

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) OFF-PEAK DAY 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	OFF	220	0	57	0.00	0	66.0	66.0	66.0	22.9	22.9
1-2 AM	188	0.0	48	0.0	OFF	188	0	48	0.00	0	66.0	66.0	66.0	23.0	23.0
2-3 AM	208	0.0	53	0.0	OFF	208	0	53	0.00	0	66.0	66.0	66.0	22.9	22.9
3-4 AM	265	0.0	67	0.0	OFF	265	0	67	0.00	0	65.9	65.9	65.9	22.7	22.7
4-5 AM	481	0.0	123	0.0	OFF	481	0	123	0.00	0	65.5	65.5	65.5	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	1499	1974	271	844	11.12	299	62.2	10.7	30.8	16.1	14.8
11A-NOON	2412	0.0	615	0.0	1499	1632	780	1395	21.09	544	61.8	7.8	30.8	15.6	11.1
NOON-1PM	2611	0.0	666	0.0	1499	1604	1008	1674+	25.30	661	59.7	7.3	30.8	14.9	10.0
1-2 PM	2776	0.0	708	0.0	1500	1604	1172	1880+	28.72	756	58.1	7.0	30.8	14.3	9.4
2-3 PM	3036	0.0	774	0.0	1499	1517	1518	2293+	30.70	815	55.4	6.8	30.8	13.5	9.1
3-4 PM	3400	0.0	867	0.0	OFF	3400	0	867	8.26	530	51.7	10.9	10.9	12.6	12.6
4-5 PM	3575	0.0	911	0.0	OFF	3575	0	911	1.05	62	49.9	34.2	34.2	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	OFF	1484	0	379	0.00	0	63.6	63.6	63.6	18.6	18.6
8-9 PM	1194	0.0	305	0.0	OFF	1194	0	305	0.00	0	64.1	64.1	64.1	19.6	19.6
9-10 PM	1016	0.0	259	0.0	OFF	1016	0	259	0.00	0	64.5	64.5	64.5	20.2	20.2
10-11 PM	828	0.0	211	0.0	OFF	828	0	211	0.00	0	64.8	64.8	64.8	20.9	20.9
11PM-MID	513	0.0	131	0.0	OFF	513	0	131	0.00	0	65.5	65.5	65.5	21.9	21.9

"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	0.0128
MAIN ROUTE WITH WORKS	0.0108
DIVERSION	0.0578

PIA: Personal Injury Accidents

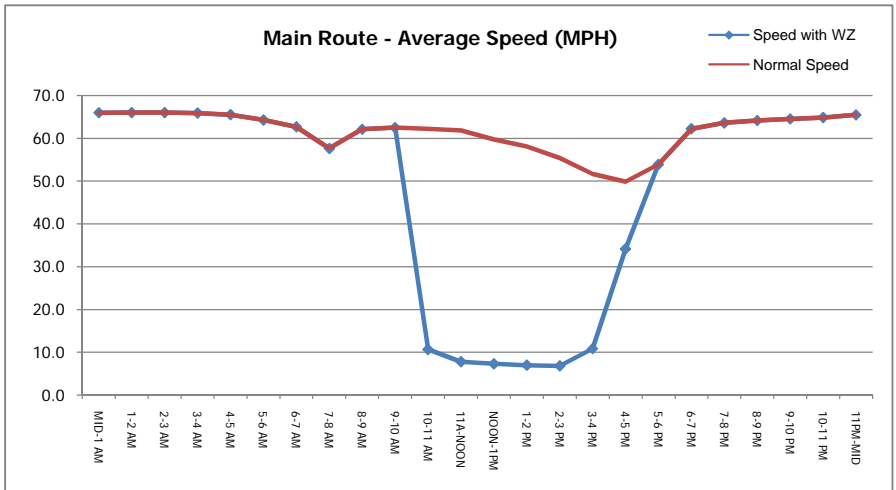
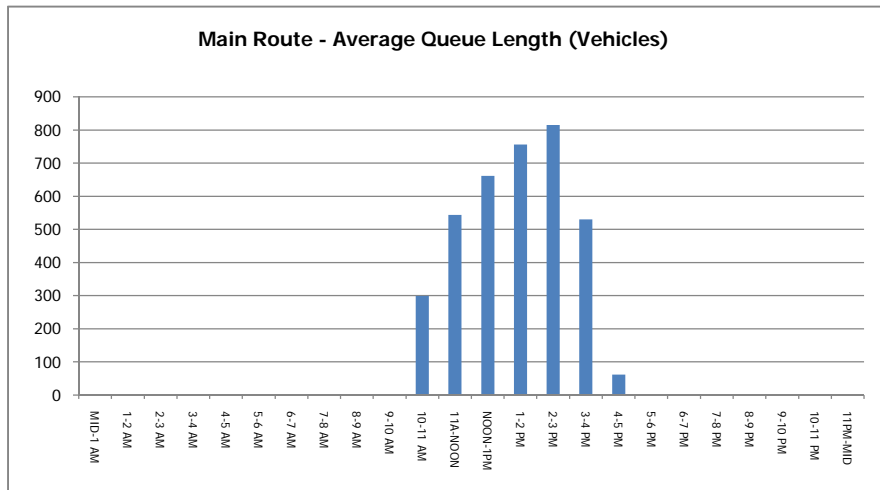
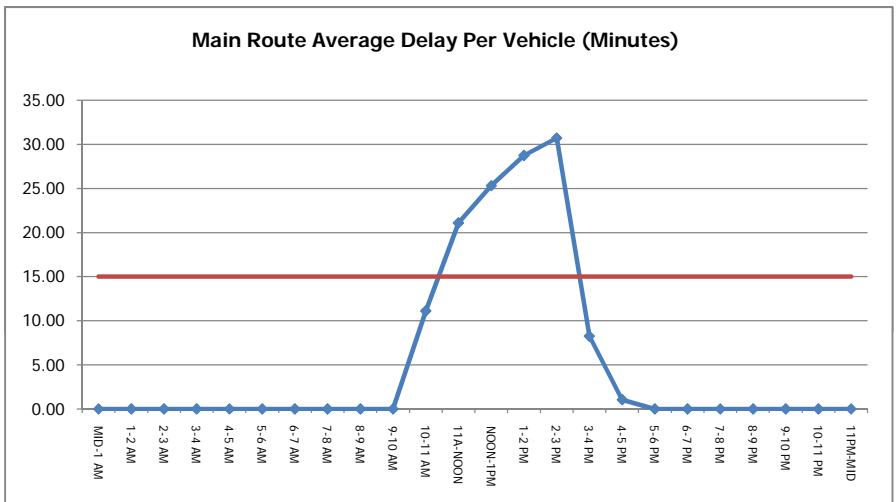
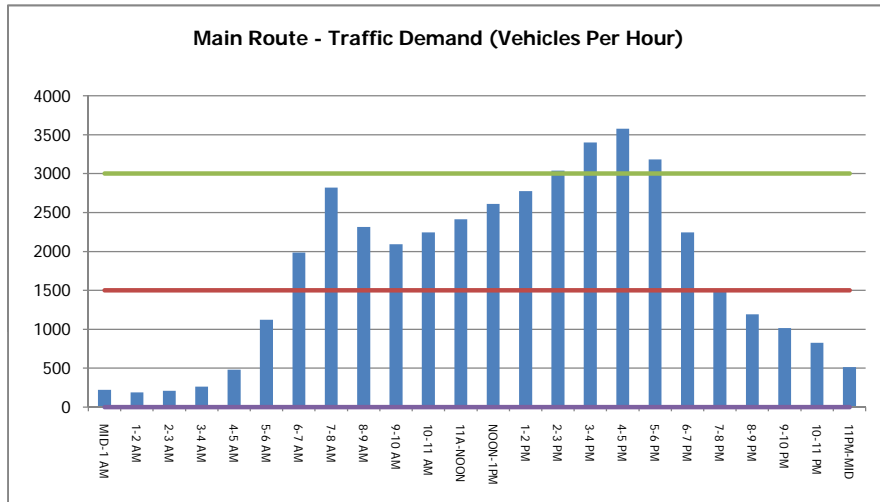
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$77,905
CONGESTED HOURS PER DAY*	4

*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
OFF-PEAK DAY 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) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: STH 21 - USH 45	OCTOBER
	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		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	257	0.0	66	0.0	OFF	257	0	66	0.00	0	65.9	65.9	65.9	21.9	21.9
1-2 AM	199	0.0	50	0.0	OFF	199	0	50	0.00	0	66.0	66.0	66.0	22.3	22.3
2-3 AM	198	0.0	50	0.0	OFF	198	0	50	0.00	0	66.0	66.0	66.0	22.3	22.3
3-4 AM	230	0.0	59	0.0	OFF	230	0	59	0.00	0	66.0	66.0	66.0	22.0	22.0
4-5 AM	377	0.0	96	0.0	OFF	377	0	96	0.00	0	65.7	65.7	65.7	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	1499	2200	50	624	12.30	353	62.2	10.4	30.8	10.4	11.2
11A-NOON	2507	0.0	639	0.0	1499	1557	950	1589+	30.03	787	60.8	6.9	31.1	9.3	9.2
NOON-1PM	2610	0.0	665	0.0	1499	1517	1093	1758+	30.02	788	59.7	6.9	30.8	8.9	9.2
1-2 PM	2857	0.0	729	0.0	1499	1531	1326	2055+	30.29	800	57.3	6.9	30.8	8.0	9.1
2-3 PM	3150	0.0	803	0.0	1499	1518	1632	2435+	30.84	821	54.2	6.8	30.8	7.5	9.0
3-4 PM	3450	0.0	879	0.0	OFF	3450	0	879+	8.54	551	51.2	10.6	10.6	6.8	6.8
4-5 PM	3676	0.0	937	0.0	OFF	3676	0	937+	1.91	117	48.8	26.9	26.9	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	OFF	2120	0	540	0.00	0	62.4	62.4	62.4	10.9	10.9
8-9 PM	1524	0.0	388	0.0	OFF	1524	0	388	0.00	0	63.5	63.5	63.5	13.4	13.4
9-10 PM	1194	0.0	305	0.0	OFF	1194	0	305	0.00	0	64.1	64.1	64.1	15.5	15.5
10-11 PM	800	0.0	204	0.0	OFF	800	0	204	0.00	0	64.9	64.9	64.9	18.2	18.2
11PM-MID	571	0.0	146	0.0	OFF	571	0	146	0.00	0	65.3	65.3	65.3	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	0.0112
DIVERSION	0.0604

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$90,224
CONGESTED HOURS PER DAY*	4

*Delays Exceeding 15 Minutes

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: STH 21 - USH 45

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY NORTHBOUND DIRECTION

