

IH 94: CTH O TO STH 100 (WAUKESHA COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	509	0.0	1500	509	0	0.53	0	70.1	58.4	43.5	
1-2 AM	327	0.0	1500	327	0	0.51	0	70.2	58.8	44.2	
2-3 AM	317	0.0	1500	317	0	0.51	0	70.2	58.8	44.2	
3-4 AM	377	0.0	1500	377	0	0.52	0	70.2	58.7	44.0	
4-5 AM	689	0.0	1500	689	0	0.55	0	69.9	57.9	42.8	
5-6 AM	1965	0.0	OFF	1965	0	0.00	0	68.3	68.3	68.3	
6-7 AM	4580	0.0	OFF	4580	0	0.00	0	59.6	59.6	59.6	
7-8 AM	5493	0.0	OFF	5493	0	0.00	0	53.3	53.3	53.3	
8-9 AM	4732	0.0	OFF	4732	0	0.00	0	58.5	58.5	58.5	
9-10 AM	3207	0.0	OFF	3207	0	0.00	0	66.8	66.8	66.8	
10-11 AM	3024	0.0	OFF	3024	0	0.00	0	67.0	67.0	67.0	
11AM-NOON	3329	0.0	OFF	3329	0	0.00	0	66.6	66.6	66.6	
NOON-1PM	3740	0.0	OFF	3740	0	0.00	0	65.3	65.3	65.3	
1-2 PM	4077	0.0	OFF	4077	0	0.00	0	63.0	63.0	63.0	
2-3 PM	4308	0.0	OFF	4308	0	0.00	0	61.4	61.4	61.4	
3-4 PM	4596	0.0	OFF	4596	0	0.00	0	59.4	59.4	59.4	
4-5 PM	5131	0.0	OFF	5131	0	0.00	0	55.8	55.8	55.8	
5-6 PM	4720	0.0	OFF	4720	0	0.00	0	58.6	58.6	58.6	
6-7 PM	3746	0.0	OFF	3746	0	0.00	0	65.3	65.3	65.3	
7-8 PM	2639	0.0	1499	1656	983	14.16+	359	67.4	11.0	35.8	
8-9 PM	1919	0.0	1499	1756	163	13.64+	341	68.4	11.4	30.8	
9-10 PM	1899	0.0	1500	1500	399	16.36+	400	68.4	9.7	30.8	
10-11 PM	1506	0.0	1500	1443	63	16.05+	391	68.9	9.9	30.8	
11PM-MID	946	0.0	1499	946	0	3.34	138	69.6	30.9	37.9	

"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	0.0334
MAIN ROUTE WITH WORKS	0.0320
'DIVERSION'	0.0018
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$28,399
CONGESTED HOURS PER DAY*	4

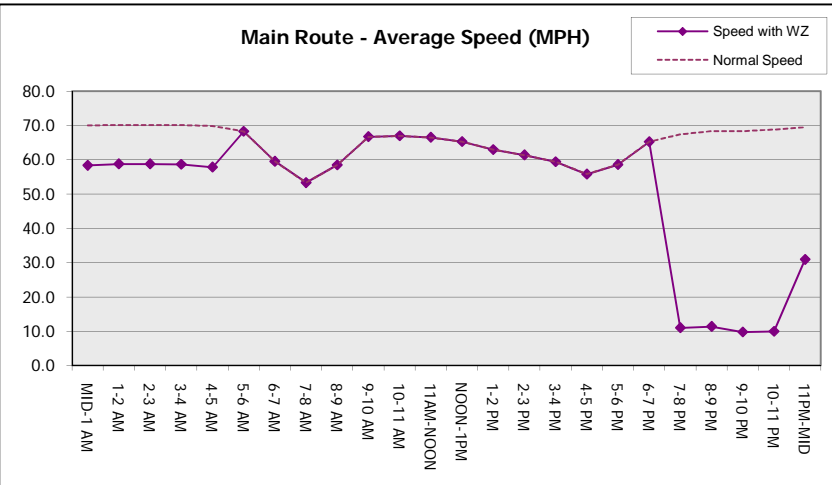
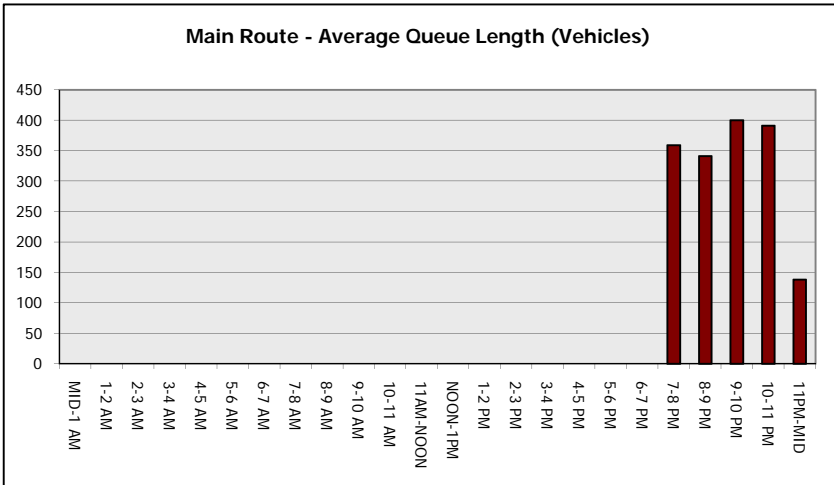
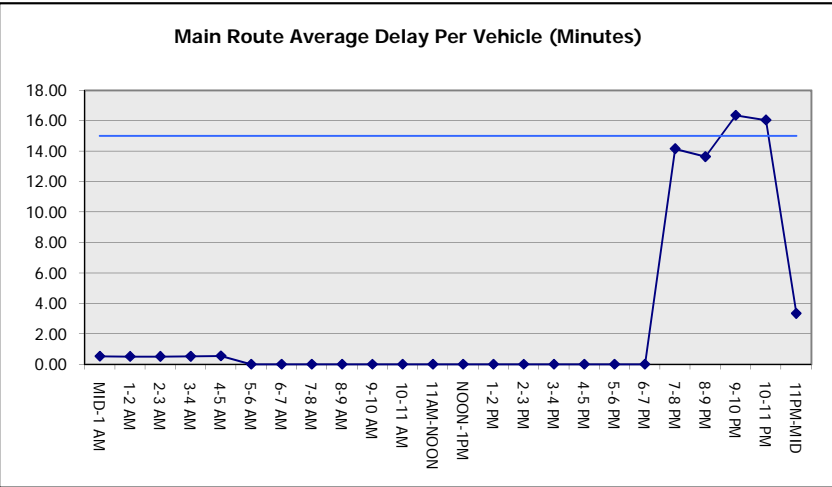
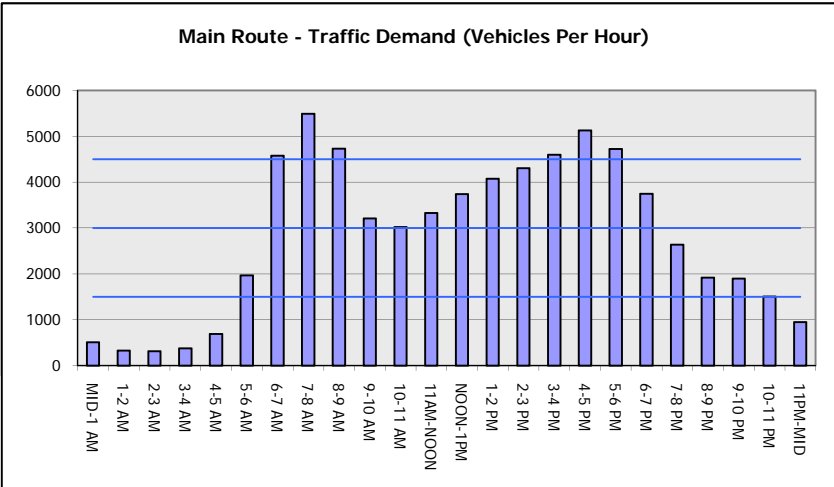
*Delays Exceeding User-Specified Maximum

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NIGHTTIME 2 LANE CLOSURE
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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)	MAY
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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	482	0.0	1500	482	0	0.53	0	70.1	58.4	43.6
1-2 AM	283	0.0	1500	283	0	0.51	0	70.2	58.9	44.3
2-3 AM	261	0.0	1500	261	0	0.50	0	70.2	58.9	44.5
3-4 AM	305	0.0	1500	305	0	0.51	0	70.2	58.9	44.3
4-5 AM	615	0.0	1500	615	0	0.55	0	70.0	58.1	43.1
5-6 AM	1941	0.0	OFF	1941	0	0.00	0	68.3	68.3	68.3
6-7 AM	5206	0.0	OFF	5206	0	0.00	0	55.3	55.3	55.3
7-8 AM	5717	0.0	OFF	5717	0	0.00	0	51.8	51.8	51.8
8-9 AM	4806	0.0	OFF	4806	0	0.00	0	58.0	58.0	58.0
9-10 AM	3498	0.0	OFF	3498	0	0.00	0	66.4	66.4	66.4
10-11 AM	3219	0.0	OFF	3219	0	0.00	0	66.8	66.8	66.8
11AM-NOON	3340	0.0	OFF	3340	0	0.00	0	66.6	66.6	66.6
NOON-1PM	3557	0.0	OFF	3557	0	0.00	0	66.3	66.3	66.3
1-2 PM	3870	0.0	OFF	3870	0	0.00	0	64.4	64.4	64.4
2-3 PM	4053	0.0	OFF	4053	0	0.00	0	63.2	63.2	63.2
3-4 PM	4283	0.0	OFF	4283	0	0.00	0	61.6	61.6	61.6
4-5 PM	4773	0.0	OFF	4773	0	0.00	0	58.2	58.2	58.2
5-6 PM	4446	0.0	OFF	4446	0	0.00	0	60.5	60.5	60.5
6-7 PM	3454	0.0	OFF	3454	0	0.00	0	66.4	66.4	66.4
7-8 PM	2589	0.0	1499	1750	839	13.60+	341	67.5	11.4	35.3
8-9 PM	2141	0.0	1499	1683	458	15.66+	384	68.1	10.1	30.8
9-10 PM	2045	0.0	1500	1500	545	16.35+	400	68.2	9.7	30.8
10-11 PM	1456	0.0	1499	1366	90	15.01+	366	68.9	10.5	30.8
11PM-MID	999	0.0	1499	999	0	2.90	111	69.5	33.3	37.8

"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	0.0332
MAIN ROUTE WITH WORKS	0.0317
'DIVERSION'	0.0022

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$29,514
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR EASTBOUND DIRECTION

