

**IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

OCTOBER
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	614	0.0	3000	614	0	0.36	0	70.0	58.4	49.7
1-2 AM	380	0.0	3000	380	0	0.36	0	70.2	58.5	49.7
2-3 AM	301	0.0	3000	301	0	0.36	0	70.2	58.5	49.7
3-4 AM	273	0.0	3000	273	0	0.36	0	70.2	58.5	49.7
4-5 AM	514	0.0	3000	514	0	0.36	0	70.1	58.4	49.7
5-6 AM	1621	0.0	3000	1621	0	0.34	0	68.7	57.9	49.7
6-7 AM	3837	0.0	2999	3837	0	4.47	301	64.6	21.2	37.3
7-8 AM	5370	0.0	2999	3022	2349	17.23+	950	54.2	10.0	37.3
8-9 AM	4442	0.0	3000	3045	1397	17.11+	921	60.5	10.1	37.3
9-10 AM	3360	0.0	3000	2993	367	16.83+	888	66.6	10.2	37.3
10-11 AM	3343	0.0	2999	2996	347	16.83+	888	66.6	10.2	37.3
11AM-NOON	3889	0.0	2999	3000	889	16.81+	893	64.3	10.2	37.3
NOON-1PM	3993	0.0	3000	3001	992	16.79+	894	63.6	10.2	37.3
1-2 PM	3898	0.0	3000	3000	898	16.81+	893	64.2	10.2	37.3
2-3 PM	4788	0.0	2999	3053	1736	17.41+	945	58.1	10.0	37.3
3-4 PM	5188	0.0	3000	3000	2188	17.37+	953	55.4	10.0	37.3
4-5 PM	5097	0.0	3000	3000	2097	17.41+	953	56.0	10.0	37.3
5-6 PM	4946	0.0	3000	3000	1946	17.48+	953	57.1	10.0	37.3
6-7 PM	4354	0.0	3000	2956	1398	17.28+	929	61.1	10.1	37.3
7-8 PM	3018	0.0	3000	2892	126	16.46+	867	67.0	10.3	37.3
8-9 PM	2547	0.0	2999	2547	0	11.30+	595	67.6	12.2	37.5
9-10 PM	2159	0.0	3000	2159	0	1.16	81	68.1	41.9	47.6
10-11 PM	1524	0.0	3000	1524	0	0.34	0	68.9	58.0	49.7
11PM-MID	1129	0.0	3000	1129	0	0.35	0	69.3	58.2	49.7

+ 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	0.0144
'DIVERSION'	0.0130
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$222,128
CONGESTED HOURS PER DAY*	14

*Delays Exceeding User-Specified Maximum

**IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

OCTOBER

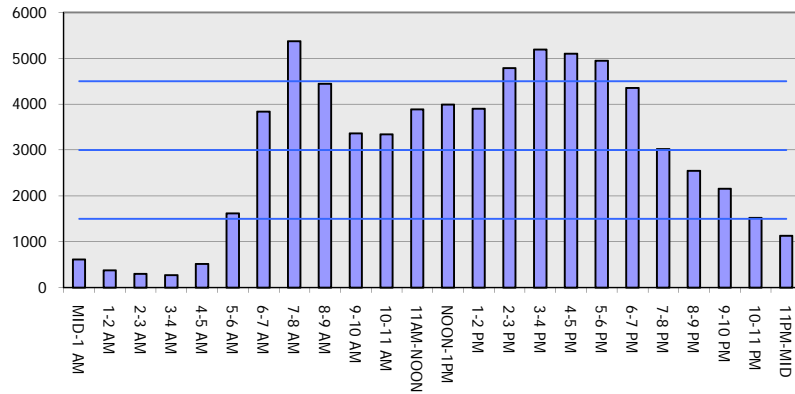
Analyzed for 2009
Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

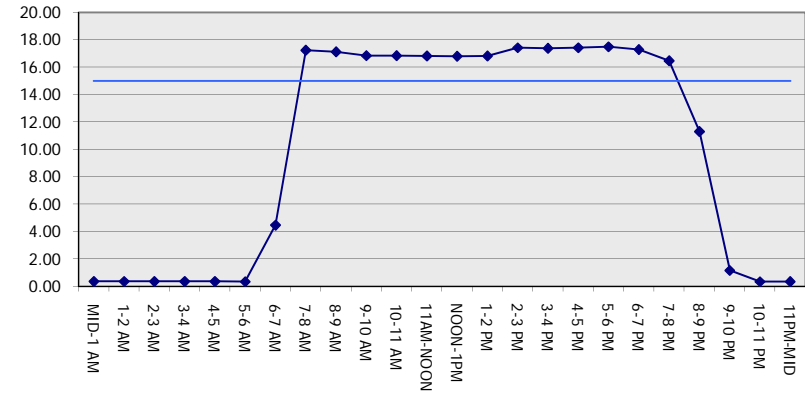
MON-THUR

WESTBOUND DIRECTION

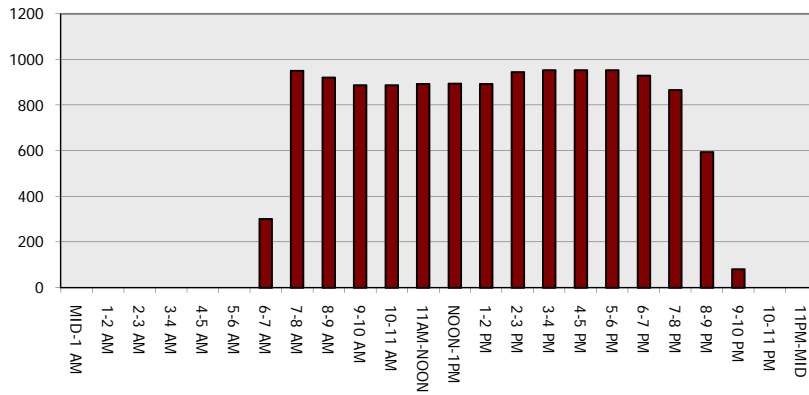
Main Route - Traffic Demand (Vehicles Per Hour)



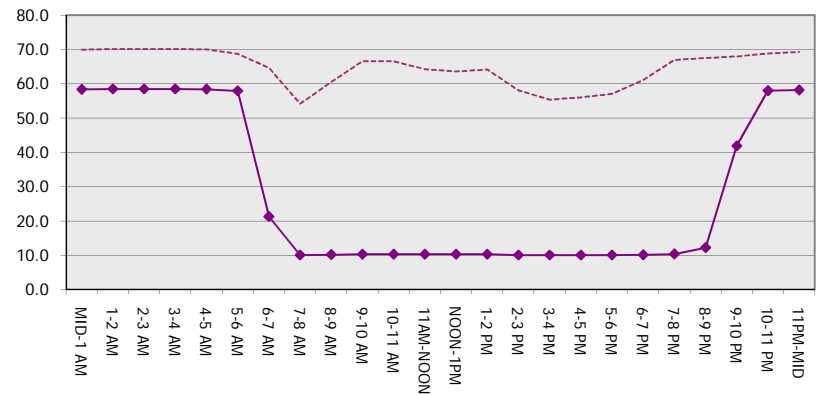
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	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	505	0.0	3000	505	0	0.36	0	70.1	58.4	49.7
1-2 AM	340	0.0	3000	340	0	0.36	0	70.2	58.5	49.7
2-3 AM	279	0.0	3000	279	0	0.36	0	70.2	58.5	49.7
3-4 AM	278	0.0	3000	278	0	0.36	0	70.2	58.5	49.7
4-5 AM	487	0.0	3000	487	0	0.36	0	70.1	58.4	49.7
5-6 AM	1890	0.0	2999	1890	0	0.34	0	68.4	57.8	49.7
6-7 AM	4133	0.0	2999	4133	0	7.67+	487	62.6	15.5	37.3
7-8 AM	4431	0.0	2999	2799	1632	17.33+	933	60.6	10.1	37.3
8-9 AM	4282	0.0	2999	2970	1312	17.10+	917	61.6	10.1	37.3
9-10 AM	3588	0.0	3000	2994	594	16.85+	890	66.3	10.2	37.3
10-11 AM	3215	0.0	2999	2995	219	16.81+	886	66.8	10.2	37.3
11AM-NOON	3354	0.0	2999	2998	356	16.83+	888	66.6	10.2	37.3
NOON-1PM	3422	0.0	3000	2999	422	16.83+	888	66.5	10.2	37.3
1-2 PM	3166	0.0	3000	2998	168	16.81+	886	66.8	10.2	37.3
2-3 PM	2903	0.0	2999	2903	0	15.66+	823	67.1	10.6	37.3
3-4 PM	3689	0.0	2999	3074	614	16.73+	885	65.6	10.2	37.3
4-5 PM	3986	0.0	3000	3023	962	16.81+	895	63.7	10.2	37.3
5-6 PM	4086	0.0	3000	3008	1078	16.79+	895	63.0	10.2	37.3
6-7 PM	3702	0.0	3000	2998	705	16.84+	891	65.6	10.2	37.3
7-8 PM	2713	0.0	2999	2713	0	15.13+	796	67.4	10.7	37.3
8-9 PM	2231	0.0	2999	2231	0	3.04	255	67.9	27.1	44.8
9-10 PM	2152	0.0	3000	2152	0	0.33	0	68.1	57.7	49.7
10-11 PM	1508	0.0	3000	1508	0	0.34	0	68.9	58.0	49.7
11PM-MID	975	0.0	3000	975	0	0.35	0	69.5	58.2	49.7

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0205
MAIN ROUTE WITH WORKS	0.0143
'DIVERSION'	0.0062

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$181,356
CONGESTED HOURS PER DAY*	14

*Delays Exceeding User-Specified Maximum

**IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

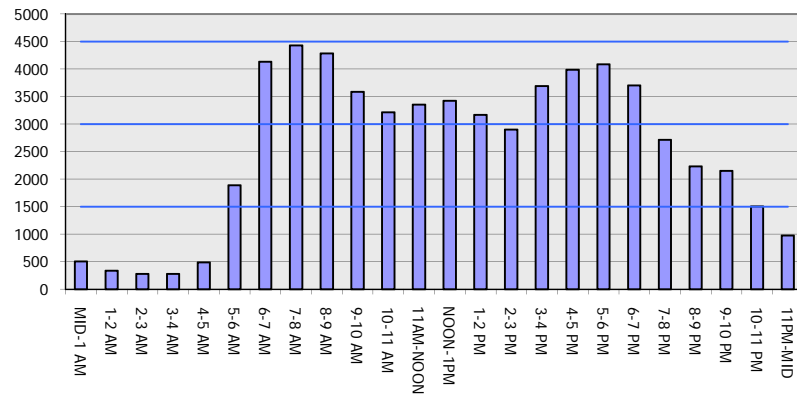
OCTOBER

Analyzed for 2009
Construction Season

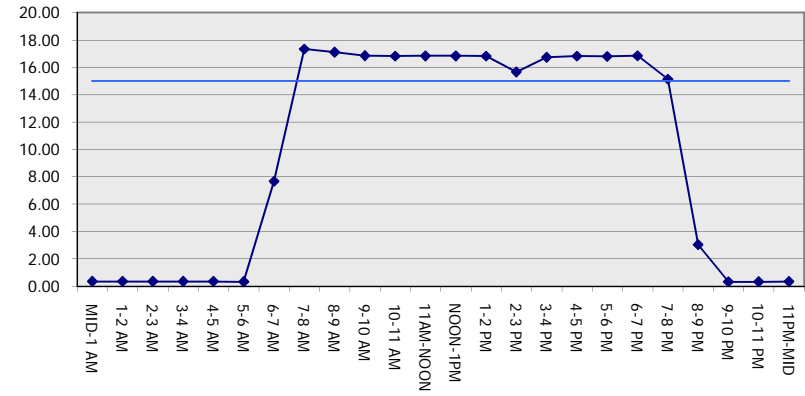
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR EASTBOUND DIRECTION

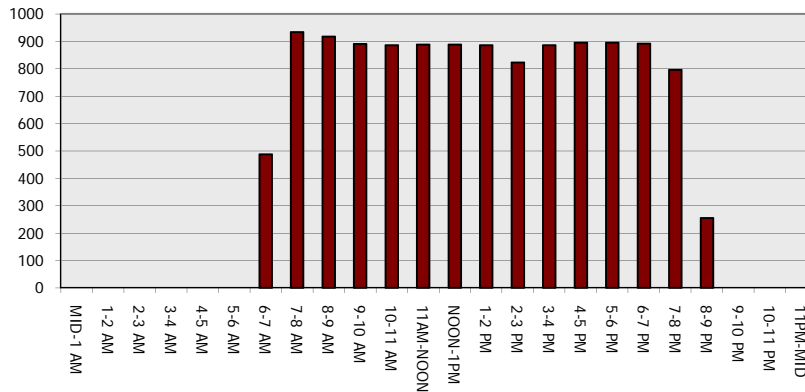
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

