

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
CONTINUOUS (24 HOUR) 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	1499	1528	0	389	1.54	22	63.5	34.2	32.2	18.5	18.5
10-11 AM	2259	0.0	575	0.0	1500	1936	324	899	12.95	347	62.2	9.9	30.8	16.1	14.7
11A-NOON	2757	0.0	703	0.0	1499	1761	996	1699+	25.69	676	58.2	7.3	30.8	14.4	10.0
NOON-1PM	2899	0.0	739	0.0	1500	1518	1381	2120+	30.41	804	56.8	6.9	30.8	14.0	9.1
1-2 PM	2957	0.0	754	0.0	1500	1514	1444	2197+	30.55	809	56.2	6.8	30.8	13.8	9.1
2-3 PM	3328	0.0	848	0.0	1500	1500	1828	2676+	30.86	826	52.4	6.8	30.8	12.7	9.0
3-4 PM	3408	0.0	869	0.0	1500	1500	1908	2777+	30.78	826	51.6	6.8	30.8	12.6	9.0
4-5 PM	3354	0.0	856	0.0	1500	1500	1854	2709+	30.83	826	52.2	6.8	30.8	12.7	9.0
5-6 PM	3038	0.0	774	0.0	1500	1479	1558	2332+	30.82	819	55.4	6.8	30.8	13.5	9.1
6-7 PM	2516	0.0	641	0.0	1500	1324	1192	1833+	28.12	736	60.7	7.1	30.8	15.2	9.5
7-8 PM	1828	0.0	466	0.0	1499	1164	665	1131	16.92	438	63.0	8.6	30.8	17.5	12.8
8-9 PM	1164	0.0	296	0.0	1499	1123	41	338	3.33	123	64.2	23.0	36.4	19.7	19.5
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

+ 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	0.0110
MAIN ROUTE WITH WORKS	0.0055
DIVERSION	0.0836

PIA: Personal Injury Accidents

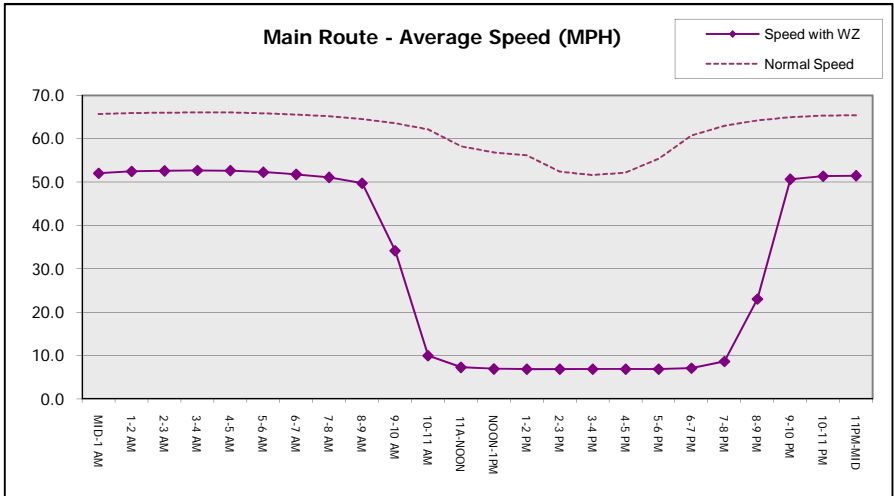
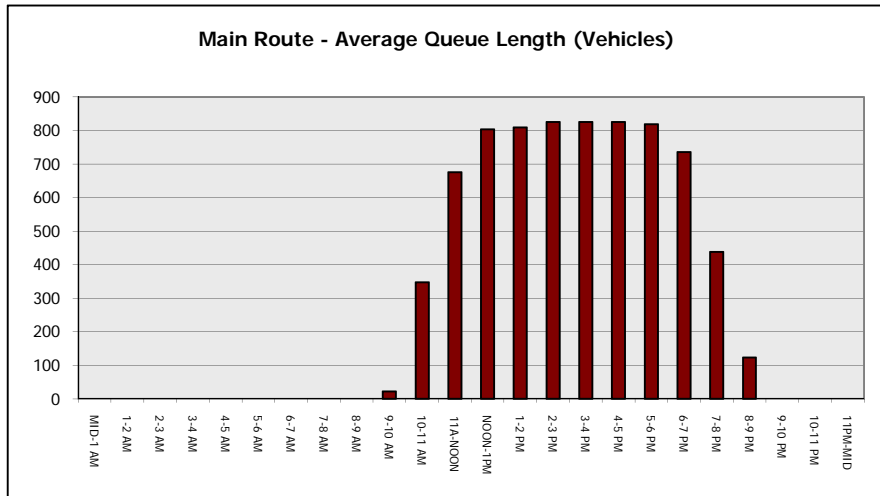
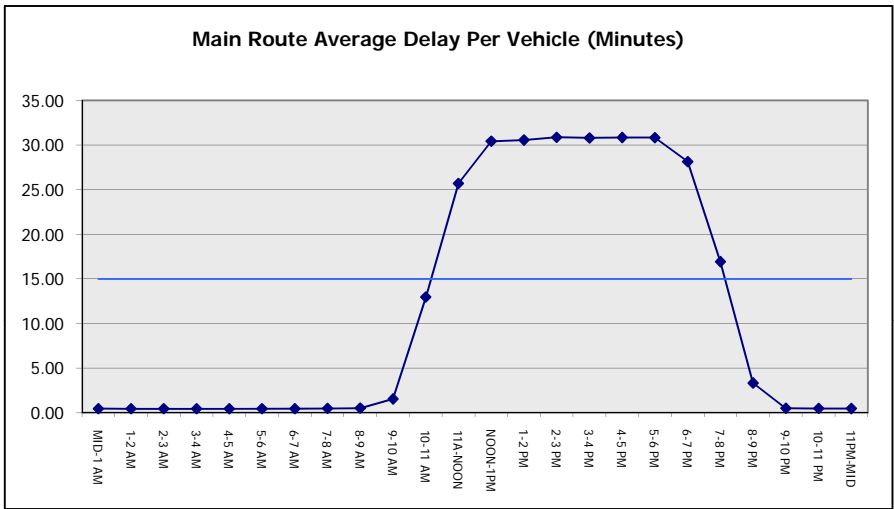
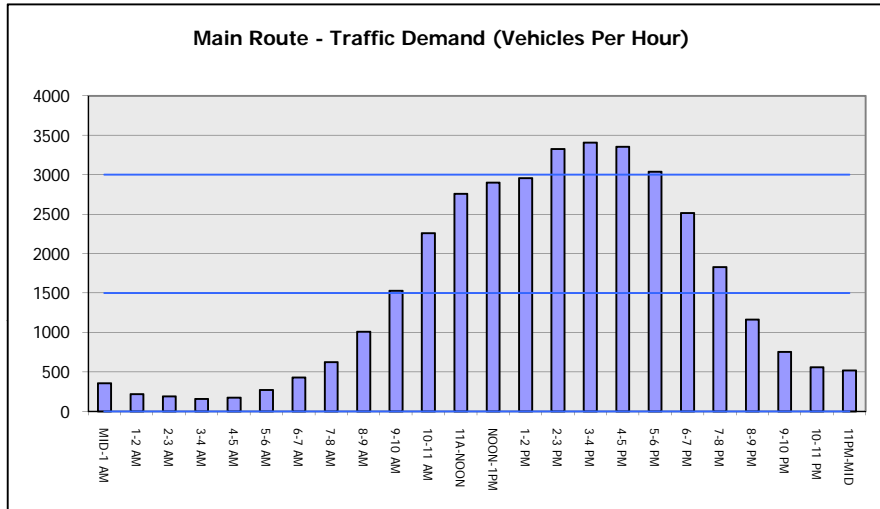
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$254,379
CONGESTED HOURS PER DAY*	9

*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
 CONTINUOUS (24 HOUR) 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) CONTINUOUS (24 HOUR) 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	1499	1594	0	407	1.87	28	63.4	31.1	30.8	12.9	13.0
10-11 AM	1778	0.0	453	0.0	1500	1778	0	453	8.69	220	63.1	12.0	30.8	12.2	12.9
11A-NOON	1998	0.0	510	0.0	1499	1816	182	691	20.84	541	62.7	7.9	30.8	11.4	11.3
NOON-1PM	2183	0.0	557	0.0	1499	1588	595	1152+	29.47	769	62.3	7.0	30.8	10.6	9.3
1-2 PM	2186	0.0	558	0.0	1499	1501	686	1244+	29.94	782	62.3	7.0	30.8	10.6	9.3
2-3 PM	2255	0.0	575	0.0	1499	1501	754	1330+	29.95	782	62.2	7.0	30.8	10.3	9.3
3-4 PM	2359	0.0	601	0.0	1499	1500	859	1460+	29.97	783	62.0	7.0	30.8	9.9	9.3
4-5 PM	2235	0.0	569	0.0	1499	1499	736	1305+	29.95	782	62.2	7.0	30.8	10.4	9.3
5-6 PM	2014	0.0	514	0.0	1499	1496	518	1032+	29.90	780	62.7	7.0	30.8	11.3	9.3
6-7 PM	1726	0.0	440	0.0	1499	1306	420	860+	26.43	687	63.2	7.2	30.8	12.4	9.9
7-8 PM	1395	0.0	355	0.0	1499	1198	197	552	16.68	429	63.8	8.7	30.8	14.2	12.9
8-9 PM	929	0.0	237	0.0	1499	929	0	237	1.84	80	64.6	32.0	39.7	17.3	17.5
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

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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	0.0053
DIVERSION	0.0444

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$169,297
CONGESTED HOURS PER DAY*	9

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) 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

