

<b>IH 94: USH 41 AND IH 43 (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**

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	2108	0.0	OFF	2108	0	0.00	0	68.1	68.1	68.1	
1-2 AM	1286	0.0	OFF	1286	0	0.00	0	69.1	69.1	69.1	
2-3 AM	1336	0.0	OFF	1336	0	0.00	0	69.1	69.1	69.1	
3-4 AM	789	0.0	OFF	789	0	0.00	0	69.7	69.7	69.7	
4-5 AM	662	0.0	OFF	662	0	0.00	0	69.9	69.9	69.9	
5-6 AM	1014	0.0	OFF	1014	0	0.00	0	69.5	69.5	69.5	
6-7 AM	1593	0.0	OFF	1593	0	0.00	0	68.7	68.7	68.7	
7-8 AM	2130	0.0	OFF	2130	0	0.00	0	68.1	68.1	68.1	
8-9 AM	2888	0.0	1499	1867	1021	14.09+	350	67.1	8.5	34.5	
9-10 AM	3458	0.0	1499	1505	1953	16.93+	416	66.4	7.6	30.8	
10-11 AM	4014	0.0	1500	1500	2514	16.85+	417	63.4	7.6	30.8	
11AM-NOON	4368	0.0	1500	1500	2868	16.76+	417	61.0	7.6	30.8	
NOON-1PM	4622	0.0	1500	1500	3122	16.69+	417	59.3	7.6	30.8	
1-2 PM	4496	0.0	1500	1500	2996	16.73+	417	60.1	7.6	30.8	
2-3 PM	4600	0.0	1500	1500	3100	16.70+	417	59.4	7.6	30.8	
3-4 PM	4638	0.0	1500	1500	3138	16.69+	417	59.2	7.6	30.8	
4-5 PM	4418	0.0	1500	1500	2918	16.75+	417	60.7	7.6	30.8	
5-6 PM	4131	0.0	1500	1500	2631	16.82+	417	62.7	7.6	30.8	
6-7 PM	3380	0.0	OFF	3380	0	0.30	26	66.5	57.4	57.4	
7-8 PM	2912	0.0	OFF	2912	0	0.00	0	67.1	67.1	67.1	
8-9 PM	2966	0.0	OFF	2966	0	0.00	0	67.1	67.1	67.1	
9-10 PM	2409	0.0	OFF	2409	0	0.00	0	67.8	67.8	67.8	
10-11 PM	3344	0.0	OFF	3344	0	0.00	0	66.6	66.6	66.6	
11PM-MID	2916	0.0	OFF	2916	0	0.00	0	67.1	67.1	67.1	

"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	0.0138
'DIVERSION'	0.0203
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$190,458
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

**IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY)  
OFF-PEAK DAY 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**

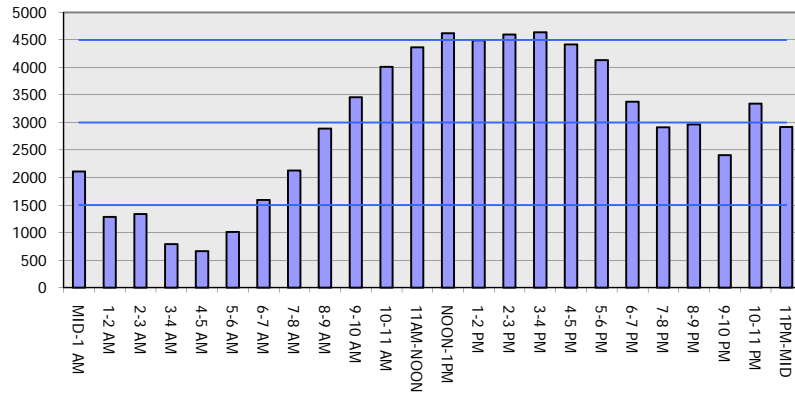
Analyzed for 2009  
Construction Season

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

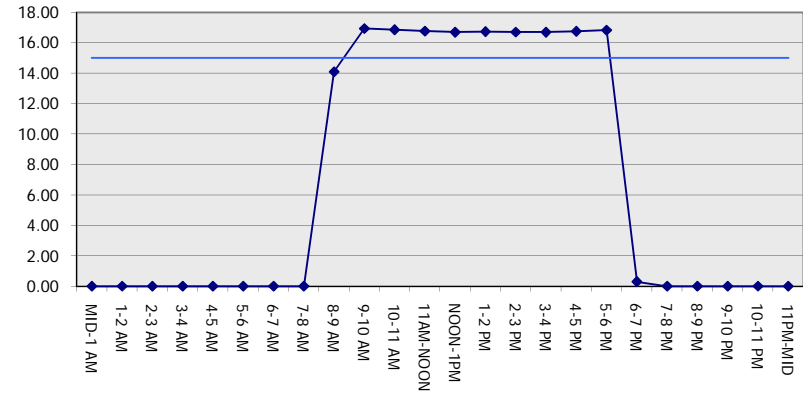
**SATURDAY**

**WESTBOUND DIRECTION**

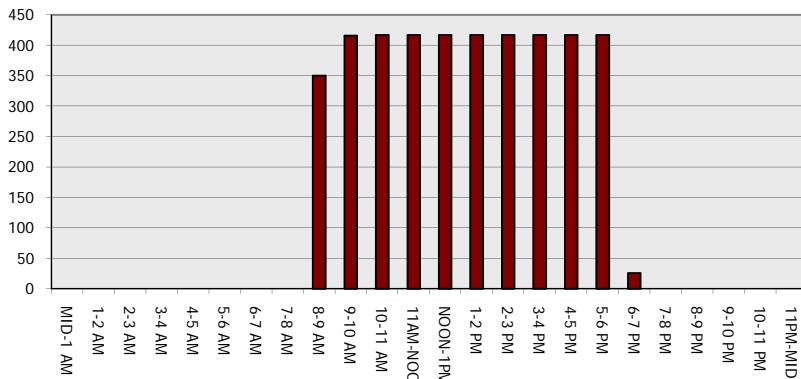
**Main Route - Traffic Demand (Vehicles Per Hour)**



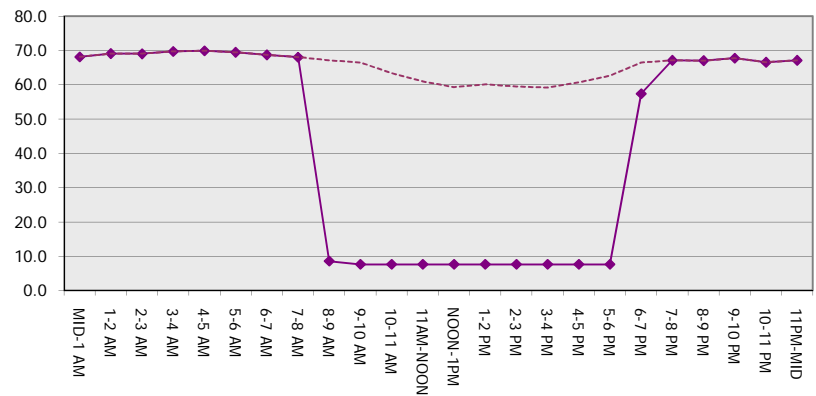
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



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	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	1237	0.0	OFF	1237	0	0.00	0	69.2	69.2	69.2
1-2 AM	596	0.0	OFF	596	0	0.00	0	70.0	70.0	70.0
2-3 AM	533	0.0	OFF	533	0	0.00	0	70.0	70.0	70.0
3-4 AM	383	0.0	OFF	383	0	0.00	0	70.2	70.2	70.2
4-5 AM	484	0.0	OFF	484	0	0.00	0	70.1	70.1	70.1
5-6 AM	815	0.0	OFF	815	0	0.00	0	69.7	69.7	69.7
6-7 AM	1240	0.0	OFF	1240	0	0.00	0	69.2	69.2	69.2
7-8 AM	1709	0.0	OFF	1709	0	0.00	0	68.6	68.6	68.6
8-9 AM	2067	0.0	1499	1994	73	8.39+	241	68.2	12.9	30.8
9-10 AM	2655	0.0	1500	1476	1178	16.88+	414	67.4	7.6	30.8
10-11 AM	2944	0.0	1499	1477	1467	16.89+	414	67.1	7.6	30.8
11AM-NOON	3517	0.0	1499	1499	2017	16.95+	417	66.4	7.6	30.8
NOON-1PM	3712	0.0	1500	1500	2212	16.92+	417	65.5	7.6	30.8
1-2 PM	3692	0.0	1500	1500	2192	16.93+	417	65.6	7.6	30.8
2-3 PM	3892	0.0	1500	1500	2392	16.88+	417	64.3	7.6	30.8
3-4 PM	3843	0.0	1500	1500	2343	16.89+	417	64.6	7.6	30.8
4-5 PM	3744	0.0	1500	1500	2244	16.92+	417	65.3	7.6	30.8
5-6 PM	3918	0.0	1500	1500	2418	16.88+	417	64.1	7.6	30.8
6-7 PM	3704	0.0	OFF	3704	0	0.53	43	65.6	51.4	51.4
7-8 PM	3232	0.0	OFF	3232	0	0.00	0	66.7	66.7	66.7
8-9 PM	2871	0.0	OFF	2871	0	0.00	0	67.2	67.2	67.2
9-10 PM	2402	0.0	OFF	2402	0	0.00	0	67.8	67.8	67.8
10-11 PM	2511	0.0	OFF	2511	0	0.00	0	67.6	67.6	67.6
11PM-MID	2161	0.0	OFF	2161	0	0.00	0	68.1	68.1	68.1

"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	0.0193
MAIN ROUTE WITH WORKS	0.0121
'DIVERSION'	0.0143

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$154,000
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

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

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

