

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

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	1500	581	0	0.44	0	70.2	66.9	46.6	
1-2 AM	450	0.0	1500	450	0	0.43	0	70.2	66.9	47.1	
2-3 AM	373	0.0	1500	373	0	0.42	0	70.2	67.0	47.5	
3-4 AM	416	0.0	1500	416	0	0.42	0	70.2	67.0	47.3	
4-5 AM	714	0.0	1500	714	0	0.46	0	70.2	66.8	46.0	
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	OFF	2576	0	0.00	0	68.8	68.8	68.8	
10-11 AM	2724	0.0	OFF	2724	0	0.00	0	68.7	68.7	68.7	
11AM-NOON	2816	0.0	OFF	2816	0	0.00	0	68.6	68.6	68.6	
NOON-1PM	2765	0.0	OFF	2765	0	0.00	0	68.6	68.6	68.6	
1-2 PM	2845	0.0	OFF	2845	0	0.00	0	68.5	68.5	68.5	
2-3 PM	3036	0.0	OFF	3036	0	0.00	0	68.2	68.2	68.2	
3-4 PM	3160	0.0	OFF	3160	0	0.00	0	68.1	68.1	68.1	
4-5 PM	3280	0.0	OFF	3280	0	0.00	0	67.9	67.9	67.9	
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	1499	1947	0	9.61+	251	69.6	33.6	32.5	
8-9 PM	1663	0.0	1499	1452	210	16.09+	395	70.0	25.0	32.5	
9-10 PM	1443	0.0	1500	1443	0	15.69+	384	70.2	25.4	32.5	
10-11 PM	1222	0.0	1499	1222	0	8.78	219	70.2	35.3	34.3	
11PM-MID	914	0.0	1500	914	0	0.62	4	70.2	65.6	45.1	

"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

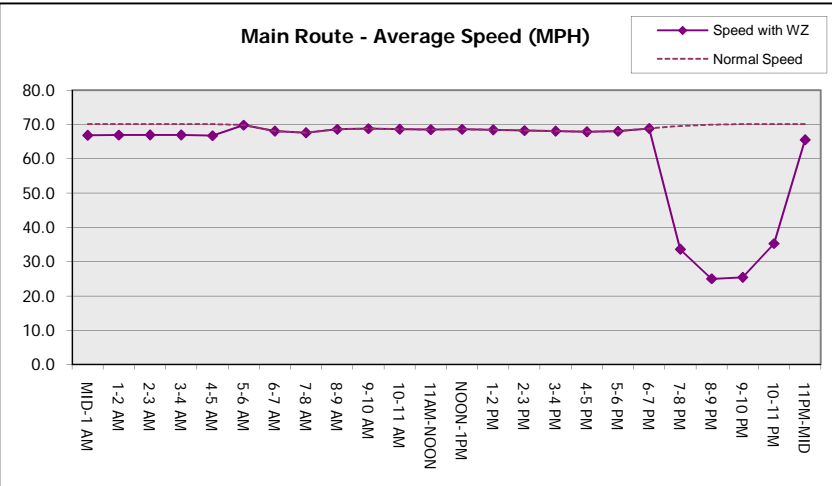
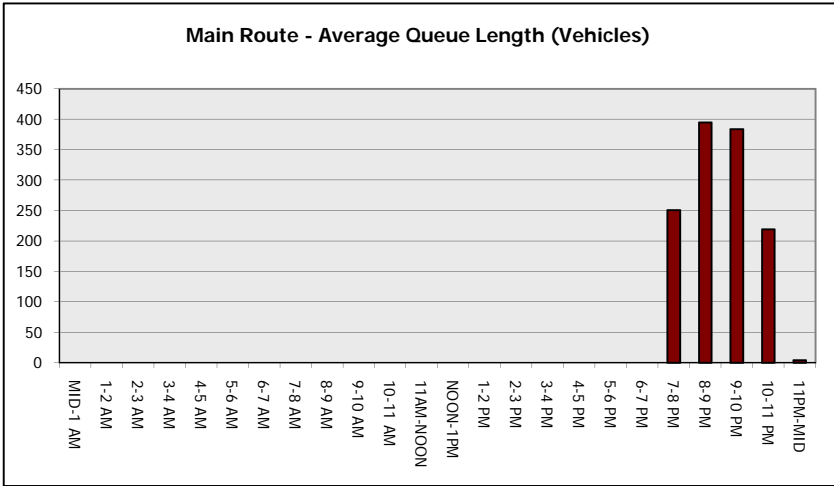
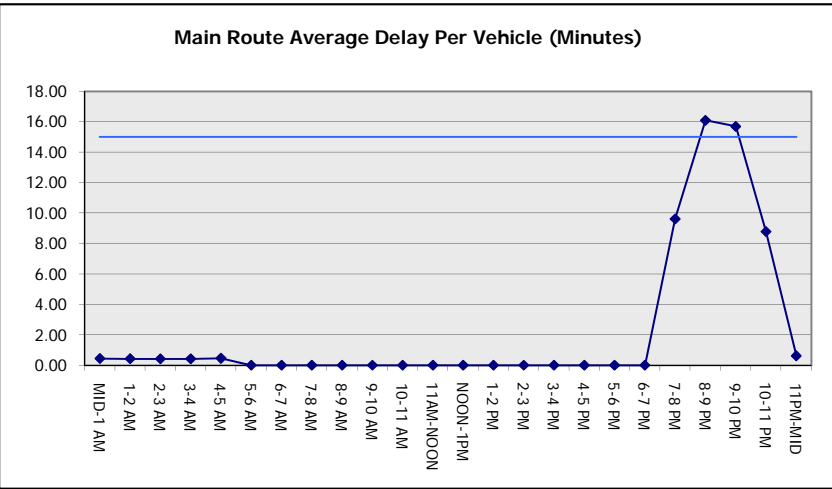
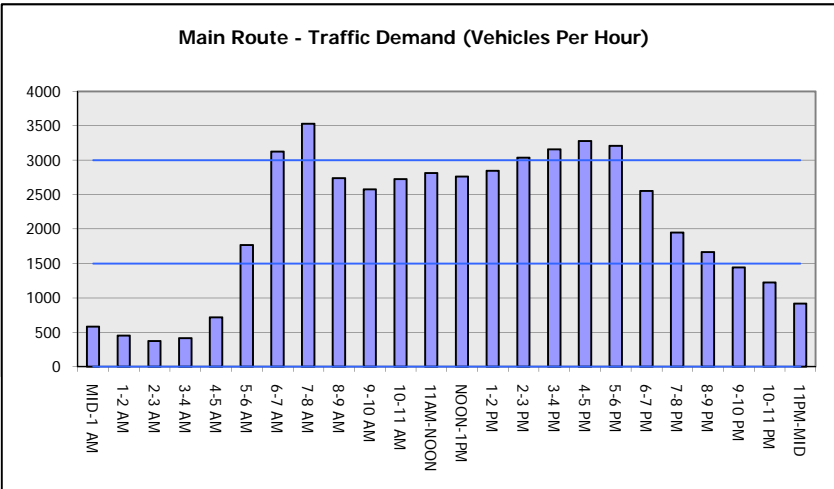
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0825
MAIN ROUTE WITH WORKS	0.0815
'DIVERSION'	0.0008
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$18,578
CONGESTED HOURS PER DAY*	3

*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	1500	602	0	0.44	0	70.2	66.8	46.5
1-2 AM	433	0.0	1500	433	0	0.42	0	70.2	67.0	47.2
2-3 AM	377	0.0	1500	377	0	0.42	0	70.2	67.0	47.4
3-4 AM	436	0.0	1500	436	0	0.42	0	70.2	67.0	47.2
4-5 AM	706	0.0	1500	706	0	0.46	0	70.2	66.8	46.0
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	OFF	2691	0	0.00	0	68.7	68.7	68.7
10-11 AM	2703	0.0	OFF	2703	0	0.00	0	68.7	68.7	68.7
11AM-NOON	2771	0.0	OFF	2771	0	0.00	0	68.6	68.6	68.6
NOON-1PM	2797	0.0	OFF	2797	0	0.00	0	68.6	68.6	68.6
1-2 PM	2873	0.0	OFF	2873	0	0.00	0	68.5	68.5	68.5
2-3 PM	3127	0.0	OFF	3127	0	0.00	0	68.1	68.1	68.1
3-4 PM	3495	0.0	OFF	3495	0	0.00	0	67.7	67.7	67.7
4-5 PM	3739	0.0	OFF	3739	0	0.00	0	66.6	66.6	66.6
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	1499	1875	156	10.80+	280	69.5	31.5	32.5
8-9 PM	1684	0.0	1499	1519	165	16.19+	397	69.9	24.8	32.5
9-10 PM	1550	0.0	1499	1499	51	16.17+	396	70.1	24.9	32.5
10-11 PM	1262	0.0	1499	1262	0	11.82	292	70.2	30.1	32.9
11PM-MID	964	0.0	1500	964	0	1.31	26	70.2	61.2	44.2

"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	0.0827
MAIN ROUTE WITH WORKS	0.0814
'DIVERSION'	0.0014

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$21,126
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

