

IH 43: STH 172 TO STH 42 (SHEBOYGAN, MANITOWOC AND BROWN COUNTIES) OFF-PEAK DAY 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	OFF	212	0	39	0.00	0	66.0	66.0	66.0	19.6	19.6
1-2 AM	106	0.0	20	0.0	OFF	106	0	20	0.00	0	66.2	66.2	66.2	19.7	19.7
2-3 AM	91	0.0	17	0.0	OFF	91	0	17	0.00	0	66.2	66.2	66.2	19.7	19.7
3-4 AM	77	0.0	14	0.0	OFF	77	0	14	0.00	0	66.3	66.3	66.3	19.8	19.8
4-5 AM	69	0.0	13	0.0	OFF	69	0	13	0.00	0	66.3	66.3	66.3	19.8	19.8
5-6 AM	86	0.0	16	0.0	OFF	86	0	16	0.00	0	66.2	66.2	66.2	19.7	19.7
6-7 AM	168	0.0	30	0.0	OFF	168	0	30	0.00	0	66.1	66.1	66.1	19.7	19.7
7-8 AM	286	0.0	52	0.0	OFF	286	0	52	0.00	0	65.8	65.8	65.8	19.6	19.6
8-9 AM	489	0.0	90	0.0	OFF	489	0	90	0.00	0	65.5	65.5	65.5	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	OFF	897	0	164	0.11	5	64.7	63.7	63.7	18.9	18.9
8-9 PM	607	0.0	111	0.0	OFF	607	0	111	0.00	0	65.3	65.3	65.3	19.2	19.2
9-10 PM	425	0.0	77	0.0	OFF	425	0	77	0.00	0	65.6	65.6	65.6	19.4	19.4
10-11 PM	274	0.0	50	0.0	OFF	274	0	50	0.00	0	65.9	65.9	65.9	19.6	19.6
11PM-MID	163	0.0	29	0.0	OFF	163	0	29	0.00	0	66.1	66.1	66.1	19.7	19.7

"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	0.0206
MAIN ROUTE WITH WORKS	0.0194
DIVERSION	0.0351

PIA: Personal Injury Accidents

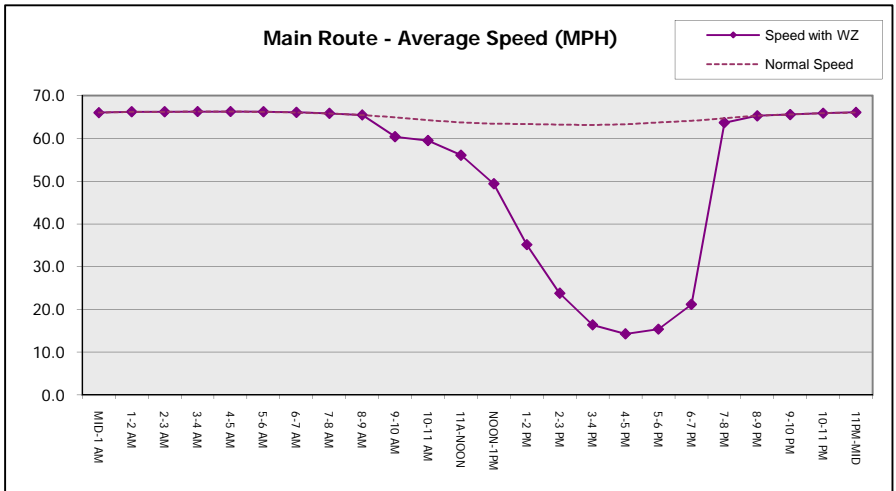
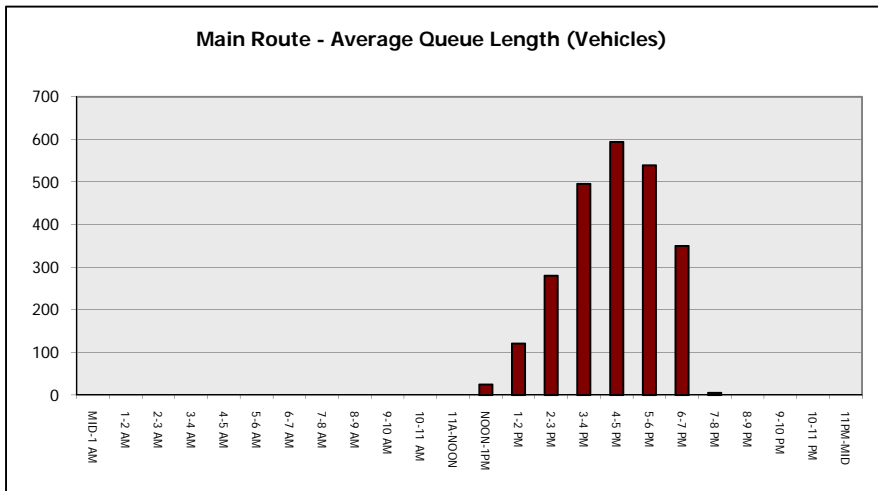
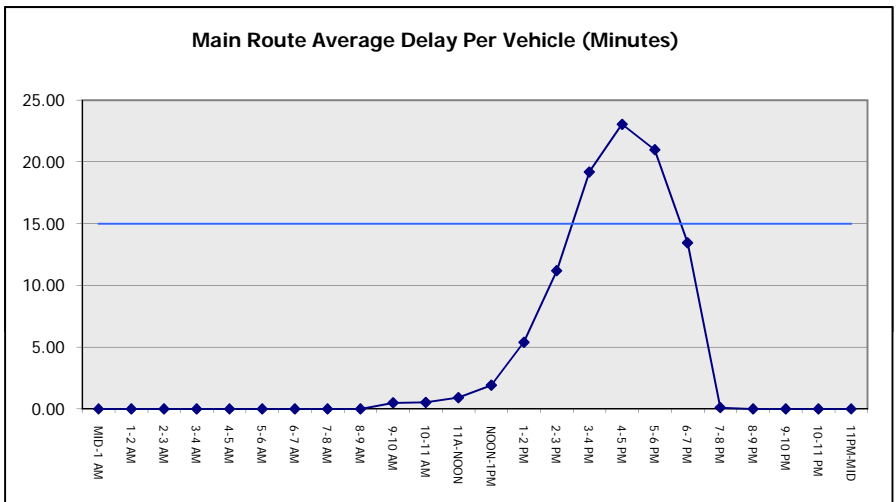
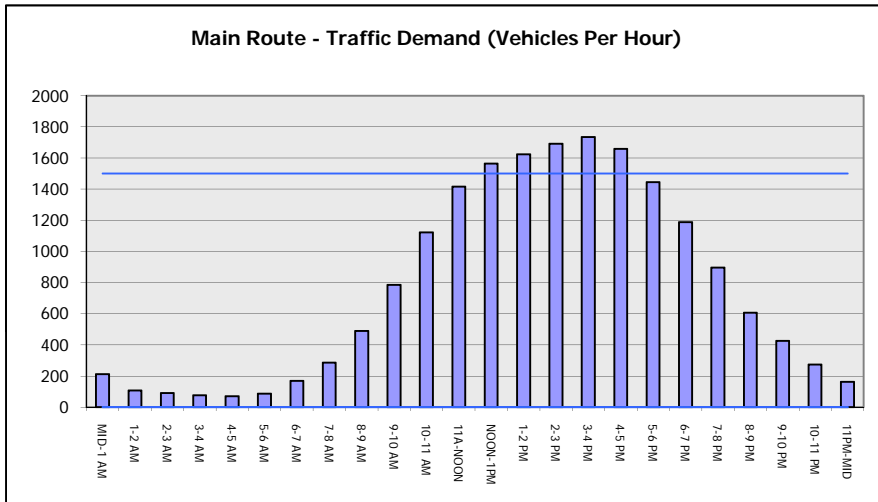
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$42,402
CONGESTED HOURS PER DAY*	3

*Delays Exceeding 15 Minutes

IH 43: STH 172 TO STH 42 (SHEBOYGAN, MANITOWOC AND BROWN COUNTIES)
OFF-PEAK DAY 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 OFF-PEAK DAY CLOSURE DIVERSION ROUTE: STH 96 - CTH R - USH 141	AUGUST
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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	145	0.0	26	0.0	OFF	145	0	26	0.00	0	66.1	66.1	66.1	19.7	19.7
1-2 AM	91	0.0	17	0.0	OFF	91	0	17	0.00	0	66.2	66.2	66.2	19.7	19.7
2-3 AM	68	0.0	13	0.0	OFF	68	0	13	0.00	0	66.3	66.3	66.3	19.8	19.8
3-4 AM	47	0.0	8	0.0	OFF	47	0	8	0.00	0	66.3	66.3	66.3	19.8	19.8
4-5 AM	46	0.0	8	0.0	OFF	46	0	8	0.00	0	66.3	66.3	66.3	19.8	19.8
5-6 AM	99	0.0	18	0.0	OFF	99	0	18	0.00	0	66.2	66.2	66.2	19.7	19.7
6-7 AM	129	0.0	24	0.0	OFF	129	0	24	0.00	0	66.1	66.1	66.1	19.7	19.7
7-8 AM	195	0.0	36	0.0	OFF	195	0	36	0.00	0	66.0	66.0	66.0	19.6	19.6
8-9 AM	322	0.0	59	0.0	OFF	322	0	59	0.00	0	65.8	65.8	65.8	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	OFF	559	0	103	0.00	0	65.3	65.3	65.3	19.3	19.3
8-9 PM	484	0.0	89	0.0	OFF	484	0	89	0.00	0	65.5	65.5	65.5	19.3	19.3
9-10 PM	325	0.0	60	0.0	OFF	325	0	60	0.00	0	65.8	65.8	65.8	19.5	19.5
10-11 PM	234	0.0	43	0.0	OFF	234	0	43	0.00	0	66.0	66.0	66.0	19.6	19.6
11PM-MID	147	0.0	27	0.0	OFF	147	0	27	0.00	0	66.1	66.1	66.1	19.7	19.7

"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	0.0123
MAIN ROUTE WITH WORKS	0.0118
DIVERSION	0.0198

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,134
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

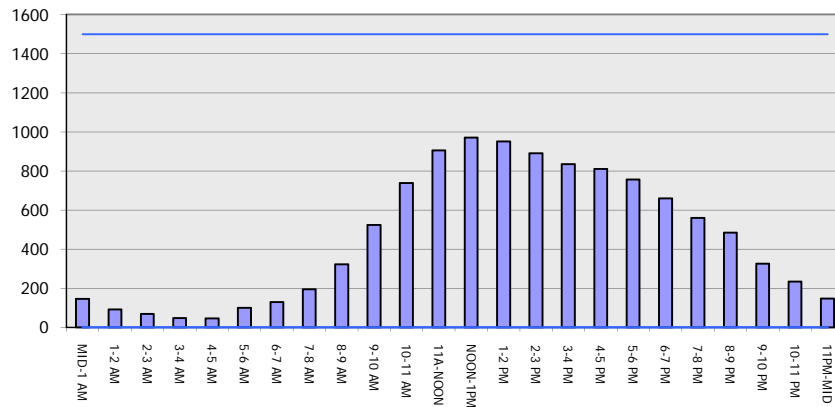
IH 43: STH 172 TO STH 42
OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: STH 96 - CTH R - USH 141

AUGUST
 Analyzed for 2009
 Construction Season

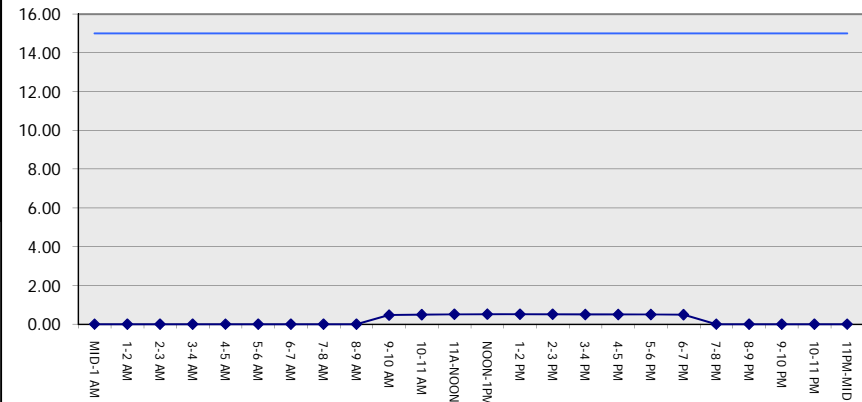
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY NORTHBOUND DIRECTION

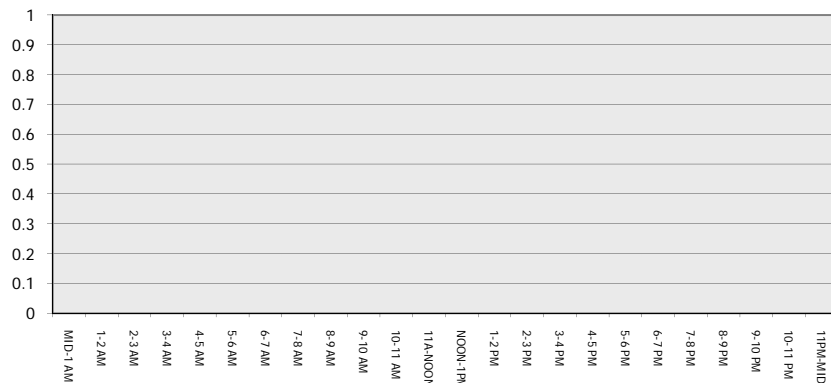
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

