

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

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	OFF	1077	0	275	0.00	0	64.4	64.4	64.4	20.0	20.0
6-7 AM	1914	0.0	488	0.0	OFF	1914	0	488	0.00	0	62.8	62.8	62.8	17.3	17.3
7-8 AM	2680	0.0	683	0.0	OFF	2680	0	683	0.00	0	59.1	59.1	59.1	14.7	14.7
8-9 AM	2359	0.0	601	0.0	OFF	2359	0	601	0.00	0	62.0	62.0	62.0	15.8	15.8
9-10 AM	2352	0.0	599	0.0	OFF	2352	0	599	0.00	0	62.0	62.0	62.0	15.8	15.8
10-11 AM	2527	0.0	644	0.0	OFF	2527	0	644	0.00	0	60.6	60.6	60.6	15.2	15.2
11A-NOON	2674	0.0	681	0.0	OFF	2674	0	681	0.00	0	59.1	59.1	59.1	14.7	14.7
NOON-1PM	2815	0.0	717	0.0	OFF	2815	0	717	0.00	0	57.6	57.6	57.6	14.2	14.2
1-2 PM	2969	0.0	757	0.0	OFF	2969	0	757	0.00	0	56.1	56.1	56.1	13.7	13.7
2-3 PM	3289	0.0	838	0.0	OFF	3289	0	838	0.00	0	52.8	52.8	52.8	12.9	12.9
3-4 PM	3433	0.0	875	0.0	OFF	3433	0	875	0.00	0	51.4	51.4	51.4	12.5	12.5
4-5 PM	3449	0.0	879	0.0	OFF	3449	0	879	0.00	0	51.2	51.2	51.2	12.5	12.5
5-6 PM	2955	0.0	753	0.0	OFF	2955	0	753	0.00	0	56.2	56.2	56.2	13.8	13.8
6-7 PM	2214	0.0	564	0.0	OFF	2214	0	564	0.00	0	62.3	62.3	62.3	16.3	16.3
7-8 PM	1596	0.0	407	0.0	1499	1596	0	407	3.72	76	63.4	20.6	30.8	18.3	18.3
8-9 PM	1290	0.0	328	0.0	1499	1290	0	328	1.52	29	64.0	34.5	34.8	19.3	19.3
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

"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	0.0133
MAIN ROUTE WITH WORKS	0.0128
DIVERSION	0.0417

PIA: Personal Injury Accidents

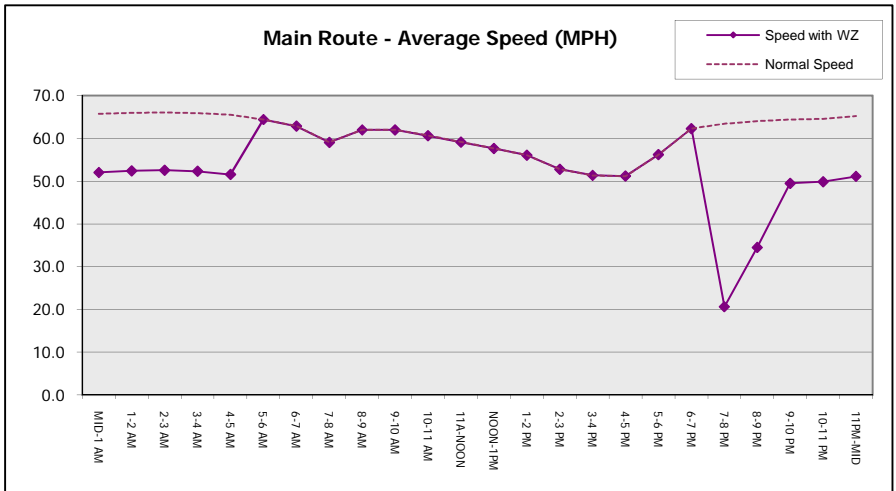
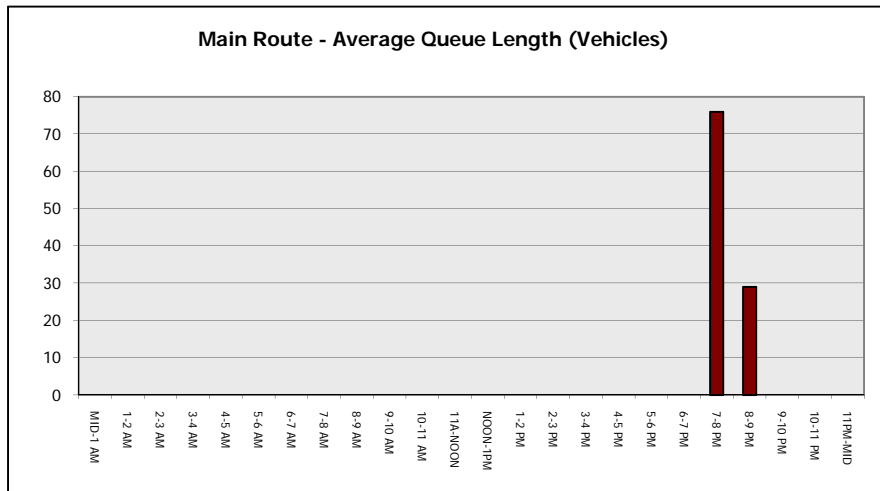
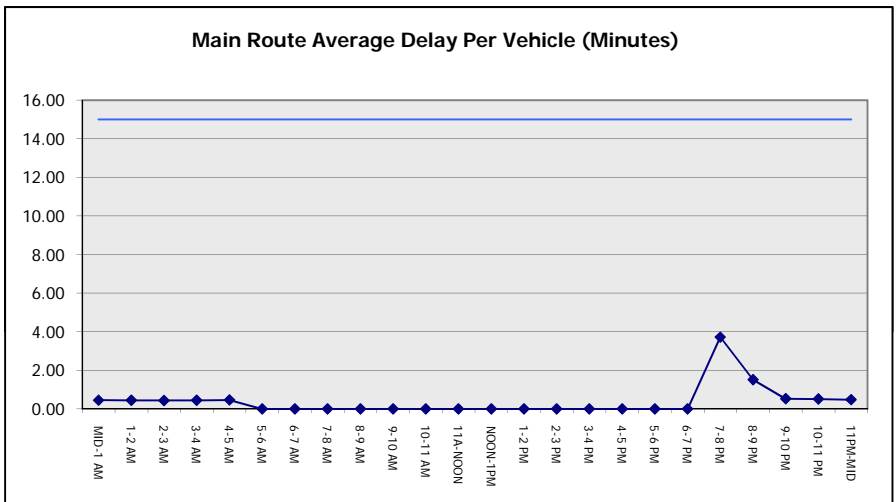
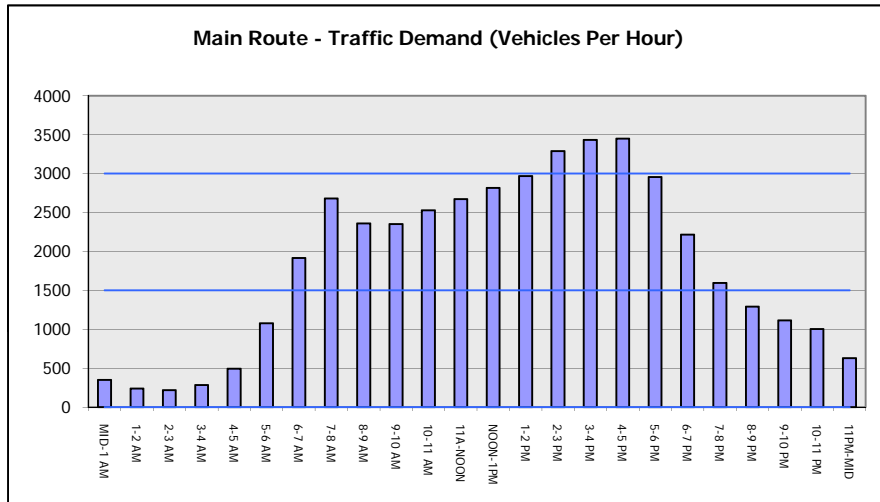
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,707
CONGESTED HOURS PER DAY*	0

*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
FRIDAY 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	
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	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	OFF	966	0	246	0.00	0	64.6	64.6	64.6	17.1	17.1
6-7 AM	1744	0.0	445	0.0	OFF	1744	0	445	0.00	0	63.2	63.2	63.2	12.4	12.4
7-8 AM	2380	0.0	606	0.0	OFF	2380	0	606	0.00	0	62.0	62.0	62.0	9.8	9.8
8-9 AM	2032	0.0	518	0.0	OFF	2032	0	518	0.00	0	62.6	62.6	62.6	11.2	11.2
9-10 AM	2183	0.0	557	0.0	OFF	2183	0	557	0.00	0	62.3	62.3	62.3	10.6	10.6
10-11 AM	2465	0.0	628	0.0	OFF	2465	0	628	0.00	0	61.2	61.2	61.2	9.5	9.5
11A-NOON	2647	0.0	675	0.0	OFF	2647	0	675	0.00	0	59.4	59.4	59.4	8.8	8.8
NOON-1PM	2806	0.0	715	0.0	OFF	2806	0	715	0.00	0	57.8	57.8	57.8	8.1	8.1
1-2 PM	3026	0.0	771	0.0	OFF	3026	0	771+	0.00	0	55.5	55.5	55.5	7.7	7.7
2-3 PM	3191	0.0	813	0.0	OFF	3191	0	813+	0.00	0	53.8	53.8	53.8	7.3	7.3
3-4 PM	3399	0.0	867	0.0	OFF	3399	0	867+	0.00	0	51.7	51.7	51.7	7.0	7.0
4-5 PM	3497	0.0	891	0.0	OFF	3497	0	891+	0.00	0	50.7	50.7	50.7	6.8	6.8
5-6 PM	3460	0.0	882	0.0	OFF	3460	0	882+	0.00	0	51.0	51.0	51.0	6.8	6.8
6-7 PM	3006	0.0	766	0.0	OFF	3006	0	766+	0.00	0	55.7	55.7	55.7	7.7	7.7
7-8 PM	2389	0.0	609	0.0	1499	2268	121	731+	16.35	454	61.9	9.0	30.8	9.8	10.2
8-9 PM	1842	0.0	469	0.0	1500	1387	454	924+	28.56	744	63.0	7.0	30.8	12.0	9.4
9-10 PM	1377	0.0	351	0.0	1499	1132	245	596	18.12	471	63.8	8.4	30.8	14.3	12.4
10-11 PM	979	0.0	250	0.0	1499	979	0	250	2.08	91	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

"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	0.0138
MAIN ROUTE WITH WORKS	0.0130
DIVERSION	0.0463

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$32,276
CONGESTED HOURS PER DAY*	3

*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
FRIDAY NORTHBOUND DIRECTION

