

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 21, USH 45	MAY
	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	244	0.0	62	0.0	1500	244	0	62	0.45	0	66.0	52.4	44.5	22.8	22.8
1-2 AM	201	0.0	51	0.0	1500	201	0	51	0.44	0	66.0	52.5	44.6	22.9	22.9
2-3 AM	199	0.0	50	0.0	1500	199	0	50	0.44	0	66.0	52.6	44.7	22.9	22.9
3-4 AM	269	0.0	68	0.0	1500	269	0	68	0.45	0	65.9	52.4	44.4	22.7	22.7
4-5 AM	447	0.0	114	0.0	1500	447	0	114	0.47	0	65.6	51.7	43.7	22.1	22.1
5-6 AM	1020	0.0	260	0.0	1499	1020	0	260	0.57	0	64.5	48.8	40.3	20.2	20.2
6-7 AM	1906	0.0	486	0.0	1499	1880	26	512	4.81	142	62.8	18.2	30.8	17.3	17.5
7-8 AM	2774	0.0	707	0.0	1499	1896	878	1585+	23.56	623	58.1	7.5	30.8	14.4	10.6
8-9 AM	2394	0.0	610	0.0	1500	1305	1089	1699+	25.94	675	61.9	7.3	30.8	15.6	9.9
9-10 AM	2058	0.0	525	0.0	1499	1329	729	1254	18.62	477	62.5	8.3	30.8	16.8	11.9
10-11 AM	2135	0.0	545	0.0	1500	1535	600	1144	16.87	428	62.4	8.6	30.8	16.5	12.5
11A-NOON	2220	0.0	566	0.0	1499	1548	673	1239	18.29	467	62.2	8.3	30.8	16.2	12.0
NOON-1PM	2409	0.0	614	0.0	1500	1613	796	1409	21.39	552	61.9	7.8	30.8	15.6	11.0
1-2 PM	2588	0.0	660	0.0	1499	1598	990	1649+	24.96	651	60.0	7.3	30.8	15.0	10.1
2-3 PM	2977	0.0	759	0.0	1499	1619	1358	2116+	29.80	790	56.0	6.9	30.8	13.7	9.3
3-4 PM	3315	0.0	845	0.0	1499	1500	1815	2660+	30.87	826	52.5	6.8	30.8	12.8	9.0
4-5 PM	3480	0.0	887	0.0	1499	1500	1980	2868+	30.72	826	50.9	6.8	30.8	12.4	9.0
5-6 PM	3092	0.0	789	0.0	1499	1474	1619	2407+	30.82	820	54.8	6.8	30.8	13.4	9.1
6-7 PM	2160	0.0	551	0.0	1499	1136	1023	1574+	23.75	620	62.3	7.5	30.8	16.4	10.5
7-8 PM	1489	0.0	380	0.0	1500	1236	253	633	10.73	271	63.6	10.7	31.0	18.6	16.8
8-9 PM	1212	0.0	309	0.0	1499	1212	0	309	1.98	60	64.1	30.4	36.0	19.6	19.6
9-10 PM	1041	0.0	266	0.0	1500	1041	0	266	0.52	0	64.5	49.7	41.5	20.1	20.1
10-11 PM	923	0.0	236	0.0	1500	923	0	236	0.51	0	64.6	50.1	41.9	20.6	20.6
11PM-MID	640	0.0	164	0.0	1500	640	0	164	0.48	0	65.2	51.0	43.0	21.5	21.5

+ 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	0.0125
MAIN ROUTE WITH WORKS	0.0065
DIVERSION	0.0906

PIA: Personal Injury Accidents

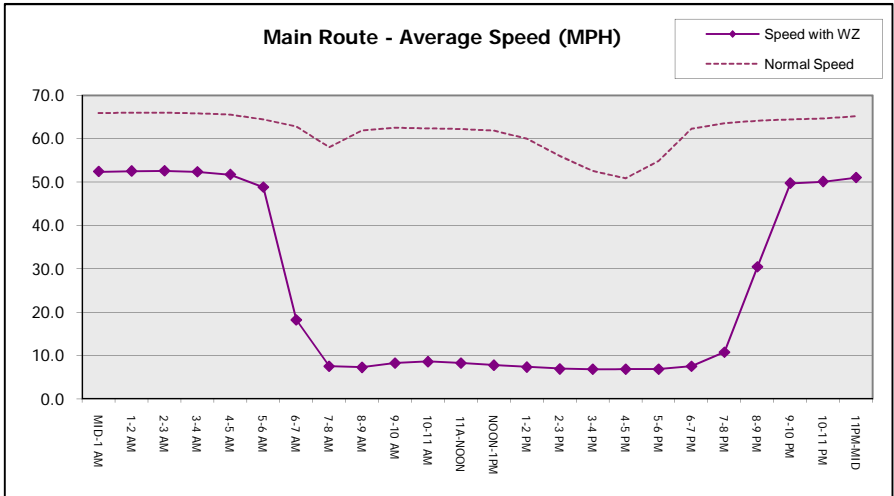
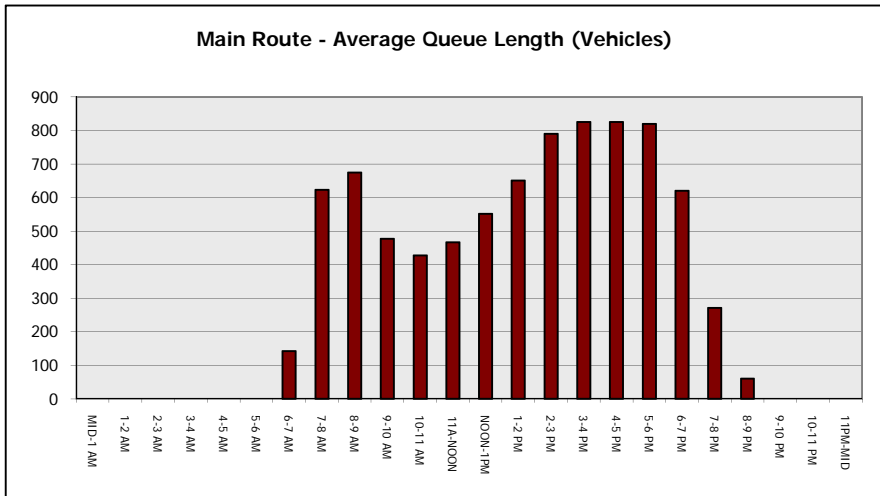
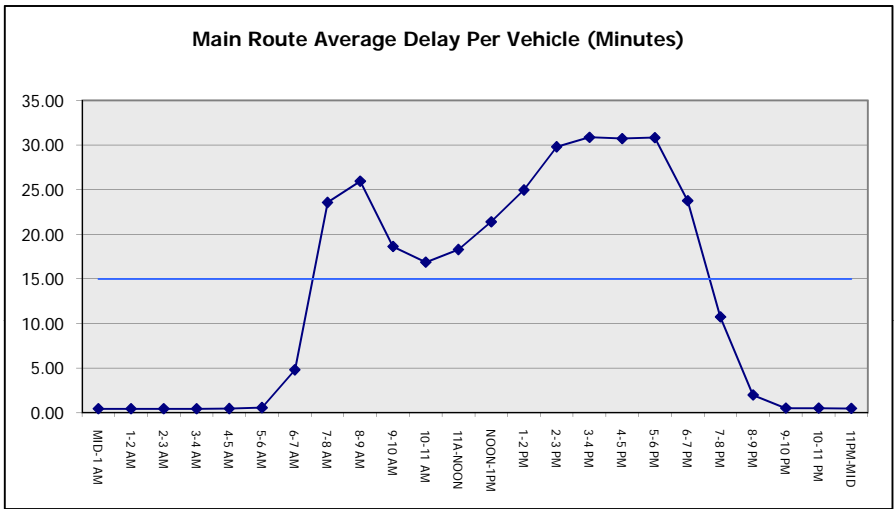
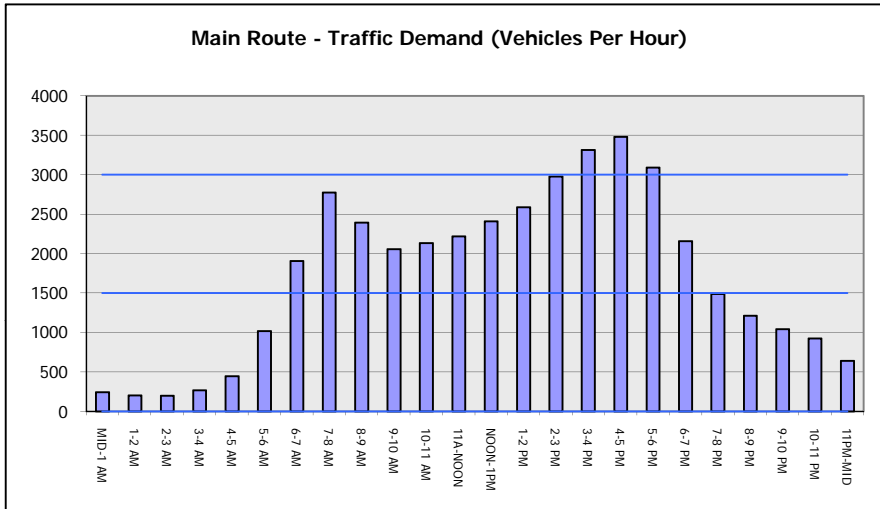
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$210,808
CONGESTED HOURS PER DAY*	12

*Delays Exceeding 15 Minutes

**USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY)
 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: STH 21, USH 45**

MAY
 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) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 21, USH 45	MAY
	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		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	275	0.0	70	0.0	1500	275	0	70	0.45	0	65.9	52.3	44.4	21.7	21.7
1-2 AM	216	0.0	55	0.0	1500	216	0	55	0.44	0	66.0	52.5	44.6	22.2	22.2
2-3 AM	191	0.0	48	0.0	1500	191	0	48	0.44	0	66.0	52.6	44.7	22.3	22.3
3-4 AM	241	0.0	62	0.0	1500	241	0	62	0.45	0	66.0	52.4	44.5	22.0	22.0
4-5 AM	344	0.0	88	0.0	1500	344	0	88	0.46	0	65.8	52.0	44.1	21.3	21.3
5-6 AM	934	0.0	238	0.0	1499	934	0	238	0.51	0	64.6	50.1	41.9	17.3	17.3
6-7 AM	1790	0.0	456	0.0	1499	1790	0	456	3.32	93	63.0	22.6	30.8	12.2	12.3
7-8 AM	2578	0.0	657	0.0	1500	2011	567	1224+	24.77	661	60.1	7.5	30.8	9.1	10.0
8-9 AM	2044	0.0	521	0.0	1499	1479	565	1086+	29.77	776	62.6	7.0	30.8	11.2	9.3
9-10 AM	2065	0.0	526	0.0	1499	1501	564	1090+	29.93	781	62.5	7.0	30.8	11.1	9.3
10-11 AM	2233	0.0	569	0.0	1499	1501	732	1301+	29.95	782	62.2	7.0	30.8	10.4	9.3
11A-NOON	2343	0.0	597	0.0	1499	1501	842	1439+	29.97	783	62.0	7.0	30.8	10.0	9.3
NOON-1PM	2462	0.0	628	0.0	1499	1501	961	1589+	29.95	783	61.3	7.0	30.8	9.5	9.3
1-2 PM	2699	0.0	688	0.0	1499	1516	1183	1871+	30.01	789	58.9	6.9	30.8	8.6	9.2
2-3 PM	2961	0.0	755	0.0	1499	1519	1443	2198+	30.55	809	56.1	6.8	30.8	7.8	9.1
3-4 PM	3158	0.0	805	0.0	1499	1511	1647	2452+	30.91	823	54.2	6.8	30.8	7.4	9.0
4-5 PM	3449	0.0	879	0.0	1499	1500	1949	2829+	30.75	826	51.2	6.8	30.8	6.8	9.0
5-6 PM	3463	0.0	883	0.0	1499	1500	1963	2846+	30.73	826	51.0	6.8	30.8	6.8	9.0
6-7 PM	2879	0.0	734	0.0	1499	1455	1424	2158+	30.56	808	57.0	6.8	30.8	7.9	9.1
7-8 PM	2285	0.0	583	0.0	1499	1496	789	1372+	29.96	782	62.1	7.0	30.8	10.2	9.3
8-9 PM	1753	0.0	447	0.0	1499	1311	442	889+	27.37	712	63.1	7.1	30.8	12.3	9.7
9-10 PM	1290	0.0	328	0.0	1499	1117	173	502	15.08	393	64.0	9.1	31.2	14.9	13.7
10-11 PM	908	0.0	232	0.0	1500	908	0	232	1.25	42	64.7	38.0	41.4	17.5	17.5
11PM-MID	651	0.0	166	0.0	1500	651	0	166	0.49	0	65.1	51.0	42.9	19.3	19.3

+ 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	0.0131
MAIN ROUTE WITH WORKS	0.0066
DIVERSION	0.0978

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$281,169
CONGESTED HOURS PER DAY*	15

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: STH 21, USH 45**

MAY
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY NORTHBOUND DIRECTION

