

<b>IH 43: STH 172 TO STH 42 (SHEBOYGAN, MANITOWOC AND BROWN COUNTIES)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: STH 96 - CTH R - USH 141</b>	<b>OCTOBER</b>
	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	144	0.0	26	0.0	1500	144	0	26	0.44	0	66.1	61.9	44.9	19.7	19.7
1-2 AM	106	0.0	19	0.0	1500	106	0	19	0.43	0	66.2	62.0	45.1	19.7	19.7
2-3 AM	77	0.0	14	0.0	1500	77	0	14	0.43	0	66.3	62.1	45.2	19.8	19.8
3-4 AM	66	0.0	12	0.0	1500	66	0	12	0.43	0	66.3	62.1	45.2	19.8	19.8
4-5 AM	71	0.0	13	0.0	1500	71	0	13	0.43	0	66.3	62.1	45.2	19.8	19.8
5-6 AM	86	0.0	16	0.0	1500	86	0	16	0.43	0	66.2	62.0	45.1	19.7	19.7
6-7 AM	135	0.0	25	0.0	1500	135	0	25	0.44	0	66.1	61.9	45.0	19.7	19.7
7-8 AM	237	0.0	43	0.0	1500	237	0	43	0.45	0	66.0	61.7	44.5	19.6	19.6
8-9 AM	362	0.0	66	0.0	1500	362	0	66	0.46	0	65.7	61.4	44.0	19.4	19.4
9-10 AM	589	0.0	108	0.0	1500	589	0	108	0.48	0	65.3	60.8	43.2	19.2	19.2
10-11 AM	882	0.0	162	0.0	1500	882	0	162	0.51	0	64.8	60.1	42.1	18.9	18.9
11A-NOON	1155	0.0	211	0.0	1500	1155	0	211	0.58	0	64.2	59.1	39.9	18.6	18.6
NOON-1PM	1335	0.0	245	0.0	1500	1335	0	245	0.81	0	63.9	56.9	34.6	18.4	18.4
1-2 PM	1439	0.0	264	0.0	1499	1439	0	264	0.95	0	63.7	55.8	32.1	18.3	18.3
2-3 PM	1550	0.0	285	0.0	1499	1550	0	285	1.51	14	63.5	51.8	30.8	18.1	18.1
3-4 PM	1793	0.0	329	0.0	1500	1793	0	329	7.34	186	63.0	30.2	30.8	17.8	17.8
4-5 PM	1872	0.0	343	0.0	1500	1795	77	420	19.92	522	62.9	16.0	30.8	17.8	17.3
5-6 PM	1516	0.0	277	0.0	1499	1374	142	419	22.39	577	63.6	14.7	30.8	18.1	17.3
6-7 PM	1018	0.0	186	0.0	1499	1018	0	186	10.17	295	64.5	25.4	35.1	18.7	18.7
7-8 PM	743	0.0	136	0.0	1500	743	0	136	0.52	0	65.0	60.2	42.6	19.0	19.0
8-9 PM	506	0.0	93	0.0	1500	506	0	93	0.47	0	65.5	61.0	43.5	19.3	19.3
9-10 PM	297	0.0	54	0.0	1500	297	0	54	0.45	0	65.8	61.5	44.3	19.6	19.6
10-11 PM	274	0.0	50	0.0	1500	274	0	50	0.45	0	65.9	61.6	44.4	19.6	19.6
11PM-MID	678	0.0	125	0.0	1500	678	0	125	0.49	0	65.1	60.6	42.8	19.1	19.1

*----- 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	0.0191
MAIN ROUTE WITH WORKS	0.0178
DIVERSION	0.0328

PIA: Personal Injury Accidents

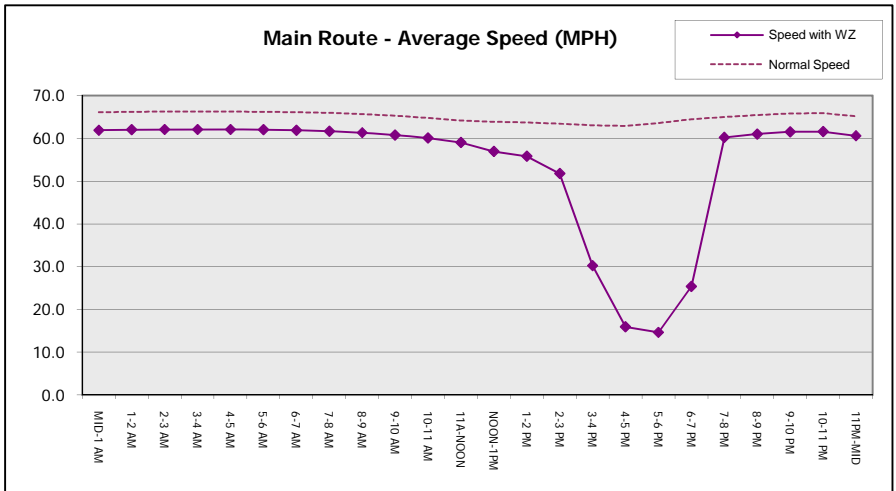
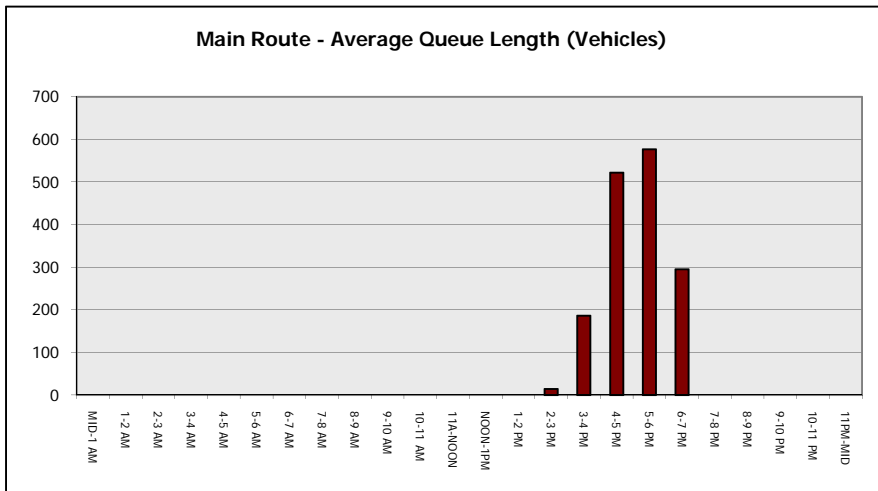
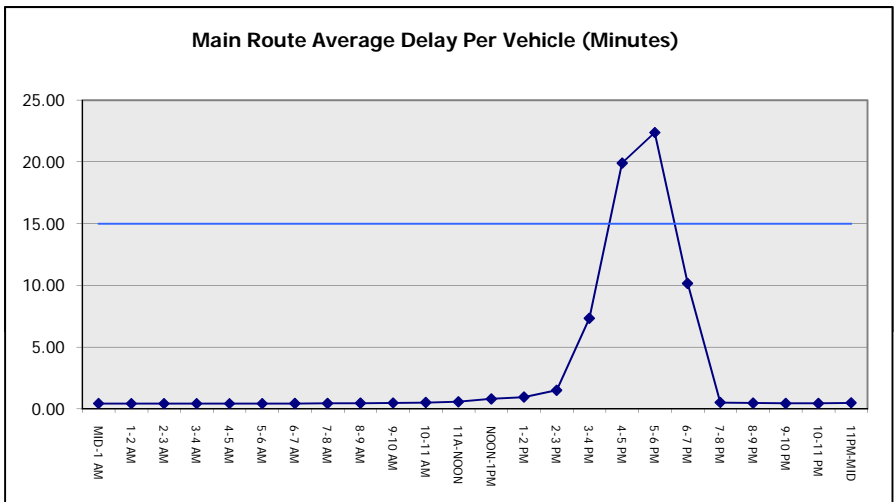
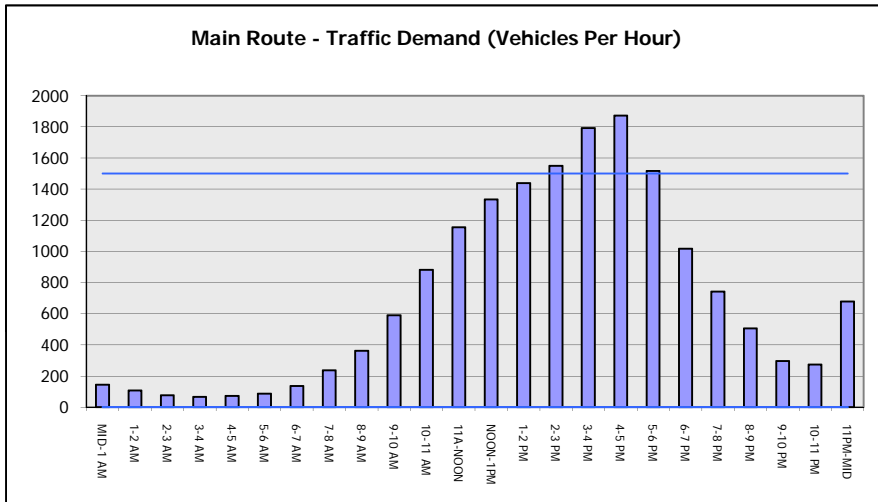
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$29,432
CONGESTED HOURS PER DAY*	2

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: STH 96 - CTH R - USH 141**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY SOUTHBOUND DIRECTION**



<b>IH 43: STH 172 TO STH 42 (SHEBOYGAN, MANITOWOC AND BROWN COUNTIES)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: STH 96 - CTH R - USH 141</b>	<b>OCTOBER</b>
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**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	124	0.0	23	0.0	1500	124	0	23	0.43	0	66.1	62.0	45.0	19.7	19.7
1-2 AM	78	0.0	15	0.0	1500	78	0	15	0.43	0	66.3	62.1	45.2	19.8	19.8
2-3 AM	56	0.0	10	0.0	1500	56	0	10	0.43	0	66.3	62.2	45.3	19.8	19.8
3-4 AM	43	0.0	8	0.0	1500	43	0	8	0.43	0	66.3	62.2	45.3	19.8	19.8
4-5 AM	54	0.0	9	0.0	1500	54	0	9	0.43	0	66.3	62.2	45.3	19.8	19.8
5-6 AM	100	0.0	18	0.0	1500	100	0	18	0.43	0	66.2	62.0	45.1	19.7	19.7
6-7 AM	134	0.0	24	0.0	1500	134	0	24	0.44	0	66.1	62.0	45.0	19.7	19.7
7-8 AM	231	0.0	42	0.0	1500	231	0	42	0.44	0	66.0	61.7	44.6	19.6	19.6
8-9 AM	497	0.0	91	0.0	1500	497	0	91	0.47	0	65.5	61.0	43.5	19.3	19.3
9-10 AM	878	0.0	161	0.0	1500	878	0	161	0.51	0	64.8	60.1	42.1	18.9	18.9
10-11 AM	949	0.0	174	0.0	1500	949	0	174	0.51	0	64.6	59.9	41.9	18.8	18.8
11A-NOON	785	0.0	144	0.0	1500	785	0	144	0.50	0	64.9	60.4	42.4	19.0	19.0
NOON-1PM	807	0.0	148	0.0	1500	807	0	148	0.50	0	64.9	60.3	42.4	18.9	18.9
1-2 PM	816	0.0	150	0.0	1500	816	0	150	0.50	0	64.9	60.2	42.4	18.9	18.9
2-3 PM	900	0.0	165	0.0	1500	900	0	165	0.51	0	64.7	60.1	42.0	18.8	18.8
3-4 PM	954	0.0	175	0.0	1500	954	0	175	0.51	0	64.6	59.9	41.9	18.8	18.8
4-5 PM	1029	0.0	188	0.0	1500	1029	0	188	0.52	0	64.5	59.7	41.5	18.7	18.7
5-6 PM	840	0.0	154	0.0	1500	840	0	154	0.50	0	64.8	60.2	42.2	18.9	18.9
6-7 PM	657	0.0	120	0.0	1500	657	0	120	0.49	0	65.1	60.7	42.9	19.1	19.1
7-8 PM	459	0.0	84	0.0	1500	459	0	84	0.47	0	65.5	61.1	43.7	19.4	19.4
8-9 PM	326	0.0	60	0.0	1500	326	0	60	0.45	0	65.8	61.5	44.2	19.5	19.5
9-10 PM	241	0.0	44	0.0	1500	241	0	44	0.45	0	66.0	61.7	44.5	19.6	19.6
10-11 PM	163	0.0	30	0.0	1500	163	0	30	0.44	0	66.1	61.9	44.8	19.7	19.7
11PM-MID	101	0.0	19	0.0	1500	101	0	19	0.43	0	66.2	62.0	45.1	19.7	19.7

*----- 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	0.0127
MAIN ROUTE WITH WORKS	0.0119
DIVERSION	0.0203

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$1,586
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: STH 96 - CTH R - USH 141**

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**SUNDAY NORTHBOUND DIRECTION**

