

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

SATURDAY 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	297	0.0	76	0.0	OFF	297	0	76	0.00	0	65.8	65.8	65.8	22.6	22.6
1-2 AM	206	0.0	53	0.0	OFF	206	0	53	0.00	0	66.0	66.0	66.0	22.9	22.9
2-3 AM	185	0.0	47	0.0	OFF	185	0	47	0.00	0	66.0	66.0	66.0	23.0	23.0
3-4 AM	171	0.0	43	0.0	OFF	171	0	43	0.00	0	66.1	66.1	66.1	23.0	23.0
4-5 AM	277	0.0	71	0.0	OFF	277	0	71	0.00	0	65.9	65.9	65.9	22.7	22.7
5-6 AM	483	0.0	124	0.0	OFF	483	0	124	0.00	0	65.5	65.5	65.5	22.0	22.0
6-7 AM	899	0.0	230	0.0	OFF	899	0	230	0.00	0	64.7	64.7	64.7	20.6	20.6
7-8 AM	1555	0.0	396	0.0	OFF	1555	0	396	0.00	0	63.5	63.5	63.5	18.4	18.4
8-9 AM	1853	0.0	473	0.0	1499	1817	36	508	5.67	152	62.9	16.1	30.8	17.5	17.5
9-10 AM	2104	0.0	536	0.0	1499	1621	483	1019	15.31	387	62.5	8.9	30.8	16.6	13.4
10-11 AM	2336	0.0	595	0.0	1500	1614	721	1316	19.63	504	62.0	8.1	30.8	15.8	11.6
11A-NOON	2314	0.0	590	0.0	1499	1498	816	1406	21.38	551	62.1	7.8	30.8	15.9	11.0
NOON-1PM	2350	0.0	599	0.0	1500	1518	832	1431	21.94	566	62.0	7.7	30.8	15.8	10.8
1-2 PM	2207	0.0	563	0.0	1499	1419	788	1351	20.30	522	62.3	7.9	30.8	16.3	11.3
2-3 PM	2217	0.0	565	0.0	1500	1499	718	1283	19.03	487	62.2	8.1	30.8	16.2	11.7
3-4 PM	2202	0.0	561	0.0	1499	1492	710	1271	18.82	481	62.3	8.2	30.8	16.3	11.8
4-5 PM	2207	0.0	563	0.0	1500	1497	710	1273	18.86	482	62.3	8.2	30.8	16.3	11.8
5-6 PM	2035	0.0	519	0.0	1499	1411	624	1143	16.88	429	62.6	8.6	30.8	16.8	12.5
6-7 PM	1762	0.0	449	0.0	OFF	1762	0	449	0.52	33	63.1	48.9	48.9	17.8	17.8
7-8 PM	1449	0.0	370	0.0	OFF	1449	0	370	0.00	0	63.7	63.7	63.7	18.8	18.8
8-9 PM	1199	0.0	306	0.0	OFF	1199	0	306	0.00	0	64.1	64.1	64.1	19.6	19.6
9-10 PM	1034	0.0	264	0.0	OFF	1034	0	264	0.00	0	64.5	64.5	64.5	20.2	20.2
10-11 PM	825	0.0	210	0.0	OFF	825	0	210	0.00	0	64.8	64.8	64.8	20.9	20.9
11PM-MID	537	0.0	137	0.0	OFF	537	0	137	0.00	0	65.4	65.4	65.4	21.8	21.8

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0099
MAIN ROUTE WITH WORKS	0.0069
DIVERSION	0.0550

PIA: Personal Injury Accidents

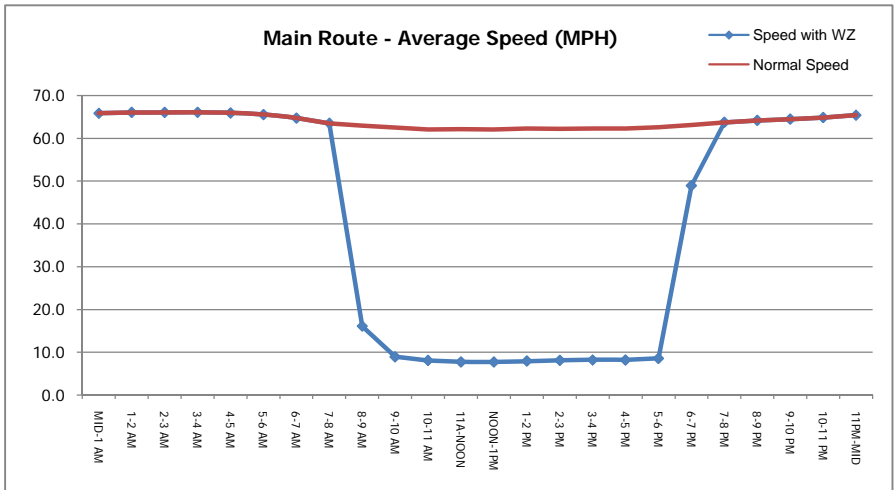
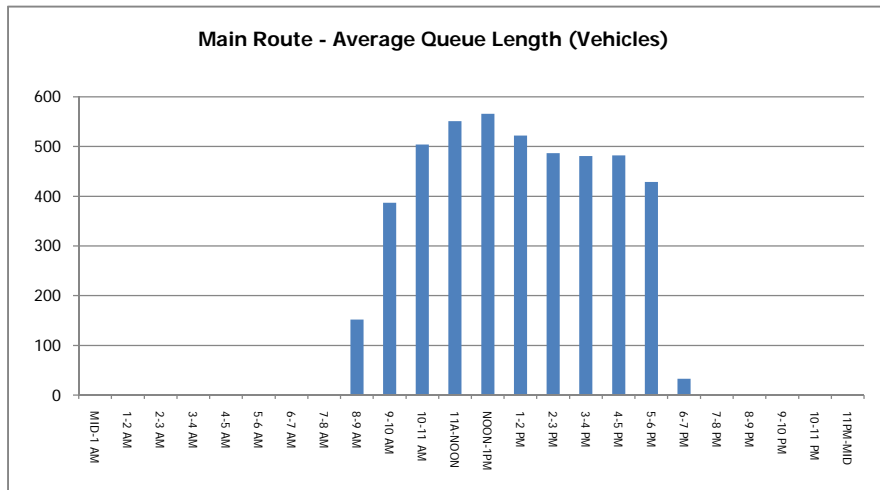
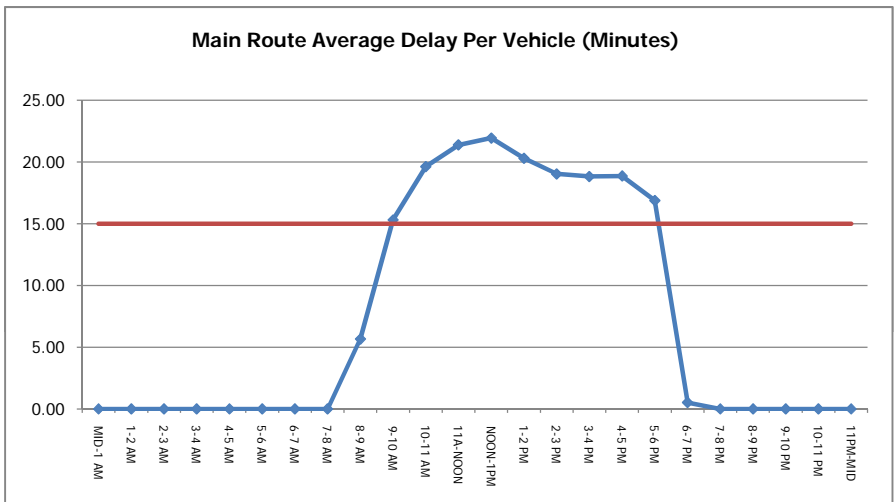
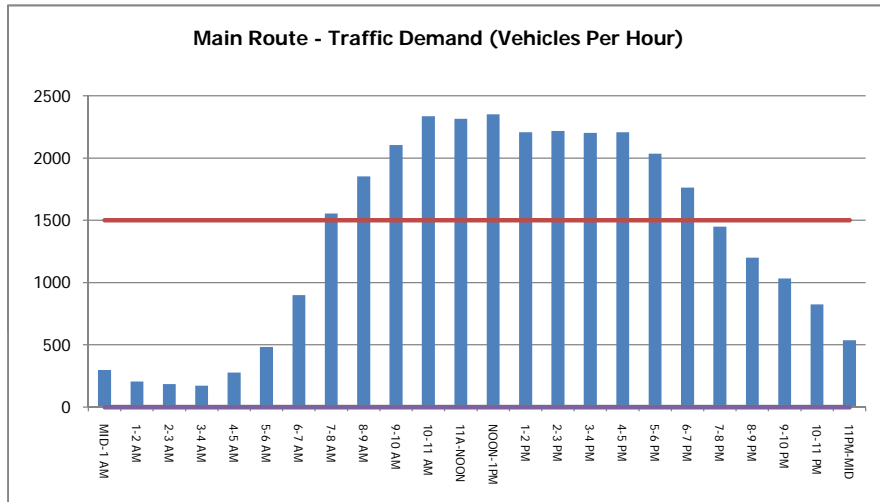
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$121,078
CONGESTED HOURS PER DAY*	9

*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
SATURDAY 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	
SATURDAY	NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			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	346	0.0	89	0.0	OFF	346	0	89	0.00	0	65.8	65.8	65.8	21.2	21.2
1-2 AM	217	0.0	56	0.0	OFF	217	0	56	0.00	0	66.0	66.0	66.0	22.1	22.1
2-3 AM	184	0.0	47	0.0	OFF	184	0	47	0.00	0	66.0	66.0	66.0	22.4	22.4
3-4 AM	173	0.0	44	0.0	OFF	173	0	44	0.00	0	66.1	66.1	66.1	22.4	22.4
4-5 AM	229	0.0	58	0.0	OFF	229	0	58	0.00	0	66.0	66.0	66.0	22.0	22.0
5-6 AM	470	0.0	120	0.0	OFF	470	0	120	0.00	0	65.5	65.5	65.5	20.4	20.4
6-7 AM	655	0.0	167	0.0	OFF	655	0	167	0.00	0	65.1	65.1	65.1	19.2	19.2
7-8 AM	1074	0.0	274	0.0	OFF	1074	0	274	0.00	0	64.4	64.4	64.4	16.4	16.4
8-9 AM	1434	0.0	365	0.0	1499	1434	0	365	1.06	4	63.7	40.0	32.7	14.0	14.0
9-10 AM	1915	0.0	488	0.0	1500	1915	0	488	7.06	197	62.8	14.2	30.8	11.7	12.4
10-11 AM	2353	0.0	600	0.0	1499	1888	465	1065+	26.27	689	62.0	7.3	30.8	9.9	10.0
11A-NOON	2494	0.0	636	0.0	1500	1495	999	1635+	29.95	784	60.9	6.9	30.8	9.4	9.3
NOON-1PM	2424	0.0	618	0.0	1500	1496	928	1546+	29.97	783	61.7	7.0	30.8	9.7	9.3
1-2 PM	2372	0.0	604	0.0	1500	1496	875	1479+	29.97	783	62.0	7.0	30.8	9.9	9.3
2-3 PM	2264	0.0	578	0.0	1500	1497	766	1344+	29.96	782	62.2	7.0	30.8	10.3	9.3
3-4 PM	2282	0.0	582	0.0	1500	1498	784	1366+	29.96	782	62.2	7.0	30.8	10.2	9.3
4-5 PM	2288	0.0	584	0.0	1500	1498	791	1374+	29.96	782	62.1	7.0	30.8	10.2	9.3
5-6 PM	2197	0.0	560	0.0	1500	1497	700	1260+	29.95	782	62.3	7.0	30.8	10.6	9.3
6-7 PM	1846	0.0	470	0.0	OFF	1846	0	470	2.33	147	63.0	27.6	27.6	11.9	11.9
7-8 PM	1489	0.0	380	0.0	OFF	1489	0	380	0.00	0	63.6	63.6	63.6	13.6	13.6
8-9 PM	1231	0.0	314	0.0	OFF	1231	0	314	0.00	0	64.1	64.1	64.1	15.3	15.3
9-10 PM	1011	0.0	257	0.0	OFF	1011	0	257	0.00	0	64.5	64.5	64.5	16.8	16.8
10-11 PM	705	0.0	180	0.0	OFF	705	0	180	0.00	0	65.1	65.1	65.1	18.8	18.8
11PM-MID	487	0.0	125	0.0	OFF	487	0	125	0.00	0	65.5	65.5	65.5	20.3	20.3

"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	0.0097
MAIN ROUTE WITH WORKS	0.0068
DIVERSION	0.0540

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$174,791
CONGESTED HOURS PER DAY*	8

*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
SATURDAY NORTHBOUND DIRECTION

