

<b>IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	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	3000	2187	0	0.33	0	68.0	61.4	49.7	
9-10 AM	2648	0.0	2999	2648	0	0.50	0	67.4	58.2	43.7	
10-11 AM	3228	0.0	2999	3228	0	2.09	86	66.7	40.1	37.3	
11AM-NOON	3525	0.0	3000	3525	0	8.72	470	66.4	17.8	37.3	
NOON-1PM	3869	0.0	2999	3045	825	15.80+	838	64.4	12.3	37.3	
1-2 PM	3635	0.0	3000	3007	627	15.81+	834	66.0	12.3	37.3	
2-3 PM	3946	0.0	3000	3012	934	15.72+	835	63.9	12.3	37.3	
3-4 PM	3789	0.0	3000	3004	786	15.76+	834	65.0	12.3	37.3	
4-5 PM	3519	0.0	3000	3003	517	15.82+	833	66.4	12.3	37.3	
5-6 PM	3157	0.0	3000	3002	155	15.82+	832	66.8	12.3	37.3	
6-7 PM	2735	0.0	2999	2735	0	13.69+	717	67.3	13.2	37.3	
7-8 PM	2360	0.0	2999	2360	0	3.82	259	67.8	30.3	42.8	
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	

+ 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	0.0301
MAIN ROUTE WITH WORKS	0.0247
'DIVERSION'	0.0050
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$122,464
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding User-Specified Maximum

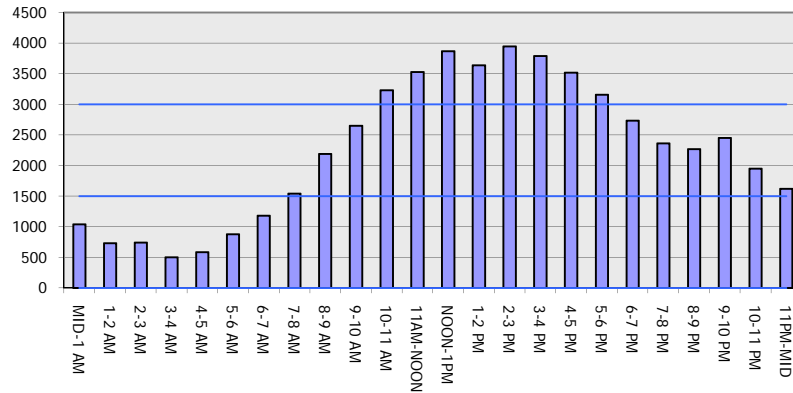
**IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)**  
**CONTINUOUS (24 HOUR) CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**

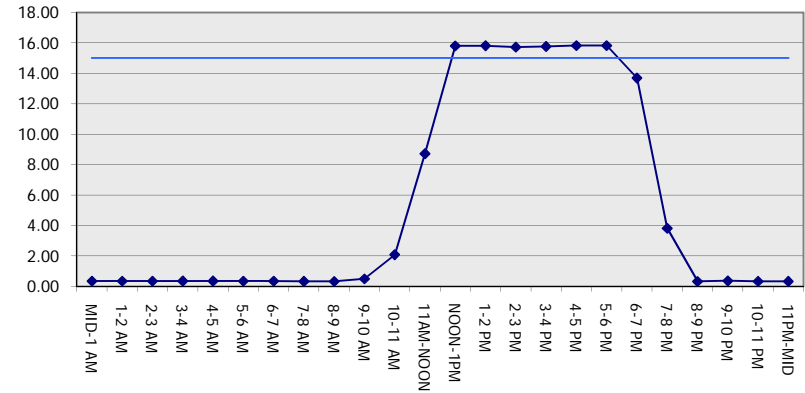
Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY WESTBOUND DIRECTION**

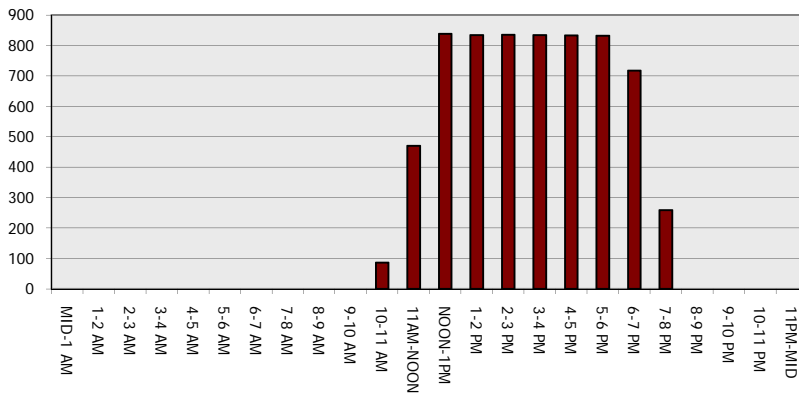
**Main Route - Traffic Demand (Vehicles Per Hour)**



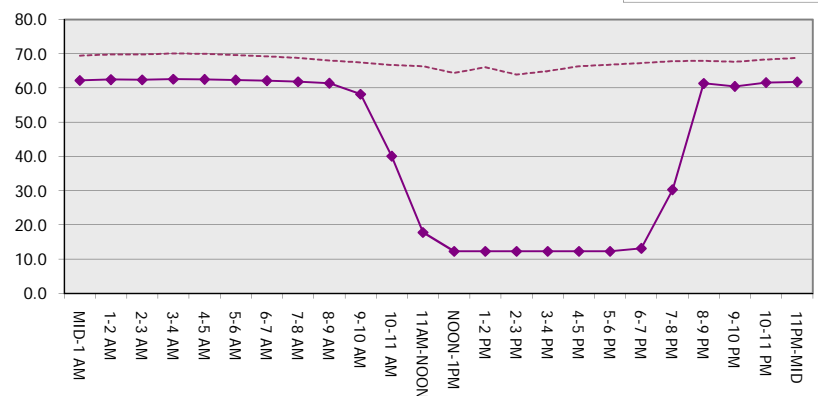
**Main Route Average Delay Per Vehicle (Minutes)**



**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	3000	2035	0	0.33	0	68.2	61.5	49.7
9-10 AM	2582	0.0	3000	2582	0	0.46	0	67.5	58.9	44.9
10-11 AM	2894	0.0	2999	2894	0	0.66	0	67.1	55.5	39.0
11AM-NOON	3093	0.0	2999	3093	0	1.30	33	66.9	47.3	37.3
NOON-1PM	3306	0.0	3000	3306	0	4.72	234	66.6	26.7	37.3
1-2 PM	3467	0.0	3000	3467	0	11.85+	630	66.4	14.5	37.3
2-3 PM	3386	0.0	2999	2993	392	15.82+	833	66.5	12.3	37.3
3-4 PM	3519	0.0	2999	2995	525	15.82+	833	66.4	12.3	37.3
4-5 PM	3397	0.0	2999	2996	401	15.82+	833	66.5	12.3	37.3
5-6 PM	3472	0.0	2999	2997	475	15.82+	833	66.4	12.3	37.3
6-7 PM	3014	0.0	2999	2956	58	15.73+	826	67.0	12.4	37.3
7-8 PM	2736	0.0	2999	2736	0	13.19+	689	67.3	13.5	37.3
8-9 PM	2391	0.0	2999	2391	0	3.82	252	67.8	30.3	42.5
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

+ 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	0.0285
MAIN ROUTE WITH WORKS	0.0242
'DIVERSION'	0.0024

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$106,165
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding User-Specified Maximum

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**AUGUST**  
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 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY EASTBOUND DIRECTION**

