

<b>IH 94: CTH O TO STH 100 (WAUKESHA COUNTY)                  NIGHTTIME 2 LANE CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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	990	0.0	1499	990	0	3.43	136	69.5	30.4	37.4
1-2 AM	600	0.0	1500	600	0	0.54	0	70.0	58.1	43.1
2-3 AM	589	0.0	1500	589	0	0.54	0	70.0	58.1	43.2
3-4 AM	451	0.0	1500	451	0	0.53	0	70.2	58.5	43.7
4-5 AM	568	0.0	1500	568	0	0.54	0	70.0	58.2	43.2
5-6 AM	1054	0.0	1499	1054	0	0.64	0	69.4	56.1	40.4
6-7 AM	1673	0.0	1499	1673	0	2.24	43	68.7	37.6	30.8
7-8 AM	2450	0.0	1500	1748	702	14.72+	370	67.7	10.6	32.9
8-9 AM	3320	0.0	OFF	3320	0	0.39	33	66.6	58.5	58.5
9-10 AM	3771	0.0	OFF	3771	0	0.00	0	65.1	65.1	65.1
10-11 AM	4077	0.0	OFF	4077	0	0.00	0	63.0	63.0	63.0
11AM-NOON	4492	0.0	OFF	4492	0	0.00	0	60.2	60.2	60.2
NOON-1PM	4750	0.0	OFF	4750	0	0.00	0	58.4	58.4	58.4
1-2 PM	4600	0.0	OFF	4600	0	0.00	0	59.4	59.4	59.4
2-3 PM	4471	0.0	OFF	4471	0	0.00	0	60.3	60.3	60.3
3-4 PM	4146	0.0	OFF	4146	0	0.00	0	62.5	62.5	62.5
4-5 PM	4154	0.0	OFF	4154	0	0.00	0	62.5	62.5	62.5
5-6 PM	3565	0.0	OFF	3565	0	0.00	0	66.3	66.3	66.3
6-7 PM	3621	0.0	1499	1550	2071	16.46+	412	66.1	9.6	36.6
7-8 PM	2652	0.0	1499	1573	1079	14.30+	380	67.4	10.9	36.1
8-9 PM	2311	0.0	1499	1728	583	13.96+	355	67.9	11.1	33.3
9-10 PM	2291	0.0	1499	1500	791	16.34+	399	67.9	9.7	30.8
10-11 PM	2494	0.0	1499	1500	994	16.33+	400	67.6	9.7	30.8
11PM-MID	1596	0.0	1500	1486	110	15.43+	376	68.7	10.2	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	0.0319
MAIN ROUTE WITH WORKS	0.0277
'DIVERSION'	0.0072
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$71,017
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding User-Specified Maximum

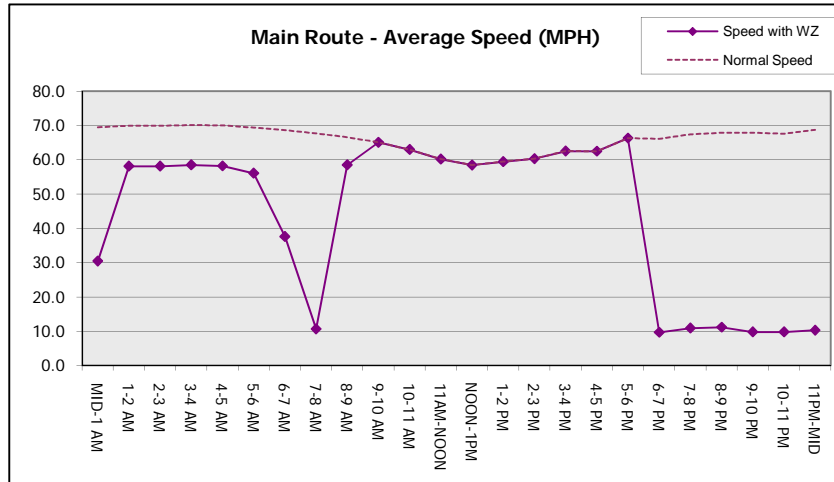
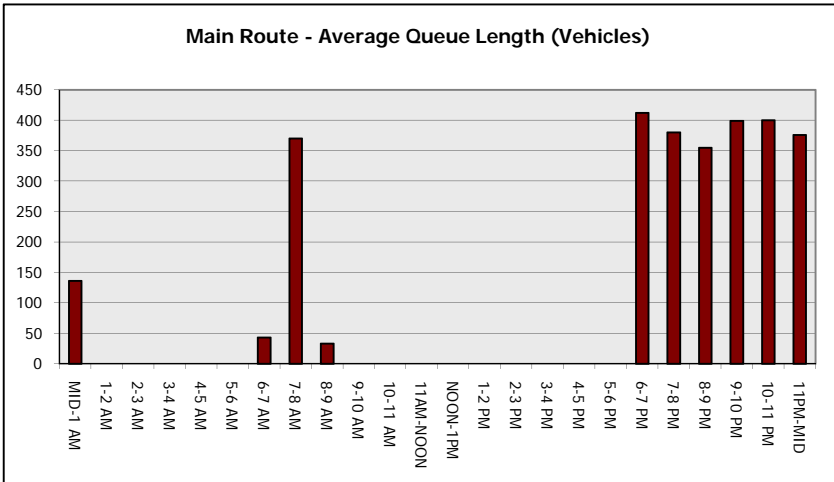
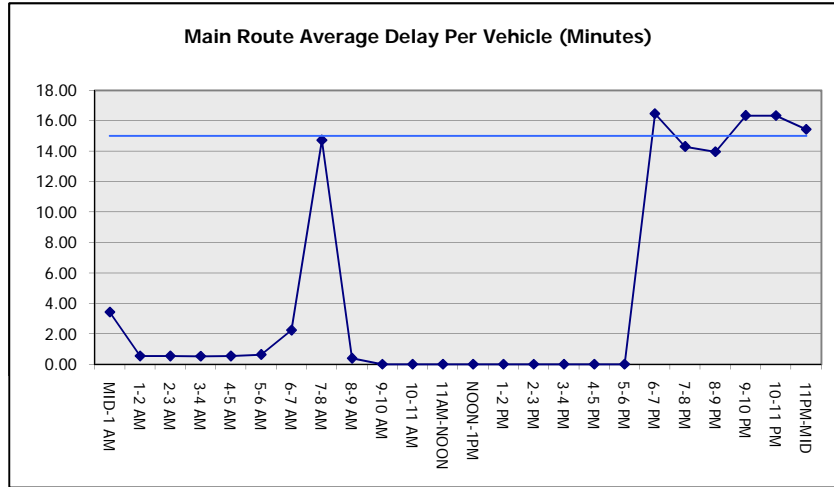
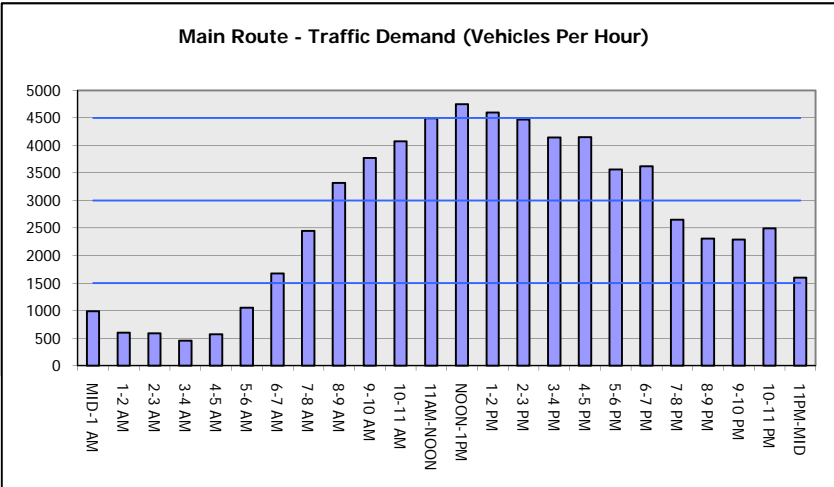
**IH 94: CTH O TO STH 100 (WAUKESHA COUNTY)  
 NIGHTTIME 2 LANE CLOSURE  
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SATURDAY WESTBOUND DIRECTION**



<b>IH 94: CTH 0 TO STH 100 (WAUKESHA COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b> Analyzed for 2009 Construction Season
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**SUMMARY OF TRAFFIC MODEL OUTPUT**  
SATURDAY 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	1057	0.0	1499	1057	0	6.79	226	69.4	19.6	35.8	
1-2 AM	530	0.0	1500	530	0	0.54	0	70.0	58.3	43.4	
2-3 AM	411	0.0	1500	411	0	0.52	0	70.2	58.6	43.8	
3-4 AM	276	0.0	1500	276	0	0.51	0	70.2	58.9	44.4	
4-5 AM	383	0.0	1500	383	0	0.52	0	70.2	58.7	44.0	
5-6 AM	874	0.0	1500	874	0	0.57	0	69.7	57.3	42.1	
6-7 AM	1437	0.0	1499	1437	0	1.25	8	68.9	47.1	33.1	
7-8 AM	1952	0.0	1500	1952	0	7.63	216	68.3	17.9	30.8	
8-9 AM	2898	0.0	OFF	2898	0	0.41	38	67.1	58.5	58.5	
9-10 AM	3342	0.0	OFF	3342	0	0.00	0	66.6	66.6	66.6	
10-11 AM	3600	0.0	OFF	3600	0	0.00	0	66.3	66.3	66.3	
11AM-NOON	4029	0.0	OFF	4029	0	0.00	0	63.3	63.3	63.3	
NOON-1PM	4355	0.0	OFF	4355	0	0.00	0	61.1	61.1	61.1	
1-2 PM	4277	0.0	OFF	4277	0	0.00	0	61.7	61.7	61.7	
2-3 PM	4387	0.0	OFF	4387	0	0.00	0	60.9	60.9	60.9	
3-4 PM	4352	0.0	OFF	4352	0	0.00	0	61.1	61.1	61.1	
4-5 PM	4482	0.0	OFF	4482	0	0.00	0	60.2	60.2	60.2	
5-6 PM	4752	0.0	OFF	4752	0	0.00	0	58.4	58.4	58.4	
6-7 PM	4382	0.0	1499	1550	2832	16.22+	412	60.9	9.6	36.6	
7-8 PM	3510	0.0	1499	1663	1847	14.37+	378	66.4	10.8	35.8	
8-9 PM	2652	0.0	1499	1699	953	15.67+	385	67.4	10.1	30.8	
9-10 PM	2837	0.0	1500	1500	1337	16.31+	400	67.2	9.7	30.8	
10-11 PM	2361	0.0	1500	1500	861	16.33+	400	67.8	9.7	30.8	
11PM-MID	1753	0.0	1500	1497	256	16.35+	399	68.6	9.7	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	0.0320
MAIN ROUTE WITH WORKS	0.0270
'DIVERSION'	0.0092

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$77,131
CONGESTED HOURS PER DAY*	6

\*Delays Exceeding User-Specified Maximum

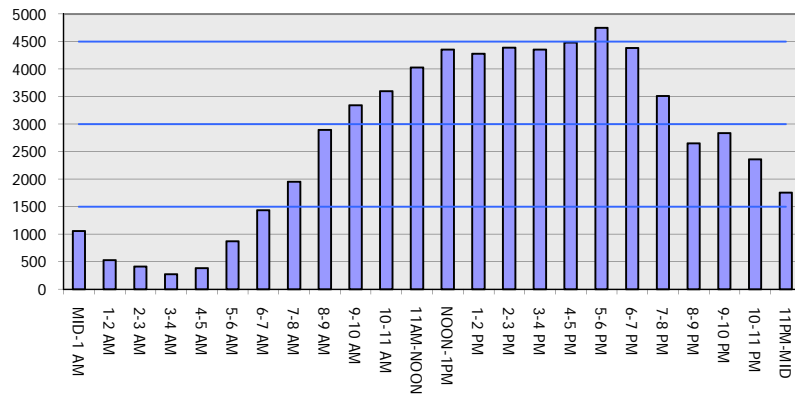
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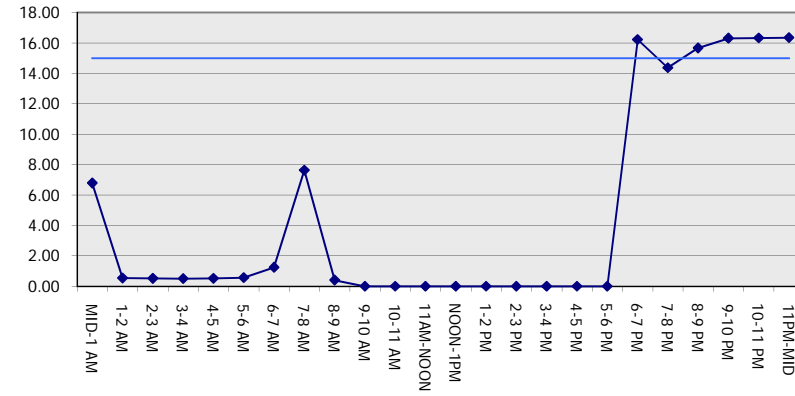
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY EASTBOUND DIRECTION**

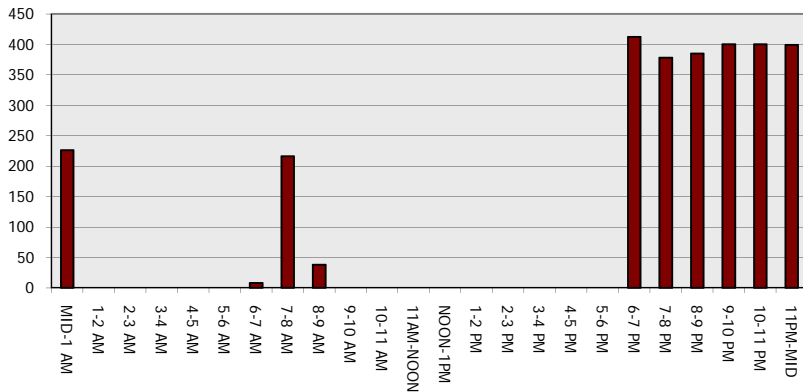
**Main Route - Traffic Demand (Vehicles Per Hour)**



**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**

