

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

SATURDAY 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	297	0.0	76	0.0	1500	297	0	76	0.45	0	65.8	52.2	44.3	22.6	22.6
1-2 AM	206	0.0	53	0.0	1500	206	0	53	0.44	0	66.0	52.5	44.6	22.9	22.9
2-3 AM	185	0.0	47	0.0	1500	185	0	47	0.44	0	66.0	52.6	44.7	23.0	23.0
3-4 AM	171	0.0	43	0.0	1500	171	0	43	0.44	0	66.1	52.7	44.8	23.0	23.0
4-5 AM	277	0.0	71	0.0	1500	277	0	71	0.45	0	65.9	52.3	44.4	22.7	22.7
5-6 AM	483	0.0	124	0.0	1500	483	0	124	0.47	0	65.5	51.6	43.6	22.0	22.0
6-7 AM	899	0.0	230	0.0	1500	899	0	230	0.51	0	64.7	50.2	42.0	20.6	20.6
7-8 AM	1555	0.0	396	0.0	1499	1555	0	396	1.59	21	63.5	33.7	31.5	18.4	18.4
8-9 AM	1853	0.0	473	0.0	OFF	1853	0	473	0.03	1	62.9	61.9	61.9	17.5	17.5
9-10 AM	2104	0.0	536	0.0	OFF	2104	0	536	0.00	0	62.5	62.5	62.5	16.6	16.6
10-11 AM	2336	0.0	595	0.0	OFF	2336	0	595	0.00	0	62.0	62.0	62.0	15.8	15.8
11A-NOON	2314	0.0	590	0.0	OFF	2314	0	590	0.00	0	62.1	62.1	62.1	15.9	15.9
NOON-1PM	2350	0.0	599	0.0	OFF	2350	0	599	0.00	0	62.0	62.0	62.0	15.8	15.8
1-2 PM	2207	0.0	563	0.0	OFF	2207	0	563	0.00	0	62.3	62.3	62.3	16.3	16.3
2-3 PM	2217	0.0	565	0.0	OFF	2217	0	565	0.00	0	62.2	62.2	62.2	16.2	16.2
3-4 PM	2202	0.0	561	0.0	OFF	2202	0	561	0.00	0	62.3	62.3	62.3	16.3	16.3
4-5 PM	2207	0.0	563	0.0	OFF	2207	0	563	0.00	0	62.3	62.3	62.3	16.3	16.3
5-6 PM	2035	0.0	519	0.0	OFF	2035	0	519	0.00	0	62.6	62.6	62.6	16.8	16.8
6-7 PM	1762	0.0	449	0.0	1499	1751	11	460	5.87	147	63.1	15.5	30.8	17.8	17.9
7-8 PM	1449	0.0	370	0.0	1499	1397	52	422	8.49	203	63.7	12.0	30.8	18.8	18.8
8-9 PM	1199	0.0	306	0.0	1499	1199	0	306	1.60	43	64.1	33.7	36.8	19.6	19.6
9-10 PM	1034	0.0	264	0.0	1500	1034	0	264	0.52	0	64.5	49.7	41.5	20.2	20.2
10-11 PM	825	0.0	210	0.0	1500	825	0	210	0.50	0	64.8	50.4	42.3	20.9	20.9
11PM-MID	537	0.0	137	0.0	1500	537	0	137	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	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	0.0099
MAIN ROUTE WITH WORKS	0.0092
DIVERSION	0.0313

PIA: Personal Injury Accidents

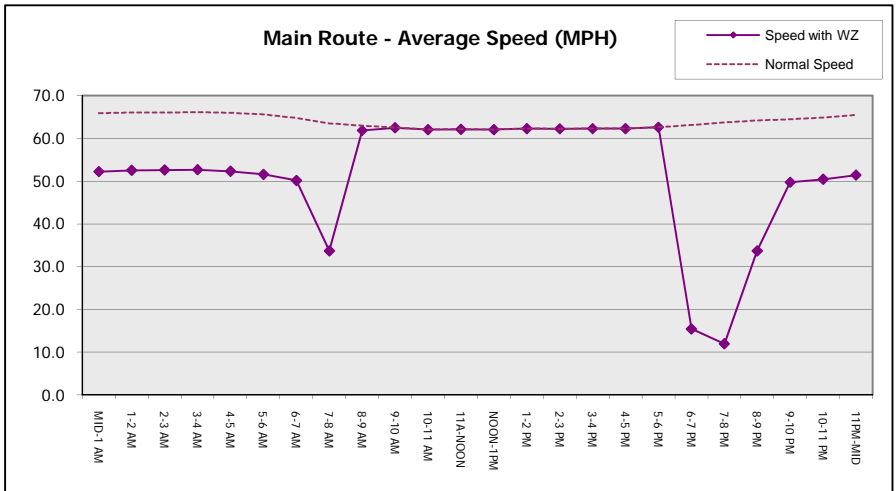
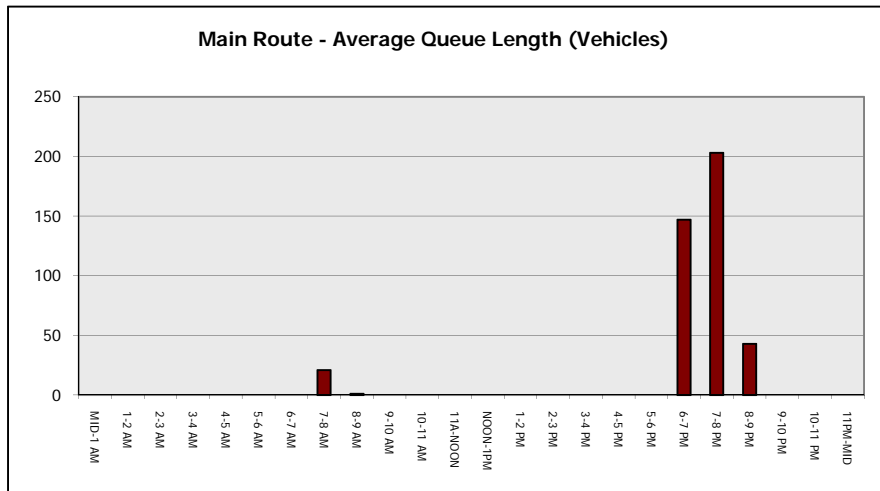
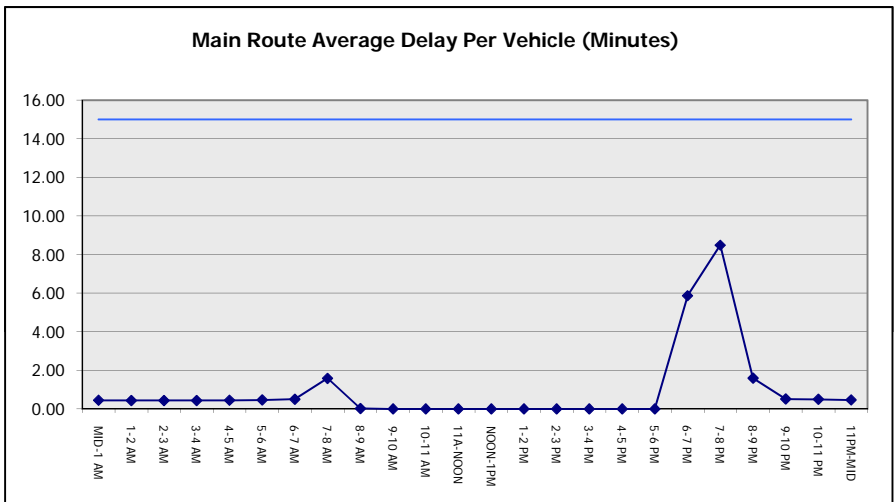
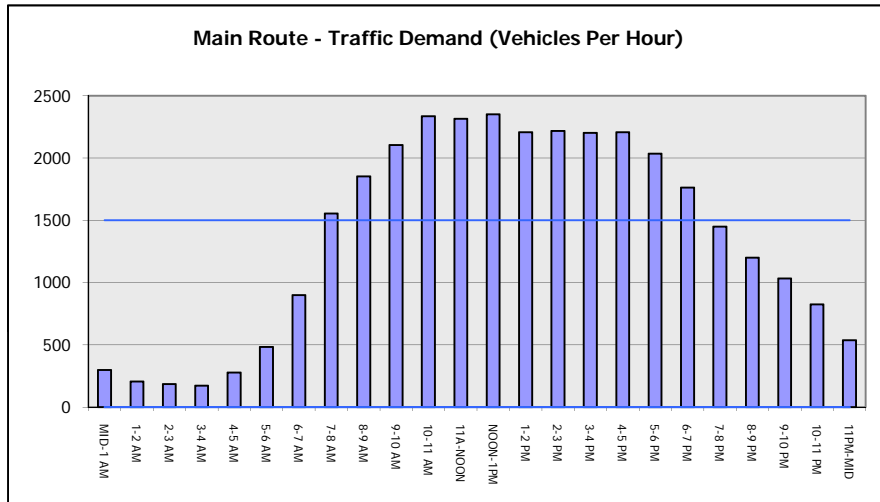
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$8,355
CONGESTED HOURS PER DAY*	0

*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
SATURDAY 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	
SATURDAY	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	346	0.0	89	0.0	1500	346	0	89	0.46	0	65.8	52.0	44.1	21.2	21.2
1-2 AM	217	0.0	56	0.0	1500	217	0	56	0.44	0	66.0	52.5	44.6	22.1	22.1
2-3 AM	184	0.0	47	0.0	1500	184	0	47	0.44	0	66.0	52.6	44.8	22.4	22.4
3-4 AM	173	0.0	44	0.0	1500	173	0	44	0.44	0	66.1	52.7	44.8	22.4	22.4
4-5 AM	229	0.0	58	0.0	1500	229	0	58	0.44	0	66.0	52.5	44.6	22.0	22.0
5-6 AM	470	0.0	120	0.0	1500	470	0	120	0.47	0	65.5	51.6	43.6	20.4	20.4
6-7 AM	655	0.0	167	0.0	1500	655	0	167	0.49	0	65.1	51.0	42.9	19.2	19.2
7-8 AM	1074	0.0	274	0.0	1499	1074	0	274	0.56	0	64.4	49.0	40.6	16.4	16.4
8-9 AM	1434	0.0	365	0.0	OFF	1434	0	365	0.00	0	63.7	63.7	63.7	14.0	14.0
9-10 AM	1915	0.0	488	0.0	OFF	1915	0	488	0.00	0	62.8	62.8	62.8	11.7	11.7
10-11 AM	2353	0.0	600	0.0	OFF	2353	0	600	0.00	0	62.0	62.0	62.0	9.9	9.9
11A-NOON	2494	0.0	636	0.0	OFF	2494	0	636	0.00	0	60.9	60.9	60.9	9.4	9.4
NOON-1PM	2424	0.0	618	0.0	OFF	2424	0	618	0.00	0	61.7	61.7	61.7	9.7	9.7
1-2 PM	2372	0.0	604	0.0	OFF	2372	0	604	0.00	0	62.0	62.0	62.0	9.9	9.9
2-3 PM	2264	0.0	578	0.0	OFF	2264	0	578	0.00	0	62.2	62.2	62.2	10.3	10.3
3-4 PM	2282	0.0	582	0.0	OFF	2282	0	582	0.00	0	62.2	62.2	62.2	10.2	10.2
4-5 PM	2288	0.0	584	0.0	OFF	2288	0	584	0.00	0	62.1	62.1	62.1	10.2	10.2
5-6 PM	2197	0.0	560	0.0	OFF	2197	0	560	0.00	0	62.3	62.3	62.3	10.6	10.6
6-7 PM	1846	0.0	470	0.0	1499	1846	0	470	7.41	194	63.0	13.5	30.8	11.9	12.5
7-8 PM	1489	0.0	380	0.0	1499	1448	42	422	13.47	336	63.6	9.5	30.8	13.6	14.4
8-9 PM	1231	0.0	314	0.0	1499	1231	0	314	6.56	173	64.1	14.6	32.7	15.3	15.8
9-10 PM	1011	0.0	257	0.0	1500	1011	0	257	0.54	0	64.5	49.4	41.6	16.8	16.8
10-11 PM	705	0.0	180	0.0	1500	705	0	180	0.49	0	65.1	50.9	42.7	18.8	18.8
11PM-MID	487	0.0	125	0.0	1500	487	0	125	0.47	0	65.5	51.5	43.5	20.3	20.3

"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	0.0097
MAIN ROUTE WITH WORKS	0.0090
DIVERSION	0.0307

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$12,634
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
SATURDAY NORTHBOUND DIRECTION

