

<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**

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	846	0.0	215	0.0	OFF	846	0	215	0.00	0	64.8	64.8	64.8	20.8	20.8
1-2 AM	273	0.0	69	0.0	OFF	273	0	69	0.00	0	65.9	65.9	65.9	22.7	22.7
2-3 AM	197	0.0	50	0.0	OFF	197	0	50	0.00	0	66.0	66.0	66.0	22.9	22.9
3-4 AM	169	0.0	43	0.0	OFF	169	0	43	0.00	0	66.1	66.1	66.1	23.0	23.0
4-5 AM	170	0.0	43	0.0	OFF	170	0	43	0.00	0	66.1	66.1	66.1	23.0	23.0
5-6 AM	249	0.0	64	0.0	OFF	249	0	64	0.00	0	66.0	66.0	66.0	22.8	22.8
6-7 AM	424	0.0	108	0.0	OFF	424	0	108	0.00	0	65.6	65.6	65.6	22.2	22.2
7-8 AM	759	0.0	194	0.0	OFF	759	0	194	0.00	0	65.0	65.0	65.0	21.1	21.1
8-9 AM	1388	0.0	354	0.0	OFF	1388	0	354	0.00	0	63.8	63.8	63.8	19.0	19.0
9-10 AM	2091	0.0	533	0.0	1499	1947	143	677	7.52	216	62.5	13.7	30.8	16.6	16.0
10-11 AM	3045	0.0	776	0.0	1499	1914	1131	1907+	26.48	707	55.3	7.2	31.0	13.5	9.9
11A-NOON	3497	0.0	891	0.0	1500	1500	1997	2888+	30.70	826	50.7	6.8	30.8	12.4	9.0
NOON-1PM	3479	0.0	887	0.0	1500	1500	1979	2866+	30.72	826	50.9	6.8	30.8	12.4	9.0
1-2 PM	3566	0.0	909	0.0	1500	1500	2066	2975+	30.63	826	50.0	6.8	30.8	12.3	9.0
2-3 PM	3615	0.0	921	0.0	1500	1500	2115	3036+	30.58	826	49.5	6.8	30.8	12.2	9.0
3-4 PM	3592	0.0	916	0.0	1500	1500	2092	3009+	30.61	826	49.7	6.8	30.8	12.2	9.0
4-5 PM	3531	0.0	900	0.0	1500	1500	2031	2930+	30.67	826	50.3	6.8	30.8	12.4	9.0
5-6 PM	3198	0.0	815	0.0	1500	1474	1724	2539+	30.74	820	53.7	6.8	30.8	13.0	9.1
6-7 PM	2615	0.0	666	0.0	1500	1335	1280	1946+	29.06	763	59.7	7.0	30.8	14.9	9.4
7-8 PM	2058	0.0	525	0.0	OFF	2058	0	525	1.86	115	62.5	31.0	31.0	16.8	16.8
8-9 PM	1540	0.0	392	0.0	OFF	1540	0	392	0.00	0	63.5	63.5	63.5	18.5	18.5
9-10 PM	974	0.0	248	0.0	OFF	974	0	248	0.00	0	64.6	64.6	64.6	20.4	20.4
10-11 PM	660	0.0	168	0.0	OFF	660	0	168	0.00	0	65.1	65.1	65.1	21.4	21.4
11PM-MID	339	0.0	86	0.0	OFF	339	0	86	0.00	0	65.8	65.8	65.8	22.5	22.5

"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 (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	0.0128
MAIN ROUTE WITH WORKS	0.0067
DIVERSION	0.1018

PIA: Personal Injury Accidents

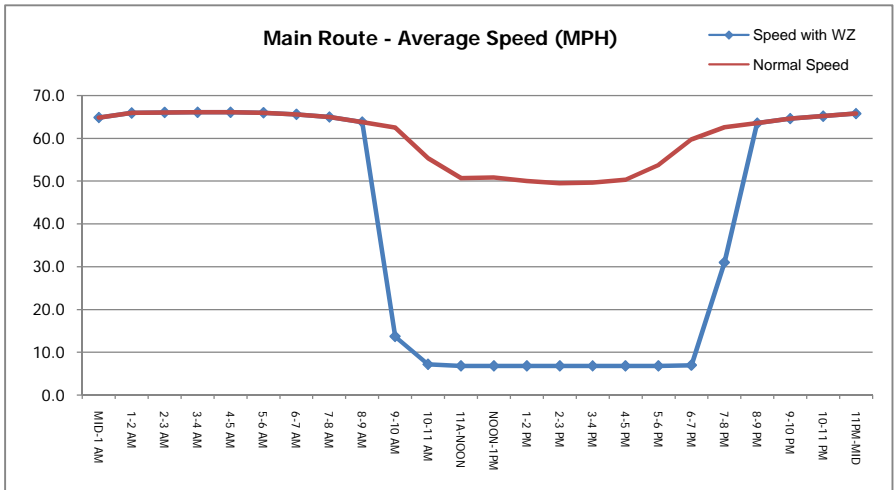
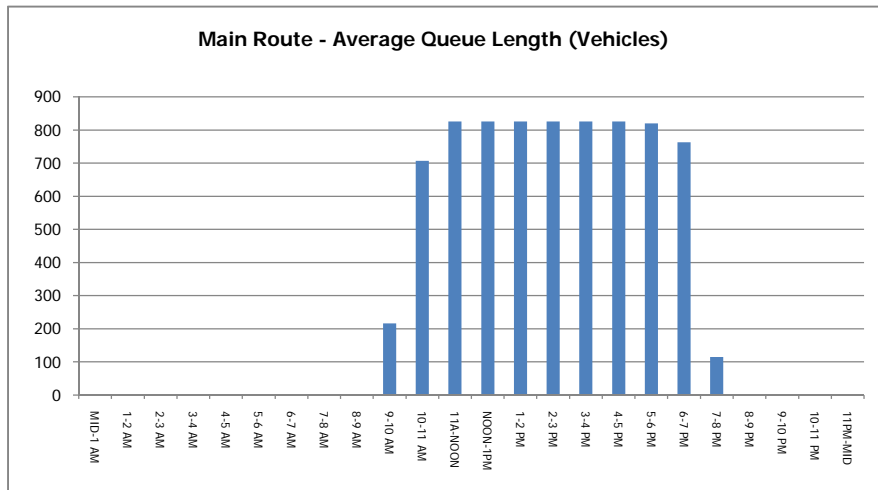
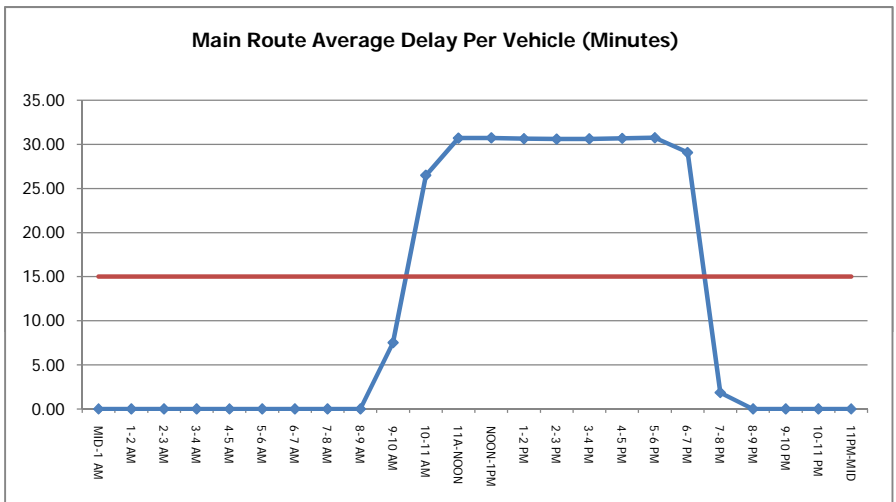
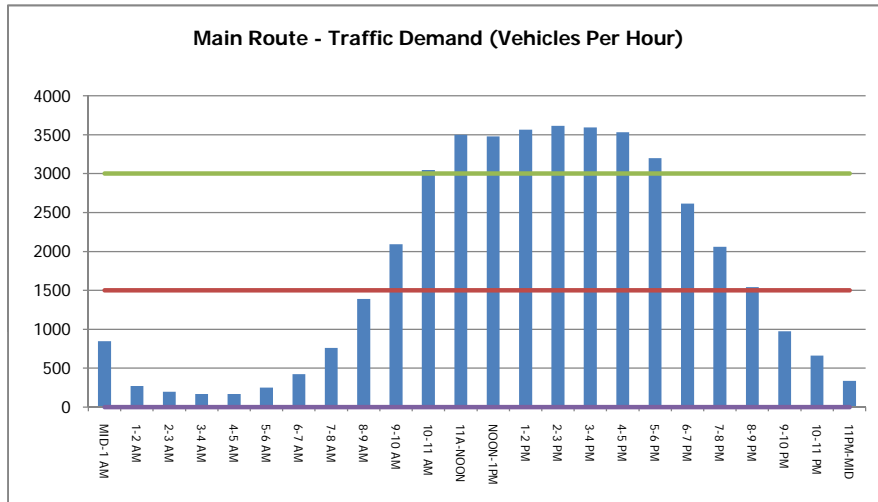
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$291,832
CONGESTED HOURS PER DAY*	9

\*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**  
**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>AUGUST</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
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	320	0.0	81	0.0	OFF	320	0	81	0.00	0	65.8	65.8	65.8	21.4	21.4
1-2 AM	209	0.0	54	0.0	OFF	209	0	54	0.00	0	66.0	66.0	66.0	22.2	22.2
2-3 AM	152	0.0	39	0.0	OFF	152	0	39	0.00	0	66.1	66.1	66.1	22.5	22.5
3-4 AM	98	0.0	25	0.0	OFF	98	0	25	0.00	0	66.2	66.2	66.2	23.0	23.0
4-5 AM	114	0.0	29	0.0	OFF	114	0	29	0.00	0	66.2	66.2	66.2	22.9	22.9
5-6 AM	317	0.0	80	0.0	OFF	317	0	80	0.00	0	65.8	65.8	65.8	21.5	21.5
6-7 AM	326	0.0	83	0.0	OFF	326	0	83	0.00	0	65.8	65.8	65.8	21.4	21.4
7-8 AM	443	0.0	112	0.0	OFF	443	0	112	0.00	0	65.6	65.6	65.6	20.6	20.6
8-9 AM	735	0.0	187	0.0	OFF	735	0	187	0.00	0	65.0	65.0	65.0	18.6	18.6
9-10 AM	1227	0.0	313	0.0	1499	1227	0	313	0.67	0	64.1	46.6	37.8	15.3	15.3
10-11 AM	1711	0.0	436	0.0	1499	1711	0	436	3.19	77	63.2	22.9	30.8	12.5	12.5
11A-NOON	2127	0.0	542	0.0	1500	2021	106	648	18.13	484	62.4	8.5	30.8	10.8	11.7
NOON-1PM	2292	0.0	585	0.0	1499	1517	775	1360+	29.96	782	62.1	7.0	30.8	10.2	9.3
1-2 PM	2379	0.0	606	0.0	1498	1503	874	1480+	29.98	782	62.0	6.9	30.7	9.8	9.3
2-3 PM	2335	0.0	595	0.0	1499	1503	832	1427+	29.96	783	62.0	7.0	30.8	10.0	9.3
3-4 PM	2328	0.0	594	0.0	1499	1503	826	1420+	29.96	783	62.0	7.0	30.8	10.1	9.3
4-5 PM	2334	0.0	595	0.0	1499	1502	831	1426+	29.96	783	62.0	7.0	30.8	10.0	9.3
5-6 PM	2231	0.0	569	0.0	1499	1501	730	1299+	29.95	782	62.2	7.0	30.8	10.4	9.3
6-7 PM	1884	0.0	481	0.0	1499	1434	450	931+	28.80	750	62.8	7.0	30.8	11.8	9.4
7-8 PM	1558	0.0	397	0.0	OFF	1558	0	397	1.52	98	63.5	34.3	34.3	13.1	13.1
8-9 PM	1301	0.0	331	0.0	OFF	1301	0	331	0.00	0	64.0	64.0	64.0	14.8	14.8
9-10 PM	970	0.0	247	0.0	OFF	970	0	247	0.00	0	64.6	64.6	64.6	17.1	17.1
10-11 PM	661	0.0	169	0.0	OFF	661	0	169	0.00	0	65.1	65.1	65.1	19.1	19.1
11PM-MID	411	0.0	105	0.0	OFF	411	0	105	0.00	0	65.6	65.6	65.6	20.8	20.8

"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	0.0086
MAIN ROUTE WITH WORKS	0.0060
DIVERSION	0.0472

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$163,092
CONGESTED HOURS PER DAY*	8

\*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**  
**SUNDAY NORTHBOUND DIRECTION**

