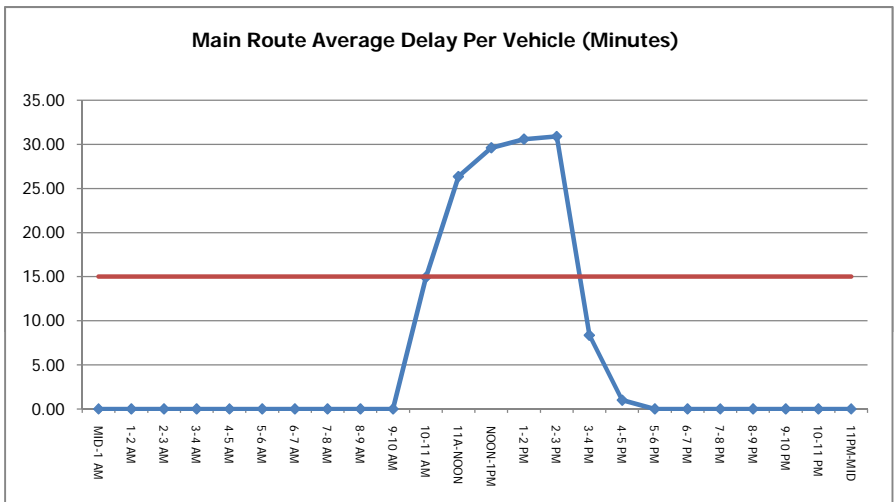
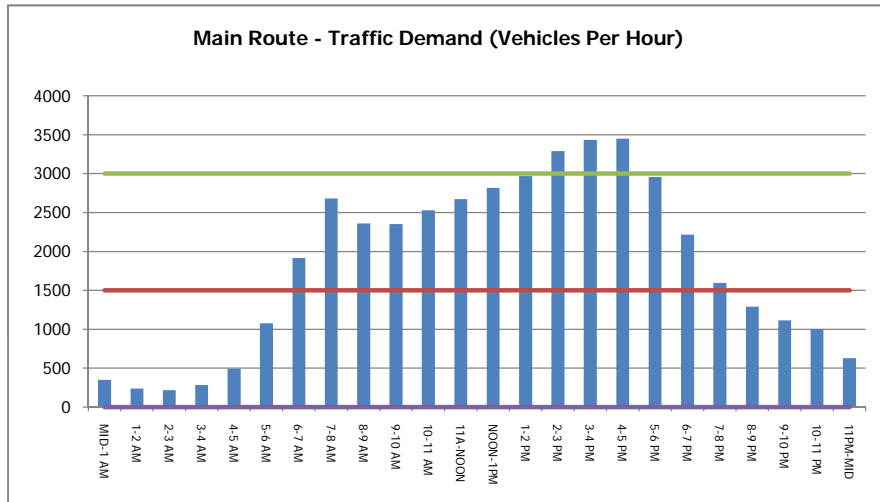
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$95,634
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding 15 Minutes

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

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY 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>AUGUST</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
FRIDAY	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	312	0.0	79	0.0	OFF	312	0	79	0.00	0	65.8	65.8	65.8	21.5	21.5
1-2 AM	208	0.0	54	0.0	OFF	208	0	54	0.00	0	66.0	66.0	66.0	22.2	22.2
2-3 AM	208	0.0	52	0.0	OFF	208	0	52	0.00	0	66.0	66.0	66.0	22.2	22.2
3-4 AM	249	0.0	64	0.0	OFF	249	0	64	0.00	0	66.0	66.0	66.0	21.9	21.9
4-5 AM	369	0.0	94	0.0	OFF	369	0	94	0.00	0	65.7	65.7	65.7	21.1	21.1
5-6 AM	966	0.0	246	0.0	OFF	966	0	246	0.00	0	64.6	64.6	64.6	17.1	17.1
6-7 AM	1744	0.0	445	0.0	OFF	1744	0	445	0.00	0	63.2	63.2	63.2	12.4	12.4
7-8 AM	2380	0.0	606	0.0	OFF	2380	0	606	0.00	0	62.0	62.0	62.0	9.8	9.8
8-9 AM	2032	0.0	518	0.0	OFF	2032	0	518	0.00	0	62.6	62.6	62.6	11.2	11.2
9-10 AM	2183	0.0	557	0.0	OFF	2183	0	557	0.00	0	62.3	62.3	62.3	10.6	10.6
10-11 AM	2465	0.0	628	0.0	1499	2329	136	764+	15.55	447	61.2	9.3	30.8	9.5	10.4
11A-NOON	2647	0.0	675	0.0	1500	1481	1165	1840+	30.03	789	59.4	6.9	30.8	8.8	9.2
NOON-1PM	2806	0.0	715	0.0	1500	1501	1305	2021+	30.27	799	57.8	6.9	30.8	8.1	9.1
1-2 PM	3026	0.0	771	0.0	1500	1513	1513	2284+	30.70	815	55.5	6.8	30.8	7.7	9.1
2-3 PM	3191	0.0	813	0.0	1500	1503	1689	2502+	30.96	826	53.8	6.8	30.8	7.3	9.0
3-4 PM	3399	0.0	867	0.0	OFF	3399	0	867+	8.18	525	51.7	11.0	11.0	7.0	7.0
4-5 PM	3497	0.0	891	0.0	OFF	3497	0	891+	0.86	50	50.7	36.6	36.6	6.8	6.8
5-6 PM	3460	0.0	882	0.0	OFF	3460	0	882+	0.00	0	51.0	51.0	51.0	6.8	6.8
6-7 PM	3006	0.0	766	0.0	OFF	3006	0	766+	0.00	0	55.7	55.7	55.7	7.7	7.7
7-8 PM	2389	0.0	609	0.0	OFF	2389	0	609	0.00	0	61.9	61.9	61.9	9.8	9.8
8-9 PM	1842	0.0	469	0.0	OFF	1842	0	469	0.00	0	63.0	63.0	63.0	12.0	12.0
9-10 PM	1377	0.0	351	0.0	OFF	1377	0	351	0.00	0	63.8	63.8	63.8	14.3	14.3
10-11 PM	979	0.0	250	0.0	OFF	979	0	250	0.00	0	64.6	64.6	64.6	17.0	17.0
11PM-MID	762	0.0	195	0.0	OFF	762	0	195	0.00	0	65.0	65.0	65.0	18.4	18.4

"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	0.0138
MAIN ROUTE WITH WORKS	0.0115
DIVERSION	0.0648

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$97,754
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding 15 Minutes

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**OFF-PEAK DAY CLOSURE**  
**DIVERSION ROUTE: STH 21 - USH 45**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

