

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

SUNDAY 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	1737	0.0	3000	1737	0	0.34	0	68.6	57.9	49.7	
1-2 AM	1261	0.0	3000	1261	0	0.35	0	69.2	58.1	49.7	
2-3 AM	1486	0.0	3000	1486	0	0.34	0	68.9	58.0	49.7	
3-4 AM	644	0.0	3000	644	0	0.36	0	69.9	58.4	49.7	
4-5 AM	420	0.0	3000	420	0	0.36	0	70.2	58.5	49.7	
5-6 AM	435	0.0	3000	435	0	0.36	0	70.2	58.5	49.7	
6-7 AM	807	0.0	3000	807	0	0.35	0	69.7	58.3	49.7	
7-8 AM	1085	0.0	3000	1085	0	0.35	0	69.4	58.2	49.7	
8-9 AM	1490	0.0	3000	1490	0	0.34	0	68.9	58.0	49.7	
9-10 AM	2183	0.0	OFF	2183	0	0.00	0	68.0	68.0	68.0	
10-11 AM	3043	0.0	OFF	3043	0	0.00	0	66.9	66.9	66.9	
11AM-NOON	3432	0.0	OFF	3432	0	0.00	0	66.4	66.4	66.4	
NOON-1PM	4036	0.0	OFF	4036	0	0.00	0	63.3	63.3	63.3	
1-2 PM	4092	0.0	OFF	4092	0	0.00	0	62.9	62.9	62.9	
2-3 PM	4008	0.0	OFF	4008	0	0.00	0	63.5	63.5	63.5	
3-4 PM	3926	0.0	OFF	3926	0	0.00	0	64.0	64.0	64.0	
4-5 PM	3657	0.0	OFF	3657	0	0.00	0	65.9	65.9	65.9	
5-6 PM	3450	0.0	OFF	3450	0	0.00	0	66.4	66.4	66.4	
6-7 PM	2871	0.0	OFF	2871	0	0.00	0	67.2	67.2	67.2	
7-8 PM	2617	0.0	3000	2617	0	0.48	0	67.5	53.7	44.2	
8-9 PM	2144	0.0	3000	2144	0	0.33	0	68.1	57.7	49.7	
9-10 PM	1743	0.0	3000	1743	0	0.34	0	68.6	57.9	49.7	
10-11 PM	1323	0.0	3000	1323	0	0.35	0	69.1	58.1	49.7	
11PM-MID	879	0.0	3000	879	0	0.35	0	69.6	58.2	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	0.0176
MAIN ROUTE WITH WORKS	0.0164
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,496
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

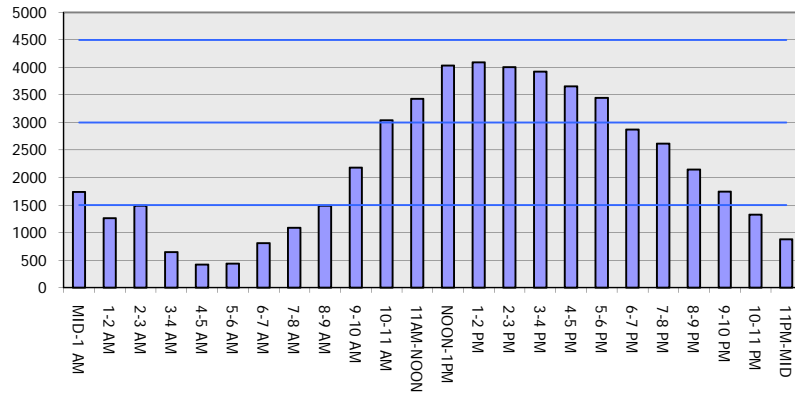
OCTOBER

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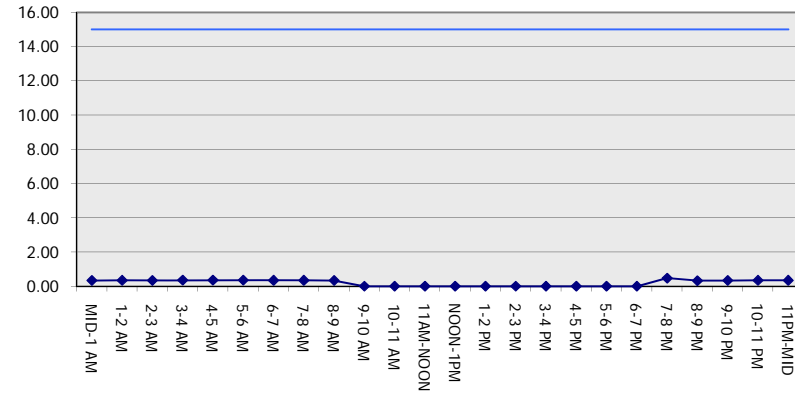
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY WESTBOUND DIRECTION

Main Route - Traffic Demand (Vehicles Per Hour)



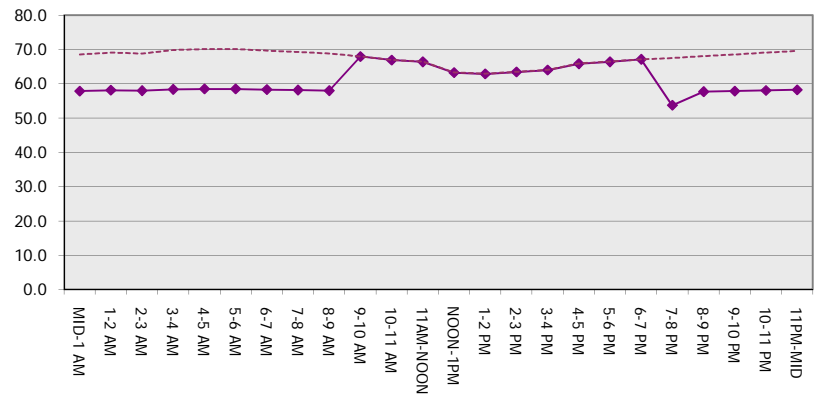
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	1093	0.0	3000	1093	0	0.35	0	69.4	58.2	49.7
1-2 AM	647	0.0	3000	647	0	0.36	0	69.9	58.4	49.7
2-3 AM	538	0.0	3000	538	0	0.36	0	70.0	58.4	49.7
3-4 AM	404	0.0	3000	404	0	0.36	0	70.2	58.5	49.7
4-5 AM	366	0.0	3000	366	0	0.36	0	70.2	58.5	49.7
5-6 AM	634	0.0	3000	634	0	0.36	0	69.9	58.4	49.7
6-7 AM	1038	0.0	3000	1038	0	0.35	0	69.4	58.2	49.7
7-8 AM	1091	0.0	3000	1091	0	0.35	0	69.4	58.2	49.7
8-9 AM	1414	0.0	3000	1414	0	0.34	0	69.0	58.1	49.7
9-10 AM	1953	0.0	OFF	1953	0	0.00	0	68.3	68.3	68.3
10-11 AM	2274	0.0	OFF	2274	0	0.00	0	67.9	67.9	67.9
11AM-NOON	2756	0.0	OFF	2756	0	0.00	0	67.3	67.3	67.3
NOON-1PM	3042	0.0	OFF	3042	0	0.00	0	66.9	66.9	66.9
1-2 PM	3102	0.0	OFF	3102	0	0.00	0	66.9	66.9	66.9
2-3 PM	3018	0.0	OFF	3018	0	0.00	0	67.0	67.0	67.0
3-4 PM	3080	0.0	OFF	3080	0	0.00	0	66.9	66.9	66.9
4-5 PM	3061	0.0	OFF	3061	0	0.00	0	66.9	66.9	66.9
5-6 PM	2790	0.0	OFF	2790	0	0.00	0	67.3	67.3	67.3
6-7 PM	2712	0.0	OFF	2712	0	0.00	0	67.4	67.4	67.4
7-8 PM	2696	0.0	3000	2696	0	0.53	0	67.4	52.5	42.5
8-9 PM	2047	0.0	3000	2047	0	0.33	0	68.2	57.8	49.7
9-10 PM	1726	0.0	3000	1726	0	0.34	0	68.6	57.9	49.7
10-11 PM	1203	0.0	3000	1203	0	0.35	0	69.2	58.1	49.7
11PM-MID	790	0.0	3000	790	0	0.35	0	69.7	58.3	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	0.0145
MAIN ROUTE WITH WORKS	0.0135
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,349
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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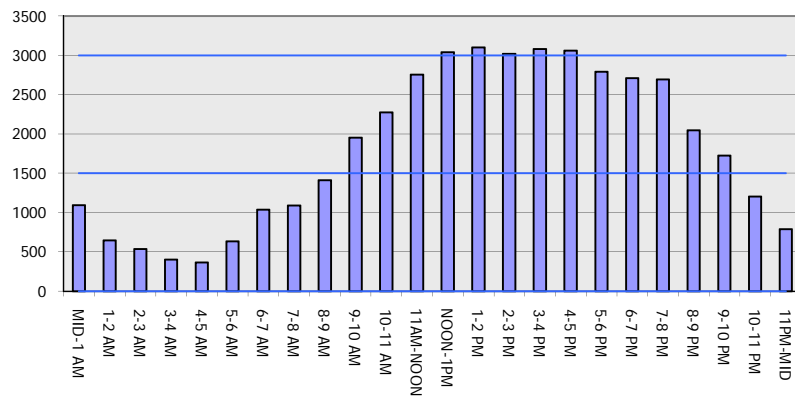
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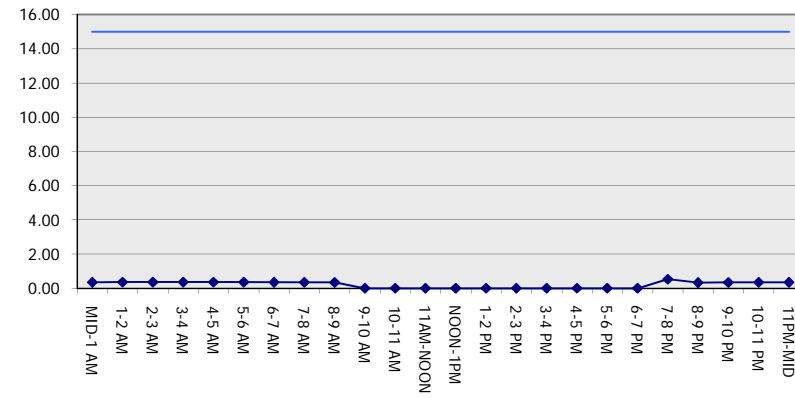
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY EASTBOUND DIRECTION

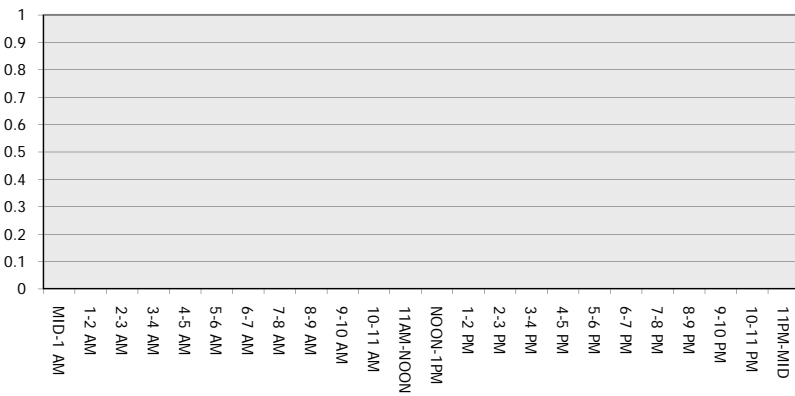
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

