

**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

MON-THUR 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	249	0.0	64	0.0	1500	249	0	64	0.45	0	66.0	52.4	44.5	22.8	22.8
1-2 AM	202	0.0	51	0.0	1500	202	0	51	0.44	0	66.0	52.5	44.6	22.9	22.9
2-3 AM	191	0.0	48	0.0	1500	191	0	48	0.44	0	66.0	52.6	44.7	23.0	23.0
3-4 AM	285	0.0	73	0.0	1500	285	0	73	0.45	0	65.8	52.3	44.3	22.7	22.7
4-5 AM	538	0.0	137	0.0	1500	538	0	137	0.47	0	65.4	51.4	43.3	21.8	21.8
5-6 AM	1230	0.0	314	0.0	1499	1230	0	314	0.71	0	64.1	45.8	36.9	19.5	19.5
6-7 AM	2192	0.0	559	0.0	1499	1994	198	757	8.78	251	62.3	12.5	30.8	16.3	15.5
7-8 AM	3007	0.0	767	0.0	1499	1840	1167	1933+	27.58	733	55.7	7.1	30.8	13.6	9.6
8-9 AM	2420	0.0	617	0.0	1499	1256	1164	1780+	27.33	714	61.7	7.1	30.8	15.6	9.7
9-10 AM	2119	0.0	540	0.0	1499	1350	769	1310	19.57	503	62.4	8.1	30.8	16.6	11.6
10-11 AM	2154	0.0	550	0.0	1500	1516	638	1188	17.50	445	62.3	8.4	30.8	16.5	12.3
11A-NOON	2273	0.0	579	0.0	1500	1564	709	1289	19.12	490	62.2	8.1	30.8	16.0	11.7
NOON-1PM	2373	0.0	605	0.0	1500	1567	806	1411	21.50	554	62.0	7.8	30.8	15.7	10.9
1-2 PM	2476	0.0	631	0.0	1499	1558	918	1549+	23.64	613	61.2	7.5	30.8	15.4	10.4
2-3 PM	2749	0.0	701	0.0	1500	1647	1103	1804+	27.32	718	58.3	7.1	30.8	14.5	9.6
3-4 PM	2999	0.0	765	0.0	1500	1528	1470	2235+	30.60	812	55.8	6.8	30.8	13.6	9.1
4-5 PM	3269	0.0	834	0.0	1500	1500	1769	2603+	30.91	826	53.0	6.8	30.8	12.9	9.0
5-6 PM	2864	0.0	730	0.0	1500	1455	1408	2138+	30.51	806	57.1	6.9	30.8	14.1	9.1
6-7 PM	1869	0.0	477	0.0	1500	1030	839	1316	19.48	513	62.9	8.2	30.8	17.4	11.9
7-8 PM	1378	0.0	352	0.0	1500	1294	84	436	8.04	196	63.8	12.5	31.1	19.0	18.5
8-9 PM	1201	0.0	307	0.0	1500	1201	0	307	1.12	20	64.1	39.3	37.5	19.6	19.6
9-10 PM	978	0.0	249	0.0	1500	978	0	249	0.52	0	64.6	49.9	41.7	20.4	20.4
10-11 PM	799	0.0	203	0.0	1500	799	0	203	0.50	0	64.9	50.5	42.4	20.9	20.9
11PM-MID	540	0.0	136	0.0	1500	540	0	136	0.47	0	65.4	51.4	43.3	21.8	21.8

+ 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	0.0122
MAIN ROUTE WITH WORKS	0.0065
DIVERSION	0.0869

PIA: Personal Injury Accidents

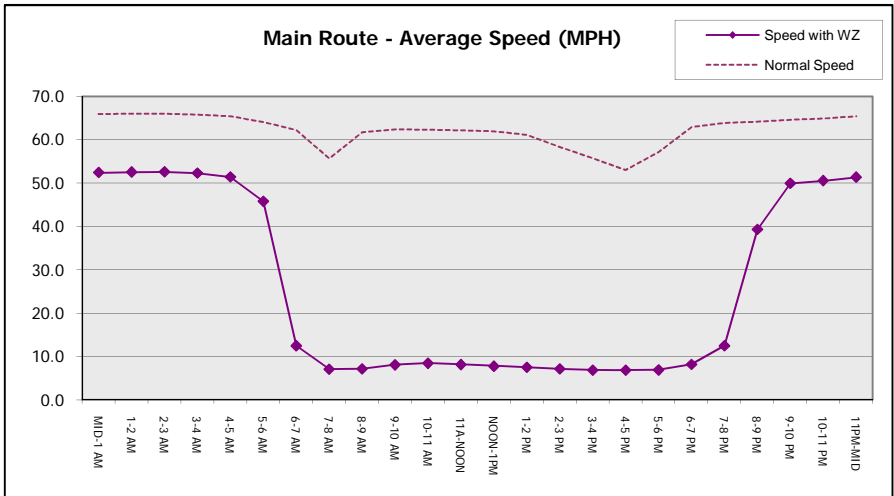
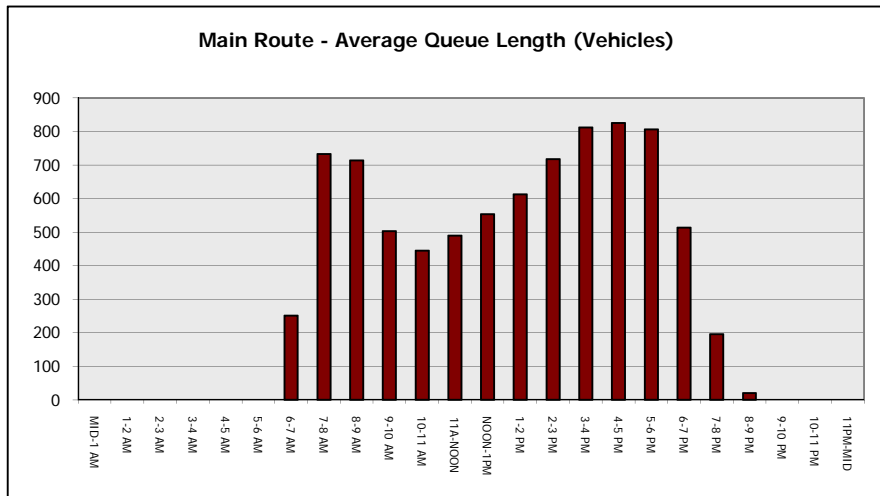
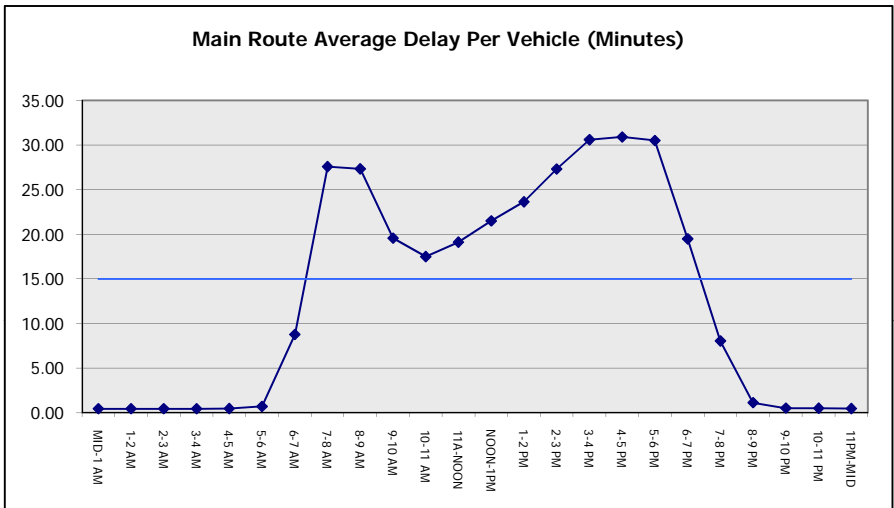
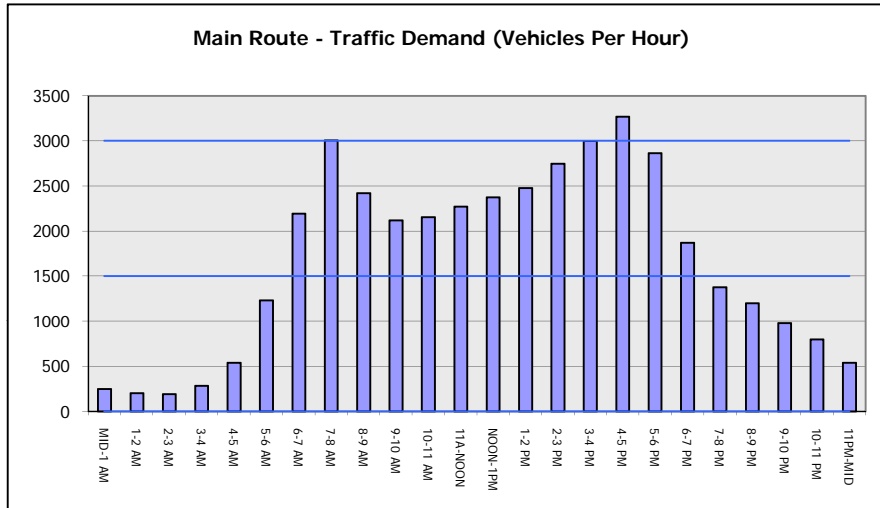
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$200,952
CONGESTED HOURS PER DAY*	12

*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
MON-THUR SOUTHBOUND DIRECTION



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

MON-THUR 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	259	0.0	67	0.0	1500	259	0	67	0.45	0	65.9	52.4	44.5	21.9	21.9
1-2 AM	194	0.0	50	0.0	1500	194	0	50	0.44	0	66.0	52.6	44.7	22.3	22.3
2-3 AM	180	0.0	46	0.0	1500	180	0	46	0.44	0	66.1	52.7	44.8	22.4	22.4
3-4 AM	222	0.0	57	0.0	1500	222	0	57	0.44	0	66.0	52.5	44.6	22.1	22.1
4-5 AM	374	0.0	96	0.0	1500	374	0	96	0.46	0	65.7	52.0	44.0	21.1	21.1
5-6 AM	1016	0.0	259	0.0	1499	1016	0	259	0.57	0	64.5	48.9	40.4	16.8	16.8
6-7 AM	1830	0.0	467	0.0	1499	1830	0	467	4.11	118	63.0	19.9	30.8	12.0	12.3
7-8 AM	2516	0.0	641	0.0	1500	1961	555	1196+	25.46	675	60.7	7.4	30.8	9.3	10.0
8-9 AM	1911	0.0	487	0.0	1499	1418	493	979+	29.17	760	62.8	7.0	30.8	11.7	9.4
9-10 AM	1872	0.0	478	0.0	1499	1480	393	870+	26.69	693	62.9	7.2	30.8	11.9	9.8
10-11 AM	2014	0.0	514	0.0	1500	1602	413	926+	28.44	741	62.7	7.0	30.8	11.3	9.5
11A-NOON	2070	0.0	528	0.0	1500	1500	571	1099+	29.93	781	62.5	7.0	30.8	11.1	9.3
NOON-1PM	2084	0.0	531	0.0	1500	1500	585	1116+	29.93	781	62.5	7.0	30.8	11.0	9.3
1-2 PM	2183	0.0	557	0.0	1500	1500	683	1240+	29.94	782	62.3	7.0	30.8	10.6	9.3
2-3 PM	2398	0.0	611	0.0	1500	1501	897	1508+	29.97	783	61.9	7.0	30.8	9.7	9.3
3-4 PM	2713	0.0	692	0.0	1500	1516	1197	1889+	30.04	791	58.7	6.9	30.8	8.5	9.2
4-5 PM	3061	0.0	780	0.0	1500	1514	1547	2328+	30.77	818	55.1	6.8	30.8	7.6	9.1
5-6 PM	2898	0.0	738	0.0	1500	1466	1432	2170+	30.57	809	56.8	6.8	30.8	7.9	9.1
6-7 PM	1987	0.0	505	0.0	1500	1414	573	1078+	29.16	760	62.7	7.0	30.8	11.4	9.4
7-8 PM	1426	0.0	362	0.0	1500	1131	295	657	19.80	515	63.7	8.1	30.8	14.0	11.7
8-9 PM	1165	0.0	296	0.0	1500	1155	10	307	5.52	169	64.2	16.8	34.1	15.8	16.1
9-10 PM	911	0.0	232	0.0	1500	911	0	232	0.51	0	64.7	50.2	42.0	17.5	17.5
10-11 PM	655	0.0	167	0.0	1500	655	0	167	0.49	0	65.1	51.0	42.9	19.2	19.2
11PM-MID	457	0.0	116	0.0	1500	457	0	116	0.47	0	65.5	51.7	43.7	20.6	20.6

+ 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	0.0110
MAIN ROUTE WITH WORKS	0.0063
DIVERSION	0.0705

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$212,852
CONGESTED HOURS PER DAY*	13

*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
MON-THUR NORTHBOUND DIRECTION

