

IH 94: STH 20 TO STH 50 (RACINE AND KENOSHA COUNTIES) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	504	0.0	1500	504	0	0.43	0	70.2	67.1	46.9	
1-2 AM	317	0.0	1500	317	0	0.41	0	70.2	67.2	47.8	
2-3 AM	290	0.0	1500	290	0	0.41	0	70.2	67.3	47.9	
3-4 AM	240	0.0	1500	240	0	0.40	0	70.2	67.3	48.1	
4-5 AM	223	0.0	1500	223	0	0.40	0	70.2	67.3	48.2	
5-6 AM	322	0.0	1500	322	0	0.41	0	70.2	67.2	47.7	
6-7 AM	517	0.0	1500	517	0	0.43	0	70.2	67.1	46.8	
7-8 AM	781	0.0	1500	781	0	0.47	0	70.2	66.8	45.7	
8-9 AM	1140	0.0	1499	1140	0	0.60	0	70.2	66.0	41.8	
9-10 AM	1795	0.0	OFF	1795	0	0.00	0	69.8	69.8	69.8	
10-11 AM	2457	0.0	OFF	2457	0	0.00	0	69.0	69.0	69.0	
11AM-NOON	2902	0.0	OFF	2902	0	0.00	0	68.4	68.4	68.4	
NOON-1PM	3133	0.0	OFF	3133	0	0.00	0	68.1	68.1	68.1	
1-2 PM	3165	0.0	OFF	3165	0	0.00	0	68.1	68.1	68.1	
2-3 PM	3194	0.0	OFF	3194	0	0.00	0	68.1	68.1	68.1	
3-4 PM	3221	0.0	OFF	3221	0	0.00	0	68.1	68.1	68.1	
4-5 PM	3324	0.0	OFF	3324	0	0.00	0	67.9	67.9	67.9	
5-6 PM	3226	0.0	OFF	3226	0	0.00	0	68.0	68.0	68.0	
6-7 PM	2535	0.0	OFF	2535	0	0.00	0	68.9	68.9	68.9	
7-8 PM	2152	0.0	1499	1868	284	11.32+	292	69.4	31.5	32.5	
8-9 PM	1859	0.0	1499	1500	359	16.25+	400	69.7	25.5	32.5	
9-10 PM	1417	0.0	1500	1417	0	14.53	354	70.2	27.4	32.4	
10-11 PM	975	0.0	1499	975	0	3.26	93	70.2	52.0	41.4	
11PM-MID	626	0.0	1500	626	0	0.45	0	70.2	66.9	46.4	

"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	0.0
(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	0
(VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

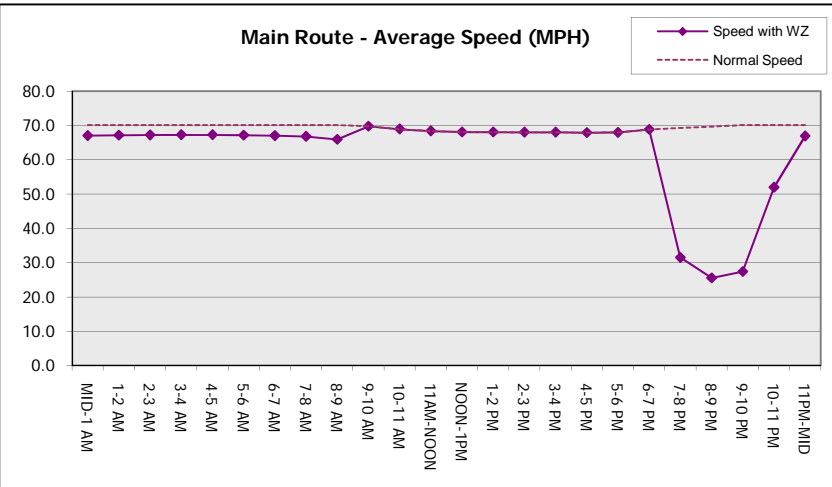
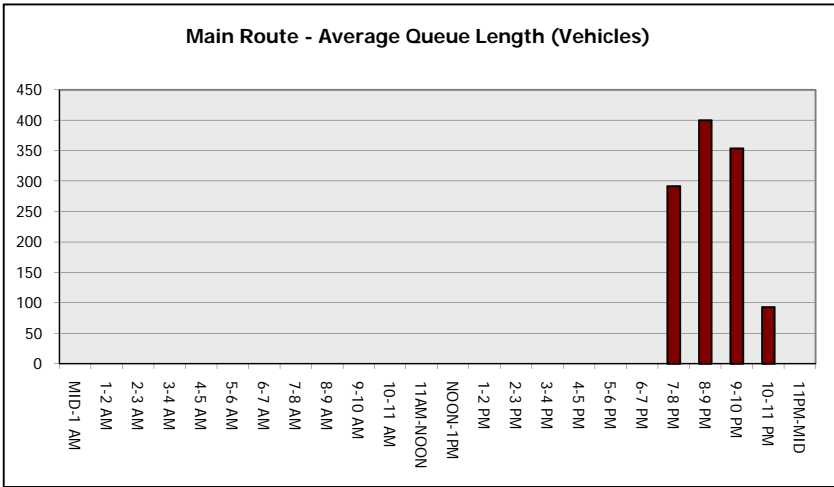
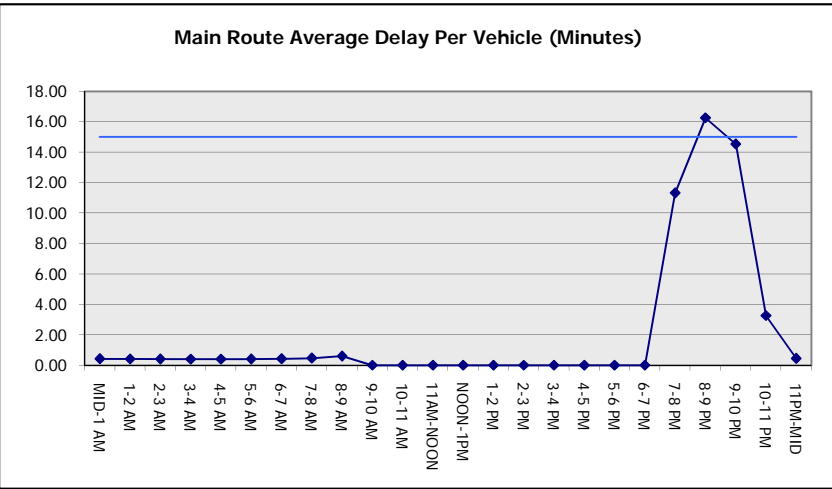
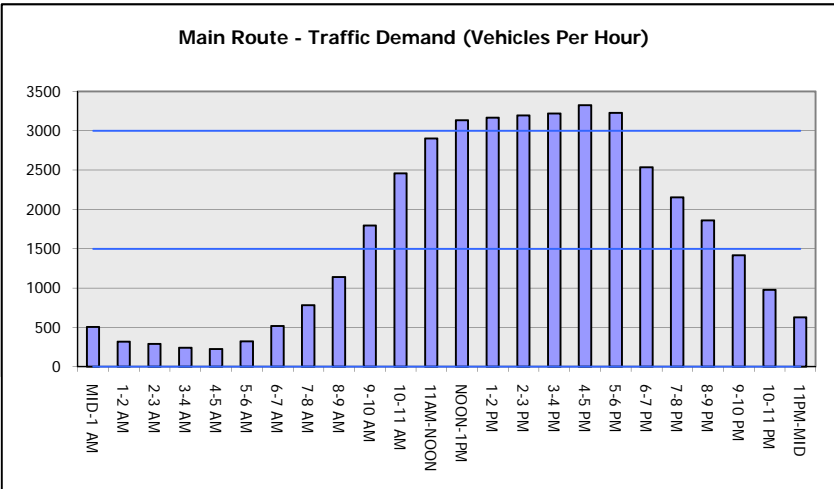
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0699
MAIN ROUTE WITH WORKS	0.0681
'DIVERSION'	0.0026
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$21,175
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



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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	637	0.0	1500	637	0	0.45	0	70.2	66.9	46.3
1-2 AM	399	0.0	1500	399	0	0.42	0	70.2	67.1	47.4
2-3 AM	275	0.0	1500	275	0	0.40	0	70.2	67.3	47.9
3-4 AM	204	0.0	1500	204	0	0.40	0	70.2	67.3	48.3
4-5 AM	208	0.0	1500	208	0	0.40	0	70.2	67.3	48.3
5-6 AM	283	0.0	1500	283	0	0.40	0	70.2	67.3	47.9
6-7 AM	498	0.0	1500	498	0	0.43	0	70.2	67.1	46.9
7-8 AM	773	0.0	1500	773	0	0.47	0	70.2	66.8	45.7
8-9 AM	1212	0.0	1499	1212	0	0.64	0	70.2	65.6	40.7
9-10 AM	1649	0.0	OFF	1649	0	0.00	0	70.0	70.0	70.0
10-11 AM	2266	0.0	OFF	2266	0	0.00	0	69.2	69.2	69.2
11AM-NOON	2638	0.0	OFF	2638	0	0.00	0	68.7	68.7	68.7
NOON-1PM	2684	0.0	OFF	2684	0	0.00	0	68.7	68.7	68.7
1-2 PM	2607	0.0	OFF	2607	0	0.00	0	68.8	68.8	68.8
2-3 PM	2554	0.0	OFF	2554	0	0.00	0	68.9	68.9	68.9
3-4 PM	2628	0.0	OFF	2628	0	0.00	0	68.7	68.7	68.7
4-5 PM	2697	0.0	OFF	2697	0	0.00	0	68.7	68.7	68.7
5-6 PM	2598	0.0	OFF	2598	0	0.00	0	68.8	68.8	68.8
6-7 PM	2461	0.0	OFF	2461	0	0.00	0	69.0	69.0	69.0
7-8 PM	2308	0.0	1499	1942	366	12.26+	310	69.2	30.1	32.5
8-9 PM	1857	0.0	1500	1470	387	16.13+	396	69.7	25.6	32.5
9-10 PM	1528	0.0	1499	1462	66	16.13+	395	70.1	25.7	32.5
10-11 PM	1101	0.0	1499	1101	0	7.15	198	70.2	39.7	37.4
11PM-MID	772	0.0	1500	772	0	0.47	0	70.2	66.8	45.8

"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	0.0639
MAIN ROUTE WITH WORKS	0.0617
'DIVERSION'	0.0033

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$24,496
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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SUNDAY EASTBOUND DIRECTION

