

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

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	1587	0.0	3000	1587	0	0.34	0	68.7	61.9	49.7
1-2 AM	1166	0.0	3000	1166	0	0.35	0	69.3	62.2	49.7
2-3 AM	914	0.0	3000	914	0	0.35	0	69.6	62.3	49.7
3-4 AM	509	0.0	3000	509	0	0.36	0	70.1	62.6	49.7
4-5 AM	465	0.0	3000	465	0	0.36	0	70.2	62.7	49.7
5-6 AM	606	0.0	3000	606	0	0.36	0	70.0	62.5	49.7
6-7 AM	888	0.0	3000	888	0	0.35	0	69.6	62.3	49.7
7-8 AM	1084	0.0	3000	1084	0	0.35	0	69.4	62.2	49.7
8-9 AM	1570	0.0	3000	1570	0	0.34	0	68.8	61.9	49.7
9-10 AM	2359	0.0	OFF	2359	0	0.00	0	67.8	67.8	67.8
10-11 AM	3024	0.0	OFF	3024	0	0.00	0	67.0	67.0	67.0
11AM-NOON	3158	0.0	OFF	3158	0	0.00	0	66.8	66.8	66.8
NOON-1PM	3713	0.0	OFF	3713	0	0.00	0	65.5	65.5	65.5
1-2 PM	4063	0.0	OFF	4063	0	0.00	0	63.1	63.1	63.1
2-3 PM	4041	0.0	OFF	4041	0	0.00	0	63.2	63.2	63.2
3-4 PM	4100	0.0	OFF	4100	0	0.00	0	62.8	62.8	62.8
4-5 PM	3964	0.0	OFF	3964	0	0.00	0	63.8	63.8	63.8
5-6 PM	3394	0.0	OFF	3394	0	0.00	0	66.5	66.5	66.5
6-7 PM	3238	0.0	OFF	3238	0	0.00	0	66.7	66.7	66.7
7-8 PM	2594	0.0	3000	2594	0	0.46	0	67.5	58.7	44.6
8-9 PM	2275	0.0	3000	2275	0	0.33	0	67.9	61.4	49.7
9-10 PM	1908	0.0	3000	1908	0	0.34	0	68.4	61.6	49.7
10-11 PM	1428	0.0	3000	1428	0	0.34	0	68.9	62.0	49.7
11PM-MID	1006	0.0	3000	1006	0	0.35	0	69.5	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	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	0.0295
MAIN ROUTE WITH WORKS	0.0283
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,472
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

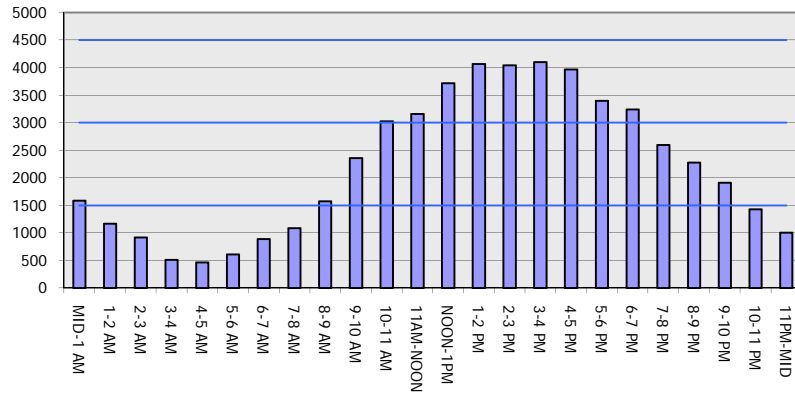
AUGUST

Analyzed for 2009
 Construction Season

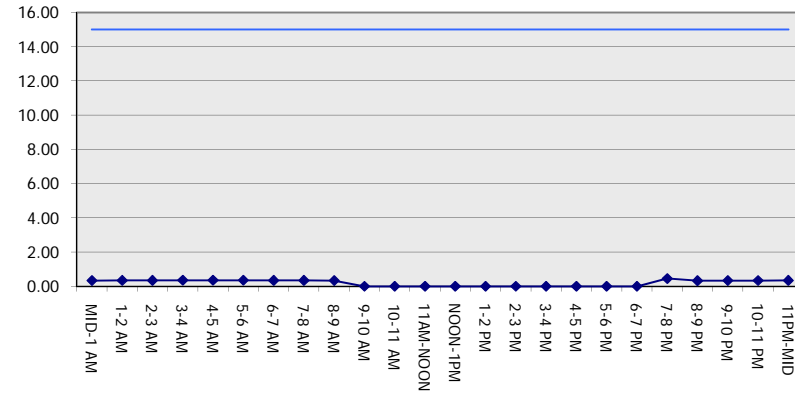
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY WESTBOUND DIRECTION

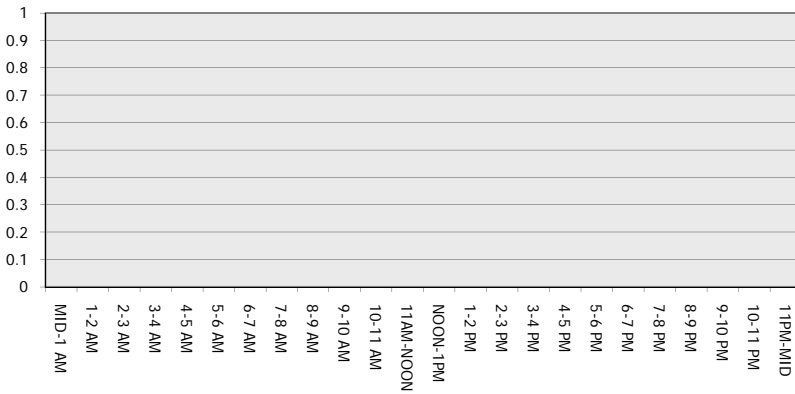
Main Route - Traffic Demand (Vehicles Per Hour)



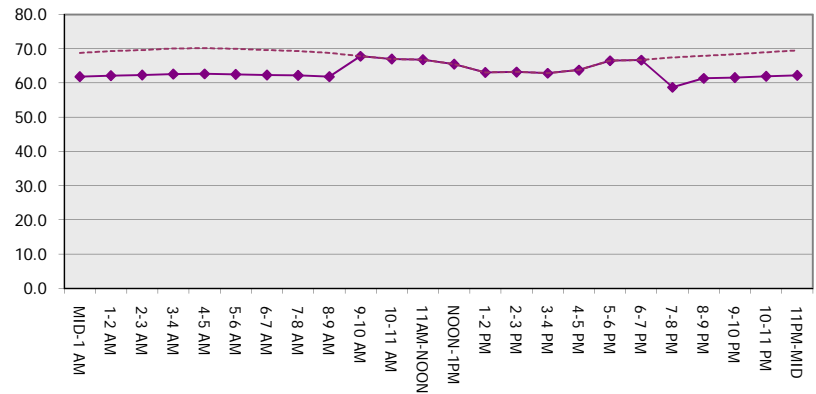
Main Route Average Delay Per Vehicle (Minutes)



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	997	0.0	3000	997	0	0.35	0	69.5	62.3	49.7
1-2 AM	609	0.0	3000	609	0	0.36	0	70.0	62.5	49.7
2-3 AM	426	0.0	3000	426	0	0.36	0	70.2	62.7	49.7
3-4 AM	278	0.0	3000	278	0	0.36	0	70.2	62.7	49.7
4-5 AM	266	0.0	3000	266	0	0.36	0	70.2	62.7	49.7
5-6 AM	416	0.0	3000	416	0	0.36	0	70.2	62.7	49.7
6-7 AM	658	0.0	3000	658	0	0.36	0	69.9	62.5	49.7
7-8 AM	896	0.0	3000	896	0	0.35	0	69.6	62.3	49.7
8-9 AM	1310	0.0	3000	1310	0	0.35	0	69.1	62.0	49.7
9-10 AM	2033	0.0	OFF	2033	0	0.00	0	68.2	68.2	68.2
10-11 AM	2512	0.0	OFF	2512	0	0.00	0	67.6	67.6	67.6
11AM-NOON	3059	0.0	OFF	3059	0	0.00	0	66.9	66.9	66.9
NOON-1PM	3437	0.0	OFF	3437	0	0.00	0	66.4	66.4	66.4
1-2 PM	3251	0.0	OFF	3251	0	0.00	0	66.7	66.7	66.7
2-3 PM	3033	0.0	OFF	3033	0	0.00	0	66.9	66.9	66.9
3-4 PM	3017	0.0	OFF	3017	0	0.00	0	67.0	67.0	67.0
4-5 PM	3016	0.0	OFF	3016	0	0.00	0	67.0	67.0	67.0
5-6 PM	2729	0.0	OFF	2729	0	0.00	0	67.3	67.3	67.3
6-7 PM	2743	0.0	OFF	2743	0	0.00	0	67.3	67.3	67.3
7-8 PM	2386	0.0	3000	2386	0	0.33	0	67.8	61.3	49.7
8-9 PM	2033	0.0	3000	2033	0	0.33	0	68.2	61.5	49.7
9-10 PM	1874	0.0	3000	1874	0	0.34	0	68.4	61.7	49.7
10-11 PM	1386	0.0	3000	1386	0	0.34	0	69.0	62.0	49.7
11PM-MID	1024	0.0	3000	1024	0	0.35	0	69.5	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	0.0242
MAIN ROUTE WITH WORKS	0.0232
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,134
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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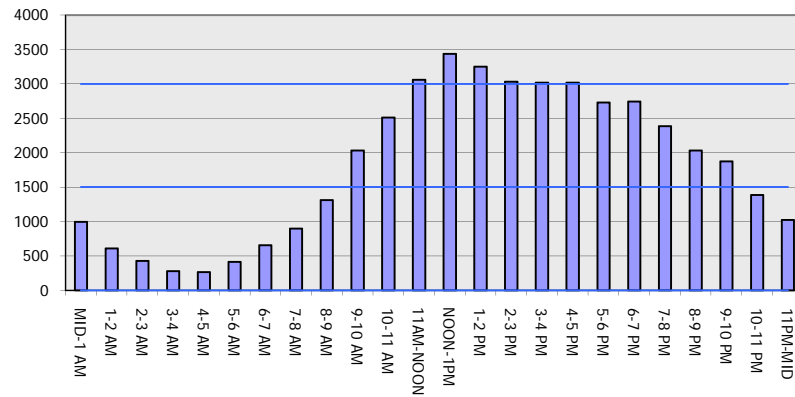
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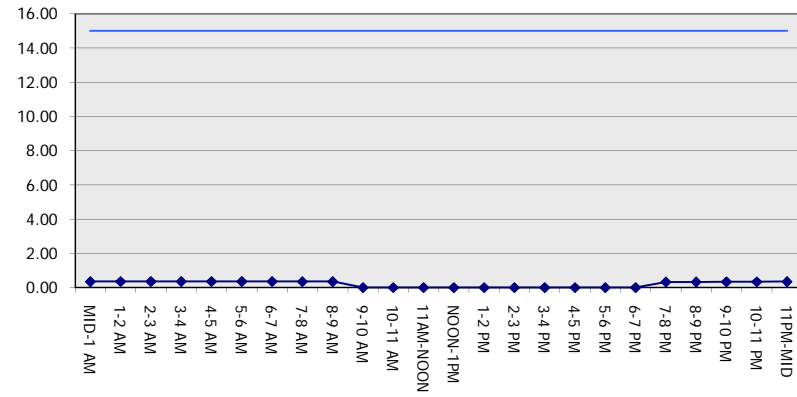
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY EASTBOUND DIRECTION

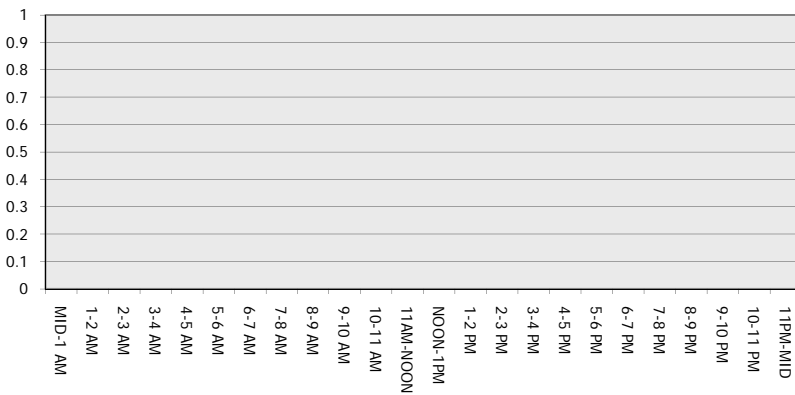
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

