

IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY) NIGHTTIME 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	3000	1462	0	0.34	0	68.9	58.0	49.7	
1-2 AM	1065	0.0	3000	1065	0	0.35	0	69.4	58.2	49.7	
2-3 AM	1002	0.0	3000	1002	0	0.35	0	69.5	58.2	49.7	
3-4 AM	625	0.0	3000	625	0	0.36	0	70.0	58.4	49.7	
4-5 AM	595	0.0	3000	595	0	0.36	0	70.0	58.4	49.7	
5-6 AM	950	0.0	3000	950	0	0.35	0	69.6	58.2	49.7	
6-7 AM	1576	0.0	3000	1576	0	0.34	0	68.7	57.9	49.7	
7-8 AM	2350	0.0	2999	2350	0	0.38	0	67.8	56.4	47.8	
8-9 AM	3057	0.0	OFF	3057	0	0.00	0	66.9	66.9	66.9	
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	2999	3402	0	4.44	230	66.5	20.4	37.3	
7-8 PM	2815	0.0	2999	2815	0	6.88	342	67.3	15.3	37.3	
8-9 PM	2337	0.0	3000	2337	0	0.76	37	67.8	48.2	48.3	
9-10 PM	2529	0.0	2999	2529	0	0.42	0	67.6	55.2	46.2	
10-11 PM	3074	0.0	2999	3074	0	1.60	49	66.9	36.2	37.3	
11PM-MID	2125	0.0	3000	2125	0	0.39	4	68.1	56.3	49.7	

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0202
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$13,001
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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

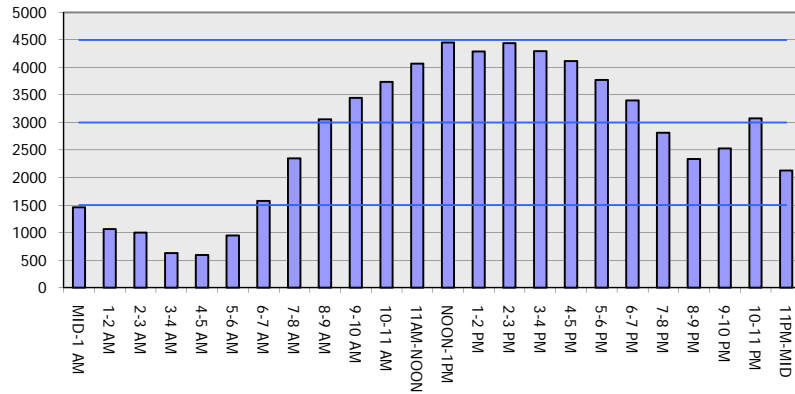
OCTOBER

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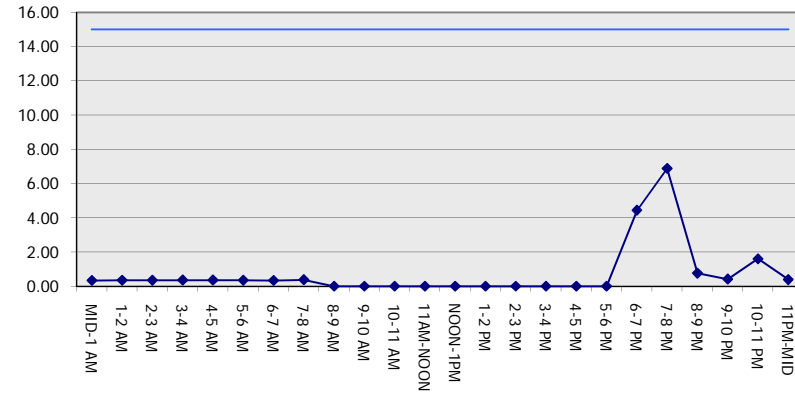
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY WESTBOUND DIRECTION

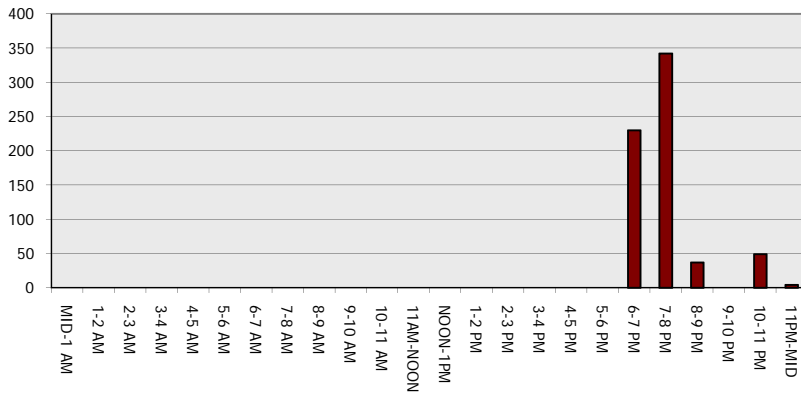
Main Route - Traffic Demand (Vehicles Per Hour)



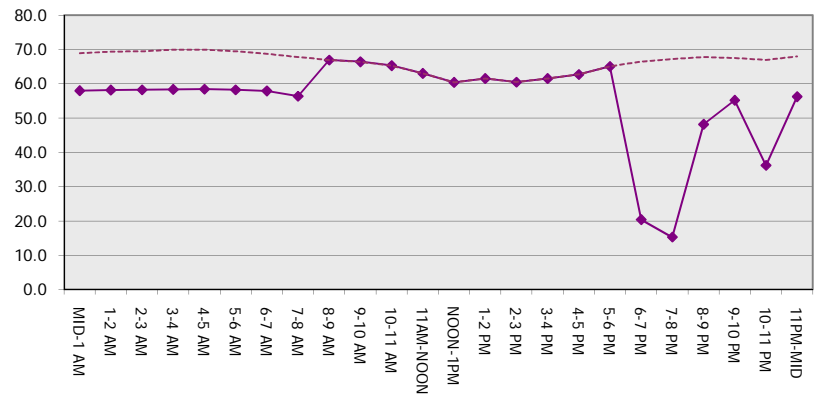
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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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	3000	1039	0	0.35	0	69.4	58.2	49.7
1-2 AM	622	0.0	3000	622	0	0.36	0	70.0	58.4	49.7
2-3 AM	510	0.0	3000	510	0	0.36	0	70.1	58.4	49.7
3-4 AM	392	0.0	3000	392	0	0.36	0	70.2	58.5	49.7
4-5 AM	398	0.0	3000	398	0	0.36	0	70.2	58.5	49.7
5-6 AM	751	0.0	3000	751	0	0.35	0	69.8	58.3	49.7
6-7 AM	1205	0.0	3000	1205	0	0.35	0	69.2	58.1	49.7
7-8 AM	1602	0.0	3000	1602	0	0.34	0	68.7	57.9	49.7
8-9 AM	2054	0.0	OFF	2054	0	0.00	0	68.2	68.2	68.2
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	2999	3767	0	6.91	397	65.1	16.0	37.3
7-8 PM	3392	0.0	2999	3108	284	16.60+	875	66.5	10.3	37.3
8-9 PM	2371	0.0	2999	2371	0	10.89+	591	67.8	12.5	39.1
9-10 PM	2430	0.0	3000	2430	0	1.00	55	67.7	44.0	46.4
10-11 PM	2186	0.0	3000	2186	0	0.33	0	68.0	57.7	49.7
11PM-MID	1788	0.0	3000	1788	0	0.34	0	68.5	57.9	49.7

"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	0.0162
'DIVERSION'	0.0002

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$31,944
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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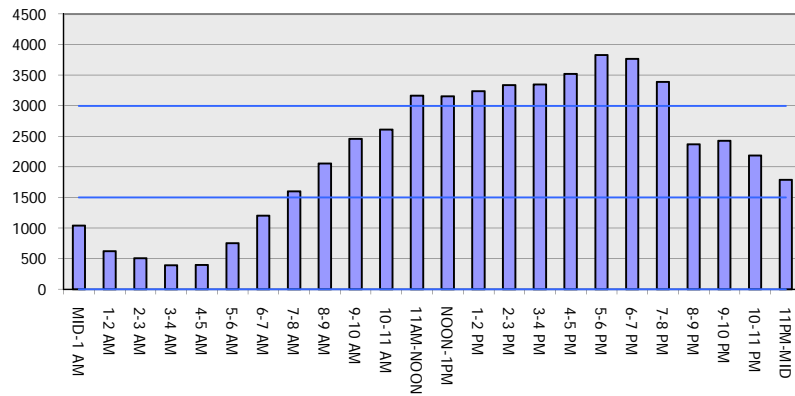
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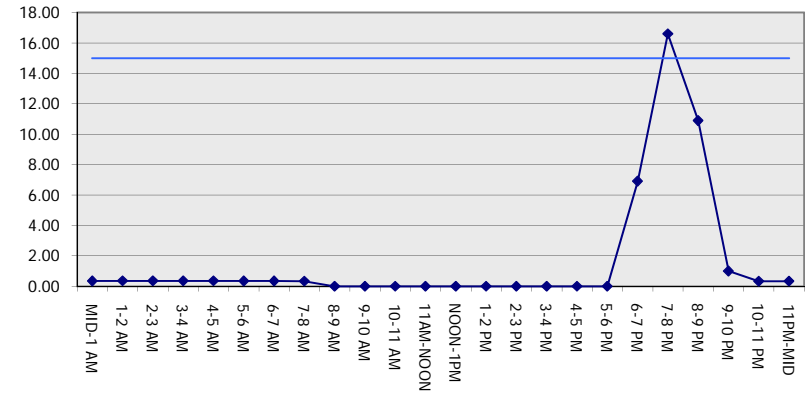
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY EASTBOUND DIRECTION

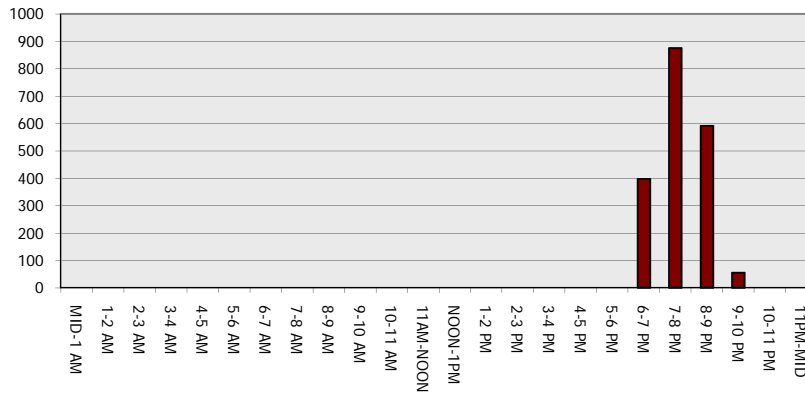
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

