

**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

**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	1500	351	0	90	0.46	0	65.7	52.0	44.1	22.4	22.4
1-2 AM	240	0.0	62	0.0	1500	240	0	62	0.45	0	66.0	52.4	44.5	22.8	22.8
2-3 AM	216	0.0	56	0.0	1500	216	0	56	0.44	0	66.0	52.5	44.6	22.9	22.9
3-4 AM	282	0.0	72	0.0	1500	282	0	72	0.45	0	65.9	52.3	44.3	22.7	22.7
4-5 AM	492	0.0	126	0.0	1500	492	0	126	0.47	0	65.5	51.5	43.5	22.0	22.0
5-6 AM	1077	0.0	275	0.0	1499	1077	0	275	0.60	0	64.4	48.0	39.4	20.0	20.0
6-7 AM	1914	0.0	488	0.0	1499	1876	37	525	5.11	148	62.8	17.5	30.8	17.3	17.3
7-8 AM	2680	0.0	683	0.0	1499	1850	831	1514+	22.52	592	59.1	7.6	30.8	14.7	10.8
8-9 AM	2359	0.0	601	0.0	1499	1351	1009	1610+	24.54	637	62.0	7.4	30.8	15.8	10.2
9-10 AM	2352	0.0	599	0.0	1500	1507	846	1445	22.24	574	62.0	7.7	30.8	15.8	10.7
10-11 AM	2527	0.0	644	0.0	1500	1583	944	1589+	24.14	628	60.6	7.5	30.8	15.2	10.2
11A-NOON	2674	0.0	681	0.0	1500	1577	1097	1778+	26.89	704	59.1	7.1	30.8	14.7	9.7
NOON-1PM	2815	0.0	717	0.0	1500	1566	1249	1966+	29.65	782	57.6	7.0	30.8	14.2	9.3
1-2 PM	2969	0.0	757	0.0	1499	1512	1457	2213+	30.58	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	1499	1500	1933	2808+	30.76	826	51.4	6.8	30.8	12.5	9.0
4-5 PM	3449	0.0	879	0.0	1499	1500	1950	2829+	30.75	826	51.2	6.8	30.8	12.5	9.0
5-6 PM	2955	0.0	753	0.0	1499	1463	1492	2246+	30.69	813	56.2	6.8	30.8	13.8	9.1
6-7 PM	2214	0.0	564	0.0	1499	1186	1028	1592+	24.17	630	62.3	7.5	30.8	16.3	10.4
7-8 PM	1596	0.0	407	0.0	1500	1237	359	765	12.23	310	63.4	10.0	30.8	18.3	15.6
8-9 PM	1290	0.0	328	0.0	1499	1290	0	329	4.54	117	64.0	18.4	32.6	19.3	19.5
9-10 PM	1113	0.0	284	0.0	1500	1113	0	284	0.53	0	64.3	49.5	41.3	19.9	19.9
10-11 PM	1004	0.0	256	0.0	1500	1004	0	256	0.52	0	64.5	49.9	41.7	20.2	20.2
11PM-MID	629	0.0	161	0.0	1500	629	0	161	0.48	0	65.2	51.1	43.0	21.5	21.5

+ 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	0.0066
DIVERSION	0.1014

PIA: Personal Injury Accidents

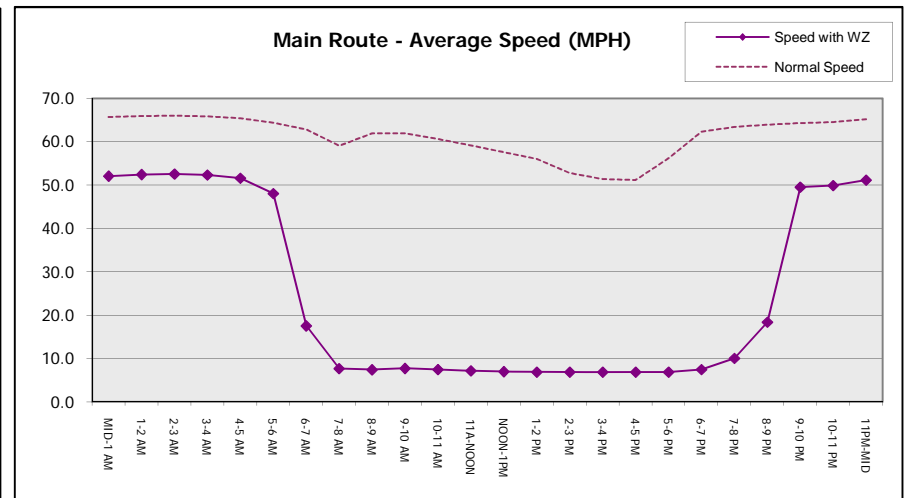
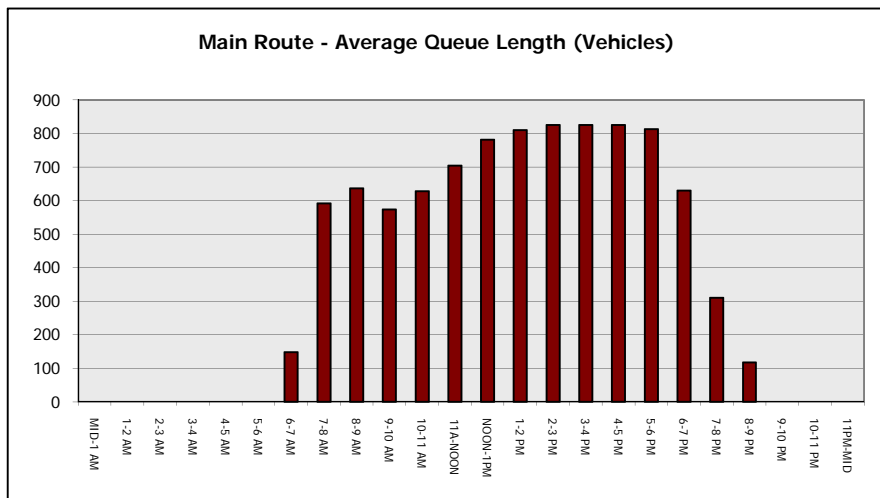
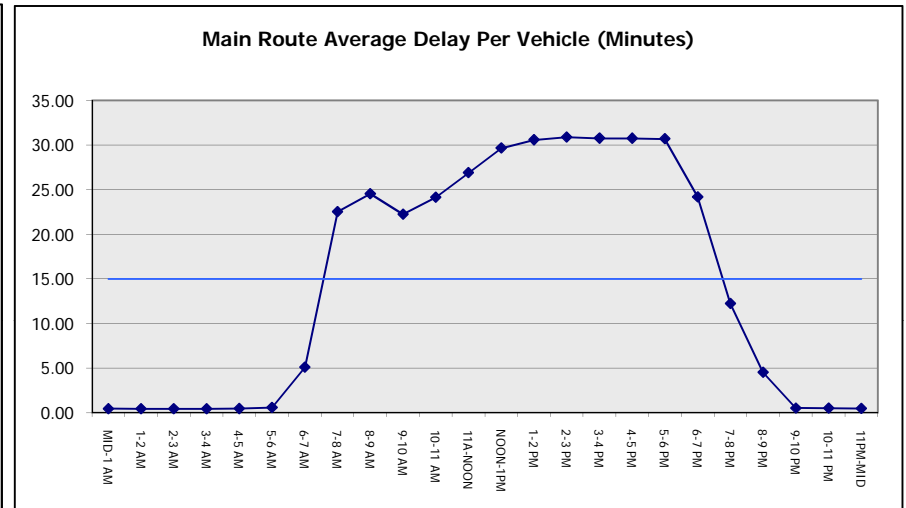
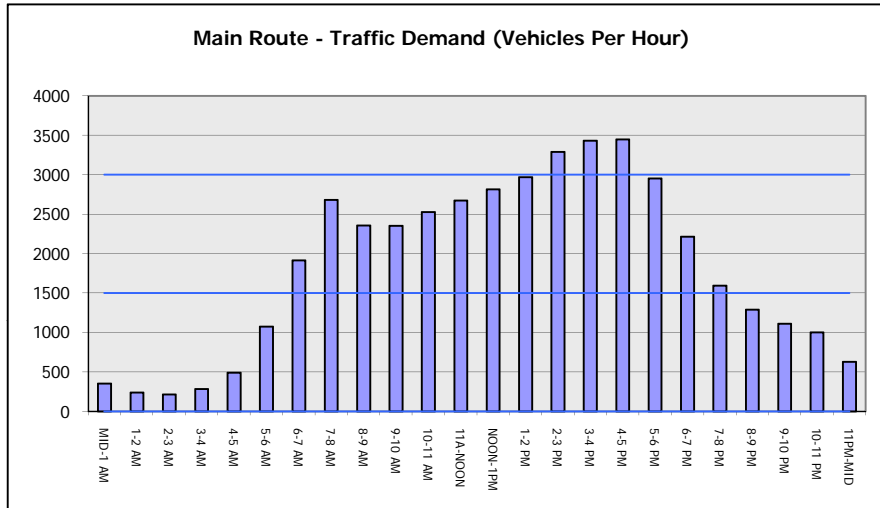
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$247,276
CONGESTED HOURS PER DAY*	12

\*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**  
**FRIDAY 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**

FRIDAY 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		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	1500	312	0	79	0.45	0	65.8	52.2	44.2	21.5	21.5
1-2 AM	208	0.0	54	0.0	1500	208	0	54	0.44	0	66.0	52.5	44.6	22.2	22.2
2-3 AM	208	0.0	52	0.0	1500	208	0	52	0.44	0	66.0	52.5	44.6	22.2	22.2
3-4 AM	249	0.0	64	0.0	1500	249	0	64	0.45	0	66.0	52.4	44.5	21.9	21.9
4-5 AM	369	0.0	94	0.0	1500	369	0	94	0.46	0	65.7	52.0	44.0	21.1	21.1
5-6 AM	966	0.0	246	0.0	1499	966	0	246	0.53	0	64.6	49.7	41.5	17.1	17.1
6-7 AM	1744	0.0	445	0.0	1499	1744	0	445	2.97	77	63.2	23.9	30.8	12.4	12.4
7-8 AM	2380	0.0	606	0.0	1500	2048	332	938+	22.74	613	62.0	7.8	31.5	9.8	10.5
8-9 AM	2032	0.0	518	0.0	1502	1499	532	1050+	29.91	782	62.6	7.0	30.7	11.2	9.3
9-10 AM	2183	0.0	557	0.0	1502	1504	680	1236+	29.94	783	62.3	7.0	30.7	10.6	9.3
10-11 AM	2465	0.0	628	0.0	1502	1504	961	1589+	29.95	785	61.2	7.0	30.7	9.5	9.3
11A-NOON	2647	0.0	675	0.0	1502	1509	1138	1813+	29.93	788	59.4	7.0	30.7	8.8	9.3
NOON-1PM	2806	0.0	715	0.0	1502	1514	1292	2007+	30.24	799	57.8	6.9	30.7	8.1	9.2
1-2 PM	3026	0.0	771	0.0	1502	1519	1507	2278+	30.69	816	55.5	6.8	30.7	7.7	9.1
2-3 PM	3191	0.0	813	0.0	1502	1506	1685	2498+	30.95	827	53.8	6.8	30.7	7.3	9.0
3-4 PM	3399	0.0	867	0.0	1502	1503	1896	2763+	30.80	828	51.7	6.8	30.7	7.0	9.0
4-5 PM	3497	0.0	891	0.0	1502	1503	1994	2885+	30.71	828	50.7	6.8	30.7	6.8	9.0
5-6 PM	3460	0.0	882	0.0	1502	1503	1957	2839+	30.74	828	51.0	6.8	30.7	6.8	9.0
6-7 PM	3006	0.0	766	0.0	1502	1470	1536	2302+	30.79	818	55.7	6.8	30.7	7.7	9.1
7-8 PM	2389	0.0	609	0.0	1502	1498	891	1501+	29.97	785	61.9	7.0	30.7	9.8	9.3
8-9 PM	1842	0.0	469	0.0	1502	1367	475	944+	28.66	748	63.0	7.0	30.7	12.0	9.4
9-10 PM	1377	0.0	351	0.0	1501	1134	244	595	18.06	469	63.8	8.4	30.7	14.3	12.4
10-11 PM	979	0.0	250	0.0	1499	979	0	250	2.07	90	64.6	30.2	38.9	17.0	17.2
11PM-MID	762	0.0	195	0.0	1500	762	0	195	0.50	0	65.0	50.7	42.5	18.4	18.4

+ 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	0.0138
MAIN ROUTE WITH WORKS	0.0067
DIVERSION	0.1070

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$299,532
CONGESTED HOURS PER DAY*	15

\*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**  
**FRIDAY NORTHBOUND DIRECTION**

