

**IH 94: STH 20 TO STH 50 (RACINE AND KENOSHA COUNTIES)  
NIGHTTIME 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**  
SUNDAY WESTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	819	0.0	1500	819	0	0.47	0	70.2	66.8	45.5
1-2 AM	572	0.0	1500	572	0	0.44	0	70.2	67.0	46.6
2-3 AM	356	0.0	1500	356	0	0.41	0	70.2	67.2	47.6
3-4 AM	289	0.0	1500	289	0	0.41	0	70.2	67.3	47.9
4-5 AM	287	0.0	1500	287	0	0.41	0	70.2	67.3	47.9
5-6 AM	384	0.0	1500	384	0	0.42	0	70.2	67.2	47.4
6-7 AM	577	0.0	1500	577	0	0.44	0	70.2	67.0	46.6
7-8 AM	852	0.0	1500	852	0	0.48	0	70.2	66.8	45.4
8-9 AM	1260	0.0	1499	1260	0	0.70	0	70.2	65.3	39.4
9-10 AM	2162	0.0	OFF	2162	0	0.00	0	69.4	69.4	69.4
10-11 AM	2938	0.0	OFF	2938	0	0.00	0	68.4	68.4	68.4
11AM-NOON	3635	0.0	OFF	3635	0	0.00	0	67.3	67.3	67.3
NOON-1PM	3918	0.0	OFF	3918	0	0.00	0	65.4	65.4	65.4
1-2 PM	4042	0.0	OFF	4042	0	0.00	0	64.5	64.5	64.5
2-3 PM	4003	0.0	OFF	4003	0	0.00	0	64.8	64.8	64.8
3-4 PM	4082	0.0	OFF	4082	0	0.00	0	64.3	64.3	64.3
4-5 PM	3847	0.0	OFF	3847	0	0.00	0	65.9	65.9	65.9
5-6 PM	3788	0.0	OFF	3788	0	0.00	0	66.3	66.3	66.3
6-7 PM	3224	0.0	OFF	3224	0	0.00	0	68.1	68.1	68.1
7-8 PM	2723	0.0	1499	1686	1036	13.99+	355	68.7	27.8	38.1
8-9 PM	2265	0.0	1499	1716	549	14.90+	371	69.2	26.8	33.4
9-10 PM	1750	0.0	1499	1500	250	16.26+	399	69.9	25.5	32.5
10-11 PM	1202	0.0	1499	1202	0	11.14	282	70.2	31.9	34.4
11PM-MID	823	0.0	1500	823	0	0.75	8	70.2	65.0	45.5

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0864
MAIN ROUTE WITH WORKS	0.0824
'DIVERSION'	0.0074
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$29,432
CONGESTED HOURS PER DAY*	3

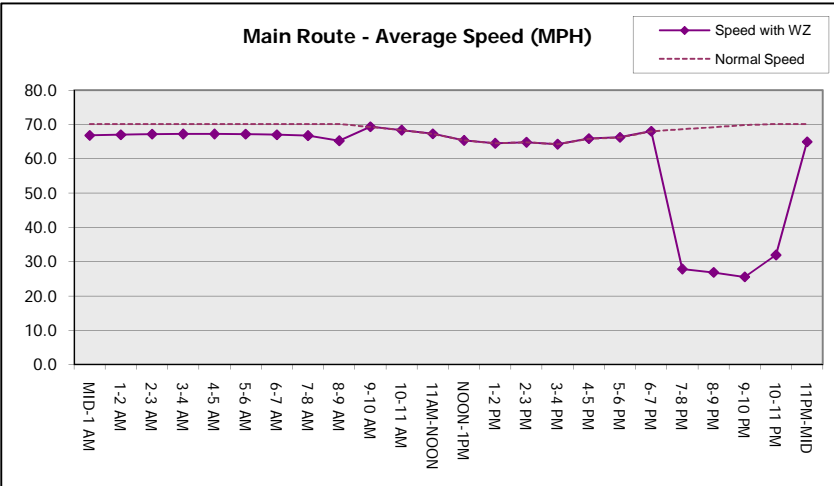
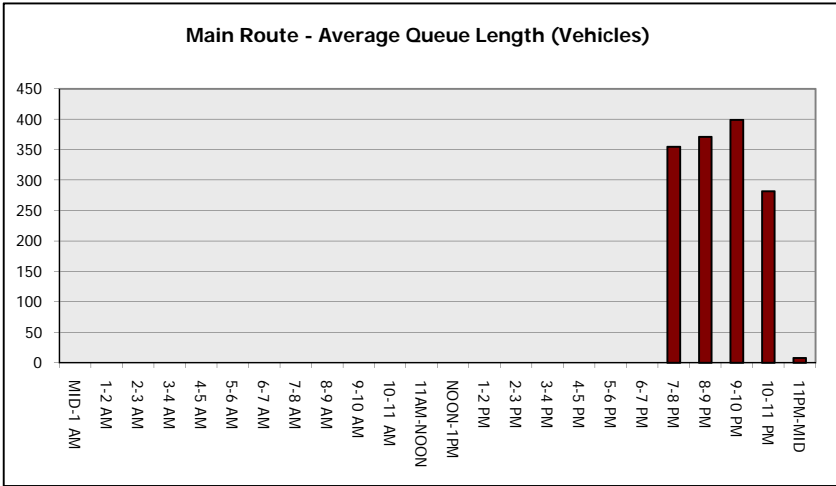
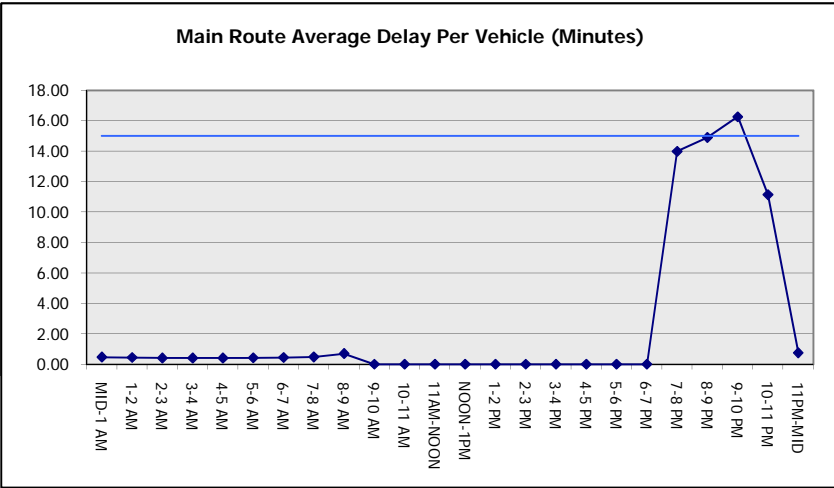
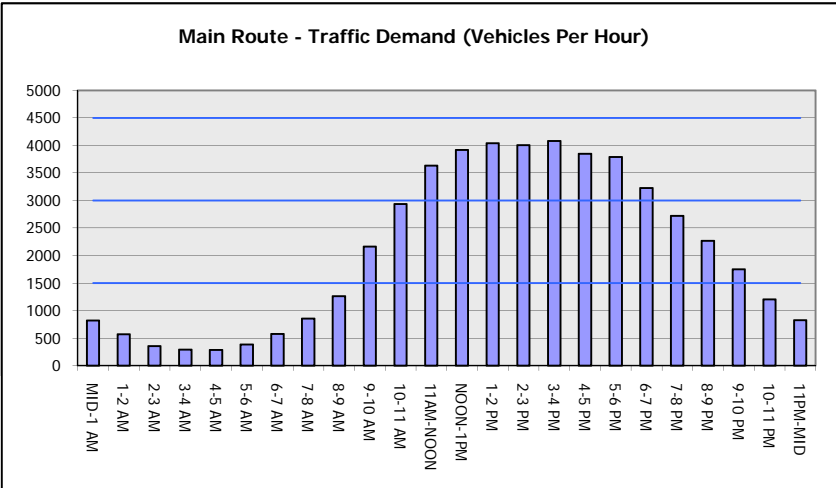
\*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY WESTBOUND DIRECTION**



<b>IH 94: STH 20 TO STH 50 (RACINE AND KENOSHA COUNTIES)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	661	0.0	1500	661	0	0.45	0	70.2	66.9	46.2
1-2 AM	425	0.0	1500	425	0	0.42	0	70.2	67.1	47.3
2-3 AM	278	0.0	1500	278	0	0.40	0	70.2	67.3	47.9
3-4 AM	227	0.0	1500	227	0	0.40	0	70.2	67.3	48.1
4-5 AM	224	0.0	1500	224	0	0.40	0	70.2	67.3	48.2
5-6 AM	303	0.0	1500	303	0	0.41	0	70.2	67.3	47.8
6-7 AM	481	0.0	1500	481	0	0.43	0	70.2	67.1	47.0
7-8 AM	771	0.0	1500	771	0	0.47	0	70.2	66.8	45.8
8-9 AM	1239	0.0	1499	1239	0	0.67	0	70.2	65.5	40.0
9-10 AM	1855	0.0	OFF	1855	0	0.00	0	69.7	69.7	69.7
10-11 AM	2487	0.0	OFF	2487	0	0.00	0	68.9	68.9	68.9
11AM-NOON	3055	0.0	OFF	3055	0	0.00	0	68.2	68.2	68.2
NOON-1PM	2970	0.0	OFF	2970	0	0.00	0	68.4	68.4	68.4
1-2 PM	2881	0.0	OFF	2881	0	0.00	0	68.4	68.4	68.4
2-3 PM	2855	0.0	OFF	2855	0	0.00	0	68.5	68.5	68.5
3-4 PM	2828	0.0	OFF	2828	0	0.00	0	68.5	68.5	68.5
4-5 PM	3045	0.0	OFF	3045	0	0.00	0	68.2	68.2	68.2
5-6 PM	2768	0.0	OFF	2768	0	0.00	0	68.6	68.6	68.6
6-7 PM	2768	0.0	OFF	2768	0	0.00	0	68.6	68.6	68.6
7-8 PM	2536	0.0	1499	1859	677	13.10+	327	68.9	28.9	35.6
8-9 PM	2089	0.0	1499	1500	589	16.22+	399	69.4	25.5	32.5
9-10 PM	1571	0.0	1500	1519	51	15.89+	389	70.1	25.9	32.4
10-11 PM	1219	0.0	1499	1219	0	10.38	260	70.2	33.2	34.1
11PM-MID	853	0.0	1500	853	0	0.74	8	70.2	65.0	45.3

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0701
MAIN ROUTE WITH WORKS	0.0670
'DIVERSION'	0.0053

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$27,071
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

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

