

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

**OCTOBER**  
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	OFF	990	0	0.00	0	69.5	69.5	69.5	
1-2 AM	600	0.0	OFF	600	0	0.00	0	70.0	70.0	70.0	
2-3 AM	589	0.0	OFF	589	0	0.00	0	70.0	70.0	70.0	
3-4 AM	451	0.0	OFF	451	0	0.00	0	70.2	70.2	70.2	
4-5 AM	568	0.0	OFF	568	0	0.00	0	70.0	70.0	70.0	
5-6 AM	1054	0.0	OFF	1054	0	0.00	0	69.4	69.4	69.4	
6-7 AM	1673	0.0	OFF	1673	0	0.00	0	68.7	68.7	68.7	
7-8 AM	2450	0.0	OFF	2450	0	0.00	0	67.7	67.7	67.7	
8-9 AM	3320	0.0	1499	1550	1770	16.48+	412	66.6	9.6	36.6	
9-10 AM	3771	0.0	1499	1687	2084	14.38+	378	65.1	10.8	35.8	
10-11 AM	4077	0.0	1499	1500	2578	15.77+	399	63.0	9.9	38.0	
11AM-NOON	4492	0.0	1500	1500	2992	15.63+	400	60.2	9.9	38.0	
NOON-1PM	4750	0.0	1500	1500	3250	15.54+	400	58.4	9.9	38.0	
1-2 PM	4600	0.0	1500	1500	3100	15.59+	400	59.4	9.9	38.0	
2-3 PM	4471	0.0	1500	1500	2971	15.64+	400	60.3	9.9	38.0	
3-4 PM	4146	0.0	1500	1500	2646	15.75+	400	62.5	9.9	38.0	
4-5 PM	4154	0.0	1500	1500	2654	15.75+	400	62.5	9.9	38.0	
5-6 PM	3565	0.0	1500	1510	2054	15.91+	399	66.3	9.9	37.4	
6-7 PM	3621	0.0	OFF	3621	0	0.20	12	66.1	61.7	61.7	
7-8 PM	2652	0.0	OFF	2652	0	0.00	0	67.4	67.4	67.4	
8-9 PM	2311	0.0	OFF	2311	0	0.00	0	67.9	67.9	67.9	
9-10 PM	2291	0.0	OFF	2291	0	0.00	0	67.9	67.9	67.9	
10-11 PM	2494	0.0	OFF	2494	0	0.00	0	67.6	67.6	67.6	
11PM-MID	1596	0.0	OFF	1596	0	0.00	0	68.7	68.7	68.7	

"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	0.0180
'DIVERSION'	0.0298
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$176,251
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

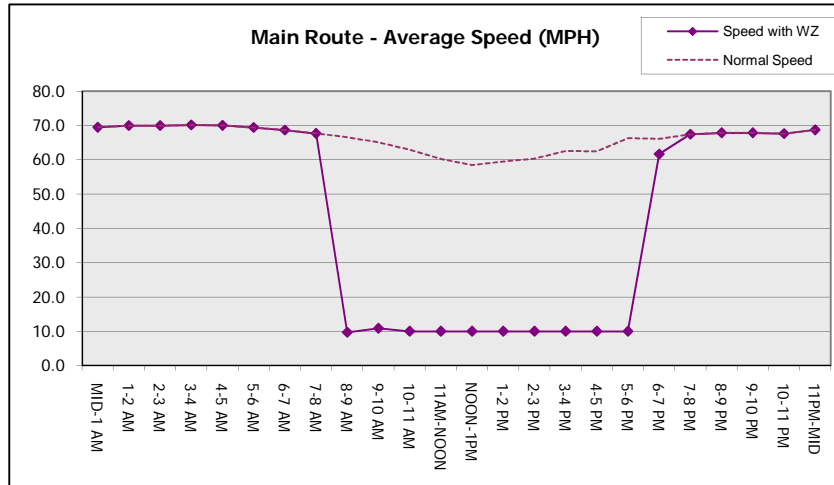
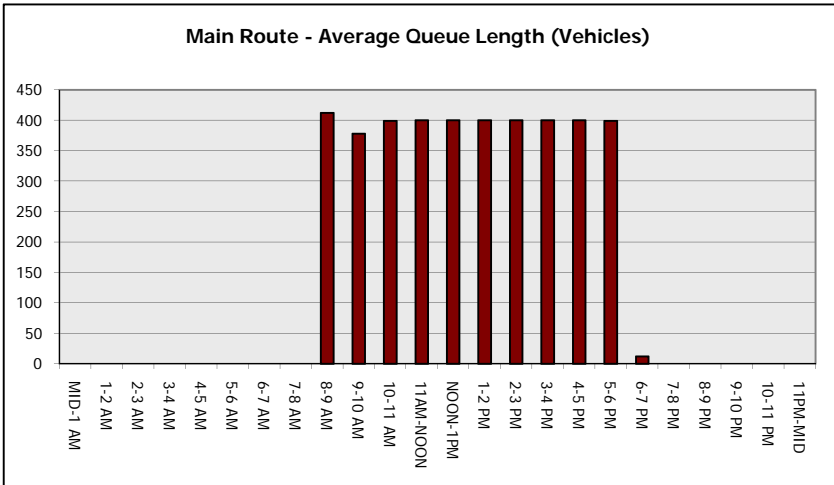
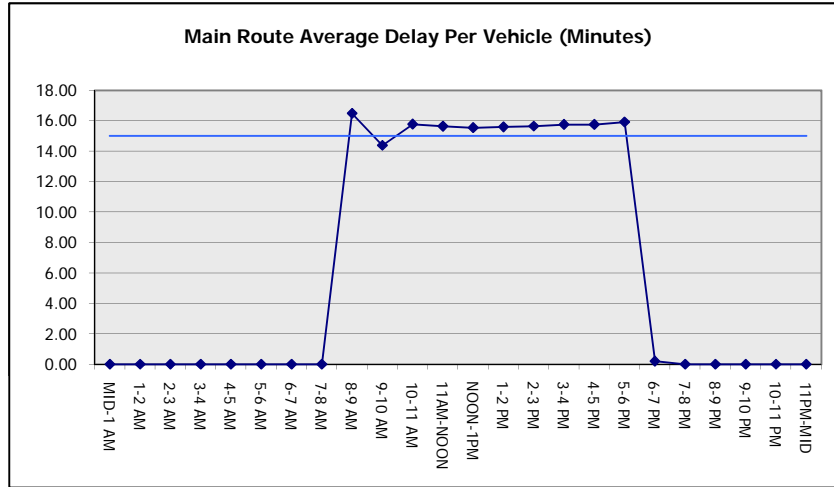
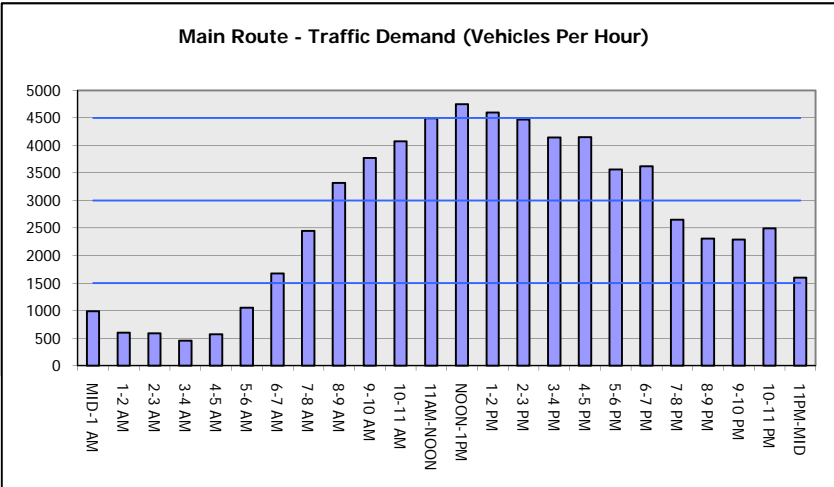
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**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

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

**SATURDAY WESTBOUND DIRECTION**



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

**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	OFF	1057	0	0.00	0	69.4	69.4	69.4	
1-2 AM	530	0.0	OFF	530	0	0.00	0	70.0	70.0	70.0	
2-3 AM	411	0.0	OFF	411	0	0.00	0	70.2	70.2	70.2	
3-4 AM	276	0.0	OFF	276	0	0.00	0	70.2	70.2	70.2	
4-5 AM	383	0.0	OFF	383	0	0.00	0	70.2	70.2	70.2	
5-6 AM	874	0.0	OFF	874	0	0.00	0	69.7	69.7	69.7	
6-7 AM	1437	0.0	OFF	1437	0	0.00	0	68.9	68.9	68.9	
7-8 AM	1952	0.0	OFF	1952	0	0.00	0	68.3	68.3	68.3	
8-9 AM	2898	0.0	1499	1833	1065	13.64+	340	67.1	11.3	35.1	
9-10 AM	3342	0.0	1499	1500	1842	16.27+	399	66.6	9.7	31.0	
10-11 AM	3600	0.0	1500	1500	2100	16.26+	400	66.3	9.7	31.0	
11AM-NOON	4029	0.0	1500	1500	2529	16.13+	400	63.3	9.7	31.0	
NOON-1PM	4355	0.0	1500	1500	2855	16.02+	400	61.1	9.7	31.0	
1-2 PM	4277	0.0	1500	1500	2777	16.05+	400	61.7	9.7	31.0	
2-3 PM	4387	0.0	1500	1500	2887	16.01+	400	60.9	9.7	31.0	
3-4 PM	4352	0.0	1500	1500	2852	16.02+	400	61.1	9.7	31.0	
4-5 PM	4482	0.0	1500	1500	2982	15.98+	400	60.2	9.7	31.0	
5-6 PM	4752	0.0	1500	1500	3252	15.88+	400	58.4	9.7	31.0	
6-7 PM	4382	0.0	OFF	4382	0	0.46	34	60.9	52.9	52.9	
7-8 PM	3510	0.0	OFF	3510	0	0.00	0	66.4	66.4	66.4	
8-9 PM	2652	0.0	OFF	2652	0	0.00	0	67.4	67.4	67.4	
9-10 PM	2837	0.0	OFF	2837	0	0.00	0	67.2	67.2	67.2	
10-11 PM	2361	0.0	OFF	2361	0	0.00	0	67.8	67.8	67.8	
11PM-MID	1753	0.0	OFF	1753	0	0.00	0	68.6	68.6	68.6	

"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	0.0186
'DIVERSION'	0.0287

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$175,659
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

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**OCTOBER**

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 Construction Season

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

