

**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
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	355	0.0	1500	355	0	1.26	49	70.2	47.5	43.8	
1-2 AM	260	0.0	1500	260	0	0.50	0	70.2	58.9	44.5	
2-3 AM	302	0.0	1500	302	0	0.51	0	70.2	58.9	44.3	
3-4 AM	447	0.0	1500	447	0	0.53	0	70.2	58.5	43.7	
4-5 AM	829	0.0	1500	829	0	0.57	0	69.7	57.4	42.3	
5-6 AM	2169	0.0	OFF	2169	0	0.00	0	68.1	68.1	68.1	
6-7 AM	4576	0.0	OFF	4576	0	0.00	0	59.6	59.6	59.6	
7-8 AM	5783	0.0	OFF	5783	0	0.00	0	51.4	51.4	51.4	
8-9 AM	5099	0.0	OFF	5099	0	0.00	0	56.0	56.0	56.0	
9-10 AM	4134	0.0	OFF	4134	0	0.00	0	62.6	62.6	62.6	
10-11 AM	4297	0.0	OFF	4297	0	0.00	0	61.5	61.5	61.5	
11AM-NOON	4756	0.0	OFF	4756	0	0.00	0	58.4	58.4	58.4	
NOON-1PM	5042	0.0	OFF	5042	0	0.00	0	56.4	56.4	56.4	
1-2 PM	5324	0.0	OFF	5324	0	0.00	0	54.5	54.5	54.5	
2-3 PM	5857	0.0	OFF	5857	0	0.00	0	50.9	50.9	50.9	
3-4 PM	6185	0.0	OFF	6185	0	0.00	0	48.6	48.6	48.6	
4-5 PM	5612	0.0	OFF	5612	0	0.00	0	52.5	52.5	52.5	
5-6 PM	5356	0.0	OFF	5356	0	0.00	0	54.3	54.3	54.3	
6-7 PM	5292	0.0	OFF	5292	0	0.00	0	54.7	54.7	54.7	
7-8 PM	3550	0.0	1499	1550	2000	16.47+	412	66.3	9.6	36.6	
8-9 PM	2444	0.0	1499	1756	688	13.31+	343	67.7	11.6	34.6	
9-10 PM	2549	0.0	1499	1500	1049	16.21+	399	67.6	9.8	32.7	
10-11 PM	2173	0.0	1500	1539	634	16.18+	395	68.1	9.8	30.8	
11PM-MID	1580	0.0	1500	1466	114	15.14+	369	68.7	10.4	30.8	

"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	0.0414
MAIN ROUTE WITH WORKS	0.0386
'DIVERSION'	0.0051

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

ROAD USER COSTS PER DAY	\$45,192
CONGESTED HOURS PER DAY*	5

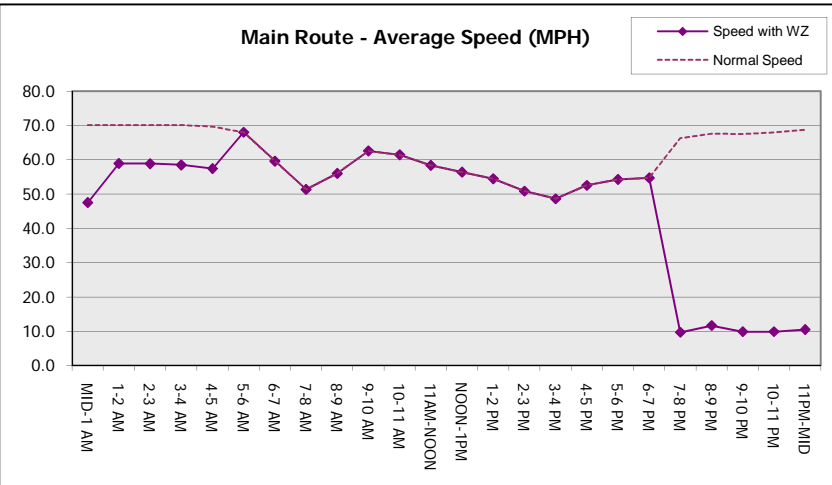
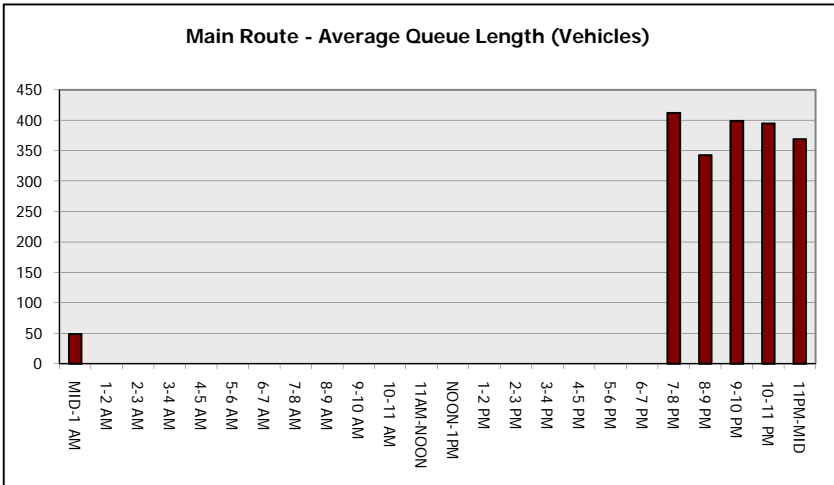
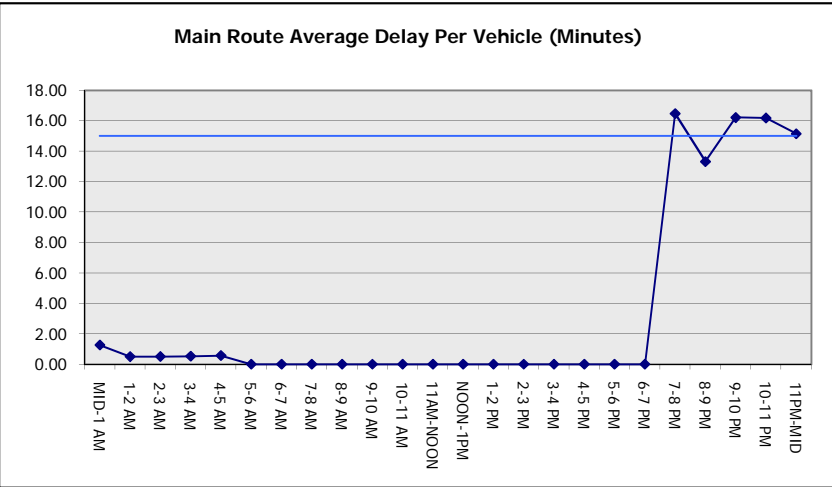
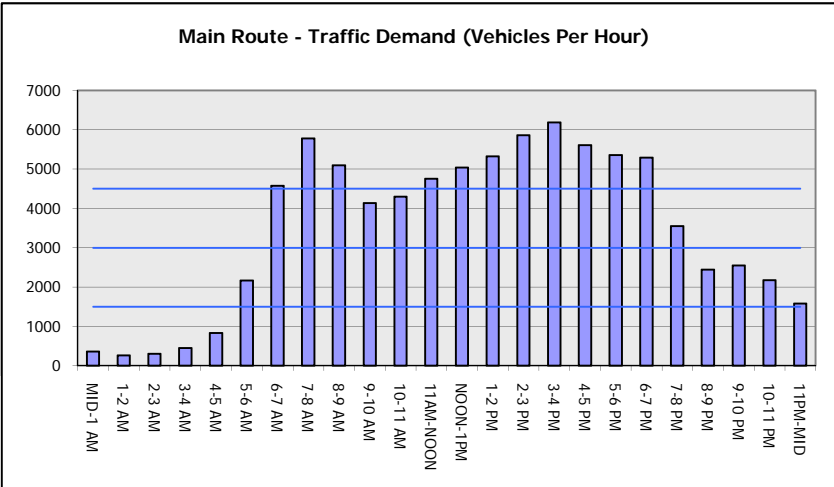
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY 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

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	312	0.0	1500	312	0	1.44	64	70.2	45.5	43.9	
1-2 AM	223	0.0	1500	223	0	0.50	0	70.2	59.1	44.6	
2-3 AM	264	0.0	1500	264	0	0.50	0	70.2	58.9	44.4	
3-4 AM	402	0.0	1500	402	0	0.52	0	70.2	58.6	43.9	
4-5 AM	711	0.0	1500	711	0	0.56	0	69.9	57.8	42.7	
5-6 AM	2226	0.0	OFF	2226	0	0.00	0	67.9	67.9	67.9	
6-7 AM	5331	0.0	OFF	5331	0	0.00	0	54.5	54.5	54.5	
7-8 AM	6102	0.0	OFF	6102	0	0.00	0	49.2	49.2	49.2	
8-9 AM	5154	0.0	OFF	5154	0	0.00	0	55.6	55.6	55.6	
9-10 AM	4412	0.0	OFF	4412	0	0.00	0	60.7	60.7	60.7	
10-11 AM	4082	0.0	OFF	4082	0	0.00	0	63.0	63.0	63.0	
11AM-NOON	4440	0.0	OFF	4440	0	0.00	0	60.5	60.5	60.5	
NOON-1PM	4689	0.0	OFF	4689	0	0.00	0	58.8	58.8	58.8	
1-2 PM	4845	0.0	OFF	4845	0	0.00	0	57.8	57.8	57.8	
2-3 PM	5593	0.0	OFF	5593	0	0.00	0	52.7	52.7	52.7	
3-4 PM	5942	0.0	OFF	5942	0	0.00	0	50.2	50.2	50.2	
4-5 PM	5705	0.0	OFF	5705	0	0.00	0	51.9	51.9	51.9	
5-6 PM	5445	0.0	OFF	5445	0	0.00	0	53.7	53.7	53.7	
6-7 PM	4751	0.0	OFF	4751	0	0.00	0	58.4	58.4	58.4	
7-8 PM	3729	0.0	1499	1550	2180	16.43+	412	65.4	9.6	36.6	
8-9 PM	2843	0.0	1499	1588	1255	14.30+	380	67.2	10.9	36.0	
9-10 PM	2872	0.0	1499	1824	1048	14.97+	376	67.2	10.5	32.5	
10-11 PM	2430	0.0	1499	1500	930	16.33+	399	67.7	9.7	30.8	
11PM-MID	1737	0.0	1499	1398	339	15.95+	389	68.6	9.9	30.8	

"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	0.0416
MAIN ROUTE WITH WORKS	0.0381
'DIVERSION'	0.0066

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$50,059
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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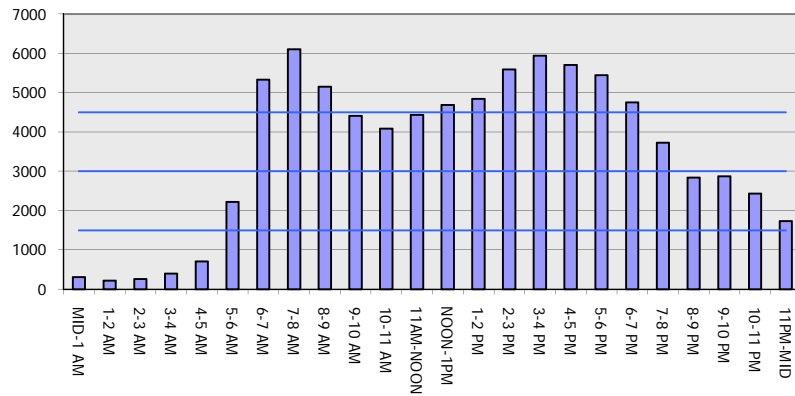
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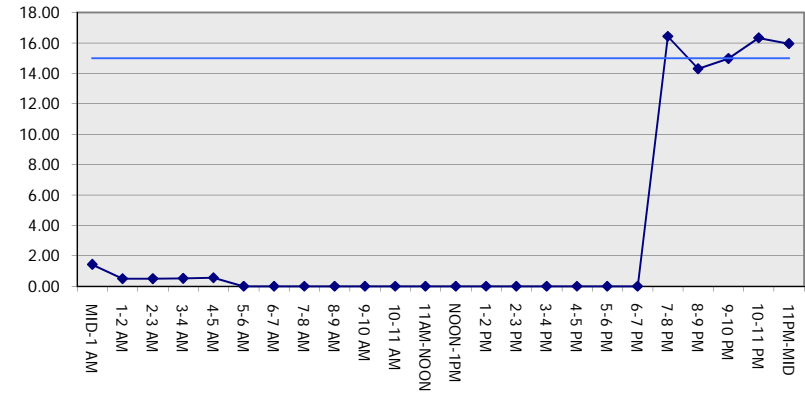
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY EASTBOUND DIRECTION

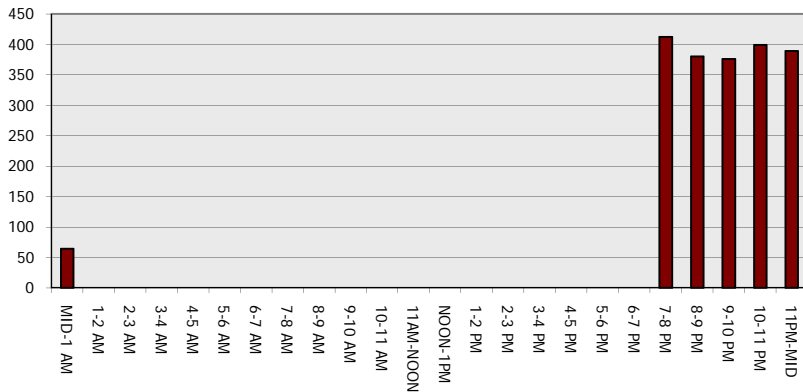
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

