

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

OCTOBER
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	1462	0.0	1499	1381	81	15.65+	382	68.9	7.9	30.8	
1-2 AM	1065	0.0	1499	1065	0	3.18	128	69.4	25.3	37.3	
2-3 AM	1002	0.0	1500	1002	0	0.59	0	69.5	52.5	41.7	
3-4 AM	625	0.0	1500	625	0	0.55	0	70.0	53.7	43.0	
4-5 AM	595	0.0	1500	595	0	0.54	0	70.0	53.8	43.2	
5-6 AM	950	0.0	1499	950	0	0.58	0	69.6	52.7	41.9	
6-7 AM	1576	0.0	1499	1576	0	1.83	31	68.7	34.3	31.9	
7-8 AM	2350	0.0	1500	1827	523	13.94+	352	67.8	8.6	30.8	
8-9 AM	3057	0.0	OFF	3057	0	0.36	34	66.9	56.1	56.1	
9-10 AM	3446	0.0	OFF	3446	0	0.00	0	66.4	66.4	66.4	
10-11 AM	3740	0.0	OFF	3740	0	0.00	0	65.3	65.3	65.3	
11AM-NOON	4070	0.0	OFF	4070	0	0.00	0	63.0	63.0	63.0	
NOON-1PM	4456	0.0	OFF	4456	0	0.00	0	60.4	60.4	60.4	
1-2 PM	4289	0.0	OFF	4289	0	0.00	0	61.5	61.5	61.5	
2-3 PM	4444	0.0	OFF	4444	0	0.00	0	60.5	60.5	60.5	
3-4 PM	4295	0.0	OFF	4295	0	0.00	0	61.5	61.5	61.5	
4-5 PM	4119	0.0	OFF	4119	0	0.00	0	62.7	62.7	62.7	
5-6 PM	3774	0.0	OFF	3774	0	0.00	0	65.1	65.1	65.1	
6-7 PM	3402	0.0	1499	1571	1831	17.10+	428	66.5	7.6	36.6	
7-8 PM	2815	0.0	1499	1636	1179	14.80+	388	67.3	8.4	35.7	
8-9 PM	2337	0.0	1499	1763	574	15.79+	389	67.8	7.9	30.8	
9-10 PM	2529	0.0	1499	1486	1043	16.82+	412	67.6	7.6	30.8	
10-11 PM	3074	0.0	1499	1483	1592	16.91+	415	66.9	7.6	30.8	
11PM-MID	2125	0.0	1500	1498	627	16.76+	410	68.1	7.6	30.8	

"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	0.0219
MAIN ROUTE WITH WORKS	0.0182
'DIVERSION'	0.0058
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$85,040
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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

OCTOBER

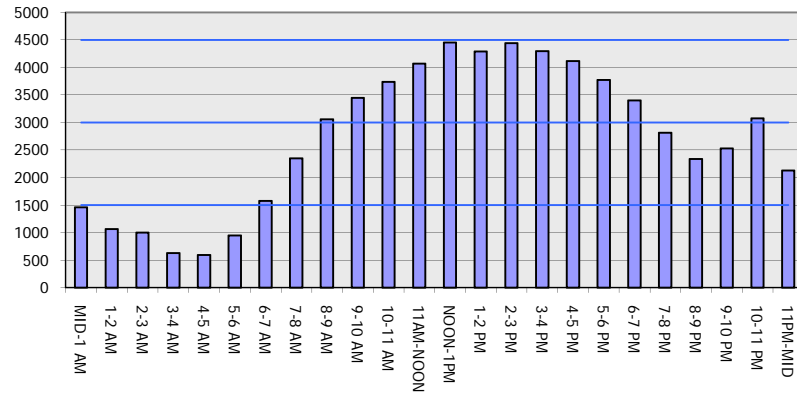
Analyzed for 2009
Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

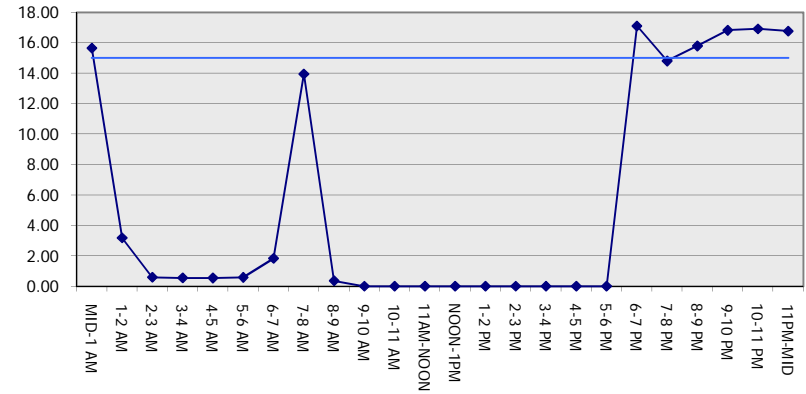
SATURDAY

WESTBOUND DIRECTION

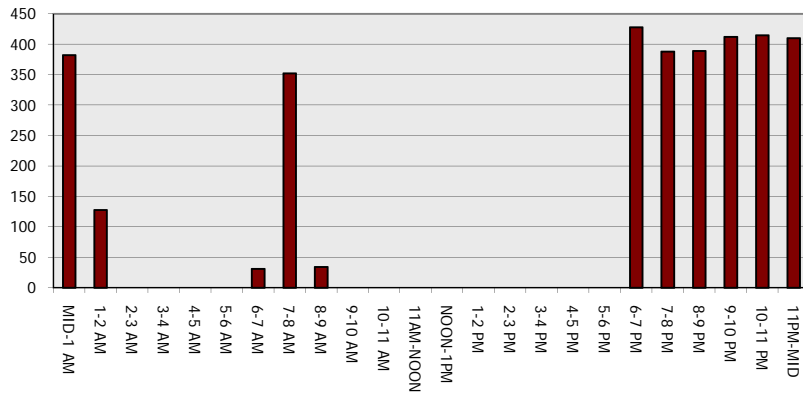
Main Route - Traffic Demand (Vehicles Per Hour)



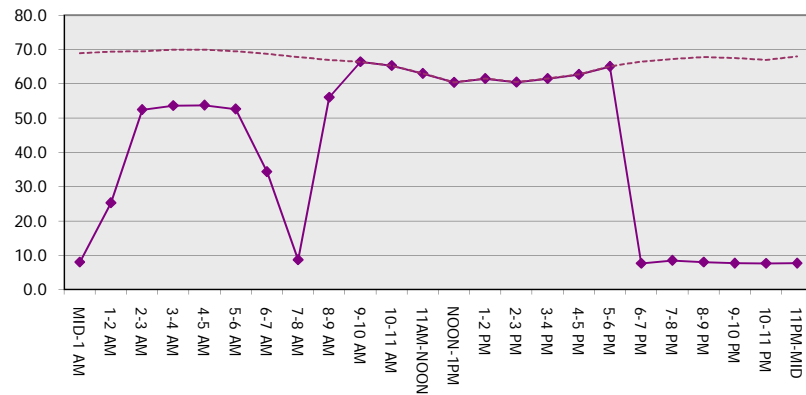
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	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	1039	0.0	1499	1039	0	6.34	227	69.4	15.9	35.9	
1-2 AM	622	0.0	1500	622	0	0.55	0	70.0	53.7	43.0	
2-3 AM	510	0.0	1500	510	0	0.53	0	70.1	54.0	43.5	
3-4 AM	392	0.0	1500	392	0	0.52	0	70.2	54.4	43.9	
4-5 AM	398	0.0	1500	398	0	0.52	0	70.2	54.4	43.9	
5-6 AM	751	0.0	1500	751	0	0.56	0	69.8	53.3	42.5	
6-7 AM	1205	0.0	1499	1205	0	0.72	0	69.2	49.6	38.3	
7-8 AM	1602	0.0	1499	1602	0	1.83	26	68.7	34.3	30.8	
8-9 AM	2054	0.0	OFF	2054	0	0.02	1	68.2	67.6	67.6	
9-10 AM	2459	0.0	OFF	2459	0	0.00	0	67.7	67.7	67.7	
10-11 AM	2611	0.0	OFF	2611	0	0.00	0	67.5	67.5	67.5	
11AM-NOON	3168	0.0	OFF	3168	0	0.00	0	66.8	66.8	66.8	
NOON-1PM	3156	0.0	OFF	3156	0	0.00	0	66.8	66.8	66.8	
1-2 PM	3238	0.0	OFF	3238	0	0.00	0	66.7	66.7	66.7	
2-3 PM	3338	0.0	OFF	3338	0	0.00	0	66.6	66.6	66.6	
3-4 PM	3348	0.0	OFF	3348	0	0.00	0	66.6	66.6	66.6	
4-5 PM	3524	0.0	OFF	3524	0	0.00	0	66.4	66.4	66.4	
5-6 PM	3831	0.0	OFF	3831	0	0.00	0	64.7	64.7	64.7	
6-7 PM	3767	0.0	1499	1571	2196	17.07+	428	65.1	7.6	36.6	
7-8 PM	3392	0.0	1499	1723	1670	14.99+	388	66.5	8.3	35.4	
8-9 PM	2371	0.0	1499	1552	819	16.67+	408	67.8	7.6	30.8	
9-10 PM	2430	0.0	1500	1513	916	16.81+	412	67.7	7.6	30.8	
10-11 PM	2186	0.0	1500	1504	682	16.76+	410	68.0	7.6	30.8	
11PM-MID	1788	0.0	1500	1557	231	16.49+	403	68.5	7.7	30.8	

"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	0.0178
MAIN ROUTE WITH WORKS	0.0145
'DIVERSION'	0.0050

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$70,124
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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

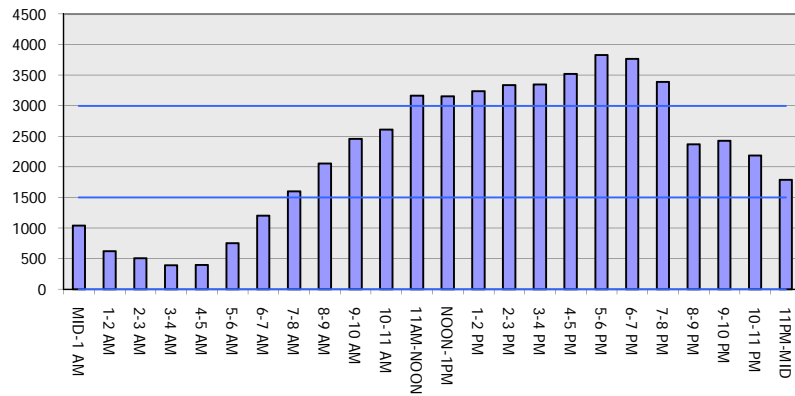
OCTOBER

Analyzed for 2009
 Construction Season

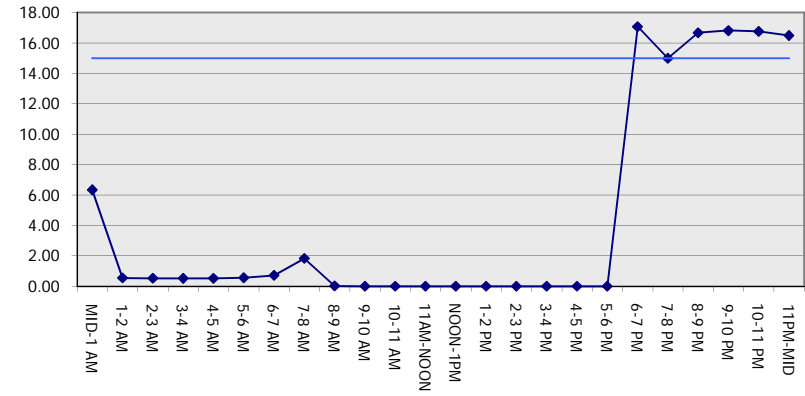
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY EASTBOUND DIRECTION

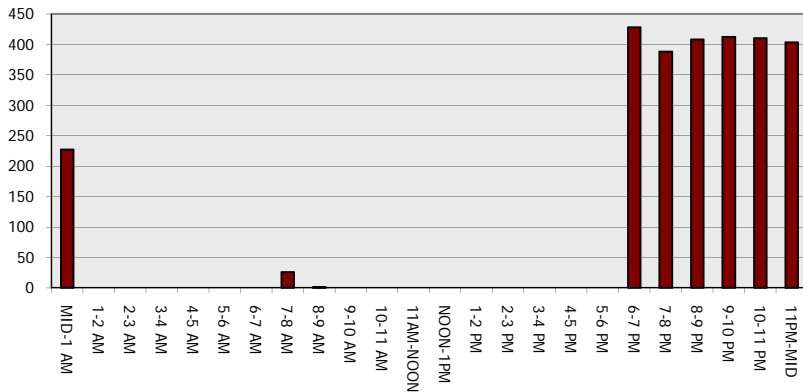
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

