

IH 94: CTH O TO STH 100 (WAUKESHA COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	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	487	0.0	1500	487	0	0.53	0	70.1	58.4	43.5	
1-2 AM	290	0.0	1500	290	0	0.51	0	70.2	58.9	44.4	
2-3 AM	272	0.0	1500	272	0	0.51	0	70.2	58.9	44.4	
3-4 AM	345	0.0	1500	345	0	0.51	0	70.2	58.7	44.1	
4-5 AM	713	0.0	1500	713	0	0.56	0	69.9	57.8	42.7	
5-6 AM	2019	0.0	OFF	2019	0	0.00	0	68.2	68.2	68.2	
6-7 AM	4050	0.0	OFF	4050	0	0.00	0	63.2	63.2	63.2	
7-8 AM	5016	0.0	OFF	5016	0	0.00	0	56.6	56.6	56.6	
8-9 AM	4828	0.0	OFF	4828	0	0.00	0	57.9	57.9	57.9	
9-10 AM	3654	0.0	OFF	3654	0	0.00	0	65.9	65.9	65.9	
10-11 AM	3495	0.0	OFF	3495	0	0.00	0	66.4	66.4	66.4	
11AM-NOON	3846	0.0	OFF	3846	0	0.00	0	64.6	64.6	64.6	
NOON-1PM	4152	0.0	OFF	4152	0	0.00	0	62.5	62.5	62.5	
1-2 PM	4292	0.0	OFF	4292	0	0.00	0	61.5	61.5	61.5	
2-3 PM	4876	0.0	OFF	4876	0	0.00	0	57.6	57.6	57.6	
3-4 PM	5766	0.0	OFF	5766	0	0.00	0	51.5	51.5	51.5	
4-5 PM	5664	0.0	OFF	5664	0	0.00	0	52.2	52.2	52.2	
5-6 PM	5454	0.0	OFF	5454	0	0.00	0	53.6	53.6	53.6	
6-7 PM	4386	0.0	OFF	4386	0	0.00	0	60.9	60.9	60.9	
7-8 PM	2910	0.0	1499	1550	1360	16.51+	412	67.1	9.6	36.6	
8-9 PM	2270	0.0	1499	1875	394	12.88+	329	67.9	11.9	31.2	
9-10 PM	2039	0.0	1499	1500	539	16.35+	399	68.2	9.7	30.8	
10-11 PM	1476	0.0	1499	1396	80	15.44+	376	68.9	10.2	30.8	
11PM-MID	1016	0.0	1499	1016	0	3.42	131	69.5	30.5	37.3	

"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	0.0362
MAIN ROUTE WITH WORKS	0.0344
'DIVERSION'	0.0027
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$31,801
CONGESTED HOURS PER DAY*	4

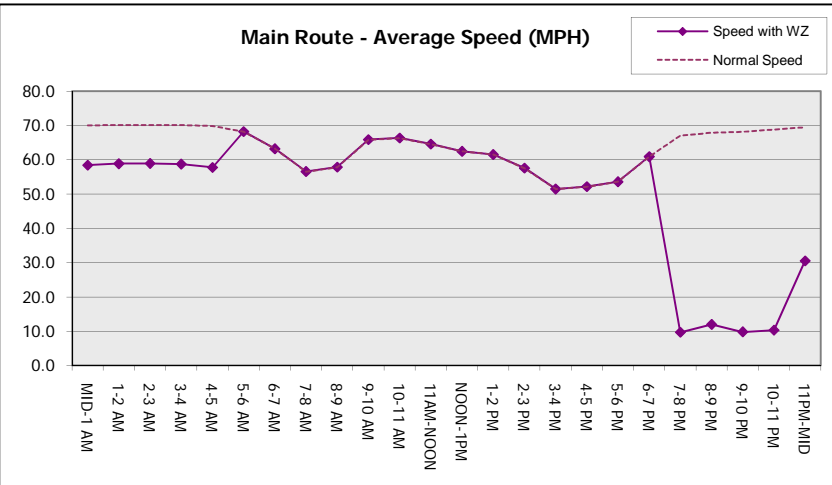
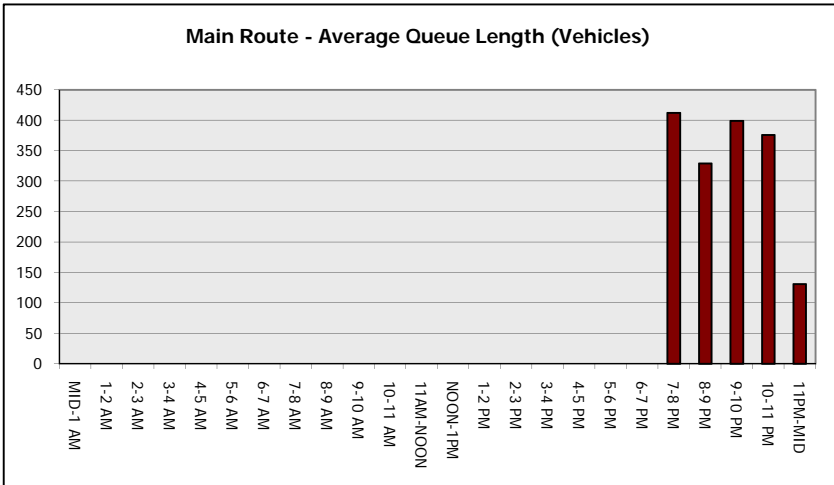
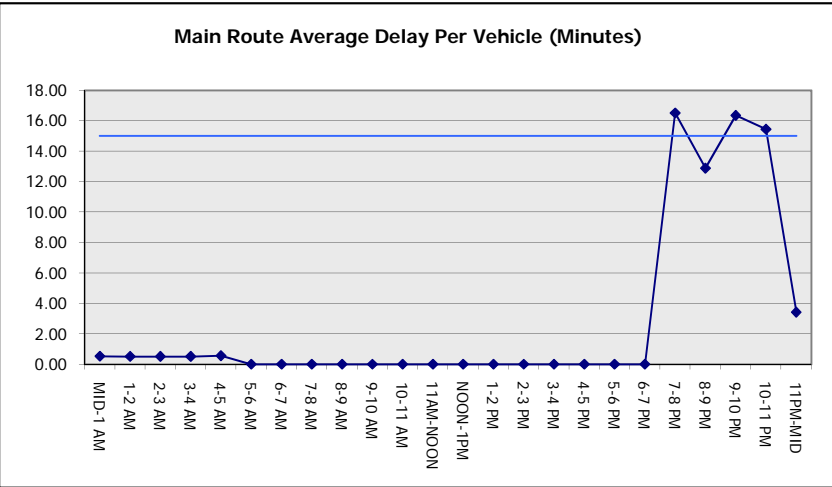
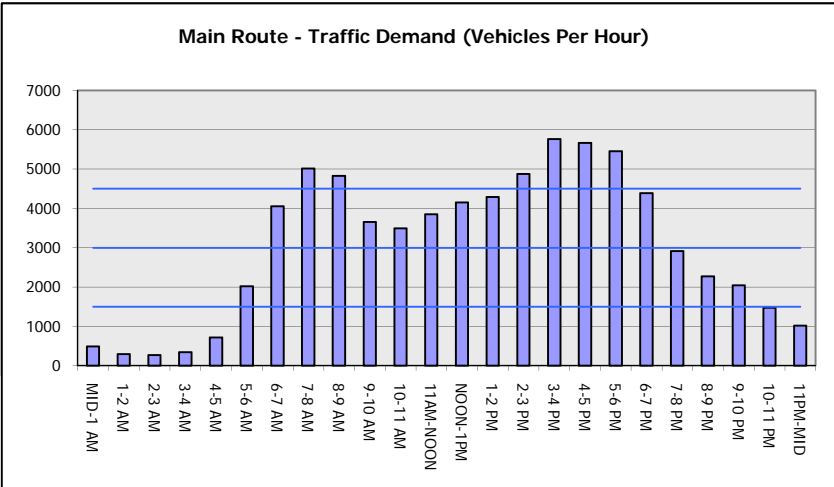
*Delays Exceeding User-Specified Maximum

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 NIGHTTIME 2 LANE CLOSURE
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

OCTOBER
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR WESTBOUND DIRECTION



IH 94: CTH 0 TO STH 100 (WAUKESHA COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
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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	481	0.0	1500	481	0	0.53	0	70.1	58.4	43.6
1-2 AM	302	0.0	1500	302	0	0.51	0	70.2	58.9	44.3
2-3 AM	257	0.0	1500	257	0	0.50	0	70.2	58.9	44.5
3-4 AM	320	0.0	1500	320	0	0.51	0	70.2	58.8	44.2
4-5 AM	614	0.0	1500	614	0	0.55	0	70.0	58.1	43.1
5-6 AM	2068	0.0	OFF	2068	0	0.00	0	68.2	68.2	68.2
6-7 AM	5066	0.0	OFF	5066	0	0.00	0	56.3	56.3	56.3
7-8 AM	5380	0.0	OFF	5380	0	0.00	0	54.1	54.1	54.1
8-9 AM	5059	0.0	OFF	5059	0	0.00	0	56.3	56.3	56.3
9-10 AM	4289	0.0	OFF	4289	0	0.00	0	61.5	61.5	61.5
10-11 AM	3809	0.0	OFF	3809	0	0.00	0	64.8	64.8	64.8
11AM-NOON	3964	0.0	OFF	3964	0	0.00	0	63.8	63.8	63.8
NOON-1PM	4151	0.0	OFF	4151	0	0.00	0	62.5	62.5	62.5
1-2 PM	4223	0.0	OFF	4223	0	0.00	0	62.0	62.0	62.0
2-3 PM	4849	0.0	OFF	4849	0	0.00	0	57.8	57.8	57.8
3-4 PM	5524	0.0	OFF	5524	0	0.00	0	53.1	53.1	53.1
4-5 PM	5528	0.0	OFF	5528	0	0.00	0	53.1	53.1	53.1
5-6 PM	5237	0.0	OFF	5237	0	0.00	0	55.1	55.1	55.1
6-7 PM	3902	0.0	OFF	3902	0	0.00	0	64.2	64.2	64.2
7-8 PM	2810	0.0	1499	1561	1249	15.34+	384	67.3	10.2	36.5
8-9 PM	2489	0.0	1499	1752	737	13.44+	347	67.6	11.5	34.7
9-10 PM	2309	0.0	1499	1527	782	16.19+	397	67.9	9.8	31.5
10-11 PM	1630	0.0	1500	1542	88	15.91+	388	68.7	10.0	30.8
11PM-MID	1059	0.0	1499	1059	0	5.73	200	69.4	22.1	36.0

"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	0.0372
MAIN ROUTE WITH WORKS	0.0351
'DIVERSION'	0.0033

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$33,870
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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OCTOBER

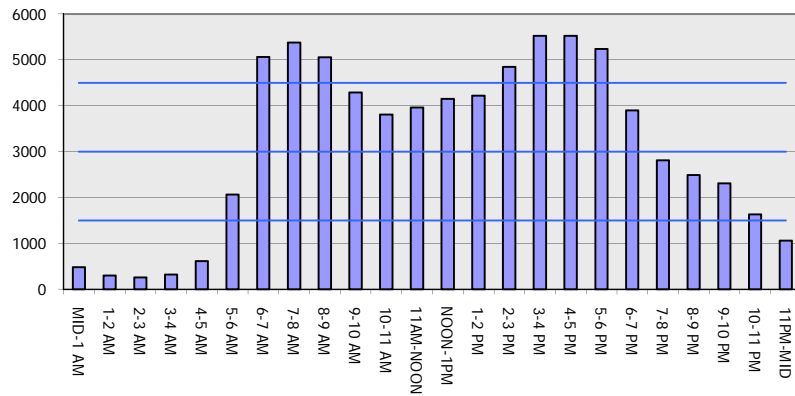
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

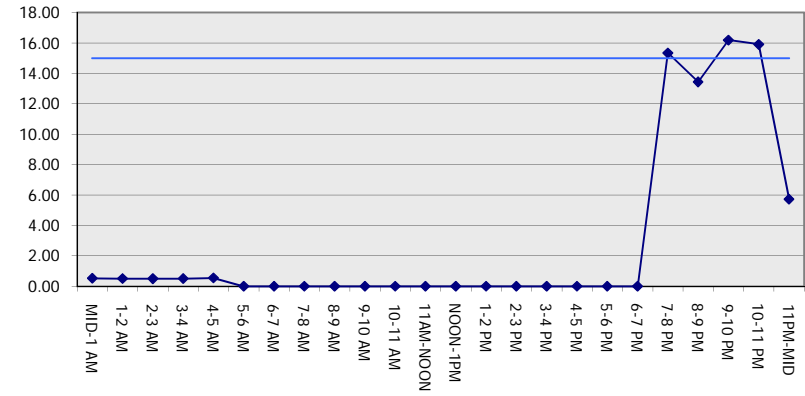
MON-THUR

EASTBOUND DIRECTION

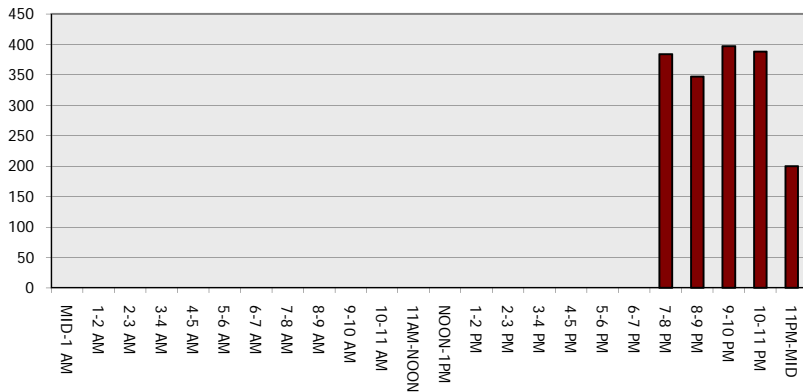
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

