

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

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	581	0.0	OFF	581	0	0.00	0	70.2	70.2	70.2	
1-2 AM	450	0.0	OFF	450	0	0.00	0	70.2	70.2	70.2	
2-3 AM	373	0.0	OFF	373	0	0.00	0	70.2	70.2	70.2	
3-4 AM	416	0.0	OFF	416	0	0.00	0	70.2	70.2	70.2	
4-5 AM	714	0.0	OFF	714	0	0.00	0	70.2	70.2	70.2	
5-6 AM	1769	0.0	OFF	1769	0	0.00	0	69.9	69.9	69.9	
6-7 AM	3127	0.0	OFF	3127	0	0.00	0	68.1	68.1	68.1	
7-8 AM	3529	0.0	OFF	3529	0	0.00	0	67.6	67.6	67.6	
8-9 AM	2740	0.0	OFF	2740	0	0.00	0	68.6	68.6	68.6	
9-10 AM	2576	0.0	1499	1912	663	13.03+	325	68.8	28.3	34.7	
10-11 AM	2724	0.0	1499	1500	1224	16.11+	399	68.7	24.8	32.5	
11AM-NOON	2816	0.0	1500	1500	1316	16.10+	400	68.6	24.8	32.5	
NOON-1PM	2765	0.0	1500	1500	1265	16.10+	400	68.6	24.8	32.5	
1-2 PM	2845	0.0	1500	1500	1345	16.09+	400	68.5	24.8	32.5	
2-3 PM	3036	0.0	1500	1500	1536	16.06+	400	68.2	24.8	32.5	
3-4 PM	3160	0.0	1500	1500	1660	16.04+	400	68.1	24.8	32.5	
4-5 PM	3280	0.0	OFF	3280	0	0.45	31	67.9	64.8	64.8	
5-6 PM	3210	0.0	OFF	3210	0	0.00	0	68.1	68.1	68.1	
6-7 PM	2554	0.0	OFF	2554	0	0.00	0	68.9	68.9	68.9	
7-8 PM	1947	0.0	OFF	1947	0	0.00	0	69.6	69.6	69.6	
8-9 PM	1663	0.0	OFF	1663	0	0.00	0	70.0	70.0	70.0	
9-10 PM	1443	0.0	OFF	1443	0	0.00	0	70.2	70.2	70.2	
10-11 PM	1222	0.0	OFF	1222	0	0.00	0	70.2	70.2	70.2	
11PM-MID	914	0.0	OFF	914	0	0.00	0	70.2	70.2	70.2	

"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

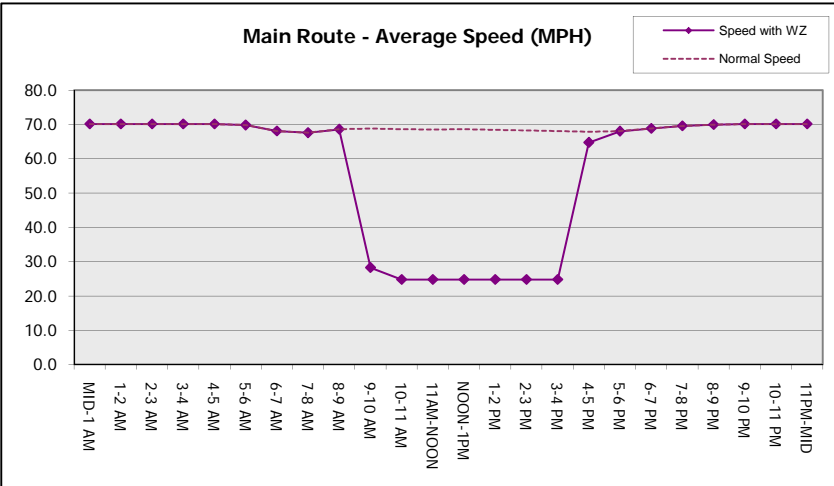
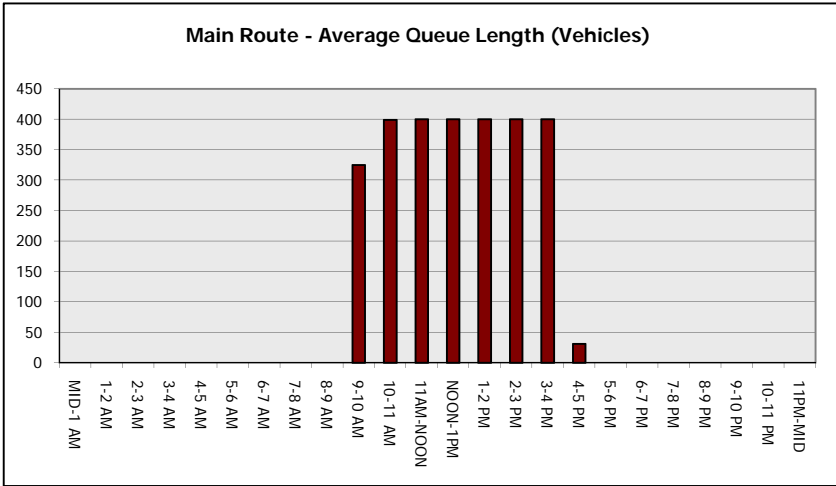
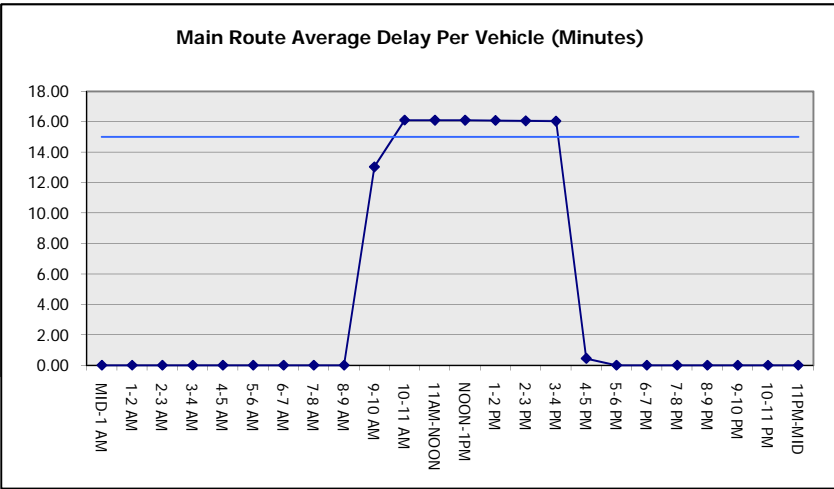
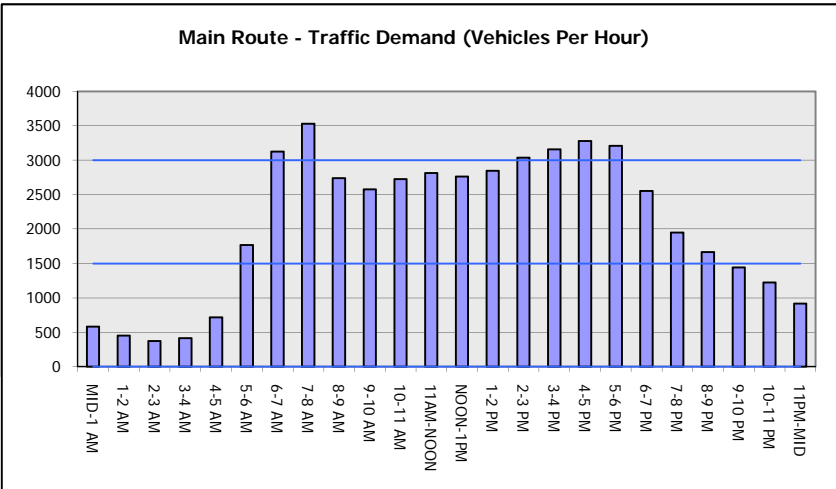
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0825
MAIN ROUTE WITH WORKS	0.0669
'DIVERSION'	0.0345
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$68,192
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	602	0.0	OFF	602	0	0.00	0	70.2	70.2	70.2
1-2 AM	433	0.0	OFF	433	0	0.00	0	70.2	70.2	70.2
2-3 AM	377	0.0	OFF	377	0	0.00	0	70.2	70.2	70.2
3-4 AM	436	0.0	OFF	436	0	0.00	0	70.2	70.2	70.2
4-5 AM	706	0.0	OFF	706	0	0.00	0	70.2	70.2	70.2
5-6 AM	1361	0.0	OFF	1361	0	0.00	0	70.2	70.2	70.2
6-7 AM	2200	0.0	OFF	2200	0	0.00	0	69.3	69.3	69.3
7-8 AM	2857	0.0	OFF	2857	0	0.00	0	68.5	68.5	68.5
8-9 AM	2713	0.0	OFF	2713	0	0.00	0	68.7	68.7	68.7
9-10 AM	2691	0.0	1499	1826	865	13.34+	335	68.7	27.8	37.2
10-11 AM	2703	0.0	1499	1500	1203	16.09+	399	68.7	24.8	33.1
11AM-NOON	2771	0.0	1500	1500	1271	16.08+	400	68.6	24.8	33.1
NOON-1PM	2797	0.0	1500	1500	1297	16.08+	400	68.6	24.8	33.1
1-2 PM	2873	0.0	1500	1500	1373	16.06+	400	68.5	24.8	33.1
2-3 PM	3127	0.0	1500	1500	1627	16.02+	400	68.1	24.8	33.1
3-4 PM	3495	0.0	1500	1500	1995	15.96+	400	67.7	24.8	33.1
4-5 PM	3739	0.0	OFF	3739	0	0.56	23	66.6	62.8	62.8
5-6 PM	3743	0.0	OFF	3743	0	0.00	0	66.6	66.6	66.6
6-7 PM	2843	0.0	OFF	2843	0	0.00	0	68.5	68.5	68.5
7-8 PM	2031	0.0	OFF	2031	0	0.00	0	69.5	69.5	69.5
8-9 PM	1684	0.0	OFF	1684	0	0.00	0	69.9	69.9	69.9
9-10 PM	1550	0.0	OFF	1550	0	0.00	0	70.1	70.1	70.1
10-11 PM	1262	0.0	OFF	1262	0	0.00	0	70.2	70.2	70.2
11PM-MID	964	0.0	OFF	964	0	0.00	0	70.2	70.2	70.2

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0827
MAIN ROUTE WITH WORKS	0.0660
'DIVERSION'	0.0369

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$70,154
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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AUGUST

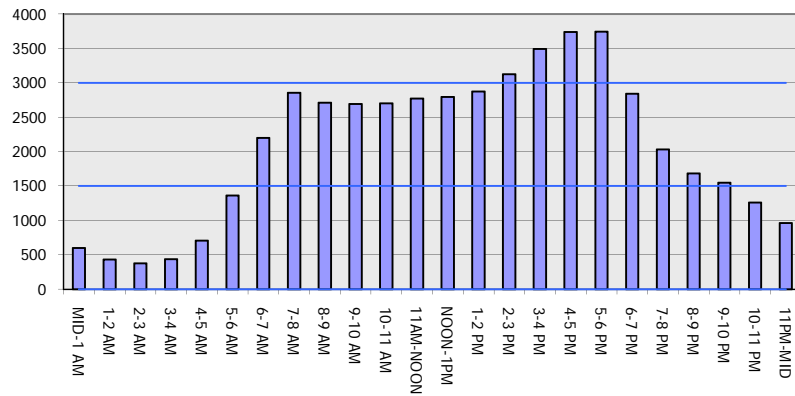
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

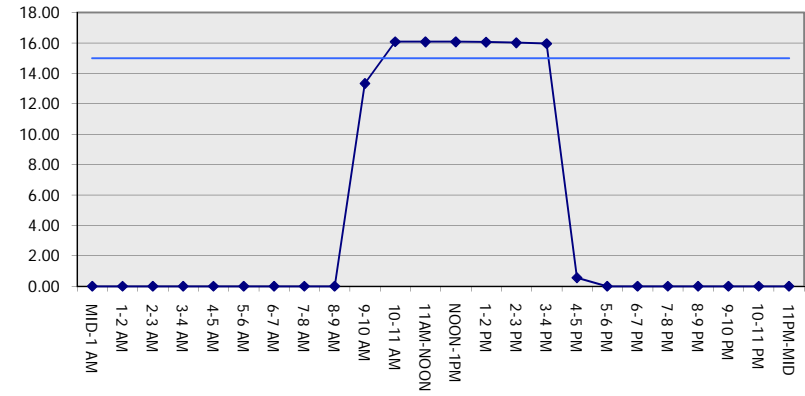
MON-THUR

EASTBOUND DIRECTION

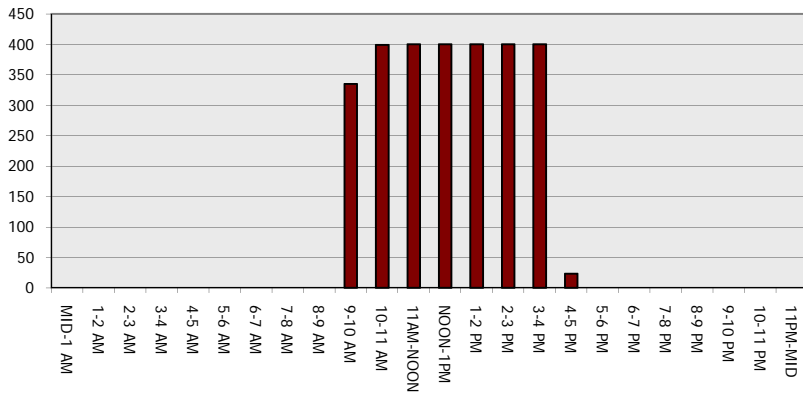
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

