

IH 94: STH 100/RYAN RD TO STH 20 (MILWAUKEE AND RACINE COUNTIES) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	737	0.0	1500	737	0	0.56	2	70.2	66.1	45.9	
1-2 AM	593	0.0	1500	593	0	0.44	0	70.2	66.8	46.5	
2-3 AM	455	0.0	1500	455	0	0.43	0	70.2	66.9	47.1	
3-4 AM	495	0.0	1500	495	0	0.43	0	70.2	66.9	46.9	
4-5 AM	767	0.0	1500	767	0	0.46	0	70.2	66.7	45.8	
5-6 AM	1826	0.0	OFF	1826	0	0.00	0	69.7	69.7	69.7	
6-7 AM	2960	0.0	OFF	2960	0	0.00	0	68.4	68.4	68.4	
7-8 AM	3389	0.0	OFF	3389	0	0.00	0	67.8	67.8	67.8	
8-9 AM	2850	0.0	OFF	2850	0	0.00	0	68.5	68.5	68.5	
9-10 AM	2913	0.0	OFF	2913	0	0.00	0	68.4	68.4	68.4	
10-11 AM	3241	0.0	OFF	3241	0	0.00	0	68.0	68.0	68.0	
11AM-NOON	3440	0.0	OFF	3440	0	0.00	0	67.8	67.8	67.8	
NOON-1PM	3535	0.0	OFF	3535	0	0.00	0	67.6	67.6	67.6	
1-2 PM	3869	0.0	OFF	3869	0	0.00	0	65.7	65.7	65.7	
2-3 PM	4054	0.0	OFF	4054	0	0.00	0	64.5	64.5	64.5	
3-4 PM	4108	0.0	OFF	4108	0	0.00	0	64.1	64.1	64.1	
4-5 PM	4004	0.0	OFF	4004	0	0.00	0	64.8	64.8	64.8	
5-6 PM	3924	0.0	OFF	3924	0	0.00	0	65.3	65.3	65.3	
6-7 PM	3619	0.0	OFF	3619	0	0.00	0	67.4	67.4	67.4	
7-8 PM	3286	0.0	1499	1550	1736	16.27+	412	67.9	24.5	39.1	
8-9 PM	2625	0.0	1499	1607	1018	14.31+	372	68.7	26.7	38.2	
9-10 PM	2126	0.0	1499	1683	442	14.26+	358	69.4	26.8	34.5	
10-11 PM	1634	0.0	1499	1561	73	16.01+	393	70.0	25.0	32.5	
11PM-MID	1161	0.0	1499	1161	0	10.03	259	70.2	33.0	35.4	

"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 (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

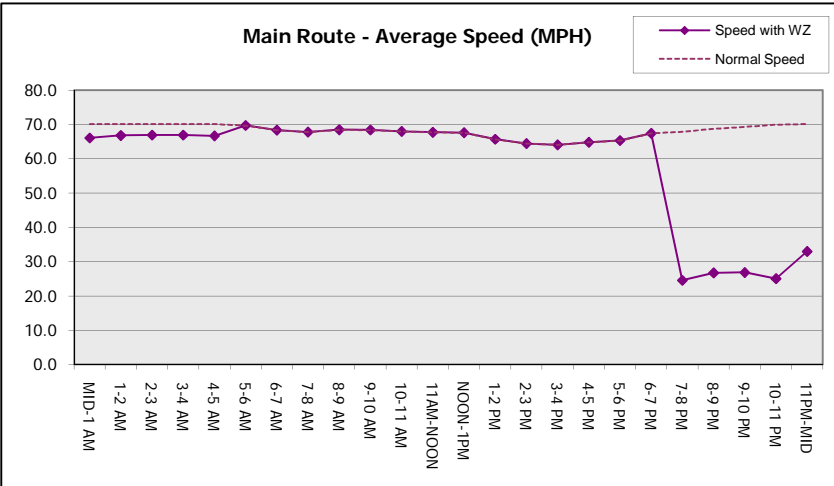
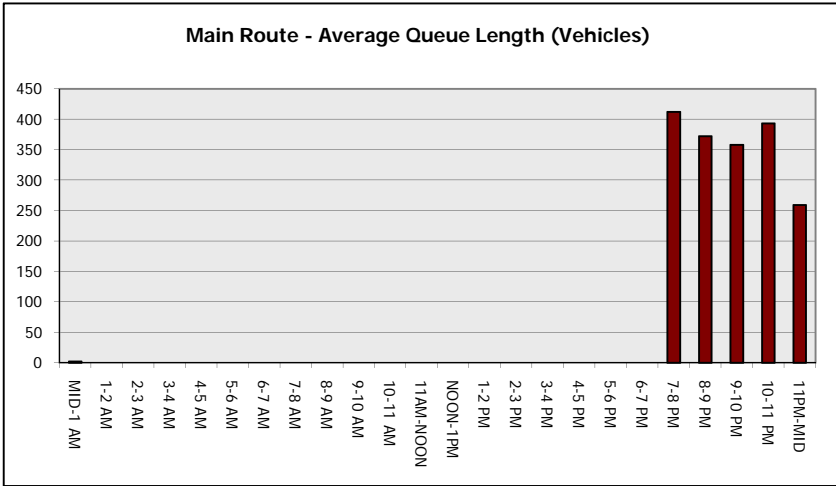
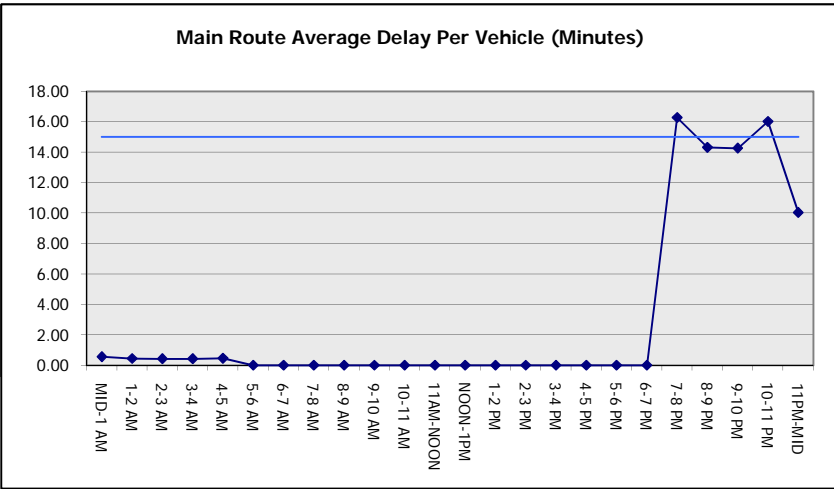
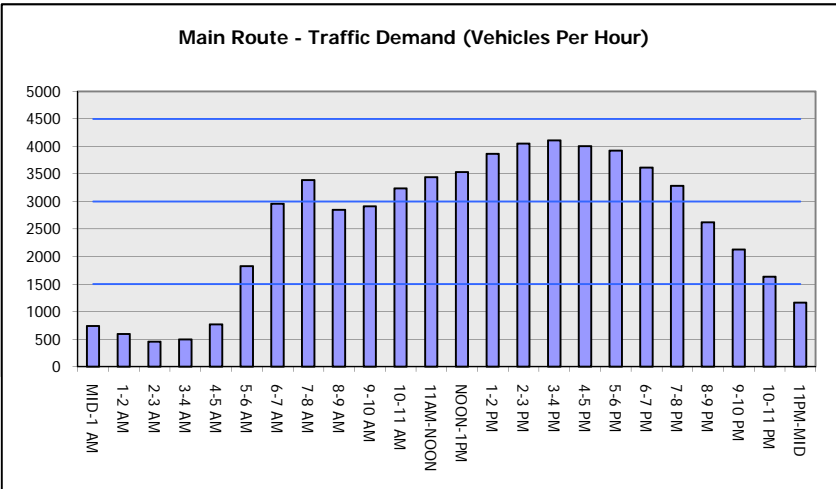
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.1020
MAIN ROUTE WITH WORKS	0.0959
'DIVERSION'	0.0125
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$36,550
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	691	0.0	1500	691	0	1.05	20	70.2	62.7	46.0
1-2 AM	512	0.0	1500	512	0	0.43	0	70.2	66.9	46.9
2-3 AM	461	0.0	1500	461	0	0.43	0	70.2	66.9	47.1
3-4 AM	509	0.0	1500	509	0	0.43	0	70.2	66.9	46.9
4-5 AM	751	0.0	1500	751	0	0.46	0	70.2	66.7	45.8
5-6 AM	1286	0.0	OFF	1286	0	0.00	0	70.2	70.2	70.2
6-7 AM	2076	0.0	OFF	2076	0	0.00	0	69.4	69.4	69.4
7-8 AM	2678	0.0	OFF	2678	0	0.00	0	68.7	68.7	68.7
8-9 AM	2617	0.0	OFF	2617	0	0.00	0	68.8	68.8	68.8
9-10 AM	2829	0.0	OFF	2829	0	0.00	0	68.5	68.5	68.5
10-11 AM	2998	0.0	OFF	2998	0	0.00	0	68.3	68.3	68.3
11AM-NOON	3025	0.0	OFF	3025	0	0.00	0	68.2	68.2	68.2
NOON-1PM	3276	0.0	OFF	3276	0	0.00	0	67.9	67.9	67.9
1-2 PM	3353	0.0	OFF	3353	0	0.00	0	67.9	67.9	67.9
2-3 PM	3578	0.0	OFF	3578	0	0.00	0	67.6	67.6	67.6
3-4 PM	3849	0.0	OFF	3849	0	0.00	0	65.9	65.9	65.9
4-5 PM	3896	0.0	OFF	3896	0	0.00	0	65.5	65.5	65.5
5-6 PM	3839	0.0	OFF	3839	0	0.00	0	66.0	66.0	66.0
6-7 PM	3136	0.0	OFF	3136	0	0.00	0	68.1	68.1	68.1
7-8 PM	2417	0.0	1499	1874	544	12.92+	322	69.1	28.4	34.6
8-9 PM	1904	0.0	1499	1500	404	16.25+	399	69.7	24.8	32.5
9-10 PM	1773	0.0	1500	1500	273	16.27+	400	69.9	24.8	32.5
10-11 PM	1744	0.0	1500	1507	237	16.24+	399	69.9	24.8	32.5
11PM-MID	1292	0.0	1500	1292	0	12.54	309	70.2	29.1	32.9

"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	0.0902
MAIN ROUTE WITH WORKS	0.0871
'DIVERSION'	0.0056

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$31,239
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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FRIDAY EASTBOUND DIRECTION

