

IH 94: CTH G TO STH 16 (WAUKESHA COUNTY) OFF-PEAK DAY 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	260	0.0	OFF	260	0	0.00	0	70.2	70.2	70.2	
1-2 AM	194	0.0	OFF	194	0	0.00	0	70.2	70.2	70.2	
2-3 AM	153	0.0	OFF	153	0	0.00	0	70.2	70.2	70.2	
3-4 AM	191	0.0	OFF	191	0	0.00	0	70.2	70.2	70.2	
4-5 AM	324	0.0	OFF	324	0	0.00	0	70.2	70.2	70.2	
5-6 AM	747	0.0	OFF	747	0	0.00	0	69.8	69.8	69.8	
6-7 AM	1690	0.0	OFF	1690	0	0.00	0	68.6	68.6	68.6	
7-8 AM	2403	0.0	OFF	2403	0	0.00	0	67.8	67.8	67.8	
8-9 AM	2252	0.0	OFF	2252	0	0.00	0	67.9	67.9	67.9	
9-10 AM	1918	0.0	1499	1918	0	8.22	220	68.4	20.1	30.8	
10-11 AM	1890	0.0	1499	1500	390	16.35+	399	68.4	11.9	30.8	
11AM-NOON	1998	0.0	1500	1500	498	16.35+	400	68.2	11.9	30.8	
NOON-1PM	2159	0.0	1500	1500	659	16.34+	400	68.1	11.9	30.8	
1-2 PM	2102	0.0	1500	1500	602	16.34+	400	68.1	11.9	30.8	
2-3 PM	2533	0.0	1500	1500	1033	16.31+	400	67.6	11.9	30.8	
3-4 PM	3262	0.0	1500	1500	1762	16.27+	400	66.7	11.9	30.8	
4-5 PM	3756	0.0	OFF	3756	0	0.55	38	65.2	56.5	56.5	
5-6 PM	3708	0.0	OFF	3708	0	0.00	0	65.5	65.5	65.5	
6-7 PM	2431	0.0	OFF	2431	0	0.00	0	67.7	67.7	67.7	
7-8 PM	1558	0.0	OFF	1558	0	0.00	0	68.8	68.8	68.8	
8-9 PM	1343	0.0	OFF	1343	0	0.00	0	69.1	69.1	69.1	
9-10 PM	1091	0.0	OFF	1091	0	0.00	0	69.4	69.4	69.4	
10-11 PM	690	0.0	OFF	690	0	0.00	0	69.9	69.9	69.9	
11PM-MID	553	0.0	OFF	553	0	0.00	0	70.0	70.0	70.0	

"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

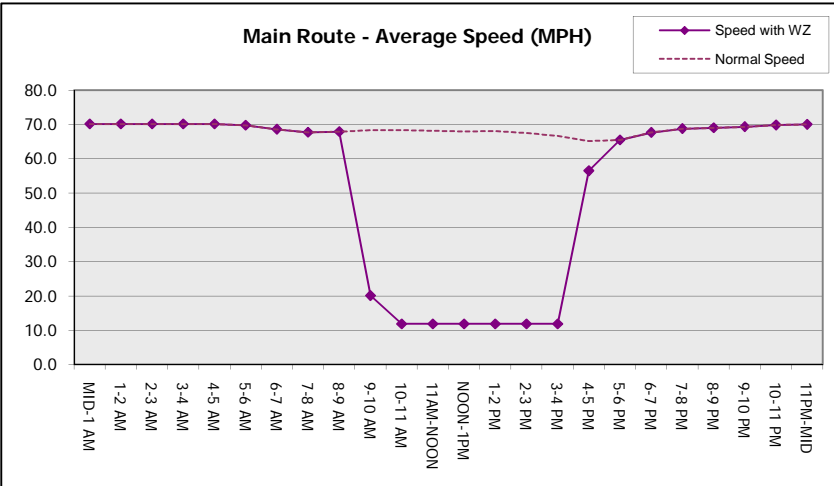
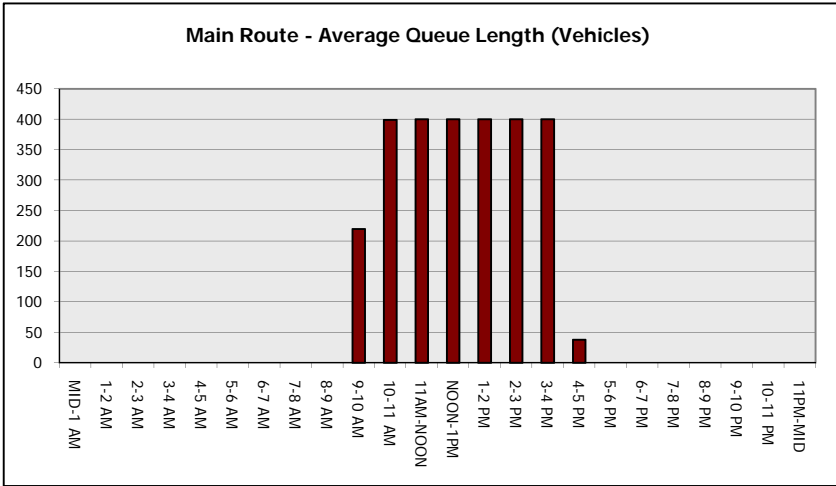
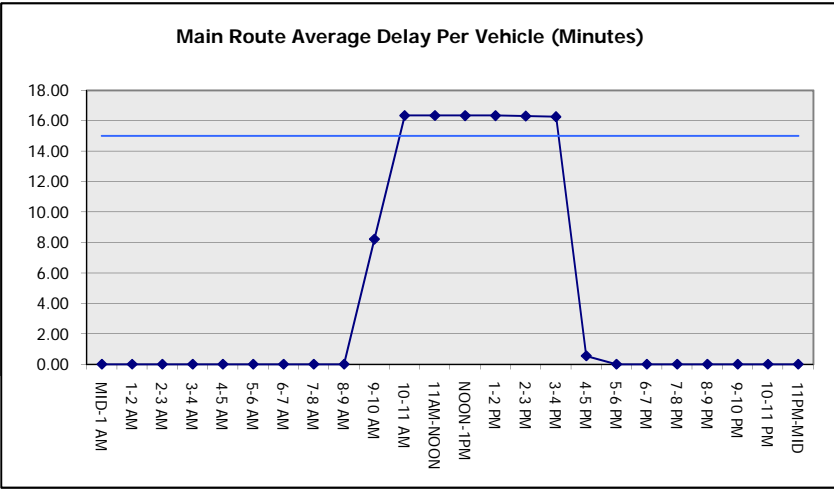
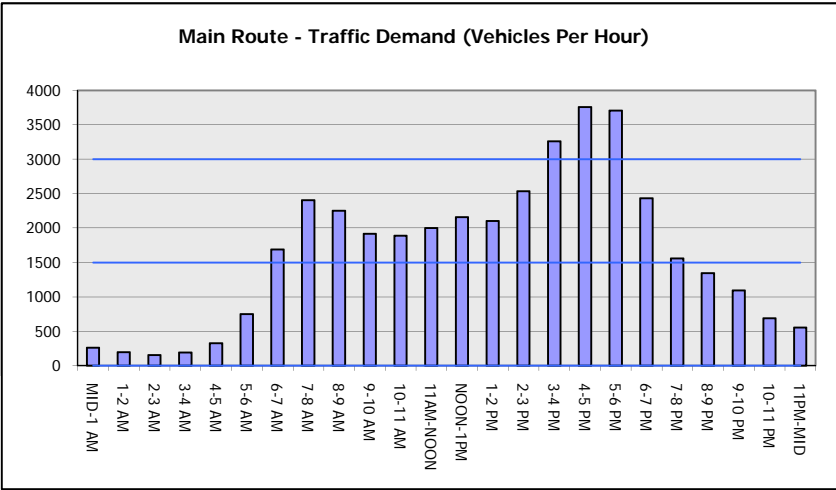
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0243
MAIN ROUTE WITH WORKS	0.0206
'DIVERSION'	0.0071
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$54,172
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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



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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	212	0.0	OFF	212	0	0.00	0	70.2	70.2	70.2
1-2 AM	172	0.0	OFF	172	0	0.00	0	70.2	70.2	70.2
2-3 AM	184	0.0	OFF	184	0	0.00	0	70.2	70.2	70.2
3-4 AM	198	0.0	OFF	198	0	0.00	0	70.2	70.2	70.2
4-5 AM	424	0.0	OFF	424	0	0.00	0	70.2	70.2	70.2
5-6 AM	1330	0.0	OFF	1330	0	0.00	0	69.1	69.1	69.1
6-7 AM	2919	0.0	OFF	2919	0	0.00	0	67.1	67.1	67.1
7-8 AM	3967	0.0	OFF	3967	0	0.00	0	63.8	63.8	63.8
8-9 AM	2998	0.0	OFF	2998	0	0.00	0	67.0	67.0	67.0
9-10 AM	2123	0.0	1499	1880	243	11.32+	295	68.1	15.8	30.8
10-11 AM	1899	0.0	1500	1500	399	16.35+	400	68.4	11.9	30.8
11AM-NOON	1864	0.0	1500	1500	364	16.35+	400	68.4	11.9	30.8
NOON-1PM	1880	0.0	1500	1500	380	16.35+	400	68.4	11.9	30.8
1-2 PM	2011	0.0	1500	1500	511	16.35+	400	68.2	11.9	30.8
2-3 PM	2195	0.0	1500	1500	695	16.33+	400	68.0	11.9	30.8
3-4 PM	2430	0.0	1500	1500	930	16.32+	400	67.7	11.9	30.8
4-5 PM	2497	0.0	OFF	2497	0	0.23	20	67.6	63.4	63.4
5-6 PM	2617	0.0	OFF	2617	0	0.00	0	67.5	67.5	67.5
6-7 PM	1794	0.0	OFF	1794	0	0.00	0	68.5	68.5	68.5
7-8 PM	1286	0.0	OFF	1286	0	0.00	0	69.1	69.1	69.1
8-9 PM	1082	0.0	OFF	1082	0	0.00	0	69.4	69.4	69.4
9-10 PM	938	0.0	OFF	938	0	0.00	0	69.6	69.6	69.6
10-11 PM	654	0.0	OFF	654	0	0.00	0	69.9	69.9	69.9
11PM-MID	404	0.0	OFF	404	0	0.00	0	70.2	70.2	70.2

"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	0.0236
MAIN ROUTE WITH WORKS	0.0207
'DIVERSION'	0.0051

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$49,722
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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