

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

MON-THUR 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	295	0.0	75	0.0	OFF	295	0	75	0.00	0	65.8	65.8	65.8	22.6	22.6
1-2 AM	224	0.0	59	0.0	OFF	224	0	59	0.00	0	66.0	66.0	66.0	22.9	22.9
2-3 AM	171	0.0	43	0.0	OFF	171	0	43	0.00	0	66.1	66.1	66.1	23.0	23.0
3-4 AM	264	0.0	67	0.0	OFF	264	0	67	0.00	0	65.9	65.9	65.9	22.7	22.7
4-5 AM	521	0.0	133	0.0	OFF	521	0	133	0.00	0	65.4	65.4	65.4	21.9	21.9
5-6 AM	1239	0.0	316	0.0	OFF	1239	0	316	0.00	0	64.1	64.1	64.1	19.5	19.5
6-7 AM	2203	0.0	562	0.0	OFF	2203	0	562	0.00	0	62.3	62.3	62.3	16.3	16.3
7-8 AM	3065	0.0	782	0.0	OFF	3065	0	782	0.00	0	55.1	55.1	55.1	13.4	13.4
8-9 AM	2334	0.0	595	0.0	OFF	2334	0	595	0.00	0	62.0	62.0	62.0	15.8	15.8
9-10 AM	1966	0.0	501	0.0	OFF	1966	0	501	0.00	0	62.7	62.7	62.7	17.1	17.1
10-11 AM	1950	0.0	496	0.0	1499	1844	106	602	7.57	201	62.8	13.4	30.8	17.1	16.5
11A-NOON	2041	0.0	520	0.0	1499	1559	483	1003	15.09	380	62.6	9.0	30.8	16.8	13.4
NOON-1PM	2112	0.0	538	0.0	1499	1533	579	1117	16.51	419	62.5	8.6	30.8	16.6	12.7
1-2 PM	2231	0.0	568	0.0	1500	1568	663	1231	18.17	464	62.2	8.3	30.8	16.2	12.0
2-3 PM	2561	0.0	653	0.0	1500	1684	877	1529+	23.11	602	60.2	7.6	30.8	15.1	10.6
3-4 PM	2905	0.0	741	0.0	OFF	2905	0	741	3.52	215	56.8	20.6	20.6	13.9	13.9
4-5 PM	3159	0.0	805	0.0	OFF	3159	0	805	0.00	0	54.2	54.2	54.2	13.1	13.1
5-6 PM	2722	0.0	694	0.0	OFF	2722	0	694	0.00	0	58.6	58.6	58.6	14.5	14.5
6-7 PM	1720	0.0	439	0.0	OFF	1720	0	439	0.00	0	63.2	63.2	63.2	17.9	17.9
7-8 PM	1191	0.0	304	0.0	OFF	1191	0	304	0.00	0	64.1	64.1	64.1	19.6	19.6
8-9 PM	1031	0.0	263	0.0	OFF	1031	0	263	0.00	0	64.5	64.5	64.5	20.2	20.2
9-10 PM	812	0.0	207	0.0	OFF	812	0	207	0.00	0	64.9	64.9	64.9	20.9	20.9
10-11 PM	606	0.0	154	0.0	OFF	606	0	154	0.00	0	65.3	65.3	65.3	21.6	21.6
11PM-MID	376	0.0	96	0.0	OFF	376	0	96	0.00	0	65.7	65.7	65.7	22.4	22.4

"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	0.0114
MAIN ROUTE WITH WORKS	0.0100
DIVERSION	0.0459

PIA: Personal Injury Accidents

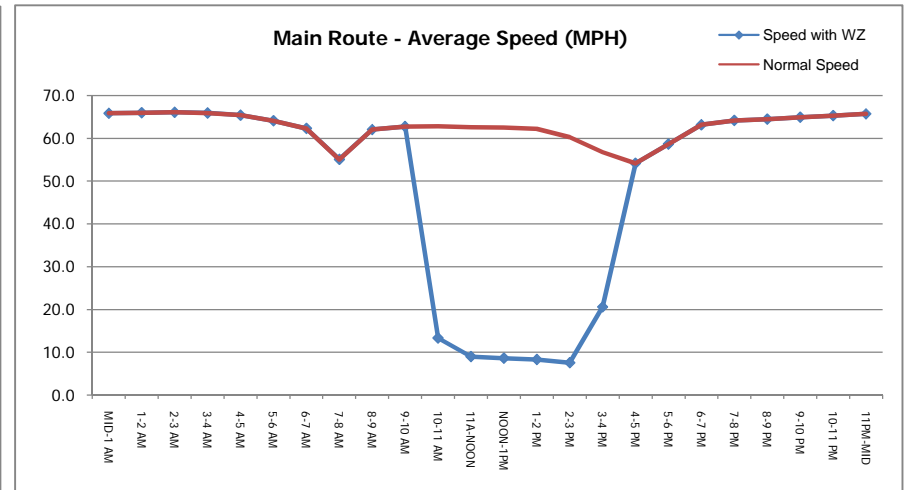
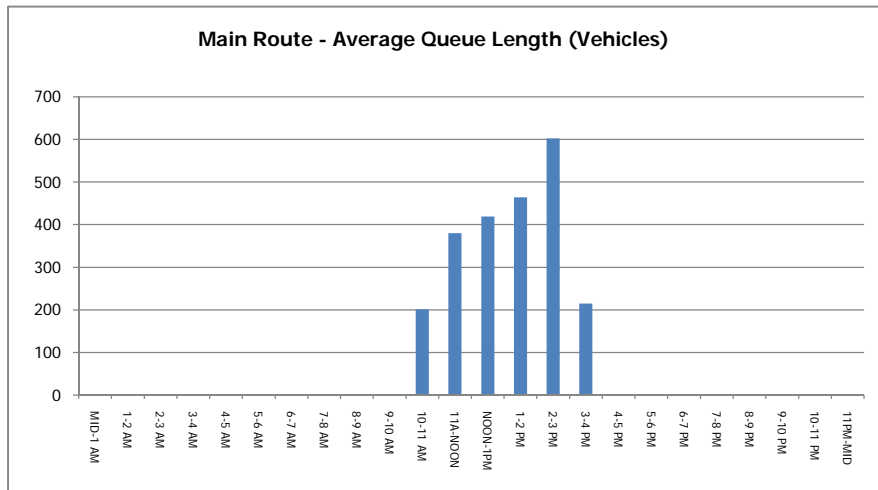
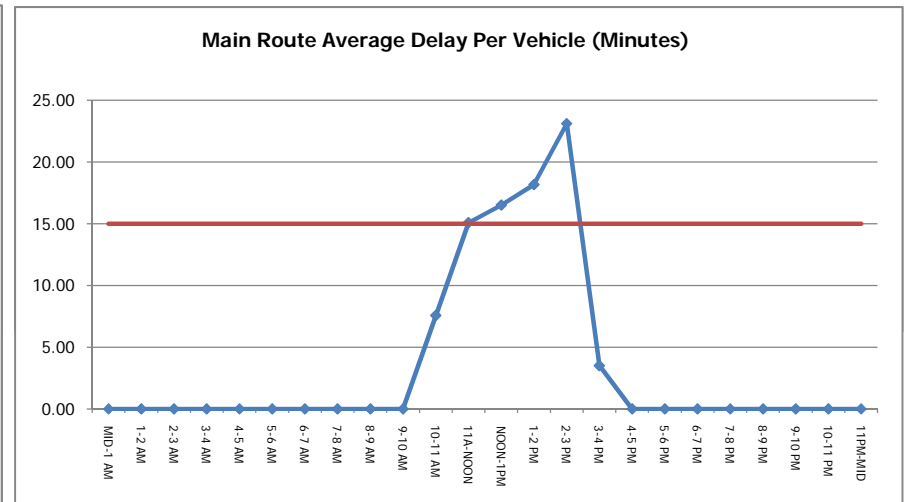
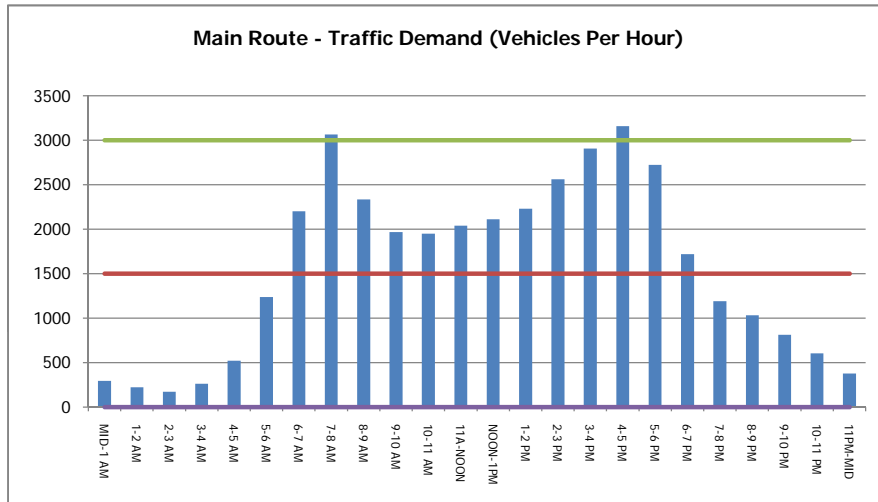
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$43,022
CONGESTED HOURS PER DAY*	4

*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
MON-THUR 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	
MON-THUR	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	211	0.0	54	0.0	OFF	211	0	54	0.00	0	66.0	66.0	66.0	22.2	22.2
1-2 AM	161	0.0	41	0.0	OFF	161	0	41	0.00	0	66.1	66.1	66.1	22.5	22.5
2-3 AM	155	0.0	39	0.0	OFF	155	0	39	0.00	0	66.1	66.1	66.1	22.5	22.5
3-4 AM	203	0.0	51	0.0	OFF	203	0	51	0.00	0	66.0	66.0	66.0	22.2	22.2
4-5 AM	359	0.0	92	0.0	OFF	359	0	92	0.00	0	65.7	65.7	65.7	21.2	21.2
5-6 AM	1008	0.0	257	0.0	OFF	1008	0	257	0.00	0	64.5	64.5	64.5	16.8	16.8
6-7 AM	1874	0.0	479	0.0	OFF	1874	0	479	0.00	0	62.9	62.9	62.9	11.8	11.8
7-8 AM	2668	0.0	680	0.0	OFF	2668	0	680	0.00	0	59.2	59.2	59.2	8.7	8.7
8-9 AM	1902	0.0	485	0.0	OFF	1902	0	485	0.00	0	62.8	62.8	62.8	11.7	11.7
9-10 AM	1798	0.0	458	0.0	OFF	1798	0	458	0.00	0	63.0	63.0	63.0	12.1	12.1
10-11 AM	1803	0.0	459	0.0	1499	1803	0	459	5.71	150	63.0	16.0	30.8	12.1	12.5
11A-NOON	1850	0.0	472	0.0	1499	1741	108	580	17.15	440	63.0	8.6	30.8	11.9	12.4
NOON-1PM	1915	0.0	488	0.0	1499	1630	285	773+	23.81	616	62.8	7.5	30.8	11.7	10.4
1-2 PM	1998	0.0	509	0.0	1499	1606	392	900+	27.69	721	62.7	7.1	30.8	11.4	9.6
2-3 PM	2267	0.0	578	0.0	1500	1502	765	1342+	29.95	782	62.2	7.0	30.8	10.3	9.3
3-4 PM	2548	0.0	650	0.0	OFF	2548	0	650	3.45	210	60.4	21.4	21.4	9.2	9.2
4-5 PM	2918	0.0	744	0.0	OFF	2918	0	744+	0.00	0	56.6	56.6	56.6	7.9	7.9
5-6 PM	2705	0.0	690	0.0	OFF	2705	0	690	0.00	0	58.8	58.8	58.8	8.6	8.6
6-7 PM	1791	0.0	455	0.0	OFF	1791	0	455	0.00	0	63.0	63.0	63.0	12.2	12.2
7-8 PM	1185	0.0	302	0.0	OFF	1185	0	302	0.00	0	64.1	64.1	64.1	15.6	15.6
8-9 PM	968	0.0	245	0.0	OFF	968	0	245	0.00	0	64.6	64.6	64.6	17.1	17.1
9-10 PM	756	0.0	193	0.0	OFF	756	0	193	0.00	0	65.0	65.0	65.0	18.5	18.5
10-11 PM	554	0.0	141	0.0	OFF	554	0	141	0.00	0	65.3	65.3	65.3	19.9	19.9
11PM-MID	381	0.0	97	0.0	OFF	381	0	97	0.00	0	65.7	65.7	65.7	21.1	21.1

"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	0.0103
MAIN ROUTE WITH WORKS	0.0093
DIVERSION	0.0380

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$49,633
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
MON-THUR NORTHBOUND DIRECTION

