

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

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	220	0.0	57	0.0	1500	220	0	57	0.44	0	66.0	52.5	44.6	22.9	22.9
1-2 AM	188	0.0	48	0.0	1500	188	0	48	0.44	0	66.0	52.6	44.7	23.0	23.0
2-3 AM	208	0.0	53	0.0	1500	208	0	53	0.44	0	66.0	52.5	44.6	22.9	22.9
3-4 AM	265	0.0	67	0.0	1500	265	0	67	0.45	0	65.9	52.4	44.4	22.7	22.7
4-5 AM	481	0.0	123	0.0	1500	481	0	123	0.47	0	65.5	51.6	43.6	22.0	22.0
5-6 AM	1121	0.0	286	0.0	OFF	1121	0	286	0.00	0	64.3	64.3	64.3	19.9	19.9
6-7 AM	1984	0.0	505	0.0	OFF	1984	0	505	0.00	0	62.7	62.7	62.7	17.0	17.0
7-8 AM	2820	0.0	719	0.0	OFF	2820	0	719	0.00	0	57.6	57.6	57.6	14.2	14.2
8-9 AM	2315	0.0	590	0.0	OFF	2315	0	590	0.00	0	62.1	62.1	62.1	15.9	15.9
9-10 AM	2094	0.0	533	0.0	OFF	2094	0	533	0.00	0	62.5	62.5	62.5	16.6	16.6
10-11 AM	2245	0.0	572	0.0	OFF	2245	0	572	0.00	0	62.2	62.2	62.2	16.1	16.1
11A-NOON	2412	0.0	615	0.0	OFF	2412	0	615	0.00	0	61.8	61.8	61.8	15.6	15.6
NOON-1PM	2611	0.0	666	0.0	OFF	2611	0	666	0.00	0	59.7	59.7	59.7	14.9	14.9
1-2 PM	2776	0.0	708	0.0	OFF	2776	0	708	0.00	0	58.1	58.1	58.1	14.3	14.3
2-3 PM	3036	0.0	774	0.0	OFF	3036	0	774	0.00	0	55.4	55.4	55.4	13.5	13.5
3-4 PM	3400	0.0	867	0.0	OFF	3400	0	867	0.00	0	51.7	51.7	51.7	12.6	12.6
4-5 PM	3575	0.0	911	0.0	OFF	3575	0	911	0.00	0	49.9	49.9	49.9	12.3	12.3
5-6 PM	3182	0.0	811	0.0	OFF	3182	0	811	0.00	0	53.9	53.9	53.9	13.0	13.0
6-7 PM	2244	0.0	572	0.0	OFF	2244	0	572	0.00	0	62.2	62.2	62.2	16.1	16.1
7-8 PM	1484	0.0	379	0.0	1499	1484	0	379	1.85	25	63.6	31.3	31.9	18.6	18.6
8-9 PM	1194	0.0	305	0.0	1500	1194	0	305	0.63	0	64.1	47.4	38.6	19.6	19.6
9-10 PM	1016	0.0	259	0.0	1500	1016	0	259	0.52	0	64.5	49.8	41.6	20.2	20.2
10-11 PM	828	0.0	211	0.0	1500	828	0	211	0.50	0	64.8	50.4	42.3	20.9	20.9
11PM-MID	513	0.0	131	0.0	1500	513	0	131	0.47	0	65.5	51.5	43.5	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	0.0128
MAIN ROUTE WITH WORKS	0.0124
DIVERSION	0.0401

PIA: Personal Injury Accidents

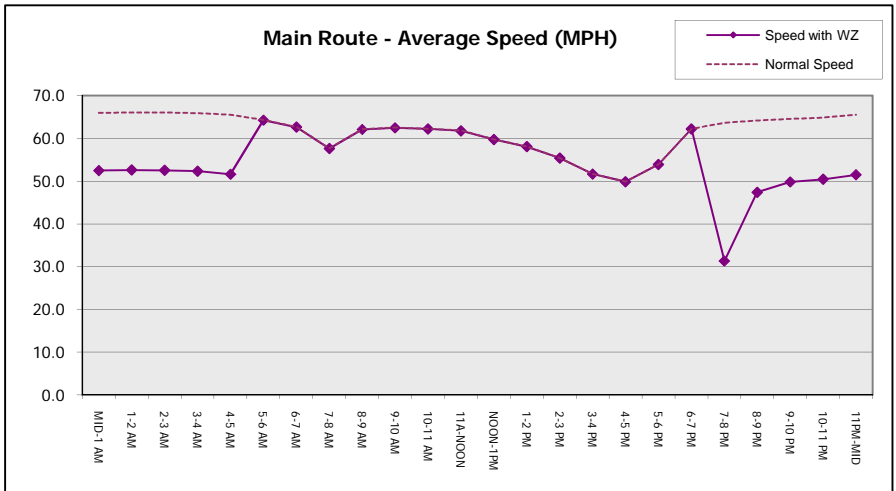
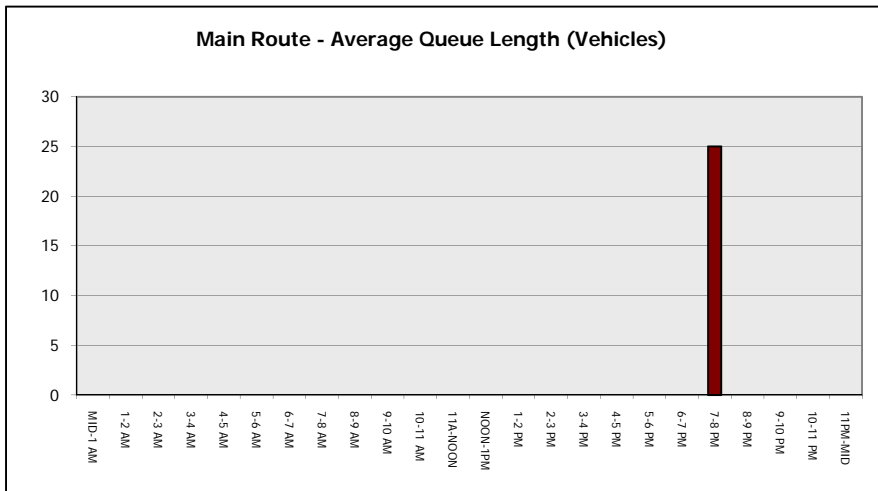
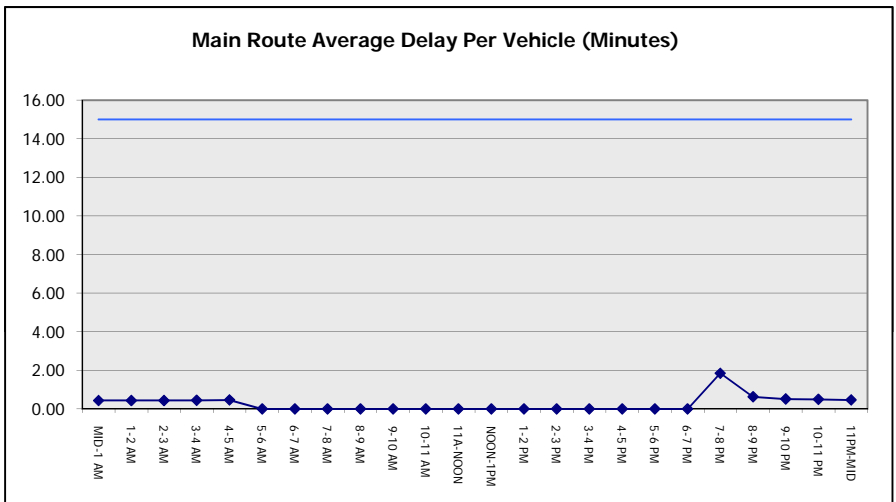
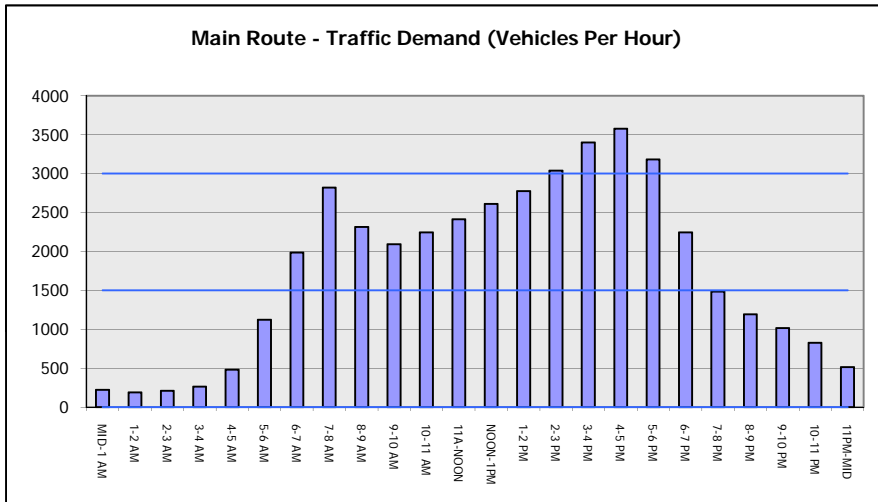
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,372
CONGESTED HOURS PER DAY*	0

*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
FRIDAY 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	
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	257	0.0	66	0.0	1500	257	0	66	0.45	0	65.9	52.4	44.5	21.9	21.9
1-2 AM	199	0.0	50	0.0	1500	199	0	50	0.44	0	66.0	52.6	44.7	22.3	22.3
2-3 AM	198	0.0	50	0.0	1500	198	0	50	0.44	0	66.0	52.6	44.7	22.3	22.3
3-4 AM	230	0.0	59	0.0	1500	230	0	59	0.44	0	66.0	52.5	44.6	22.0	22.0
4-5 AM	377	0.0	96	0.0	1500	377	0	96	0.46	0	65.7	51.9	44.0	21.1	21.1
5-6 AM	956	0.0	244	0.0	OFF	956	0	244	0.00	0	64.6	64.6	64.6	17.1	17.1
6-7 AM	1781	0.0	454	0.0	OFF	1781	0	454	0.00	0	63.1	63.1	63.1	12.2	12.2
7-8 AM	2545	0.0	649	0.0	OFF	2545	0	649	0.00	0	60.4	60.4	60.4	9.2	9.2
8-9 AM	1963	0.0	500	0.0	OFF	1963	0	500	0.00	0	62.7	62.7	62.7	11.5	11.5
9-10 AM	2046	0.0	522	0.0	OFF	2046	0	522	0.00	0	62.6	62.6	62.6	11.2	11.2
10-11 AM	2250	0.0	573	0.0	OFF	2250	0	573	0.00	0	62.2	62.2	62.2	10.4	10.4
11A-NOON	2507	0.0	639	0.0	OFF	2507	0	639	0.00	0	60.8	60.8	60.8	9.3	9.3
NOON-1PM	2610	0.0	665	0.0	OFF	2610	0	665	0.00	0	59.7	59.7	59.7	8.9	8.9
1-2 PM	2857	0.0	729	0.0	OFF	2857	0	729+	0.00	0	57.3	57.3	57.3	8.0	8.0
2-3 PM	3150	0.0	803	0.0	OFF	3150	0	803+	0.00	0	54.2	54.2	54.2	7.5	7.5
3-4 PM	3450	0.0	879	0.0	OFF	3450	0	879+	0.00	0	51.2	51.2	51.2	6.8	6.8
4-5 PM	3676	0.0	937	0.0	OFF	3676	0	937+	0.00	0	48.8	48.8	48.8	6.4	6.4
5-6 PM	3655	0.0	932	0.0	OFF	3655	0	932+	0.00	0	49.1	49.1	49.1	6.5	6.5
6-7 PM	2920	0.0	744	0.0	OFF	2920	0	744+	0.00	0	56.6	56.6	56.6	7.9	7.9
7-8 PM	2120	0.0	540	0.0	1499	2055	65	606	12.50	340	62.4	10.1	30.8	10.9	11.3
8-9 PM	1524	0.0	388	0.0	1499	1300	224	613	18.43	472	63.5	8.3	30.8	13.4	12.0
9-10 PM	1194	0.0	305	0.0	1500	1178	16	320	7.77	210	64.1	13.2	33.2	15.5	16.0
10-11 PM	800	0.0	204	0.0	1500	800	0	204	0.53	0	64.9	50.0	42.4	18.2	18.2
11PM-MID	571	0.0	146	0.0	1500	571	0	146	0.48	0	65.3	51.3	43.2	19.7	19.7

"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	0.0133
MAIN ROUTE WITH WORKS	0.0127
DIVERSION	0.0428

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$16,873
CONGESTED HOURS PER DAY*	1

*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
FRIDAY NORTHBOUND DIRECTION

