

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

SUNDAY 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	355	0.0	91	0.0	1500	355	0	91	0.46	0	65.7	52.0	44.1	22.4	22.4
1-2 AM	219	0.0	56	0.0	1500	219	0	56	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	160	0.0	41	0.0	1500	160	0	41	0.44	0	66.1	52.7	44.8	23.0	23.0
4-5 AM	173	0.0	44	0.0	1500	173	0	44	0.44	0	66.1	52.7	44.8	23.0	23.0
5-6 AM	271	0.0	69	0.0	1500	271	0	69	0.45	0	65.9	52.3	44.4	22.7	22.7
6-7 AM	430	0.0	109	0.0	1500	430	0	109	0.46	0	65.6	51.8	43.8	22.2	22.2
7-8 AM	625	0.0	160	0.0	1500	625	0	160	0.48	0	65.2	51.1	43.0	21.5	21.5
8-9 AM	1012	0.0	258	0.0	1499	1012	0	258	0.52	0	64.5	49.7	41.5	20.2	20.2
9-10 AM	1528	0.0	389	0.0	OFF	1528	0	389	0.00	0	63.5	63.5	63.5	18.5	18.5
10-11 AM	2259	0.0	575	0.0	OFF	2259	0	575	0.00	0	62.2	62.2	62.2	16.1	16.1
11A-NOON	2757	0.0	703	0.0	OFF	2757	0	703	0.00	0	58.2	58.2	58.2	14.4	14.4
NOON-1PM	2899	0.0	739	0.0	OFF	2899	0	739	0.00	0	56.8	56.8	56.8	14.0	14.0
1-2 PM	2957	0.0	754	0.0	OFF	2957	0	754	0.00	0	56.2	56.2	56.2	13.8	13.8
2-3 PM	3328	0.0	848	0.0	OFF	3328	0	848	0.00	0	52.4	52.4	52.4	12.7	12.7
3-4 PM	3408	0.0	869	0.0	OFF	3408	0	869	0.00	0	51.6	51.6	51.6	12.6	12.6
4-5 PM	3354	0.0	856	0.0	OFF	3354	0	856	0.00	0	52.2	52.2	52.2	12.7	12.7
5-6 PM	3038	0.0	774	0.0	OFF	3038	0	774	0.00	0	55.4	55.4	55.4	13.5	13.5
6-7 PM	2516	0.0	641	0.0	OFF	2516	0	641	0.00	0	60.7	60.7	60.7	15.2	15.2
7-8 PM	1828	0.0	466	0.0	1499	1751	77	544	7.51	187	63.0	13.1	30.8	17.5	17.1
8-9 PM	1164	0.0	296	0.0	1499	1143	21	318	2.96	108	64.2	24.6	36.3	19.7	19.7
9-10 PM	756	0.0	193	0.0	1500	756	0	193	0.50	0	65.0	50.7	42.5	21.1	21.1
10-11 PM	558	0.0	142	0.0	1500	558	0	142	0.48	0	65.3	51.4	43.3	21.7	21.7
11PM-MID	520	0.0	133	0.0	1500	520	0	133	0.47	0	65.4	51.5	43.4	21.9	21.9

"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	0.0110
MAIN ROUTE WITH WORKS	0.0104
DIVERSION	0.0348

PIA: Personal Injury Accidents

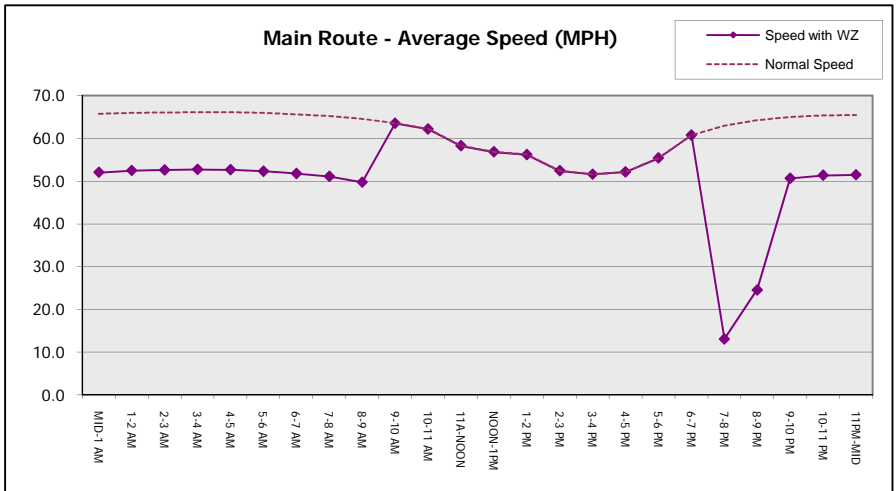
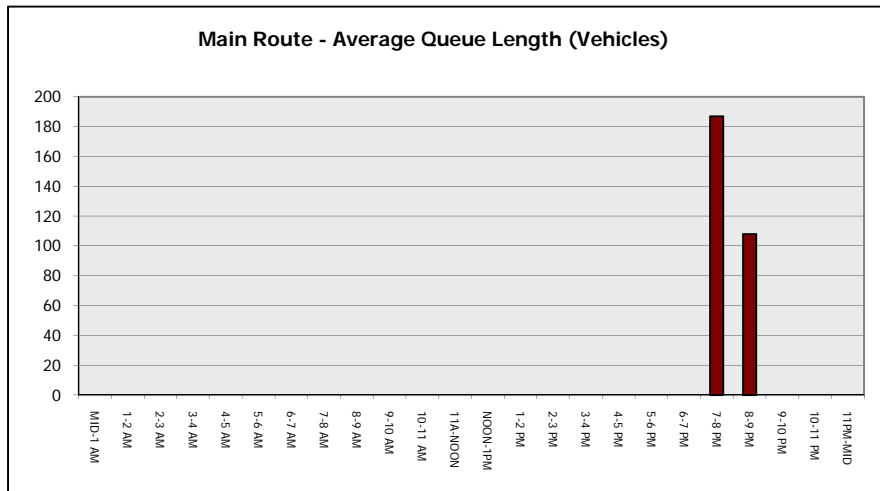
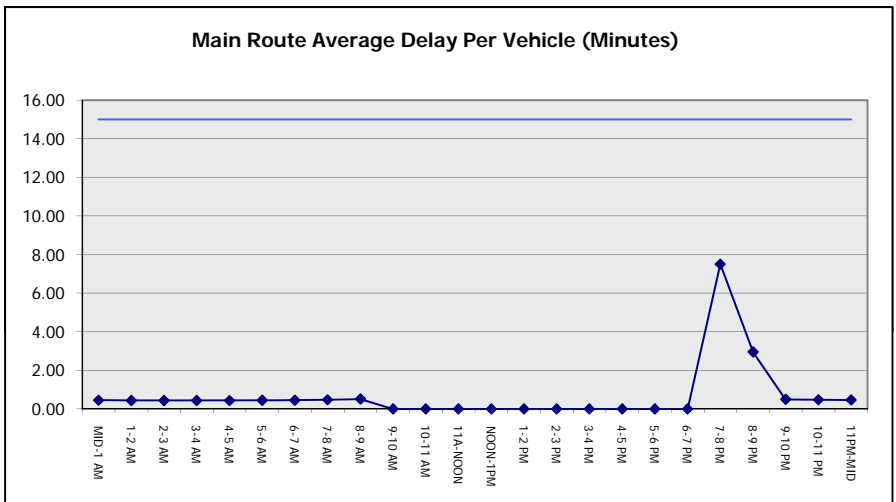
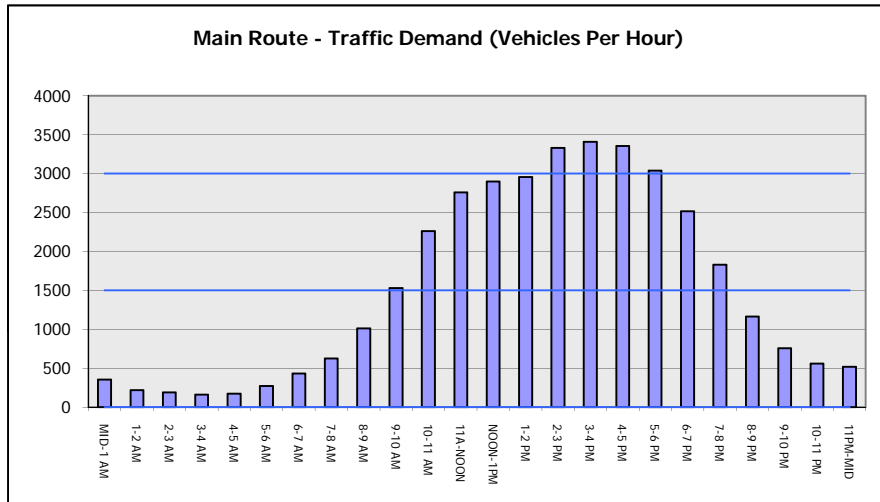
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$5,815
CONGESTED HOURS PER DAY*	0

*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
SUNDAY SOUTHBOUND DIRECTION



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	
SUNDAY	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	292	0.0	74	0.0	1500	292	0	74	0.45	0	65.8	52.2	44.3	21.6	21.6
1-2 AM	197	0.0	50	0.0	1500	197	0	50	0.44	0	66.0	52.6	44.7	22.3	22.3
2-3 AM	146	0.0	37	0.0	1500	146	0	37	0.44	0	66.1	52.8	44.9	22.6	22.6
3-4 AM	110	0.0	28	0.0	1500	110	0	28	0.43	0	66.2	52.9	45.0	22.9	22.9
4-5 AM	124	0.0	31	0.0	1500	124	0	31	0.43	0	66.1	52.8	45.0	22.8	22.8
5-6 AM	278	0.0	71	0.0	1500	278	0	71	0.45	0	65.9	52.3	44.4	21.7	21.7
6-7 AM	335	0.0	85	0.0	1500	335	0	85	0.45	0	65.8	52.1	44.2	21.4	21.4
7-8 AM	534	0.0	136	0.0	1500	534	0	136	0.47	0	65.4	51.4	43.3	20.0	20.0
8-9 AM	1169	0.0	298	0.0	1499	1169	0	298	0.64	0	64.2	47.2	38.5	15.8	15.8
9-10 AM	1594	0.0	407	0.0	OFF	1594	0	407	0.00	0	63.4	63.4	63.4	12.9	12.9
10-11 AM	1778	0.0	453	0.0	OFF	1778	0	453	0.00	0	63.1	63.1	63.1	12.2	12.2
11A-NOON	1998	0.0	510	0.0	OFF	1998	0	510	0.00	0	62.7	62.7	62.7	11.4	11.4
NOON-1PM	2183	0.0	557	0.0	OFF	2183	0	557	0.00	0	62.3	62.3	62.3	10.6	10.6
1-2 PM	2186	0.0	558	0.0	OFF	2186	0	558	0.00	0	62.3	62.3	62.3	10.6	10.6
2-3 PM	2255	0.0	575	0.0	OFF	2255	0	575	0.00	0	62.2	62.2	62.2	10.3	10.3
3-4 PM	2359	0.0	601	0.0	OFF	2359	0	601	0.00	0	62.0	62.0	62.0	9.9	9.9
4-5 PM	2235	0.0	569	0.0	OFF	2235	0	569	0.00	0	62.2	62.2	62.2	10.4	10.4
5-6 PM	2014	0.0	514	0.0	OFF	2014	0	514	0.00	0	62.7	62.7	62.7	11.3	11.3
6-7 PM	1726	0.0	440	0.0	OFF	1726	0	440	0.00	0	63.2	63.2	63.2	12.4	12.4
7-8 PM	1395	0.0	355	0.0	1500	1395	0	355	0.89	0	63.8	42.6	33.1	14.2	14.2
8-9 PM	929	0.0	237	0.0	1500	929	0	237	0.51	0	64.6	50.1	41.9	17.3	17.3
9-10 PM	690	0.0	176	0.0	1500	690	0	176	0.49	0	65.1	50.9	42.8	18.9	18.9
10-11 PM	498	0.0	127	0.0	1500	498	0	127	0.47	0	65.5	51.5	43.5	20.2	20.2
11PM-MID	283	0.0	72	0.0	1500	283	0	72	0.45	0	65.9	52.3	44.3	21.7	21.7

"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	0.0083
MAIN ROUTE WITH WORKS	0.0078
DIVERSION	0.0259

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,202
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
SUNDAY NORTHBOUND DIRECTION

