

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: STH 21 - USH 45	OCTOBER
	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	295	0.0	75	0.0	1500	295	0	75	0.45	0	65.8	52.2	44.3	22.6	22.6
1-2 AM	224	0.0	59	0.0	1500	224	0	59	0.44	0	66.0	52.5	44.6	22.9	22.9
2-3 AM	171	0.0	43	0.0	1500	171	0	43	0.44	0	66.1	52.7	44.8	23.0	23.0
3-4 AM	264	0.0	67	0.0	1500	264	0	67	0.45	0	65.9	52.4	44.4	22.7	22.7
4-5 AM	521	0.0	133	0.0	1500	521	0	133	0.47	0	65.4	51.5	43.4	21.9	21.9
5-6 AM	1239	0.0	316	0.0	OFF	1239	0	316	0.00	0	64.1	64.1	64.1	19.5	19.5
6-7 AM	2203	0.0	562	0.0	OFF	2203	0	562	0.00	0	62.3	62.3	62.3	16.3	16.3
7-8 AM	3065	0.0	782	0.0	OFF	3065	0	782	0.00	0	55.1	55.1	55.1	13.4	13.4
8-9 AM	2334	0.0	595	0.0	OFF	2334	0	595	0.00	0	62.0	62.0	62.0	15.8	15.8
9-10 AM	1966	0.0	501	0.0	OFF	1966	0	501	0.00	0	62.7	62.7	62.7	17.1	17.1
10-11 AM	1950	0.0	496	0.0	OFF	1950	0	496	0.00	0	62.8	62.8	62.8	17.1	17.1
11A-NOON	2041	0.0	520	0.0	OFF	2041	0	520	0.00	0	62.6	62.6	62.6	16.8	16.8
NOON-1PM	2112	0.0	538	0.0	OFF	2112	0	538	0.00	0	62.5	62.5	62.5	16.6	16.6
1-2 PM	2231	0.0	568	0.0	OFF	2231	0	568	0.00	0	62.2	62.2	62.2	16.2	16.2
2-3 PM	2561	0.0	653	0.0	OFF	2561	0	653	0.00	0	60.2	60.2	60.2	15.1	15.1
3-4 PM	2905	0.0	741	0.0	OFF	2905	0	741	0.00	0	56.8	56.8	56.8	13.9	13.9
4-5 PM	3159	0.0	805	0.0	OFF	3159	0	805	0.00	0	54.2	54.2	54.2	13.1	13.1
5-6 PM	2722	0.0	694	0.0	OFF	2722	0	694	0.00	0	58.6	58.6	58.6	14.5	14.5
6-7 PM	1720	0.0	439	0.0	OFF	1720	0	439	0.00	0	63.2	63.2	63.2	17.9	17.9
7-8 PM	1191	0.0	304	0.0	1500	1191	0	304	0.62	0	64.1	47.4	38.8	19.6	19.6
8-9 PM	1031	0.0	263	0.0	1500	1031	0	263	0.52	0	64.5	49.7	41.5	20.2	20.2
9-10 PM	812	0.0	207	0.0	1500	812	0	207	0.50	0	64.9	50.5	42.4	20.9	20.9
10-11 PM	606	0.0	154	0.0	1500	606	0	154	0.48	0	65.3	51.2	43.1	21.6	21.6
11PM-MID	376	0.0	96	0.0	1500	376	0	96	0.46	0	65.7	52.0	44.0	22.4	22.4

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

----- 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	0.0114
MAIN ROUTE WITH WORKS	0.0110
DIVERSION	0.0358

PIA: Personal Injury Accidents

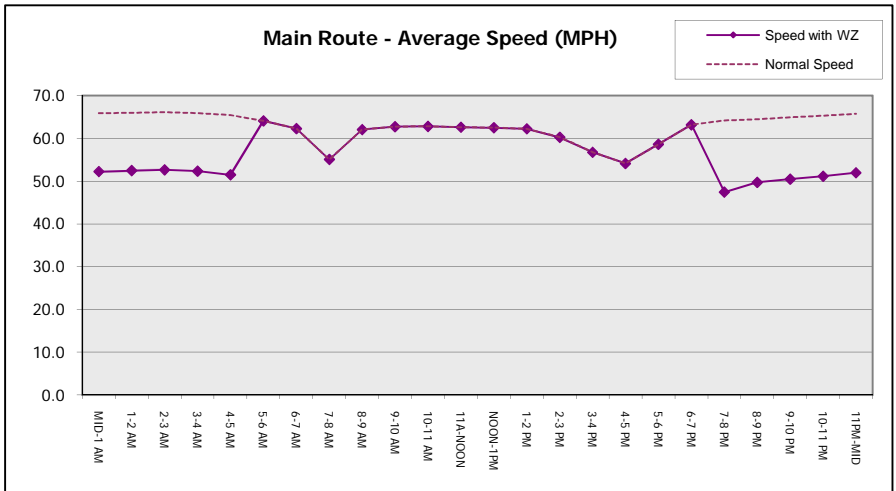
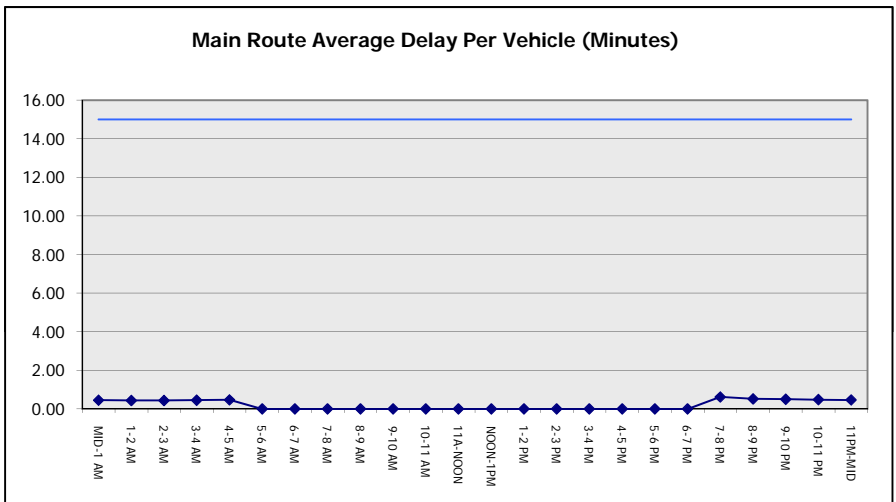
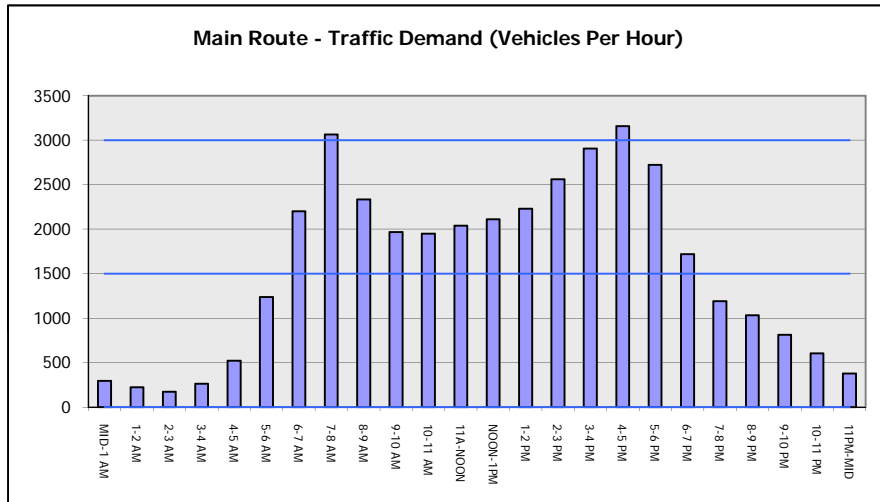
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$582
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

OCTOBER
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	OCTOBER
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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	211	0.0	54	0.0	1500	211	0	54	0.44	0	66.0	52.5	44.6	22.2	22.2	
1-2 AM	161	0.0	41	0.0	1500	161	0	41	0.44	0	66.1	52.7	44.8	22.5	22.5	
2-3 AM	155	0.0	39	0.0	1500	155	0	39	0.44	0	66.1	52.7	44.8	22.5	22.5	
3-4 AM	203	0.0	51	0.0	1500	203	0	51	0.44	0	66.0	52.5	44.6	22.2	22.2	
4-5 AM	359	0.0	92	0.0	1500	359	0	92	0.46	0	65.7	52.0	44.0	21.2	21.2	
5-6 AM	1008	0.0	257	0.0	OFF	1008	0	257	0.00	0	64.5	64.5	64.5	16.8	16.8	
6-7 AM	1874	0.0	479	0.0	OFF	1874	0	479	0.00	0	62.9	62.9	62.9	11.8	11.8	
7-8 AM	2668	0.0	680	0.0	OFF	2668	0	680	0.00	0	59.2	59.2	59.2	8.7	8.7	
8-9 AM	1902	0.0	485	0.0	OFF	1902	0	485	0.00	0	62.8	62.8	62.8	11.7	11.7	
9-10 AM	1798	0.0	458	0.0	OFF	1798	0	458	0.00	0	63.0	63.0	63.0	12.1	12.1	
10-11 AM	1803	0.0	459	0.0	OFF	1803	0	459	0.00	0	63.0	63.0	63.0	12.1	12.1	
11A-NOON	1850	0.0	472	0.0	OFF	1850	0	472	0.00	0	63.0	63.0	63.0	11.9	11.9	
NOON-1PM	1915	0.0	488	0.0	OFF	1915	0	488	0.00	0	62.8	62.8	62.8	11.7	11.7	
1-2 PM	1998	0.0	509	0.0	OFF	1998	0	509	0.00	0	62.7	62.7	62.7	11.4	11.4	
2-3 PM	2267	0.0	578	0.0	OFF	2267	0	578	0.00	0	62.2	62.2	62.2	10.3	10.3	
3-4 PM	2548	0.0	650	0.0	OFF	2548	0	650	0.00	0	60.4	60.4	60.4	9.2	9.2	
4-5 PM	2918	0.0	744	0.0	OFF	2918	0	744+	0.00	0	56.6	56.6	56.6	7.9	7.9	
5-6 PM	2705	0.0	690	0.0	OFF	2705	0	690	0.00	0	58.8	58.8	58.8	8.6	8.6	
6-7 PM	1791	0.0	455	0.0	OFF	1791	0	455	0.00	0	63.0	63.0	63.0	12.2	12.2	
7-8 PM	1185	0.0	302	0.0	1500	1185	0	302	0.62	0	64.1	47.6	38.9	15.6	15.6	
8-9 PM	968	0.0	245	0.0	1500	968	0	245	0.52	0	64.6	50.0	41.8	17.1	17.1	
9-10 PM	756	0.0	193	0.0	1500	756	0	193	0.50	0	65.0	50.7	42.5	18.5	18.5	
10-11 PM	554	0.0	141	0.0	1500	554	0	141	0.48	0	65.3	51.4	43.3	19.9	19.9	
11PM-MID	381	0.0	97	0.0	1500	381	0	97	0.46	0	65.7	51.9	44.0	21.1	21.1	

"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	0.0103
MAIN ROUTE WITH WORKS	0.0100
DIVERSION	0.0322

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$526
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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 NIGHTTIME CLOSURE
 DIVERSION ROUTE: STH 21 - USH 45**

OCTOBER
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR NORTHBOUND DIRECTION

