

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

FRIDAY SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			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	1500	220	0	57	0.44	0	66.0	52.5	44.6	22.9	22.9
1-2 AM	188	0.0	48	0.0	1500	188	0	48	0.44	0	66.0	52.6	44.7	23.0	23.0
2-3 AM	208	0.0	53	0.0	1500	208	0	53	0.44	0	66.0	52.5	44.6	22.9	22.9
3-4 AM	265	0.0	67	0.0	1500	265	0	67	0.45	0	65.9	52.4	44.4	22.7	22.7
4-5 AM	481	0.0	123	0.0	1500	481	0	123	0.47	0	65.5	51.6	43.6	22.0	22.0
5-6 AM	1121	0.0	286	0.0	1499	1121	0	286	0.64	0	64.3	47.3	38.6	19.9	19.9
6-7 AM	1984	0.0	505	0.0	1499	1907	77	582	5.93	172	62.7	16.0	30.8	17.0	16.7
7-8 AM	2820	0.0	719	0.0	1499	1889	931	1650+	24.55	650	57.6	7.4	30.8	14.2	10.3
8-9 AM	2315	0.0	590	0.0	1500	1250	1065	1655+	25.30	659	62.1	7.3	30.8	15.9	10.1
9-10 AM	2094	0.0	533	0.0	1500	1383	710	1244	18.41	471	62.5	8.3	30.8	16.6	12.0
10-11 AM	2245	0.0	572	0.0	1500	1577	668	1241	18.33	468	62.2	8.3	30.8	16.1	12.0
11A-NOON	2412	0.0	615	0.0	1500	1604	808	1422	21.65	559	61.8	7.8	30.8	15.6	10.9
NOON-1PM	2611	0.0	666	0.0	1499	1599	1012	1678+	25.36	662	59.7	7.3	30.8	14.9	10.0
1-2 PM	2776	0.0	708	0.0	1500	1604	1172	1880+	28.73	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	1499	1500	1900	2767+	30.79	826	51.7	6.8	30.8	12.6	9.0
4-5 PM	3575	0.0	911	0.0	1499	1500	2075	2986+	30.62	826	49.9	6.8	30.8	12.3	9.0
5-6 PM	3182	0.0	811	0.0	1499	1481	1701	2512+	30.81	821	53.9	6.8	30.8	13.0	9.1
6-7 PM	2244	0.0	572	0.0	1499	1169	1075	1648+	25.26	660	62.2	7.3	30.8	16.1	10.1
7-8 PM	1484	0.0	379	0.0	1500	1186	298	677	11.13	285	63.6	10.6	31.4	18.6	16.5
8-9 PM	1194	0.0	305	0.0	1499	1194	0	305	1.80	54	64.1	31.9	36.7	19.6	19.6
9-10 PM	1016	0.0	259	0.0	1500	1016	0	259	0.52	0	64.5	49.8	41.6	20.2	20.2
10-11 PM	828	0.0	211	0.0	1500	828	0	211	0.50	0	64.8	50.4	42.3	20.9	20.9
11PM-MID	513	0.0	131	0.0	1500	513	0	131	0.47	0	65.5	51.5	43.5	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	0.0128
MAIN ROUTE WITH WORKS	0.0064
DIVERSION	0.0960

PIA: Personal Injury Accidents

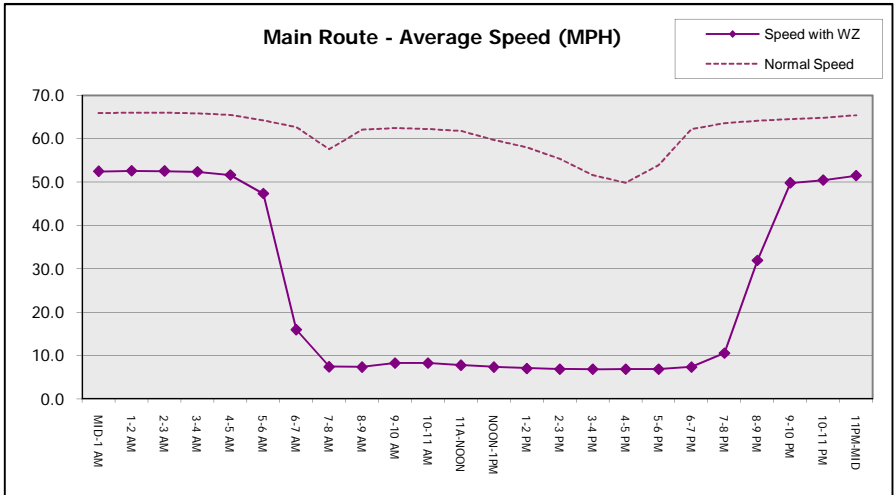
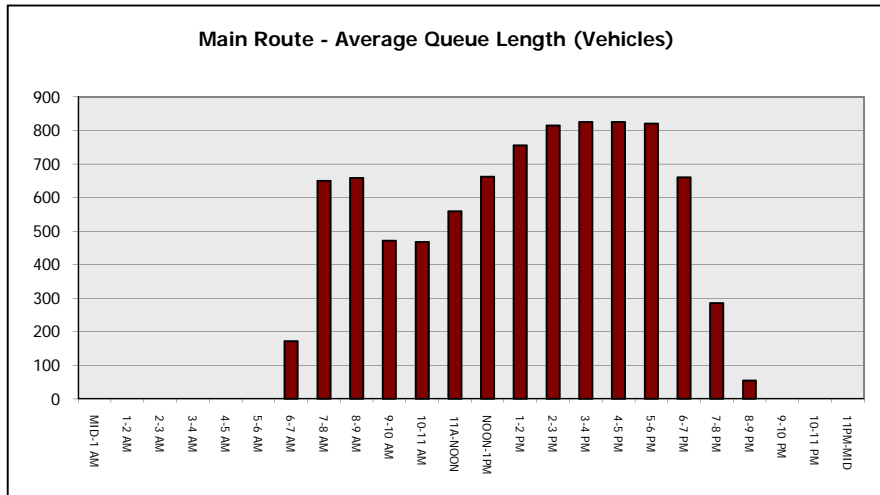
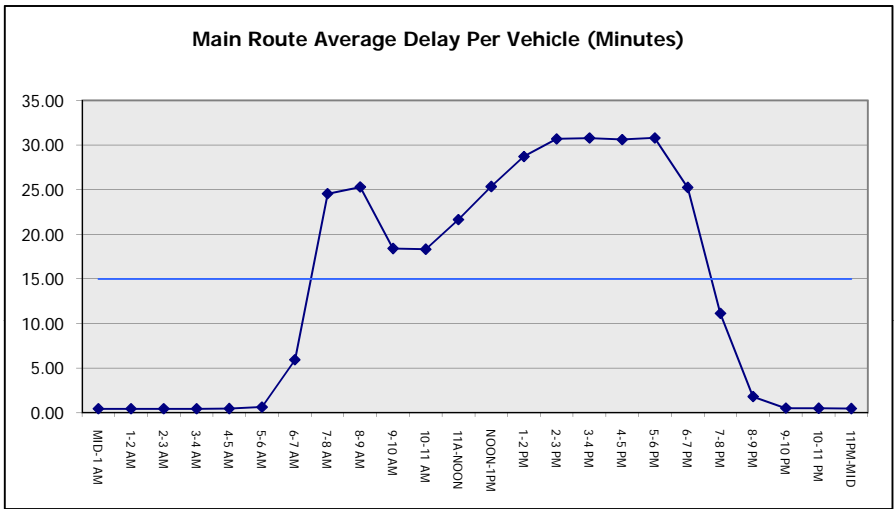
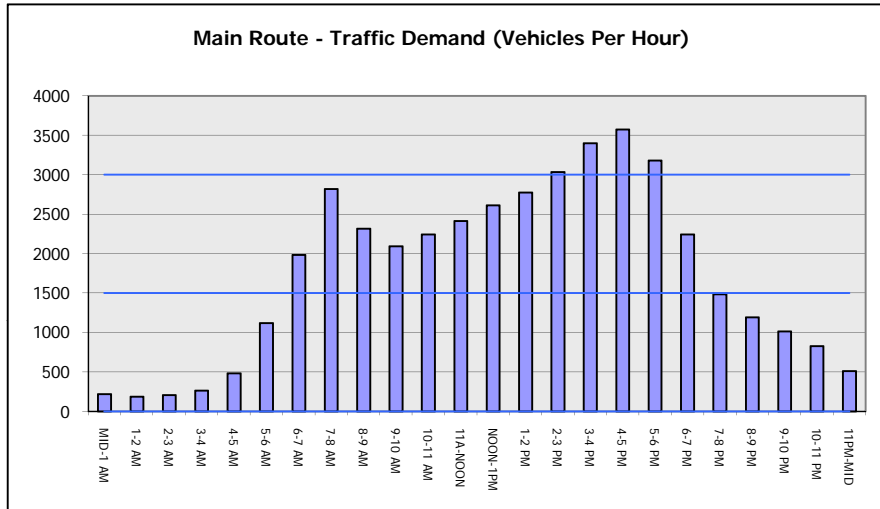
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$227,336
CONGESTED HOURS PER DAY*	12

*Delays Exceeding 15 Minutes

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

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) CONTINUOUS (24 HOUR) 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		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	257	0.0	66	0.0	1500	257	0	66	0.45	0	65.9	52.4	44.5	21.9	21.9
1-2 AM	199	0.0	50	0.0	1500	199	0	50	0.44	0	66.0	52.6	44.7	22.3	22.3
2-3 AM	198	0.0	50	0.0	1500	198	0	50	0.44	0	66.0	52.6	44.7	22.3	22.3
3-4 AM	230	0.0	59	0.0	1500	230	0	59	0.44	0	66.0	52.5	44.6	22.0	22.0
4-5 AM	377	0.0	96	0.0	1500	377	0	96	0.46	0	65.7	51.9	44.0	21.1	21.1
5-6 AM	956	0.0	244	0.0	1499	956	0	244	0.52	0	64.6	49.9	41.6	17.1	17.1
6-7 AM	1781	0.0	454	0.0	1499	1781	0	454	3.26	90	63.1	22.8	30.8	12.2	12.3
7-8 AM	2545	0.0	649	0.0	1500	2035	510	1158+	24.47	653	60.4	7.5	30.8	9.2	10.0
8-9 AM	1963	0.0	500	0.0	1499	1415	548	1048+	29.17	760	62.7	7.0	30.8	11.5	9.4
9-10 AM	2046	0.0	522	0.0	1500	1556	490	1012+	29.40	767	62.6	7.0	30.8	11.2	9.3
10-11 AM	2250	0.0	573	0.0	1499	1501	749	1323+	29.95	782	62.2	7.0	30.8	10.4	9.3
11A-NOON	2507	0.0	639	0.0	1499	1501	1007	1646+	29.93	784	60.8	6.9	30.8	9.3	9.3
NOON-1PM	2610	0.0	665	0.0	1499	1503	1108	1773+	29.91	785	59.7	6.9	30.8	8.9	9.3
1-2 PM	2857	0.0	729	0.0	1499	1520	1337	2066+	30.32	801	57.3	6.9	30.8	8.0	9.1
2-3 PM	3150	0.0	803	0.0	1499	1517	1633	2436+	30.86	822	54.2	6.8	30.8	7.5	9.0
3-4 PM	3450	0.0	879	0.0	1499	1500	1950	2830+	30.74	826	51.2	6.8	30.8	6.8	9.0
4-5 PM	3676	0.0	937	0.0	1499	1500	2176	3113+	30.52	826	48.8	6.8	30.8	6.4	9.0
5-6 PM	3655	0.0	932	0.0	1499	1500	2155	3087+	30.54	826	49.1	6.8	30.8	6.5	9.0
6-7 PM	2920	0.0	744	0.0	1499	1450	1470	2215+	30.66	812	56.6	6.8	30.8	7.9	9.1
7-8 PM	2120	0.0	540	0.0	1499	1494	627	1167+	29.92	781	62.4	7.0	30.8	10.9	9.3
8-9 PM	1524	0.0	388	0.0	1499	1147	377	765+	23.20	603	63.5	7.6	30.8	13.4	10.7
9-10 PM	1194	0.0	305	0.0	1500	1147	47	352	9.35	250	64.1	11.8	32.9	15.5	15.6
10-11 PM	800	0.0	204	0.0	1500	800	0	204	0.58	3	64.9	48.7	42.4	18.2	18.2
11PM-MID	571	0.0	146	0.0	1500	571	0	146	0.48	0	65.3	51.3	43.2	19.7	19.7

+ 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	0.0065
DIVERSION	0.1019

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$282,925
CONGESTED HOURS PER DAY*	14

*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
FRIDAY NORTHBOUND DIRECTION

