

IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	736	0.0	3000	736	0	0.35	0	69.8	62.5	49.7
1-2 AM	489	0.0	3000	489	0	0.36	0	70.1	62.6	49.7
2-3 AM	407	0.0	3000	407	0	0.36	0	70.2	62.7	49.7
3-4 AM	399	0.0	3000	399	0	0.36	0	70.2	62.7	49.7
4-5 AM	818	0.0	3000	818	0	0.35	0	69.7	62.4	49.7
5-6 AM	1802	0.0	OFF	1802	0	0.00	0	68.5	68.5	68.5
6-7 AM	2778	0.0	OFF	2778	0	0.00	0	67.3	67.3	67.3
7-8 AM	3210	0.0	OFF	3210	0	0.00	0	66.8	66.8	66.8
8-9 AM	2879	0.0	OFF	2879	0	0.00	0	67.1	67.1	67.1
9-10 AM	2820	0.0	OFF	2820	0	0.00	0	67.3	67.3	67.3
10-11 AM	2803	0.0	OFF	2803	0	0.00	0	67.3	67.3	67.3
11AM-NOON	3045	0.0	OFF	3045	0	0.00	0	66.9	66.9	66.9
NOON-1PM	3365	0.0	OFF	3365	0	0.00	0	66.6	66.6	66.6
1-2 PM	3330	0.0	OFF	3330	0	0.00	0	66.6	66.6	66.6
2-3 PM	4271	0.0	OFF	4271	0	0.00	0	61.7	61.7	61.7
3-4 PM	5255	0.0	OFF	5255	0	0.00	0	55.0	55.0	55.0
4-5 PM	5702	0.0	OFF	5702	0	0.00	0	51.9	51.9	51.9
5-6 PM	5576	0.0	OFF	5576	0	0.00	0	52.8	52.8	52.8
6-7 PM	3799	0.0	OFF	3799	0	0.00	0	64.9	64.9	64.9
7-8 PM	2677	0.0	3000	2677	0	0.52	0	67.4	57.8	42.9
8-9 PM	2126	0.0	3000	2126	0	0.33	0	68.1	61.5	49.7
9-10 PM	1984	0.0	3000	1984	0	0.33	0	68.2	61.5	49.7
10-11 PM	1785	0.0	3000	1785	0	0.34	0	68.5	61.7	49.7
11PM-MID	1202	0.0	3000	1202	0	0.35	0	69.2	62.1	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	0.0352
MAIN ROUTE WITH WORKS	0.0344
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$953
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

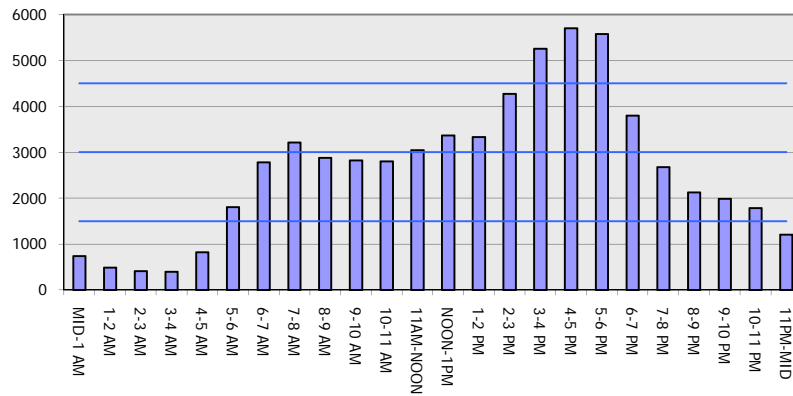
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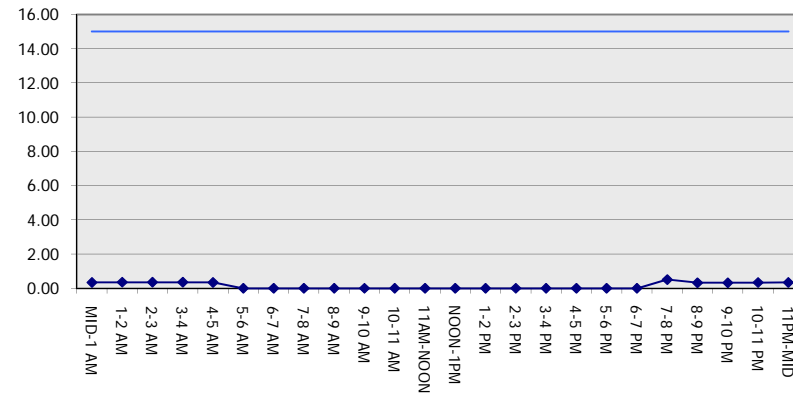
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION

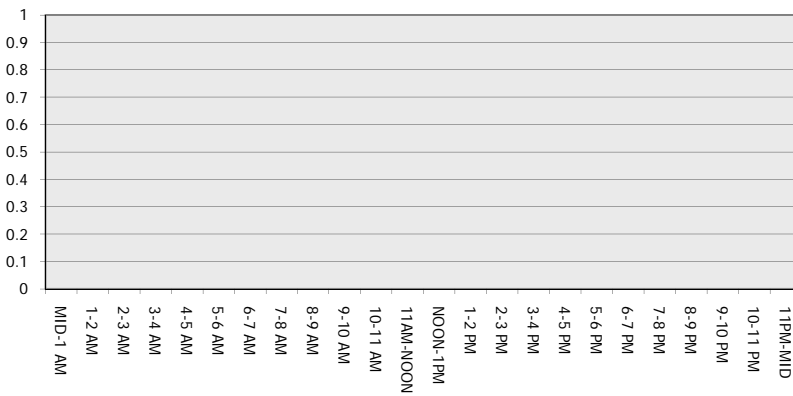
Main Route - Traffic Demand (Vehicles Per Hour)



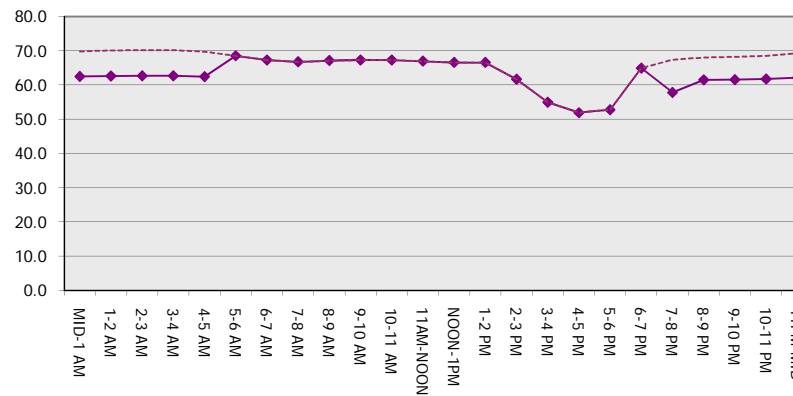
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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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	681	0.0	3000	681	0	0.36	0	69.9	62.5	49.7
1-2 AM	372	0.0	3000	372	0	0.36	0	70.2	62.7	49.7
2-3 AM	323	0.0	3000	323	0	0.36	0	70.2	62.7	49.7
3-4 AM	326	0.0	3000	326	0	0.36	0	70.2	62.7	49.7
4-5 AM	562	0.0	3000	562	0	0.36	0	70.0	62.6	49.7
5-6 AM	1884	0.0	OFF	1884	0	0.00	0	68.4	68.4	68.4
6-7 AM	4070	0.0	OFF	4070	0	0.00	0	63.0	63.0	63.0
7-8 AM	5104	0.0	OFF	5104	0	0.00	0	56.0	56.0	56.0
8-9 AM	4352	0.0	OFF	4352	0	0.00	0	61.1	61.1	61.1
9-10 AM	2994	0.0	OFF	2994	0	0.00	0	67.0	67.0	67.0
10-11 AM	2728	0.0	OFF	2728	0	0.00	0	67.3	67.3	67.3
11AM-NOON	2923	0.0	OFF	2923	0	0.00	0	67.1	67.1	67.1
NOON-1PM	2929	0.0	OFF	2929	0	0.00	0	67.1	67.1	67.1
1-2 PM	2813	0.0	OFF	2813	0	0.00	0	67.3	67.3	67.3
2-3 PM	3093	0.0	OFF	3093	0	0.00	0	66.9	66.9	66.9
3-4 PM	3232	0.0	OFF	3232	0	0.00	0	66.7	66.7	66.7
4-5 PM	3350	0.0	OFF	3350	0	0.00	0	66.6	66.6	66.6
5-6 PM	3392	0.0	OFF	3392	0	0.00	0	66.5	66.5	66.5
6-7 PM	2722	0.0	OFF	2722	0	0.00	0	67.4	67.4	67.4
7-8 PM	2193	0.0	3000	2193	0	0.33	0	68.0	61.4	49.7
8-9 PM	1846	0.0	3000	1846	0	0.34	0	68.4	61.7	49.7
9-10 PM	1792	0.0	3000	1792	0	0.34	0	68.5	61.7	49.7
10-11 PM	1468	0.0	3000	1468	0	0.34	0	68.9	61.9	49.7
11PM-MID	1061	0.0	3000	1061	0	0.35	0	69.4	62.2	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	0.0313
MAIN ROUTE WITH WORKS	0.0306
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$726
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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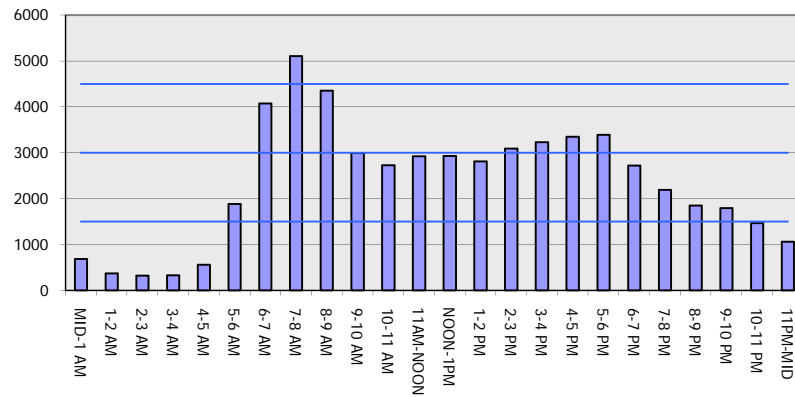
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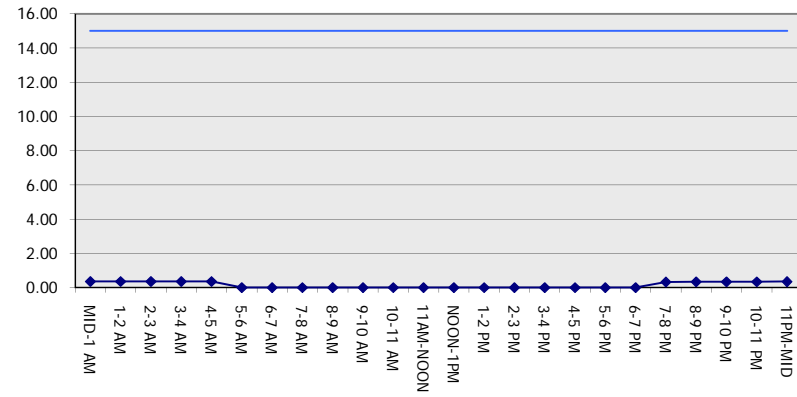
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR EASTBOUND DIRECTION

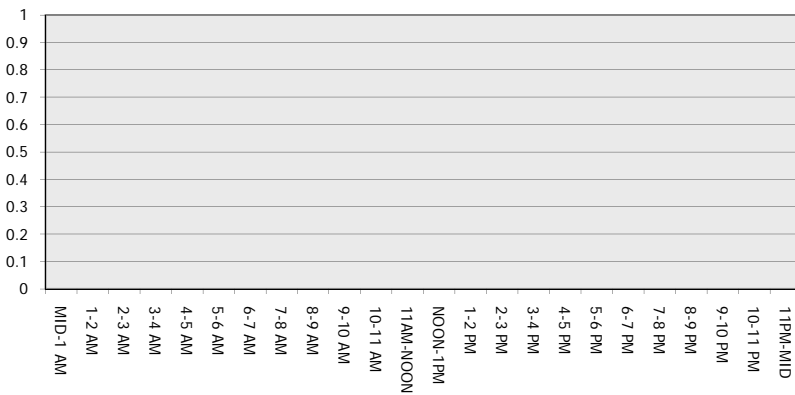
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

