

**IH 94: STH 181 TO USH 41 (MILWAUKEE 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	872	0.0	OFF	872	0	0.00	0	69.7	69.7	69.7	
1-2 AM	509	0.0	OFF	509	0	0.00	0	70.1	70.1	70.1	
2-3 AM	396	0.0	OFF	396	0	0.00	0	70.2	70.2	70.2	
3-4 AM	412	0.0	OFF	412	0	0.00	0	70.2	70.2	70.2	
4-5 AM	752	0.0	OFF	752	0	0.00	0	69.8	69.8	69.8	
5-6 AM	2167	0.0	OFF	2167	0	0.00	0	68.1	68.1	68.1	
6-7 AM	4580	0.0	OFF	4580	0	0.00	0	59.6	59.6	59.6	
7-8 AM	5686	0.0	OFF	5686	0	0.00	0	52.0	52.0	52.0	
8-9 AM	5188	0.0	OFF	5188	0	0.00	0	55.4	55.4	55.4	
9-10 AM	4054	0.0	OFF	4054	0	0.00	0	63.2	63.2	63.2	
10-11 AM	3955	0.0	1499	1560	2395	16.70+	420	63.8	8.1	36.6	
11AM-NOON	4298	0.0	1499	1808	2489	14.80+	386	61.5	8.8	35.4	
NOON-1PM	4472	0.0	1499	1500	2972	16.37+	408	60.3	8.1	30.8	
1-2 PM	4478	0.0	1500	1500	2978	16.37+	408	60.2	8.1	30.8	
2-3 PM	5466	0.0	1500	1500	3966	16.05+	408	53.5	8.1	30.8	
3-4 PM	5767	0.0	OFF	5767	0	2.61	251	51.5	26.6	26.6	
4-5 PM	5221	0.0	OFF	5221	0	0.16	11	55.2	52.0	52.0	
5-6 PM	4918	0.0	OFF	4918	0	0.00	0	57.3	57.3	57.3	
6-7 PM	4434	0.0	OFF	4434	0	0.00	0	60.5	60.5	60.5	
7-8 PM	3088	0.0	OFF	3088	0	0.00	0	66.9	66.9	66.9	
8-9 PM	2669	0.0	OFF	2669	0	0.00	0	67.4	67.4	67.4	
9-10 PM	2543	0.0	OFF	2543	0	0.00	0	67.6	67.6	67.6	
10-11 PM	2098	0.0	OFF	2098	0	0.00	0	68.1	68.1	68.1	
11PM-MID	1414	0.0	OFF	1414	0	0.00	0	69.0	69.0	69.0	

"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	0.0303
MAIN ROUTE WITH WORKS	0.0242
'DIVERSION'	0.0131
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$82,014
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

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**OFF-PEAK DAY 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**

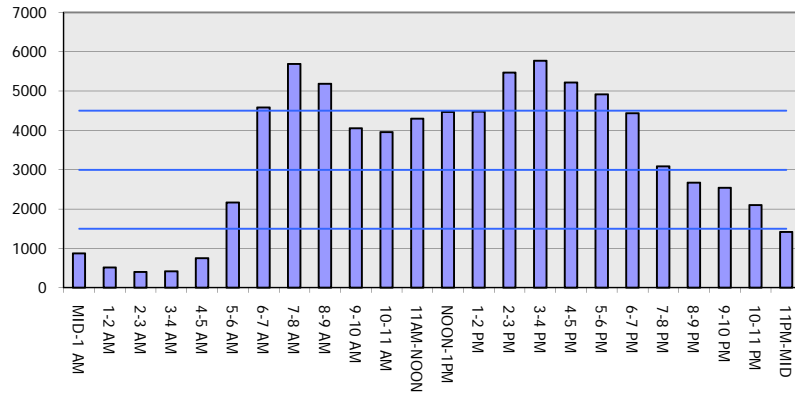
Analyzed for 2009  
 Construction Season

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

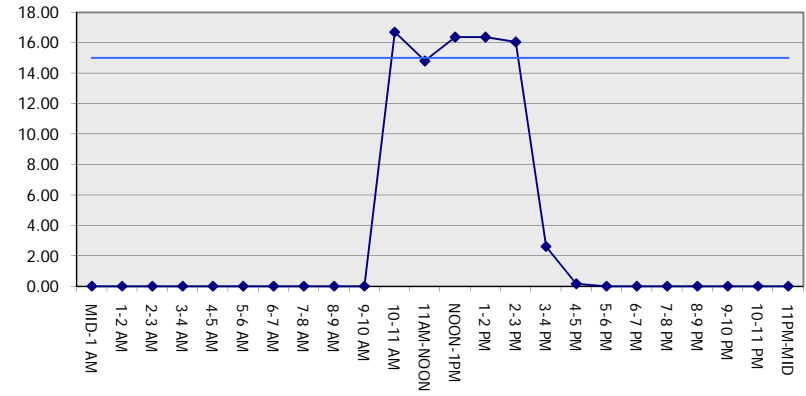
**MON-THUR**

**WESTBOUND DIRECTION**

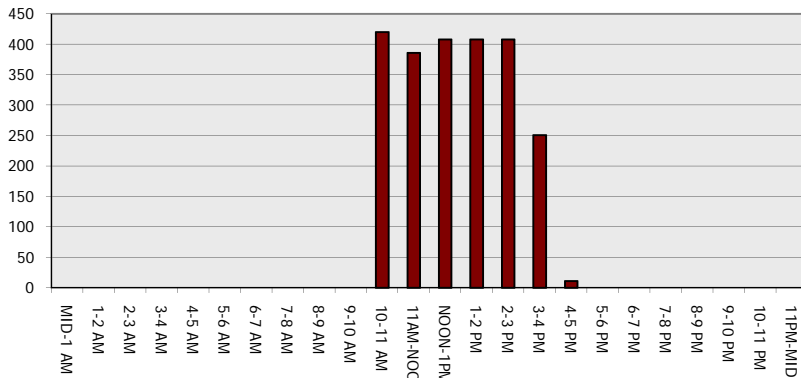
**Main Route - Traffic Demand (Vehicles Per Hour)**



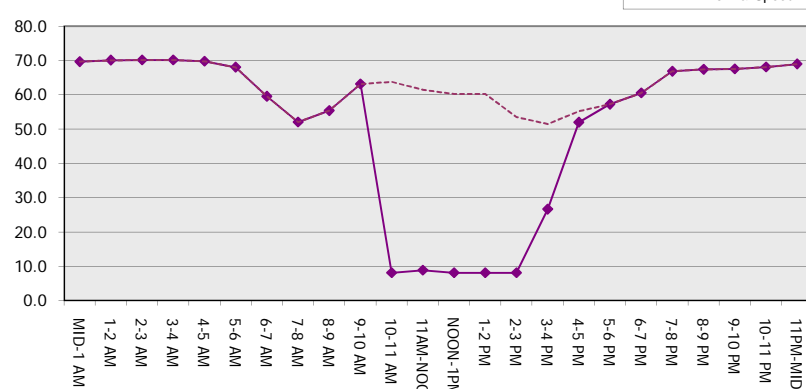
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



<b>IH 94: STH 181 TO USH 41 (MILWAUKEE COUNTY)</b> <b>OFF-PEAK DAY 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**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	755	0.0	OFF	755	0	0.00	0	69.8	69.8	69.8
1-2 AM	452	0.0	OFF	452	0	0.00	0	70.2	70.2	70.2
2-3 AM	395	0.0	OFF	395	0	0.00	0	70.2	70.2	70.2
3-4 AM	367	0.0	OFF	367	0	0.00	0	70.2	70.2	70.2
4-5 AM	611	0.0	OFF	611	0	0.00	0	70.0	70.0	70.0
5-6 AM	2488	0.0	OFF	2488	0	0.00	0	67.6	67.6	67.6
6-7 AM	5542	0.0	OFF	5542	0	0.00	0	53.0	53.0	53.0
7-8 AM	5934	0.0	OFF	5934	0	0.00	0	50.3	50.3	50.3
8-9 AM	5403	0.0	OFF	5403	0	0.00	0	54.0	54.0	54.0
9-10 AM	4297	0.0	OFF	4297	0	0.00	0	61.5	61.5	61.5
10-11 AM	4133	0.0	1499	1561	2572	16.66+	420	62.6	8.1	36.6
11AM-NOON	4268	0.0	1499	1806	2461	14.81+	386	61.7	8.8	35.4
NOON-1PM	4283	0.0	1499	1500	2783	16.43+	408	61.6	8.1	30.8
1-2 PM	4267	0.0	1500	1500	2767	16.43+	408	61.7	8.1	30.8
2-3 PM	4864	0.0	1500	1500	3364	16.26+	408	57.6	8.1	30.8
3-4 PM	5128	0.0	OFF	5128	0	0.89	77	55.8	41.4	41.4
4-5 PM	5149	0.0	OFF	5149	0	0.00	0	55.7	55.7	55.7
5-6 PM	5210	0.0	OFF	5210	0	0.00	0	55.3	55.3	55.3
6-7 PM	4434	0.0	OFF	4434	0	0.00	0	60.5	60.5	60.5
7-8 PM	3522	0.0	OFF	3522	0	0.00	0	66.4	66.4	66.4
8-9 PM	3138	0.0	OFF	3138	0	0.00	0	66.8	66.8	66.8
9-10 PM	3125	0.0	OFF	3125	0	0.00	0	66.8	66.8	66.8
10-11 PM	2426	0.0	OFF	2426	0	0.00	0	67.7	67.7	67.7
11PM-MID	1814	0.0	OFF	1814	0	0.00	0	68.5	68.5	68.5

"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	0.0313
MAIN ROUTE WITH WORKS	0.0255
'DIVERSION'	0.0123

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$76,919
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

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**AUGUST**

Analyzed for 2009  
 Construction Season

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

