

<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>OCTOBER</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	1085	0.0	3000	1085	0	0.35	0	69.4	62.2	49.7	
1-2 AM	762	0.0	3000	762	0	0.35	0	69.8	62.4	49.7	
2-3 AM	778	0.0	3000	778	0	0.35	0	69.7	62.4	49.7	
3-4 AM	544	0.0	3000	544	0	0.36	0	70.0	62.6	49.7	
4-5 AM	575	0.0	3000	575	0	0.36	0	70.0	62.5	49.7	
5-6 AM	881	0.0	3000	881	0	0.35	0	69.6	62.3	49.7	
6-7 AM	1338	0.0	3000	1338	0	0.35	0	69.1	62.0	49.7	
7-8 AM	1783	0.0	3000	1783	0	0.34	0	68.5	61.7	49.7	
8-9 AM	2424	0.0	2999	2424	0	0.39	0	67.8	60.2	47.4	
9-10 AM	2922	0.0	2999	2922	0	0.74	4	67.1	54.2	38.8	
10-11 AM	3333	0.0	3000	3333	0	3.29	161	66.6	32.5	37.3	
11AM-NOON	3661	0.0	3000	3514	147	11.89+	642	65.8	14.5	37.3	
NOON-1PM	3920	0.0	3000	2993	927	15.72+	835	64.1	12.3	37.3	
1-2 PM	3685	0.0	2999	2995	690	15.80+	834	65.7	12.3	37.3	
2-3 PM	3796	0.0	2999	2996	800	15.76+	834	64.9	12.3	37.3	
3-4 PM	3591	0.0	2999	2997	594	15.82+	833	66.3	12.3	37.3	
4-5 PM	3529	0.0	2999	2997	531	15.82+	833	66.3	12.3	37.3	
5-6 PM	3254	0.0	3000	2998	256	15.82+	832	66.7	12.3	37.3	
6-7 PM	2940	0.0	2999	2907	33	15.45+	811	67.1	12.5	37.3	
7-8 PM	2345	0.0	2999	2345	0	7.76	450	67.8	19.5	40.7	
8-9 PM	1996	0.0	3000	1996	0	0.40	4	68.2	60.4	49.7	
9-10 PM	1968	0.0	3000	1968	0	0.34	0	68.3	61.5	49.7	
10-11 PM	2108	0.0	3000	2108	0	0.33	0	68.1	61.5	49.7	
11PM-MID	1493	0.0	3000	1493	0	0.34	0	68.9	61.9	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	0.0305
MAIN ROUTE WITH WORKS	0.0249
'DIVERSION'	0.0051
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$131,325
CONGESTED HOURS PER DAY*	8

\*Delays Exceeding User-Specified Maximum

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**CONTINUOUS (24 HOUR) CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

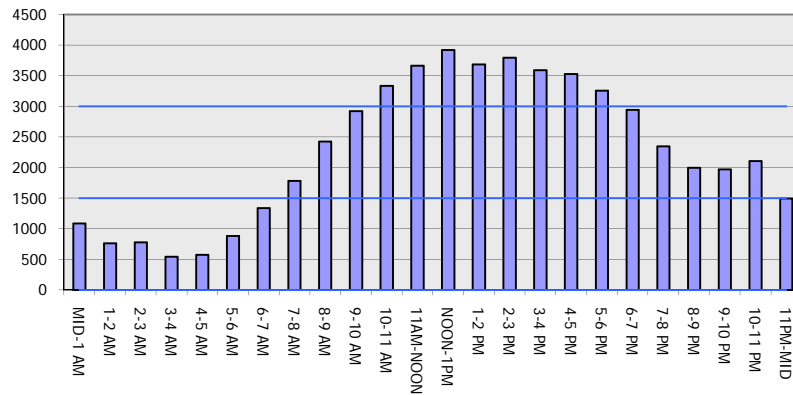
**OCTOBER**

Analyzed for 2009  
 Construction Season

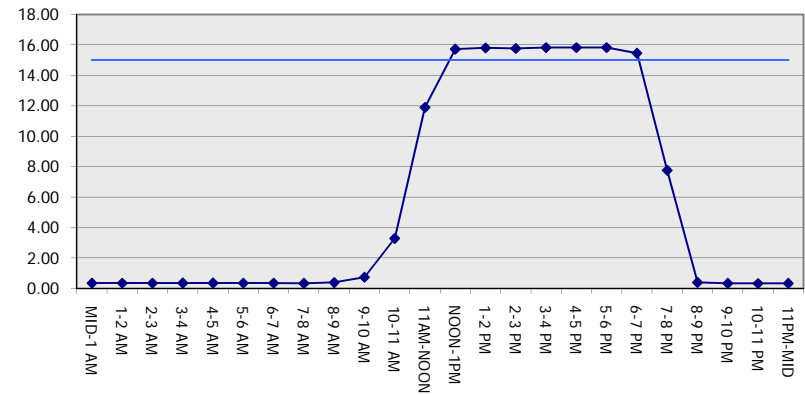
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SATURDAY WESTBOUND DIRECTION**

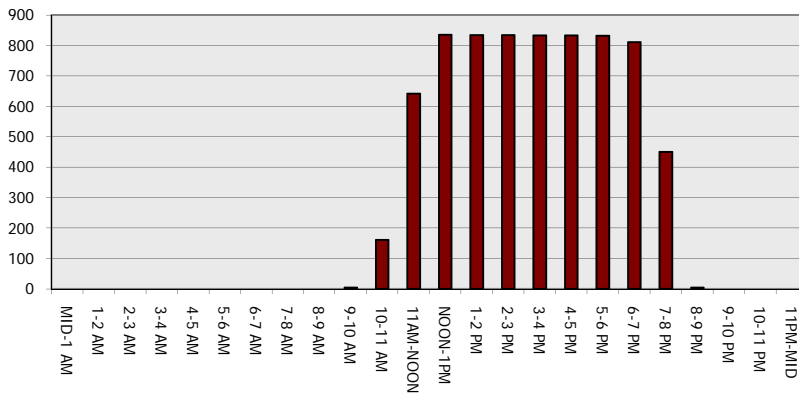
**Main Route - Traffic Demand (Vehicles Per Hour)**



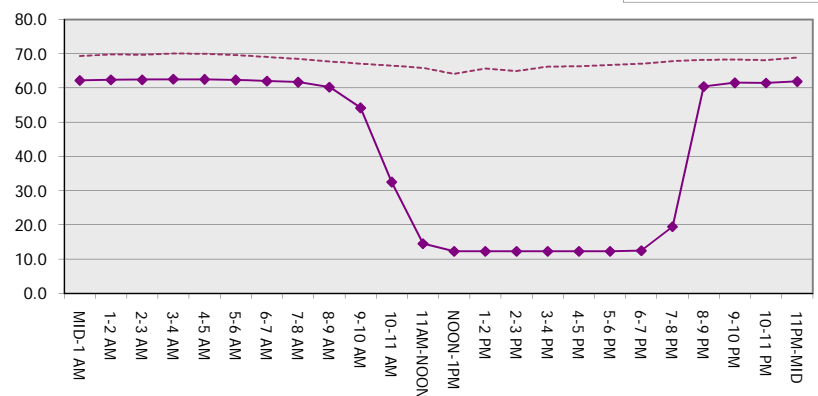
**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**



<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>OCTOBER</b>
	Analyzed for 2009 Construction Season

**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	971	0.0	3000	971	0	0.35	0	69.6	62.3	49.7
1-2 AM	519	0.0	3000	519	0	0.36	0	70.1	62.6	49.7
2-3 AM	433	0.0	3000	433	0	0.36	0	70.2	62.7	49.7
3-4 AM	372	0.0	3000	372	0	0.36	0	70.2	62.7	49.7
4-5 AM	446	0.0	3000	446	0	0.36	0	70.2	62.7	49.7
5-6 AM	815	0.0	3000	815	0	0.35	0	69.7	62.4	49.7
6-7 AM	1254	0.0	3000	1254	0	0.35	0	69.2	62.1	49.7
7-8 AM	1721	0.0	3000	1721	0	0.34	0	68.6	61.7	49.7
8-9 AM	2307	0.0	3000	2307	0	0.33	0	67.9	61.4	49.7
9-10 AM	2661	0.0	2999	2661	0	0.51	0	67.4	58.0	43.3
10-11 AM	3001	0.0	2999	3001	0	0.87	9	67.0	52.5	37.8
11AM-NOON	3267	0.0	3000	3267	0	3.32	156	66.7	32.4	37.3
NOON-1PM	3497	0.0	3000	3497	0	10.30	551	66.4	15.8	37.3
1-2 PM	3346	0.0	2999	3006	339	15.82+	833	66.6	12.3	37.3
2-3 PM	3435	0.0	3000	3005	430	15.82+	833	66.4	12.3	37.3
3-4 PM	3613	0.0	3000	3004	609	15.82+	833	66.2	12.3	37.3
4-5 PM	3727	0.0	3000	3003	724	15.78+	834	65.4	12.3	37.3
5-6 PM	3742	0.0	3000	3003	739	15.78+	834	65.3	12.3	37.3
6-7 PM	3513	0.0	3000	3002	511	15.82+	833	66.4	12.3	37.3
7-8 PM	2932	0.0	3000	2893	39	15.28+	802	67.1	12.5	37.3
8-9 PM	2338	0.0	2999	2338	0	6.90	407	67.8	21.1	40.8
9-10 PM	2296	0.0	3000	2296	0	0.37	2	67.9	60.7	49.7
10-11 PM	2059	0.0	3000	2059	0	0.33	0	68.2	61.5	49.7
11PM-MID	1614	0.0	3000	1614	0	0.34	0	68.7	61.9	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	0.0300
MAIN ROUTE WITH WORKS	0.0248
'DIVERSION'	0.0044

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$126,963
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding User-Specified Maximum

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**CONTINUOUS (24 HOUR) CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

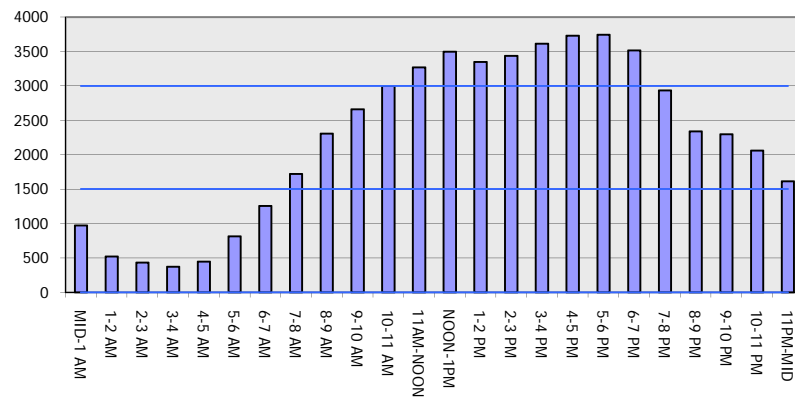
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

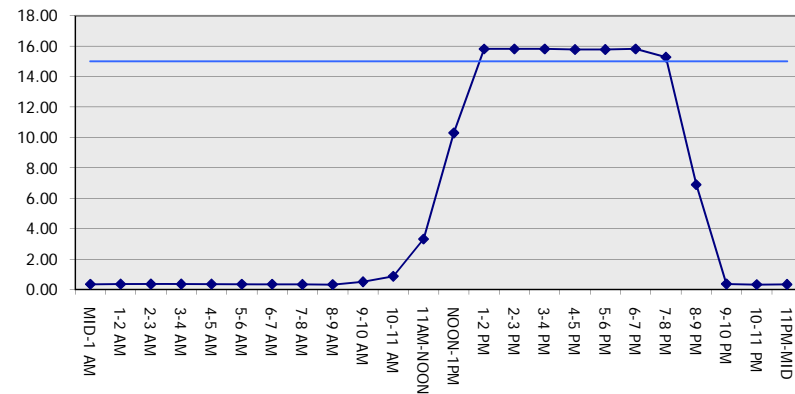
**SATURDAY**

**EASTBOUND DIRECTION**

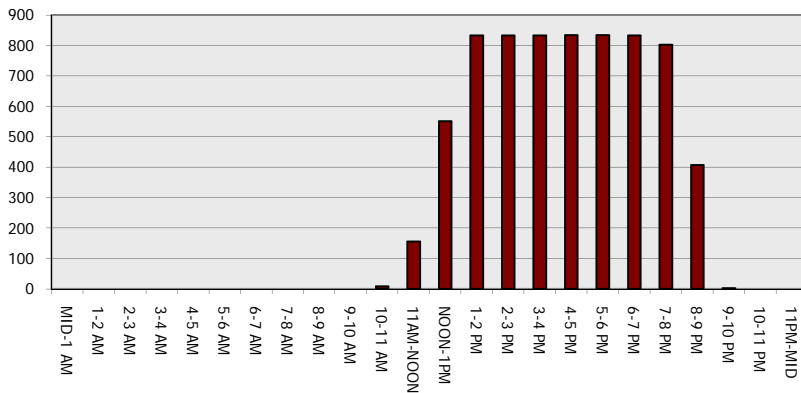
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**

