

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

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	1040	0.0	3000	1040	0	0.35	0	69.4	62.2	49.7
1-2 AM	729	0.0	3000	729	0	0.35	0	69.8	62.5	49.7
2-3 AM	742	0.0	3000	742	0	0.35	0	69.8	62.4	49.7
3-4 AM	499	0.0	3000	499	0	0.36	0	70.1	62.6	49.7
4-5 AM	587	0.0	3000	587	0	0.36	0	70.0	62.5	49.7
5-6 AM	877	0.0	3000	877	0	0.35	0	69.6	62.3	49.7
6-7 AM	1179	0.0	3000	1179	0	0.35	0	69.2	62.2	49.7
7-8 AM	1540	0.0	3000	1540	0	0.34	0	68.8	61.9	49.7
8-9 AM	2187	0.0	OFF	2187	0	0.00	0	68.0	68.0	68.0
9-10 AM	2648	0.0	OFF	2648	0	0.00	0	67.4	67.4	67.4
10-11 AM	3228	0.0	OFF	3228	0	0.00	0	66.7	66.7	66.7
11AM-NOON	3525	0.0	OFF	3525	0	0.00	0	66.4	66.4	66.4
NOON-1PM	3869	0.0	OFF	3869	0	0.00	0	64.4	64.4	64.4
1-2 PM	3635	0.0	OFF	3635	0	0.00	0	66.0	66.0	66.0
2-3 PM	3946	0.0	OFF	3946	0	0.00	0	63.9	63.9	63.9
3-4 PM	3789	0.0	OFF	3789	0	0.00	0	65.0	65.0	65.0
4-5 PM	3519	0.0	OFF	3519	0	0.00	0	66.4	66.4	66.4
5-6 PM	3157	0.0	OFF	3157	0	0.00	0	66.8	66.8	66.8
6-7 PM	2735	0.0	3000	2735	0	0.56	0	67.3	57.1	41.8
7-8 PM	2360	0.0	3000	2360	0	0.33	0	67.8	61.3	49.7
8-9 PM	2270	0.0	3000	2270	0	0.33	0	67.9	61.4	49.7
9-10 PM	2449	0.0	3000	2449	0	0.37	0	67.7	60.5	48.1
10-11 PM	1947	0.0	3000	1947	0	0.34	0	68.3	61.6	49.7
11PM-MID	1622	0.0	3000	1622	0	0.34	0	68.7	61.8	49.7

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

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(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	0
(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	0.0301
MAIN ROUTE WITH WORKS	0.0287
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,802
CONGESTED HOURS PER DAY*	0

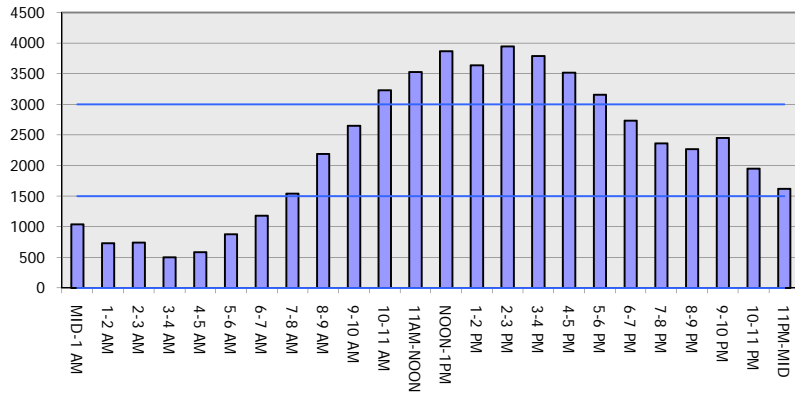
*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

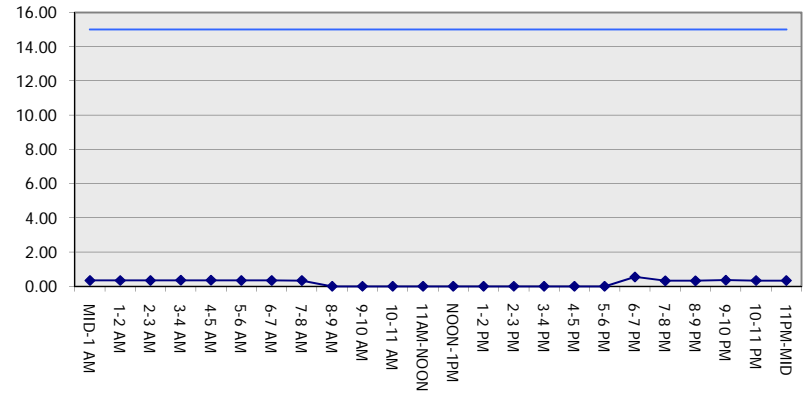
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION

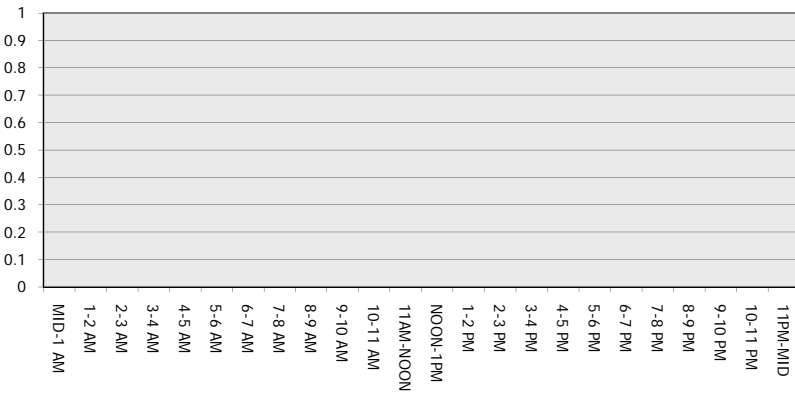
Main Route - Traffic Demand (Vehicles Per Hour)



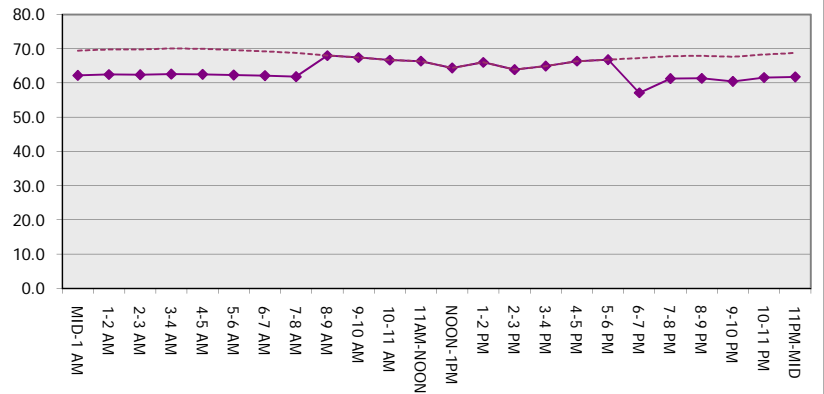
Main Route Average Delay Per Vehicle (Minutes)



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	1026	0.0	3000	1026	0	0.35	0	69.4	62.2	49.7
1-2 AM	615	0.0	3000	615	0	0.36	0	70.0	62.5	49.7
2-3 AM	504	0.0	3000	504	0	0.36	0	70.1	62.6	49.7
3-4 AM	380	0.0	3000	380	0	0.36	0	70.2	62.7	49.7
4-5 AM	390	0.0	3000	390	0	0.36	0	70.2	62.7	49.7
5-6 AM	851	0.0	3000	851	0	0.35	0	69.7	62.3	49.7
6-7 AM	1180	0.0	3000	1180	0	0.35	0	69.2	62.2	49.7
7-8 AM	1478	0.0	3000	1478	0	0.34	0	68.9	61.9	49.7
8-9 AM	2035	0.0	OFF	2035	0	0.00	0	68.2	68.2	68.2
9-10 AM	2582	0.0	OFF	2582	0	0.00	0	67.5	67.5	67.5
10-11 AM	2894	0.0	OFF	2894	0	0.00	0	67.1	67.1	67.1
11AM-NOON	3093	0.0	OFF	3093	0	0.00	0	66.9	66.9	66.9
NOON-1PM	3306	0.0	OFF	3306	0	0.00	0	66.6	66.6	66.6
1-2 PM	3467	0.0	OFF	3467	0	0.00	0	66.4	66.4	66.4
2-3 PM	3386	0.0	OFF	3386	0	0.00	0	66.5	66.5	66.5
3-4 PM	3519	0.0	OFF	3519	0	0.00	0	66.4	66.4	66.4
4-5 PM	3397	0.0	OFF	3397	0	0.00	0	66.5	66.5	66.5
5-6 PM	3472	0.0	OFF	3472	0	0.00	0	66.4	66.4	66.4
6-7 PM	3014	0.0	2999	3014	0	1.26	30	67.0	47.8	37.4
7-8 PM	2736	0.0	3000	2736	0	0.57	0	67.3	57.0	41.8
8-9 PM	2391	0.0	3000	2391	0	0.33	0	67.8	61.2	49.6
9-10 PM	2266	0.0	3000	2266	0	0.33	0	67.9	61.4	49.7
10-11 PM	1873	0.0	3000	1873	0	0.34	0	68.4	61.7	49.7
11PM-MID	1381	0.0	3000	1381	0	0.34	0	69.0	62.0	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	0.0285
MAIN ROUTE WITH WORKS	0.0272
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$2,403
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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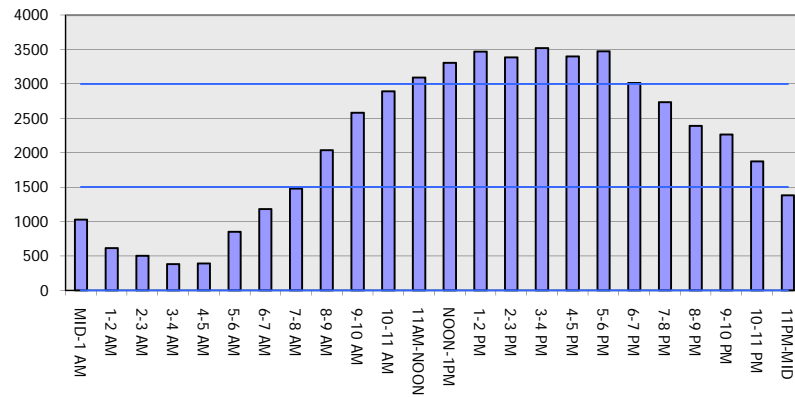
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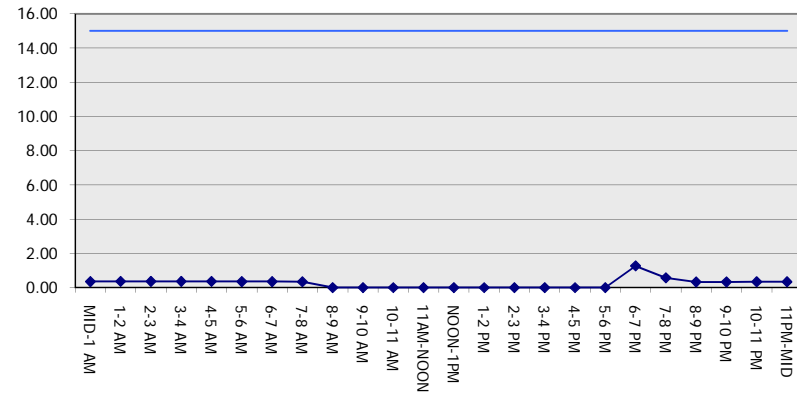
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY EASTBOUND DIRECTION

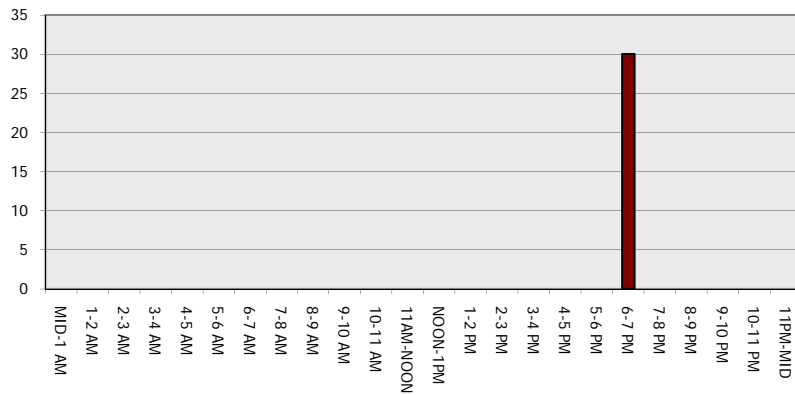
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

