

IH 94: USH 18 TO CTH O (WAUKESHA COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	560	0.0	OFF	560	0	0.00	0	70.0	70.0	70.0	
1-2 AM	331	0.0	OFF	331	0	0.00	0	70.2	70.2	70.2	
2-3 AM	287	0.0	OFF	287	0	0.00	0	70.2	70.2	70.2	
3-4 AM	370	0.0	OFF	370	0	0.00	0	70.2	70.2	70.2	
4-5 AM	761	0.0	OFF	761	0	0.00	0	69.8	69.8	69.8	
5-6 AM	1970	0.0	OFF	1970	0	0.00	0	68.3	68.3	68.3	
6-7 AM	3792	0.0	OFF	3792	0	0.00	0	65.0	65.0	65.0	
7-8 AM	4616	0.0	OFF	4616	0	0.00	0	59.3	59.3	59.3	
8-9 AM	4442	0.0	OFF	4442	0	0.00	0	60.5	60.5	60.5	
9-10 AM	3425	0.0	OFF	3425	0	0.00	0	66.5	66.5	66.5	
10-11 AM	3188	0.0	1499	1550	1638	16.48+	412	66.8	10.4	36.6	
11AM-NOON	3601	0.0	1499	1666	1935	14.40+	378	66.3	11.7	35.8	
NOON-1PM	3757	0.0	1499	1550	2207	15.84+	396	65.2	10.7	35.1	
1-2 PM	3903	0.0	1500	1500	2403	15.90+	400	64.2	10.7	35.7	
2-3 PM	4186	0.0	1500	1500	2686	15.80+	400	62.3	10.7	35.7	
3-4 PM	4504	0.0	OFF	4504	0	0.34	23	60.1	54.6	54.6	
4-5 PM	4683	0.0	OFF	4683	0	0.00	0	58.9	58.9	58.9	
5-6 PM	4609	0.0	OFF	4609	0	0.00	0	59.4	59.4	59.4	
6-7 PM	4287	0.0	OFF	4287	0	0.00	0	61.5	61.5	61.5	
7-8 PM	3079	0.0	OFF	3079	0	0.00	0	66.9	66.9	66.9	
8-9 PM	2522	0.0	OFF	2522	0	0.00	0	67.6	67.6	67.6	
9-10 PM	2191	0.0	OFF	2191	0	0.00	0	68.0	68.0	68.0	
10-11 PM	1920	0.0	OFF	1920	0	0.00	0	68.4	68.4	68.4	
11PM-MID	1233	0.0	OFF	1233	0	0.00	0	69.2	69.2	69.2	

"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	0.0
(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	0
(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	0.0369
MAIN ROUTE WITH WORKS	0.0305
'DIVERSION'	0.0136
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$64,083
CONGESTED HOURS PER DAY*	5

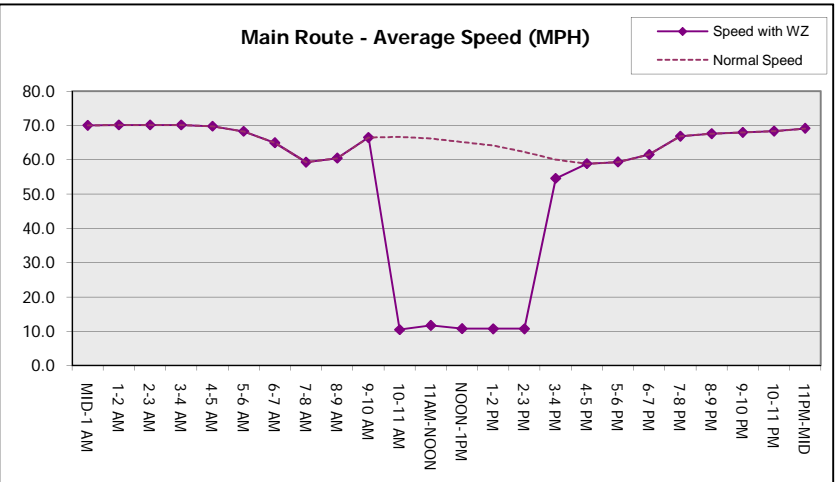
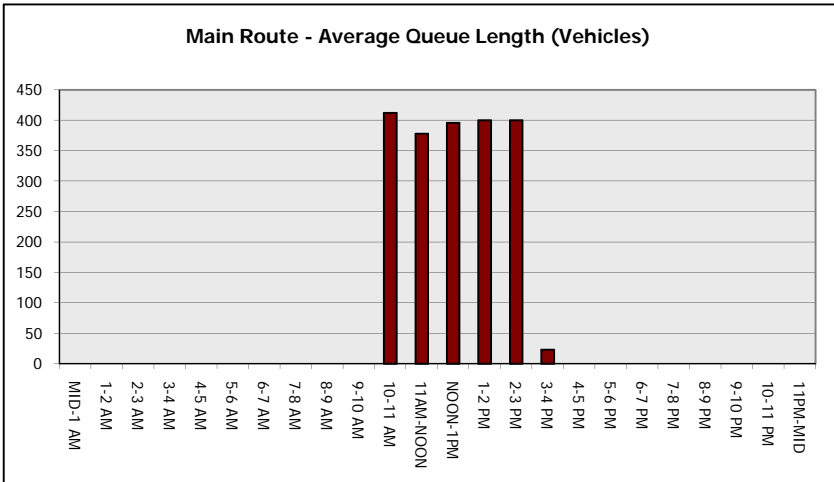
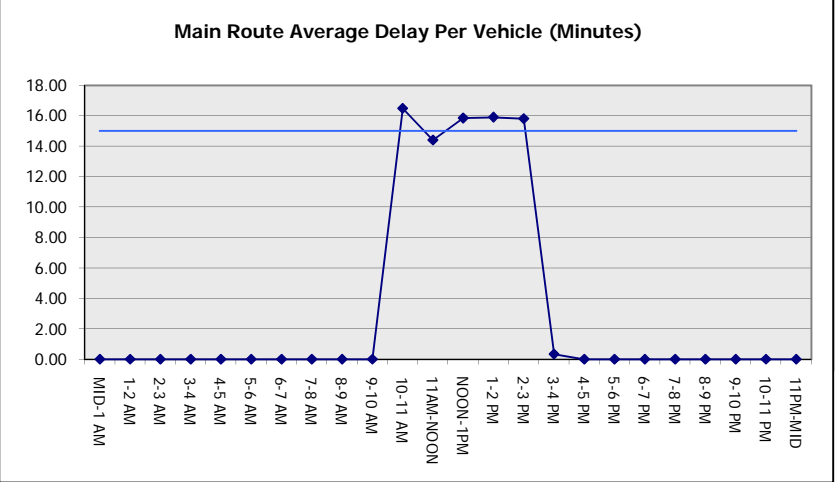
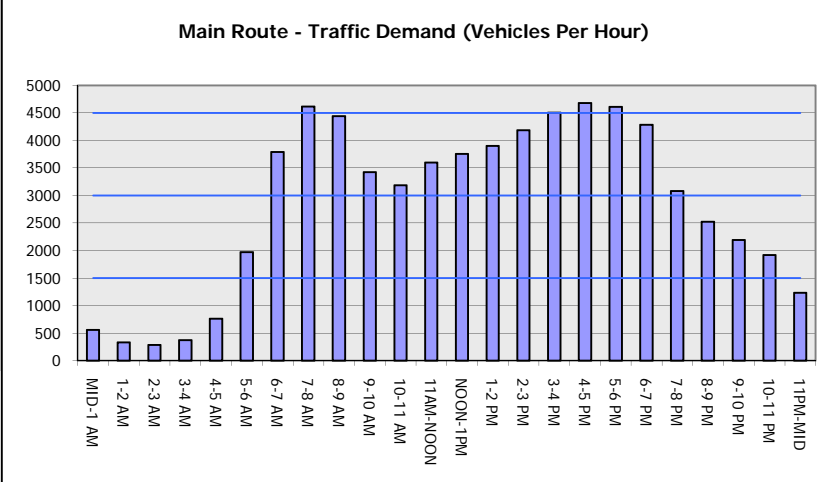
*Delays Exceeding User-Specified Maximum

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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	508	0.0	OFF	508	0	0.00	0	70.1	70.1	70.1
1-2 AM	319	0.0	OFF	319	0	0.00	0	70.2	70.2	70.2
2-3 AM	274	0.0	OFF	274	0	0.00	0	70.2	70.2	70.2
3-4 AM	329	0.0	OFF	329	0	0.00	0	70.2	70.2	70.2
4-5 AM	646	0.0	OFF	646	0	0.00	0	69.9	69.9	69.9
5-6 AM	1966	0.0	OFF	1966	0	0.00	0	68.3	68.3	68.3
6-7 AM	4424	0.0	OFF	4424	0	0.00	0	60.6	60.6	60.6
7-8 AM	4966	0.0	OFF	4966	0	0.00	0	56.9	56.9	56.9
8-9 AM	4814	0.0	OFF	4814	0	0.00	0	57.9	57.9	57.9
9-10 AM	3922	0.0	OFF	3922	0	0.00	0	64.1	64.1	64.1
10-11 AM	3551	0.0	1499	1550	2002	16.46+	412	66.3	10.4	36.6
11AM-NOON	3896	0.0	1499	1706	2190	14.39+	378	64.2	11.6	35.7
NOON-1PM	3940	0.0	1499	1500	2440	15.85+	399	64.0	10.7	36.5
1-2 PM	4033	0.0	1500	1500	2533	15.82+	400	63.3	10.7	36.5
2-3 PM	4352	0.0	1500	1500	2852	15.71+	400	61.1	10.7	36.5
3-4 PM	4553	0.0	OFF	4553	0	0.33	22	59.7	54.5	54.5
4-5 PM	4707	0.0	OFF	4707	0	0.00	0	58.7	58.7	58.7
5-6 PM	4429	0.0	OFF	4429	0	0.00	0	60.6	60.6	60.6
6-7 PM	3695	0.0	OFF	3695	0	0.00	0	65.6	65.6	65.6
7-8 PM	2783	0.0	OFF	2783	0	0.00	0	67.3	67.3	67.3
8-9 PM	2596	0.0	OFF	2596	0	0.00	0	67.5	67.5	67.5
9-10 PM	2242	0.0	OFF	2242	0	0.00	0	67.9	67.9	67.9
10-11 PM	1582	0.0	OFF	1582	0	0.00	0	68.7	68.7	68.7
11PM-MID	1086	0.0	OFF	1086	0	0.00	0	69.4	69.4	69.4

"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	0.0377
MAIN ROUTE WITH WORKS	0.0306
'DIVERSION'	0.0151

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$67,794
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

