

USH 41: USH 45 TO 9TH AVE (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 21, USH 45	AUGUST
	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	846	0.0	215	0.0	1500	846	0	215	0.50	0	64.8	50.4	42.2	20.8	20.8
1-2 AM	273	0.0	69	0.0	1500	273	0	69	0.45	0	65.9	52.3	44.4	22.7	22.7
2-3 AM	197	0.0	50	0.0	1500	197	0	50	0.44	0	66.0	52.6	44.7	22.9	22.9
3-4 AM	169	0.0	43	0.0	1500	169	0	43	0.44	0	66.1	52.7	44.8	23.0	23.0
4-5 AM	170	0.0	43	0.0	1500	170	0	43	0.44	0	66.1	52.7	44.8	23.0	23.0
5-6 AM	249	0.0	64	0.0	1500	249	0	64	0.45	0	66.0	52.4	44.5	22.8	22.8
6-7 AM	424	0.0	108	0.0	1500	424	0	108	0.46	0	65.6	51.8	43.8	22.2	22.2
7-8 AM	759	0.0	194	0.0	1500	759	0	194	0.50	0	65.0	50.7	42.5	21.1	21.1
8-9 AM	1388	0.0	354	0.0	1499	1388	0	354	1.03	6	63.8	40.6	34.3	19.0	19.0
9-10 AM	2091	0.0	533	0.0	1500	1924	167	700	8.54	238	62.5	12.5	30.8	16.6	15.9
10-11 AM	3045	0.0	776	0.0	1499	1911	1134	1910+	26.53	708	55.3	7.2	30.9	13.5	9.9
11A-NOON	3497	0.0	891	0.0	1500	1500	1997	2888+	30.70	826	50.7	6.8	30.8	12.4	9.0
NOON-1PM	3479	0.0	887	0.0	1500	1500	1979	2866+	30.72	826	50.9	6.8	30.8	12.4	9.0
1-2 PM	3566	0.0	909	0.0	1500	1500	2066	2975+	30.63	826	50.0	6.8	30.8	12.3	9.0
2-3 PM	3615	0.0	921	0.0	1500	1500	2115	3036+	30.58	826	49.5	6.8	30.8	12.2	9.0
3-4 PM	3592	0.0	916	0.0	1500	1500	2092	3009+	30.61	826	49.7	6.8	30.8	12.2	9.0
4-5 PM	3531	0.0	900	0.0	1500	1500	2031	2930+	30.67	826	50.3	6.8	30.8	12.4	9.0
5-6 PM	3198	0.0	815	0.0	1500	1474	1724	2540+	30.73	820	53.7	6.8	30.8	13.0	9.1
6-7 PM	2615	0.0	666	0.0	1500	1335	1280	1946+	29.07	763	59.7	7.0	30.8	14.9	9.4
7-8 PM	2058	0.0	525	0.0	1499	1222	836	1361	20.37	528	62.5	7.9	30.8	16.8	11.4
8-9 PM	1540	0.0	392	0.0	1500	1293	247	639	10.94	273	63.5	10.6	30.9	18.5	16.6
9-10 PM	974	0.0	248	0.0	1500	974	0	248	1.32	41	64.6	37.1	40.1	20.4	20.4
10-11 PM	660	0.0	168	0.0	1500	660	0	168	0.49	0	65.1	51.0	42.9	21.4	21.4
11PM-MID	339	0.0	86	0.0	1500	339	0	86	0.46	0	65.8	52.1	44.2	22.5	22.5

+ 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	0.0128
MAIN ROUTE WITH WORKS	0.0058
DIVERSION	0.1059

PIA: Personal Injury Accidents

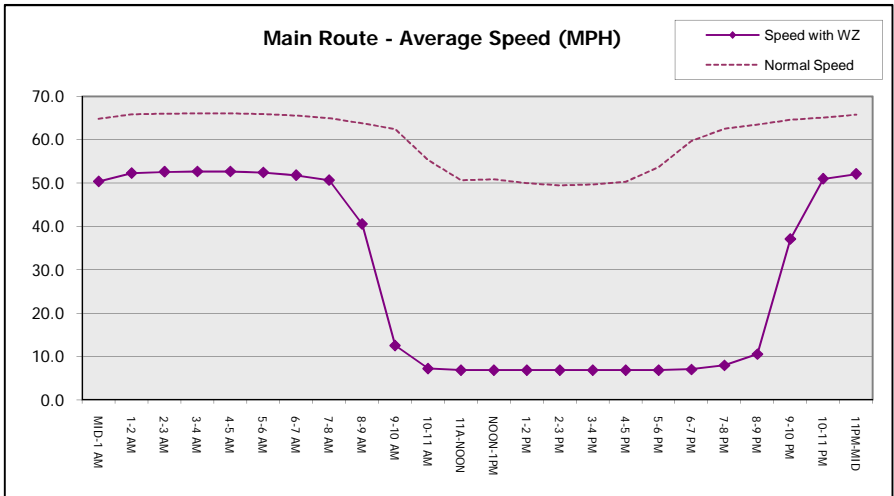
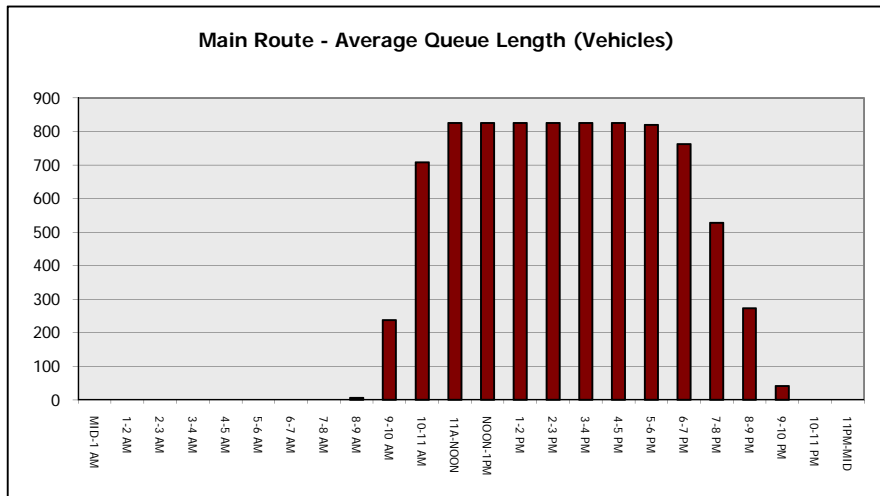
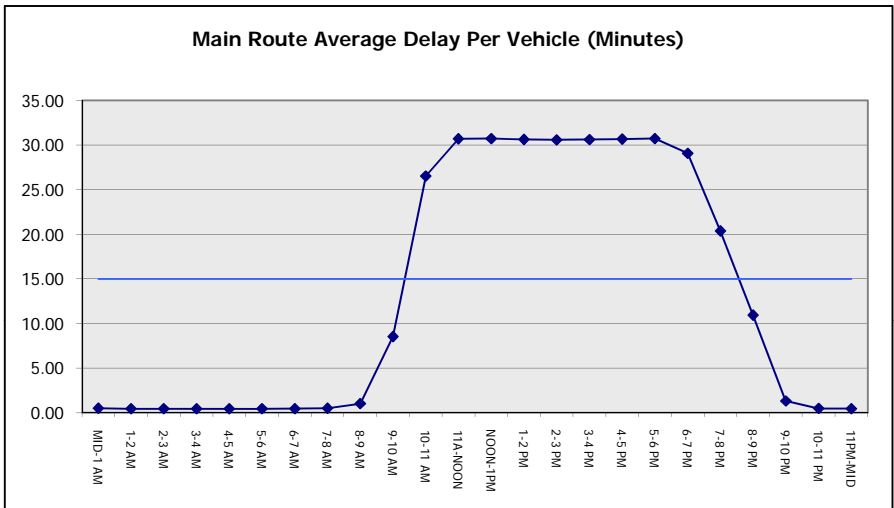
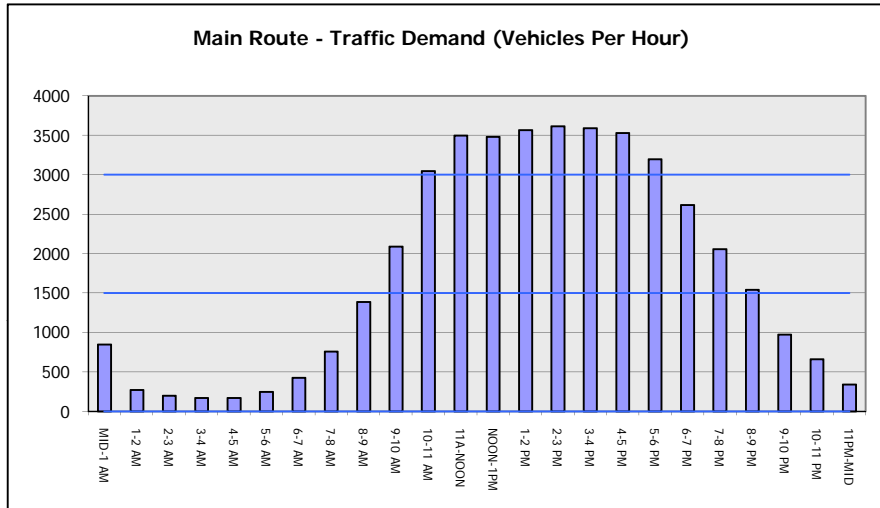
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$316,035
CONGESTED HOURS PER DAY*	10

*Delays Exceeding 15 Minutes

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

AUGUST
 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	AUGUST
	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	320	0.0	81	0.0	1500	320	0	81	0.45	0	65.8	52.2	44.2	21.4	21.4
1-2 AM	209	0.0	54	0.0	1500	209	0	54	0.44	0	66.0	52.5	44.6	22.2	22.2
2-3 AM	152	0.0	39	0.0	1500	152	0	39	0.44	0	66.1	52.7	44.9	22.5	22.5
3-4 AM	98	0.0	25	0.0	1500	98	0	25	0.43	0	66.2	52.9	45.1	23.0	23.0
4-5 AM	114	0.0	29	0.0	1500	114	0	29	0.43	0	66.2	52.8	45.0	22.9	22.9
5-6 AM	317	0.0	80	0.0	1500	317	0	80	0.45	0	65.8	52.2	44.2	21.5	21.5
6-7 AM	326	0.0	83	0.0	1500	326	0	83	0.45	0	65.8	52.1	44.2	21.4	21.4
7-8 AM	443	0.0	112	0.0	1500	443	0	112	0.47	0	65.6	51.7	43.7	20.6	20.6
8-9 AM	735	0.0	187	0.0	1500	735	0	187	0.49	0	65.0	50.7	42.6	18.6	18.6
9-10 AM	1227	0.0	313	0.0	1499	1227	0	313	0.67	0	64.1	46.6	37.8	15.3	15.3
10-11 AM	1711	0.0	436	0.0	1499	1711	0	436	3.19	77	63.2	22.9	30.8	12.5	12.5
11A-NOON	2127	0.0	542	0.0	1500	2021	106	648	18.13	484	62.4	8.5	30.8	10.8	11.7
NOON-1PM	2292	0.0	585	0.0	1499	1517	775	1360+	29.96	782	62.1	7.0	30.8	10.2	9.3
1-2 PM	2379	0.0	606	0.0	1498	1503	874	1480+	29.98	782	62.0	6.9	30.7	9.8	9.3
2-3 PM	2335	0.0	595	0.0	1499	1503	832	1427+	29.96	783	62.0	7.0	30.8	10.0	9.3
3-4 PM	2328	0.0	594	0.0	1499	1503	826	1420+	29.96	783	62.0	7.0	30.8	10.1	9.3
4-5 PM	2334	0.0	595	0.0	1499	1502	831	1426+	29.96	783	62.0	7.0	30.8	10.0	9.3
5-6 PM	2231	0.0	569	0.0	1499	1501	730	1299+	29.95	782	62.2	7.0	30.8	10.4	9.3
6-7 PM	1884	0.0	481	0.0	1499	1434	450	931+	28.80	750	62.8	7.0	30.8	11.8	9.4
7-8 PM	1558	0.0	397	0.0	1499	1236	322	720	21.83	564	63.5	7.8	30.8	13.1	10.9
8-9 PM	1301	0.0	331	0.0	1500	1238	63	394	11.89	301	64.0	10.2	30.9	14.8	15.0
9-10 PM	970	0.0	247	0.0	1500	970	0	247	1.12	31	64.6	39.5	40.9	17.1	17.1
10-11 PM	661	0.0	169	0.0	1500	661	0	169	0.49	0	65.1	51.0	42.9	19.1	19.1
11PM-MID	411	0.0	105	0.0	1500	411	0	105	0.46	0	65.6	51.9	43.8	20.8	20.8

+ 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	0.0086
MAIN ROUTE WITH WORKS	0.0054
DIVERSION	0.0487

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$181,533
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**

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY NORTHBOUND DIRECTION

