

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) NIGHTTIME 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	OFF	1230	0	314	0.00	0	64.1	64.1	64.1	19.5	19.5
6-7 AM	2192	0.0	559	0.0	OFF	2192	0	559	0.00	0	62.3	62.3	62.3	16.3	16.3
7-8 AM	3007	0.0	767	0.0	OFF	3007	0	767	0.00	0	55.7	55.7	55.7	13.6	13.6
8-9 AM	2420	0.0	617	0.0	OFF	2420	0	617	0.00	0	61.7	61.7	61.7	15.6	15.6
9-10 AM	2119	0.0	540	0.0	OFF	2119	0	540	0.00	0	62.4	62.4	62.4	16.6	16.6
10-11 AM	2154	0.0	550	0.0	OFF	2154	0	550	0.00	0	62.3	62.3	62.3	16.5	16.5
11A-NOON	2273	0.0	579	0.0	OFF	2273	0	579	0.00	0	62.2	62.2	62.2	16.0	16.0
NOON-1PM	2373	0.0	605	0.0	OFF	2373	0	605	0.00	0	62.0	62.0	62.0	15.7	15.7
1-2 PM	2476	0.0	631	0.0	OFF	2476	0	631	0.00	0	61.2	61.2	61.2	15.4	15.4
2-3 PM	2749	0.0	701	0.0	OFF	2749	0	701	0.00	0	58.3	58.3	58.3	14.5	14.5
3-4 PM	2999	0.0	765	0.0	OFF	2999	0	765	0.00	0	55.8	55.8	55.8	13.6	13.6
4-5 PM	3269	0.0	834	0.0	OFF	3269	0	834	0.00	0	53.0	53.0	53.0	12.9	12.9
5-6 PM	2864	0.0	730	0.0	OFF	2864	0	730	0.00	0	57.1	57.1	57.1	14.1	14.1
6-7 PM	1869	0.0	477	0.0	OFF	1869	0	477	0.00	0	62.9	62.9	62.9	17.4	17.4
7-8 PM	1378	0.0	352	0.0	1500	1378	0	352	0.87	0	63.8	43.0	33.5	19.0	19.0
8-9 PM	1201	0.0	307	0.0	1500	1201	0	307	0.64	0	64.1	47.2	38.4	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

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

----- 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		0.0122
MAIN ROUTE WITH WORKS		0.0118
DIVERSION		0.0383

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$802
CONGESTED HOURS PER DAY*	0

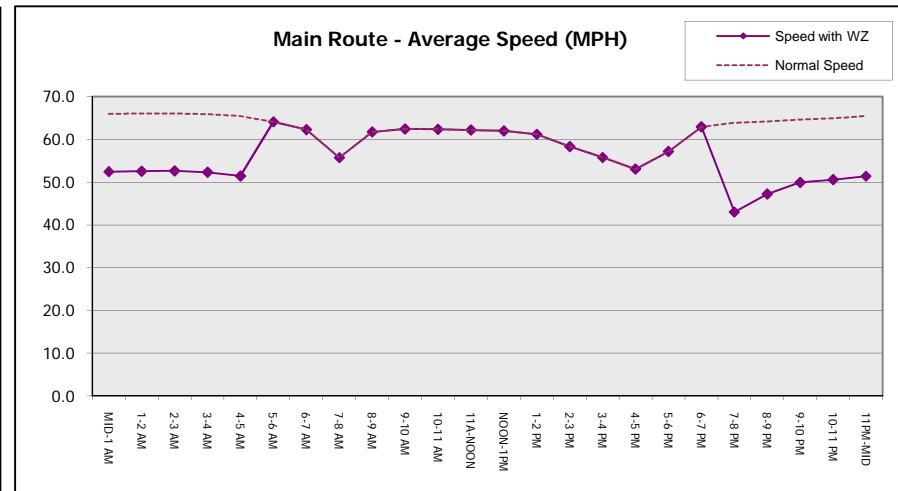
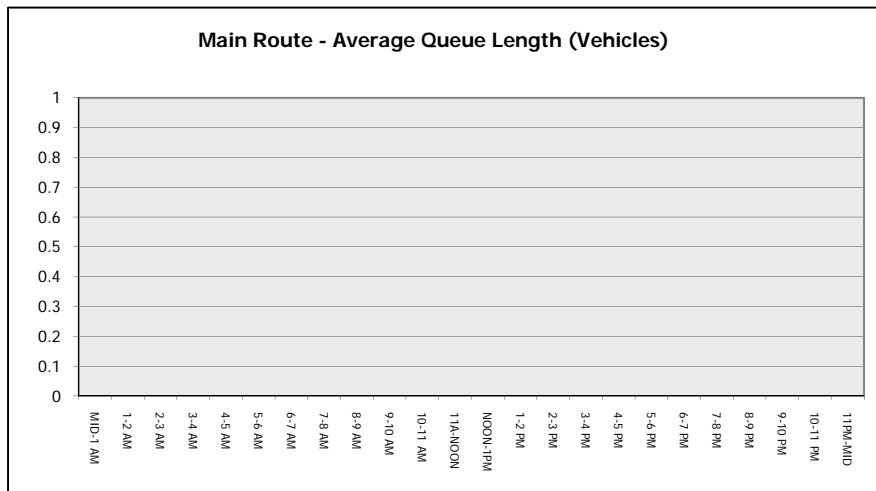
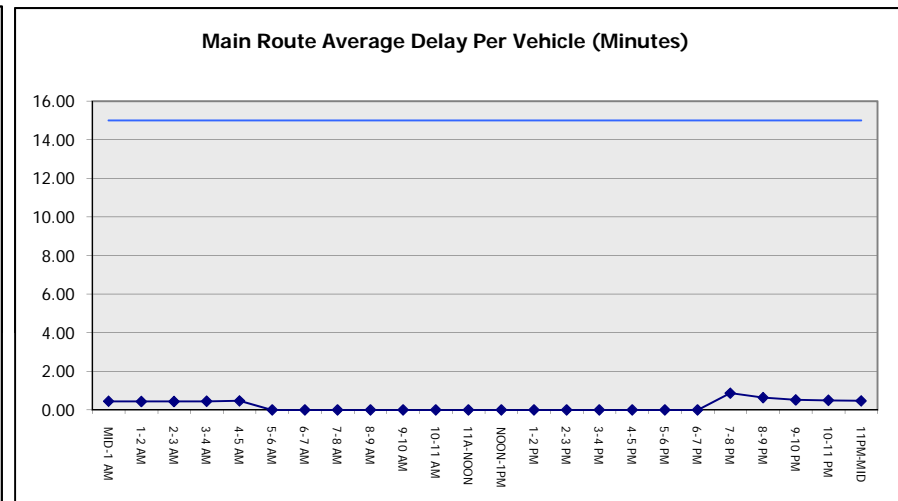
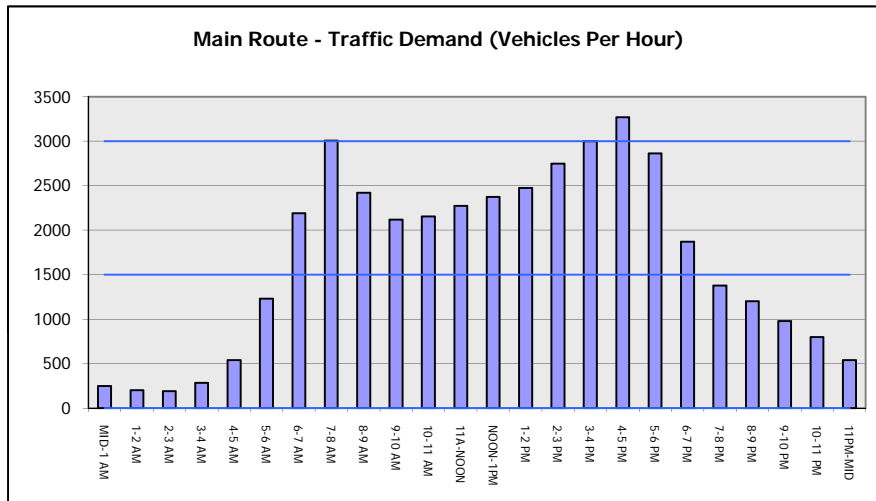
*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
 NIGHTTIME 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) NIGHTTIME 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	OFF	1016	0	259	0.00	0	64.5	64.5	64.5	16.8	16.8
6-7 AM	1830	0.0	467	0.0	OFF	1830	0	467	0.00	0	63.0	63.0	63.0	12.0	12.0
7-8 AM	2516	0.0	641	0.0	OFF	2516	0	641	0.00	0	60.7	60.7	60.7	9.3	9.3
8-9 AM	1911	0.0	487	0.0	OFF	1911	0	487	0.00	0	62.8	62.8	62.8	11.7	11.7
9-10 AM	1872	0.0	478	0.0	OFF	1872	0	478	0.00	0	62.9	62.9	62.9	11.9	11.9
10-11 AM	2014	0.0	514	0.0	OFF	2014	0	514	0.00	0	62.7	62.7	62.7	11.3	11.3
11A-NOON	2070	0.0	528	0.0	OFF	2070	0	528	0.00	0	62.5	62.5	62.5	11.1	11.1
NOON-1PM	2084	0.0	531	0.0	OFF	2084	0	531	0.00	0	62.5	62.5	62.5	11.0	11.0
1-2 PM	2183	0.0	557	0.0	OFF	2183	0	557	0.00	0	62.3	62.3	62.3	10.6	10.6
2-3 PM	2398	0.0	611	0.0	OFF	2398	0	611	0.00	0	61.9	61.9	61.9	9.7	9.7
3-4 PM	2713	0.0	692	0.0	OFF	2713	0	692	0.00	0	58.7	58.7	58.7	8.5	8.5
4-5 PM	3061	0.0	780	0.0	OFF	3061	0	780+	0.00	0	55.1	55.1	55.1	7.6	7.6
5-6 PM	2898	0.0	738	0.0	OFF	2898	0	738+	0.00	0	56.8	56.8	56.8	7.9	7.9
6-7 PM	1987	0.0	505	0.0	OFF	1987	0	505	0.00	0	62.7	62.7	62.7	11.4	11.4
7-8 PM	1426	0.0	362	0.0	1499	1426	0	362	1.04	4	63.7	40.2	32.8	14.0	14.0
8-9 PM	1165	0.0	296	0.0	1500	1165	0	296	0.59	0	64.2	48.2	39.6	15.8	15.8
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

"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	0.0106
DIVERSION	0.0346

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$787
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
NIGHTTIME 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

