

IH 43: STH 172 TO STH 42 (SHEBOYGAN, MANITOWOC AND BROWN COUNTIES) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 96 - CTH R - USH 141	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	212	0.0	39	0.0	1500	212	0	39	0.44	0	66.0	61.7	44.6	19.6	19.6
1-2 AM	106	0.0	20	0.0	1500	106	0	20	0.43	0	66.2	62.0	45.1	19.7	19.7
2-3 AM	91	0.0	17	0.0	1500	91	0	17	0.43	0	66.2	62.0	45.1	19.7	19.7
3-4 AM	77	0.0	14	0.0	1500	77	0	14	0.43	0	66.3	62.1	45.2	19.8	19.8
4-5 AM	69	0.0	13	0.0	1500	69	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	168	0.0	30	0.0	1500	168	0	30	0.44	0	66.1	61.9	44.8	19.7	19.7
7-8 AM	286	0.0	52	0.0	1500	286	0	52	0.45	0	65.8	61.5	44.3	19.6	19.6
8-9 AM	489	0.0	90	0.0	1500	489	0	90	0.47	0	65.5	61.0	43.5	19.3	19.3
9-10 AM	785	0.0	143	0.0	1500	785	0	143	0.50	0	64.9	60.4	42.4	19.0	19.0
10-11 AM	1123	0.0	206	0.0	1500	1123	0	206	0.54	0	64.3	59.5	41.0	18.6	18.6
11A-NOON	1416	0.0	259	0.0	1499	1416	0	259	0.92	0	63.8	56.1	32.7	18.3	18.3
NOON-1PM	1564	0.0	287	0.0	1499	1564	0	287	1.92	25	63.5	49.4	30.8	18.1	18.1
1-2 PM	1624	0.0	297	0.0	1500	1624	0	297	5.40	121	63.3	35.1	30.8	18.0	18.0
2-3 PM	1692	0.0	310	0.0	1500	1692	0	310	11.19	280	63.2	23.8	30.8	17.9	17.9
3-4 PM	1734	0.0	318	0.0	1500	1714	21	339	19.19	496	63.2	16.4	30.8	17.9	17.8
4-5 PM	1659	0.0	304	0.0	1499	1488	171	476	23.05	594	63.3	14.3	30.8	18.0	16.9
5-6 PM	1446	0.0	265	0.0	1499	1407	39	304	20.98	539	63.7	15.4	30.8	18.3	18.0
6-7 PM	1188	0.0	218	0.0	1499	1188	0	218	13.45	350	64.1	21.2	31.4	18.5	18.5
7-8 PM	897	0.0	164	0.0	1500	897	0	164	1.31	29	64.7	54.0	41.8	18.9	18.9
8-9 PM	607	0.0	111	0.0	1500	607	0	111	0.48	0	65.3	60.8	43.1	19.2	19.2
9-10 PM	425	0.0	77	0.0	1500	425	0	77	0.46	0	65.6	61.2	43.8	19.4	19.4
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	163	0.0	29	0.0	1500	163	0	29	0.44	0	66.1	61.9	44.8	19.7	19.7

----- 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	0.0206
MAIN ROUTE WITH WORKS	0.0191
DIVERSION	0.0351

PIA: Personal Injury Accidents

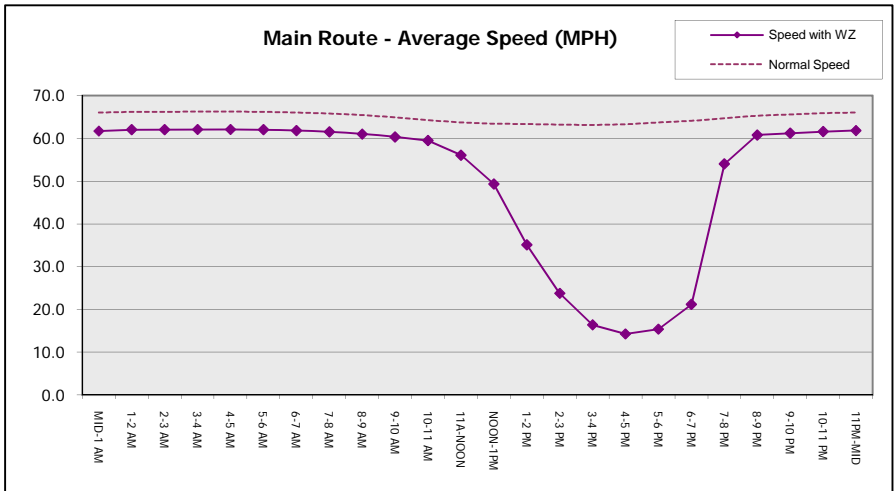
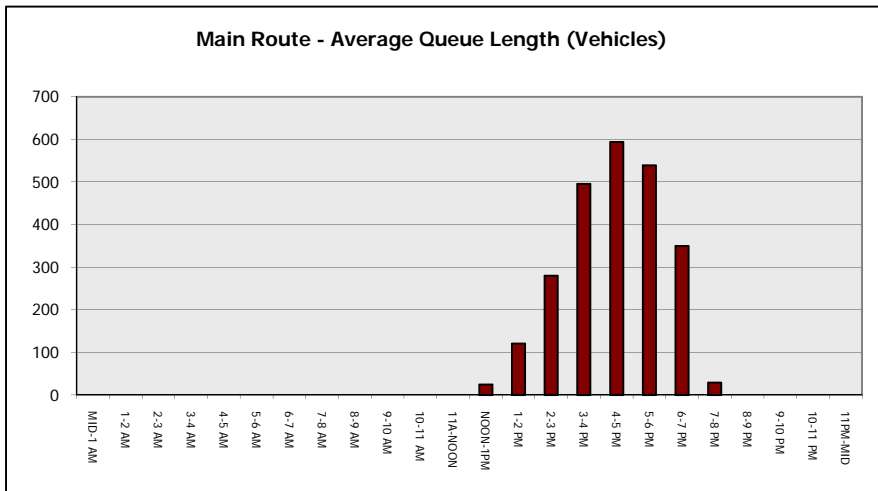
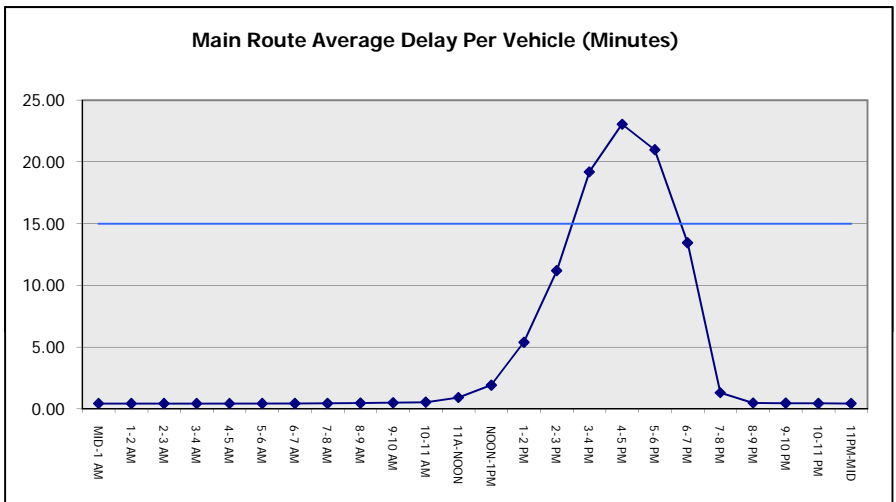
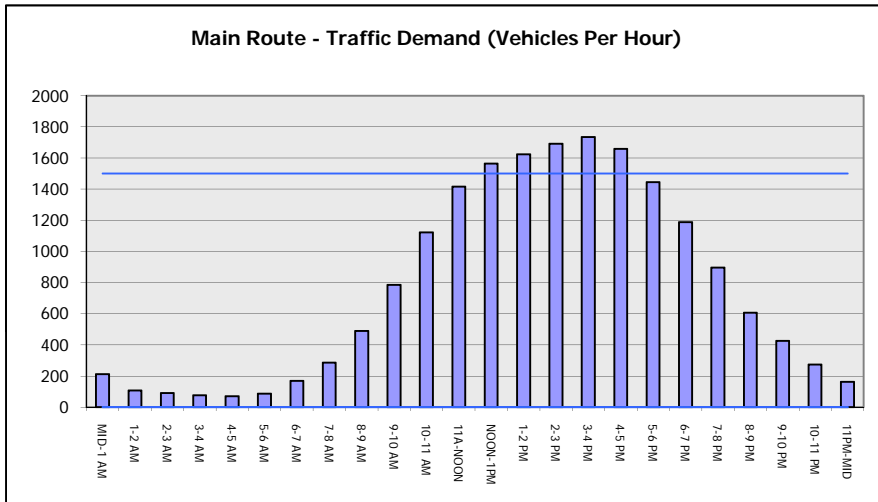
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$43,358
CONGESTED HOURS PER DAY*	3

*Delays Exceeding 15 Minutes

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

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



IH 43: STH 172 TO STH 42 (SHEBOYGAN, MANITOWOC AND BROWN COUNTIES) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 96 - CTH R - USH 141	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	145	0.0	26	0.0	1500	145	0	26	0.44	0	66.1	61.9	44.9	19.7	19.7
1-2 AM	91	0.0	17	0.0	1500	91	0	17	0.43	0	66.2	62.0	45.1	19.7	19.7
2-3 AM	68	0.0	13	0.0	1500	68	0	13	0.43	0	66.3	62.1	45.2	19.8	19.8
3-4 AM	47	0.0	8	0.0	1500	47	0	8	0.43	0	66.3	62.2	45.3	19.8	19.8
4-5 AM	46	0.0	8	0.0	1500	46	0	8	0.43	0	66.3	62.2	45.3	19.8	19.8
5-6 AM	99	0.0	18	0.0	1500	99	0	18	0.43	0	66.2	62.0	45.1	19.7	19.7
6-7 AM	129	0.0	24	0.0	1500	129	0	24	0.43	0	66.1	62.0	45.0	19.7	19.7
7-8 AM	195	0.0	36	0.0	1500	195	0	36	0.44	0	66.0	61.8	44.7	19.6	19.6
8-9 AM	322	0.0	59	0.0	1500	322	0	59	0.45	0	65.8	61.5	44.2	19.5	19.5
9-10 AM	524	0.0	96	0.0	1500	524	0	96	0.47	0	65.4	61.0	43.4	19.3	19.3
10-11 AM	738	0.0	135	0.0	1500	738	0	135	0.49	0	65.0	60.4	42.6	19.1	19.1
11A-NOON	904	0.0	165	0.0	1500	904	0	165	0.51	0	64.7	60.1	42.0	18.8	18.8
NOON-1PM	970	0.0	178	0.0	1500	970	0	178	0.52	0	64.6	59.9	41.8	18.8	18.8
1-2 PM	950	0.0	174	0.0	1500	950	0	174	0.51	0	64.6	59.9	41.9	18.8	18.8
2-3 PM	890	0.0	163	0.0	1500	890	0	163	0.51	0	64.7	60.1	42.0	18.9	18.9
3-4 PM	835	0.0	153	0.0	1500	835	0	153	0.50	0	64.8	60.2	42.3	18.9	18.9
4-5 PM	809	0.0	149	0.0	1500	809	0	149	0.50	0	64.9	60.3	42.4	18.9	18.9
5-6 PM	756	0.0	138	0.0	1500	756	0	138	0.50	0	65.0	60.4	42.5	19.0	19.0
6-7 PM	660	0.0	121	0.0	1500	660	0	121	0.49	0	65.1	60.7	42.9	19.1	19.1
7-8 PM	559	0.0	103	0.0	1500	559	0	103	0.48	0	65.3	60.9	43.3	19.3	19.3
8-9 PM	484	0.0	89	0.0	1500	484	0	89	0.47	0	65.5	61.1	43.6	19.3	19.3
9-10 PM	325	0.0	60	0.0	1500	325	0	60	0.45	0	65.8	61.5	44.2	19.5	19.5
10-11 PM	234	0.0	43	0.0	1500	234	0	43	0.45	0	66.0	61.7	44.5	19.6	19.6
11PM-MID	147	0.0	27	0.0	1500	147	0	27	0.44	0	66.1	61.9	44.9	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	0.0123
MAIN ROUTE WITH WORKS	0.0116
DIVERSION	0.0198

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,512
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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SUNDAY NORTHBOUND DIRECTION

