

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: STH 21 - USH 45	MAY
	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	244	0.0	62	0.0	1500	244	0	62	0.45	0	66.0	52.4	44.5	22.8	22.8
1-2 AM	201	0.0	51	0.0	1500	201	0	51	0.44	0	66.0	52.5	44.6	22.9	22.9
2-3 AM	199	0.0	50	0.0	1500	199	0	50	0.44	0	66.0	52.6	44.7	22.9	22.9
3-4 AM	269	0.0	68	0.0	1500	269	0	68	0.45	0	65.9	52.4	44.4	22.7	22.7
4-5 AM	447	0.0	114	0.0	1500	447	0	114	0.47	0	65.6	51.7	43.7	22.1	22.1
5-6 AM	1020	0.0	260	0.0	OFF	1020	0	260	0.00	0	64.5	64.5	64.5	20.2	20.2
6-7 AM	1906	0.0	486	0.0	OFF	1906	0	486	0.00	0	62.8	62.8	62.8	17.3	17.3
7-8 AM	2774	0.0	707	0.0	OFF	2774	0	707	0.00	0	58.1	58.1	58.1	14.4	14.4
8-9 AM	2394	0.0	610	0.0	OFF	2394	0	610	0.00	0	61.9	61.9	61.9	15.6	15.6
9-10 AM	2058	0.0	525	0.0	OFF	2058	0	525	0.00	0	62.5	62.5	62.5	16.8	16.8
10-11 AM	2135	0.0	545	0.0	OFF	2135	0	545	0.00	0	62.4	62.4	62.4	16.5	16.5
11A-NOON	2220	0.0	566	0.0	OFF	2220	0	566	0.00	0	62.2	62.2	62.2	16.2	16.2
NOON-1PM	2409	0.0	614	0.0	OFF	2409	0	614	0.00	0	61.9	61.9	61.9	15.6	15.6
1-2 PM	2588	0.0	660	0.0	OFF	2588	0	660	0.00	0	60.0	60.0	60.0	15.0	15.0
2-3 PM	2977	0.0	759	0.0	OFF	2977	0	759	0.00	0	56.0	56.0	56.0	13.7	13.7
3-4 PM	3315	0.0	845	0.0	OFF	3315	0	845	0.00	0	52.5	52.5	52.5	12.8	12.8
4-5 PM	3480	0.0	887	0.0	OFF	3480	0	887	0.00	0	50.9	50.9	50.9	12.4	12.4
5-6 PM	3092	0.0	789	0.0	OFF	3092	0	789	0.00	0	54.8	54.8	54.8	13.4	13.4
6-7 PM	2160	0.0	551	0.0	OFF	2160	0	551	0.00	0	62.3	62.3	62.3	16.4	16.4
7-8 PM	1489	0.0	380	0.0	1499	1489	0	380	1.85	24	63.6	31.4	31.7	18.6	18.6
8-9 PM	1212	0.0	309	0.0	1500	1212	0	309	0.65	0	64.1	46.9	38.1	19.6	19.6
9-10 PM	1041	0.0	266	0.0	1500	1041	0	266	0.52	0	64.5	49.7	41.5	20.1	20.1
10-11 PM	923	0.0	236	0.0	1500	923	0	236	0.51	0	64.6	50.1	41.9	20.6	20.6
11PM-MID	640	0.0	164	0.0	1500	640	0	164	0.48	0	65.2	51.0	43.0	21.5	21.5

"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		0.0125
MAIN ROUTE WITH WORKS		0.0120
DIVERSION		0.0391

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,453
CONGESTED HOURS PER DAY*	0

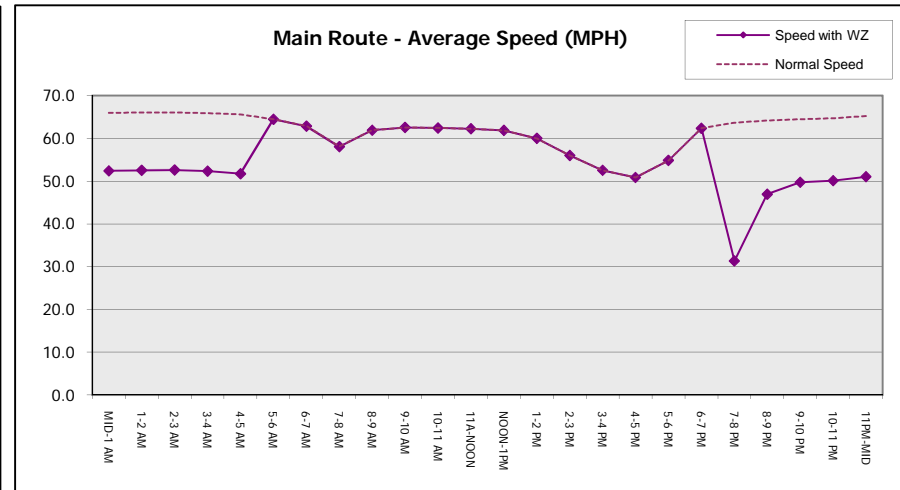
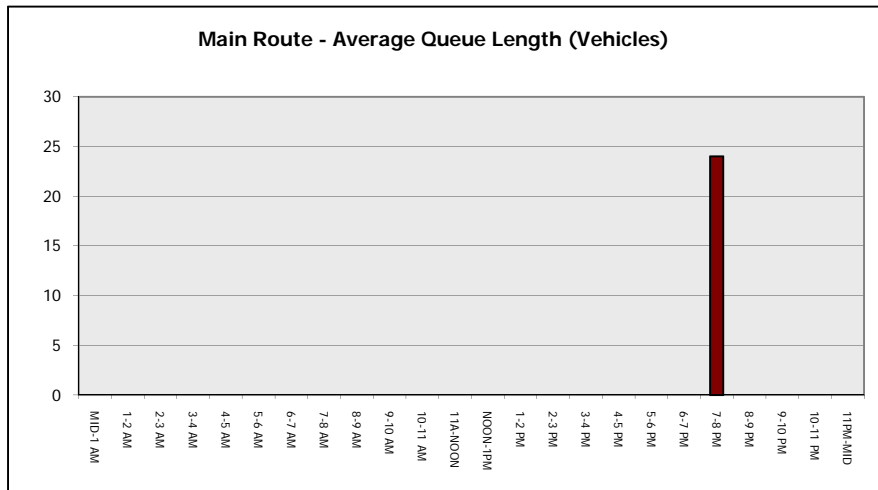
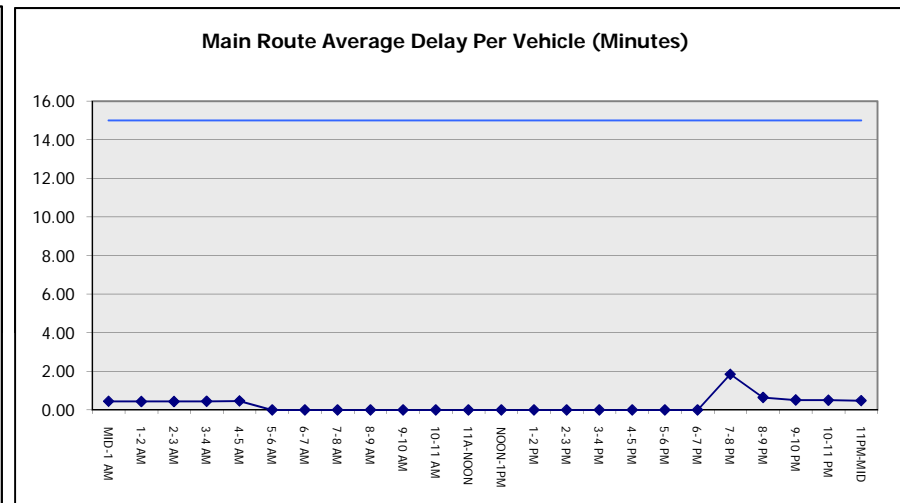
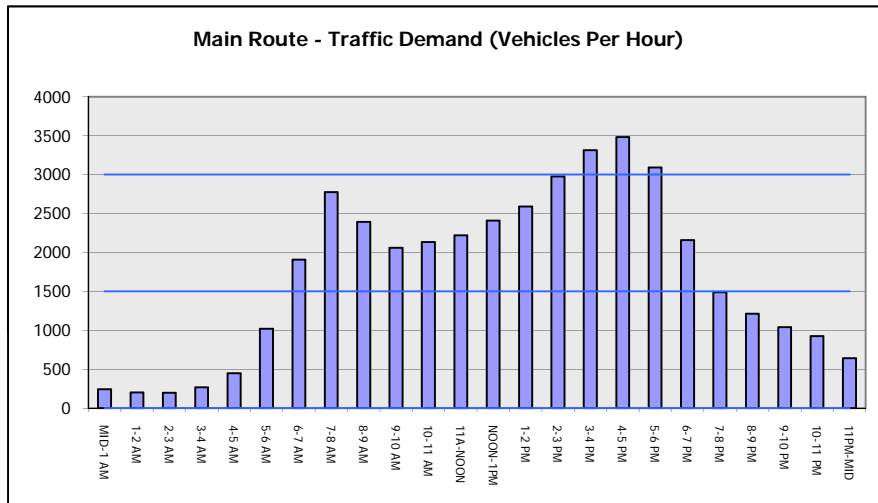
*Delays Exceeding 15 Minutes

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

MAY
Analyzed for 2009
Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY SOUTHBOUND DIRECTION



USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) NIGHTTIME CLOSURE DIVERSION ROUTE: STH 21 - USH 45	MAY
	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		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	275	0.0	70	0.0	1500	275	0	70	0.45	0	65.9	52.3	44.4	21.7	21.7	
1-2 AM	216	0.0	55	0.0	1500	216	0	55	0.44	0	66.0	52.5	44.6	22.2	22.2	
2-3 AM	191	0.0	48	0.0	1500	191	0	48	0.44	0	66.0	52.6	44.7	22.3	22.3	
3-4 AM	241	0.0	62	0.0	1500	241	0	62	0.45	0	66.0	52.4	44.5	22.0	22.0	
4-5 AM	344	0.0	88	0.0	1500	344	0	88	0.46	0	65.8	52.0	44.1	21.3	21.3	
5-6 AM	934	0.0	238	0.0	OFF	934	0	238	0.00	0	64.6	64.6	64.6	17.3	17.3	
6-7 AM	1790	0.0	456	0.0	OFF	1790	0	456	0.00	0	63.0	63.0	63.0	12.2	12.2	
7-8 AM	2578	0.0	657	0.0	OFF	2578	0	657	0.00	0	60.1	60.1	60.1	9.1	9.1	
8-9 AM	2044	0.0	521	0.0	OFF	2044	0	521	0.00	0	62.6	62.6	62.6	11.2	11.2	
9-10 AM	2065	0.0	526	0.0	OFF	2065	0	526	0.00	0	62.5	62.5	62.5	11.1	11.1	
10-11 AM	2233	0.0	569	0.0	OFF	2233	0	569	0.00	0	62.2	62.2	62.2	10.4	10.4	
11A-NOON	2343	0.0	597	0.0	OFF	2343	0	597	0.00	0	62.0	62.0	62.0	10.0	10.0	
NOON-1PM	2462	0.0	628	0.0	OFF	2462	0	628	0.00	0	61.3	61.3	61.3	9.5	9.5	
1-2 PM	2699	0.0	688	0.0	OFF	2699	0	688	0.00	0	58.9	58.9	58.9	8.6	8.6	
2-3 PM	2961	0.0	755	0.0	OFF	2961	0	755+	0.00	0	56.1	56.1	56.1	7.8	7.8	
3-4 PM	3158	0.0	805	0.0	OFF	3158	0	805+	0.00	0	54.2	54.2	54.2	7.4	7.4	
4-5 PM	3449	0.0	879	0.0	OFF	3449	0	879+	0.00	0	51.2	51.2	51.2	6.8	6.8	
5-6 PM	3463	0.0	883	0.0	OFF	3463	0	883+	0.00	0	51.0	51.0	51.0	6.8	6.8	
6-7 PM	2879	0.0	734	0.0	OFF	2879	0	734+	0.00	0	57.0	57.0	57.0	7.9	7.9	
7-8 PM	2285	0.0	583	0.0	1499	2189	96	679	14.72	407	62.1	9.4	30.8	10.2	10.6	
8-9 PM	1753	0.0	447	0.0	1499	1376	377	823+	25.27	655	63.1	7.3	30.8	12.3	10.1	
9-10 PM	1290	0.0	328	0.0	1499	1135	155	484	14.51	377	64.0	9.3	31.2	14.9	13.9	
10-11 PM	908	0.0	232	0.0	1500	908	0	232	1.19	39	64.7	38.7	41.5	17.5	17.5	
11PM-MID	651	0.0	166	0.0	1500	651	0	166	0.49	0	65.1	51.0	42.9	19.3	19.3	

"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	0.0131
MAIN ROUTE WITH WORKS	0.0124
DIVERSION	0.0434

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$26,152
CONGESTED HOURS PER DAY*	1

*Delays Exceeding 15 Minutes

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

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Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY NORTHBOUND DIRECTION

