

<b>IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY 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	705	0.0	1500	705	0	1.54	52	69.9	46.1	42.5	
1-2 AM	510	0.0	1500	510	0	0.53	0	70.1	59.5	43.5	
2-3 AM	500	0.0	1500	500	0	0.53	0	70.1	59.5	43.5	
3-4 AM	444	0.0	1500	444	0	0.53	0	70.2	59.7	43.7	
4-5 AM	732	0.0	1500	732	0	0.56	0	69.8	58.9	42.7	
5-6 AM	1702	0.0	OFF	1702	0	0.00	0	68.6	68.6	68.6	
6-7 AM	2956	0.0	OFF	2956	0	0.00	0	67.1	67.1	67.1	
7-8 AM	3404	0.0	OFF	3404	0	0.00	0	66.5	66.5	66.5	
8-9 AM	2984	0.0	OFF	2984	0	0.00	0	67.0	67.0	67.0	
9-10 AM	2791	0.0	OFF	2791	0	0.00	0	67.3	67.3	67.3	
10-11 AM	2949	0.0	OFF	2949	0	0.00	0	67.1	67.1	67.1	
11AM-NOON	3378	0.0	OFF	3378	0	0.00	0	66.5	66.5	66.5	
NOON-1PM	3859	0.0	OFF	3859	0	0.00	0	64.5	64.5	64.5	
1-2 PM	4037	0.0	OFF	4037	0	0.00	0	63.3	63.3	63.3	
2-3 PM	4812	0.0	OFF	4812	0	0.00	0	58.0	58.0	58.0	
3-4 PM	5504	0.0	OFF	5504	0	0.00	0	53.3	53.3	53.3	
4-5 PM	5954	0.0	OFF	5954	0	0.00	0	50.2	50.2	50.2	
5-6 PM	5574	0.0	OFF	5574	0	0.00	0	52.8	52.8	52.8	
6-7 PM	4035	0.0	OFF	4035	0	0.00	0	63.3	63.3	63.3	
7-8 PM	2917	0.0	1499	1550	1367	16.50+	412	67.1	10.7	36.6	
8-9 PM	2203	0.0	1499	1893	310	12.54+	323	68.0	13.4	30.8	
9-10 PM	2257	0.0	1500	1500	757	16.33+	400	67.9	10.8	30.8	
10-11 PM	1960	0.0	1500	1487	473	16.30+	398	68.3	10.8	30.8	
11PM-MID	1421	0.0	1499	1338	82	14.69+	359	69.0	11.9	30.8	

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

+ 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	0.0376
MAIN ROUTE WITH WORKS	0.0353
'DIVERSION'	0.0039
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$39,361
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

**IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

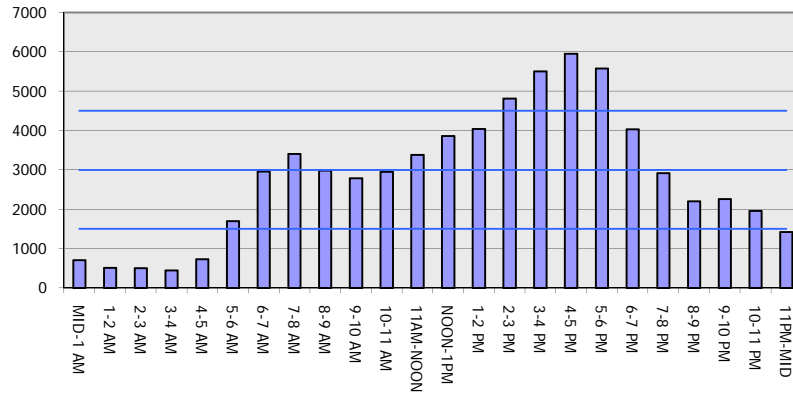
**OCTOBER**

Analyzed for 2009  
 Construction Season

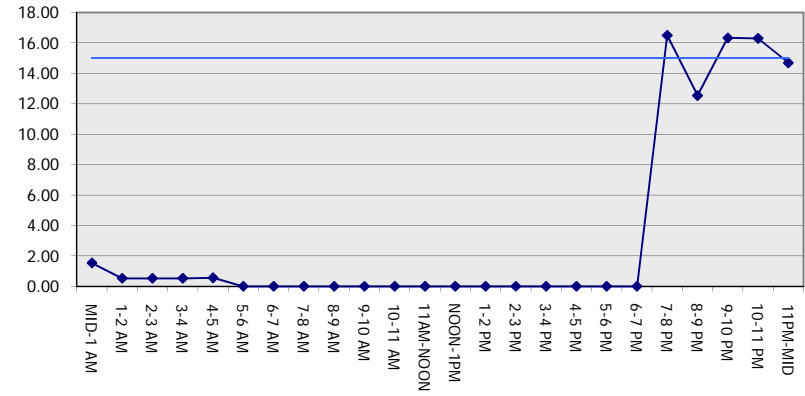
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY WESTBOUND DIRECTION**

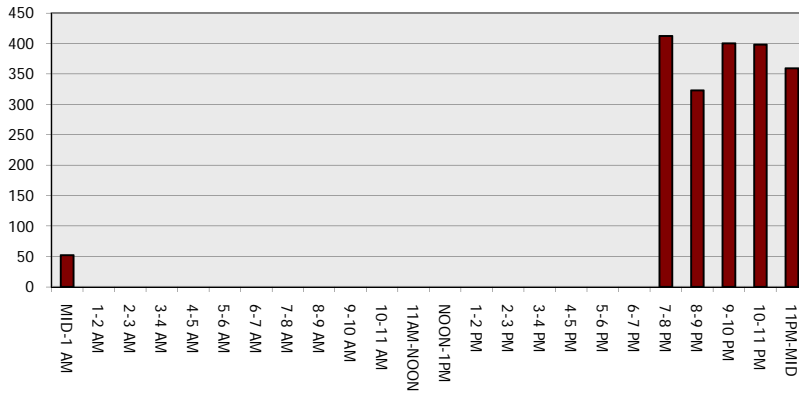
**Main Route - Traffic Demand (Vehicles Per Hour)**



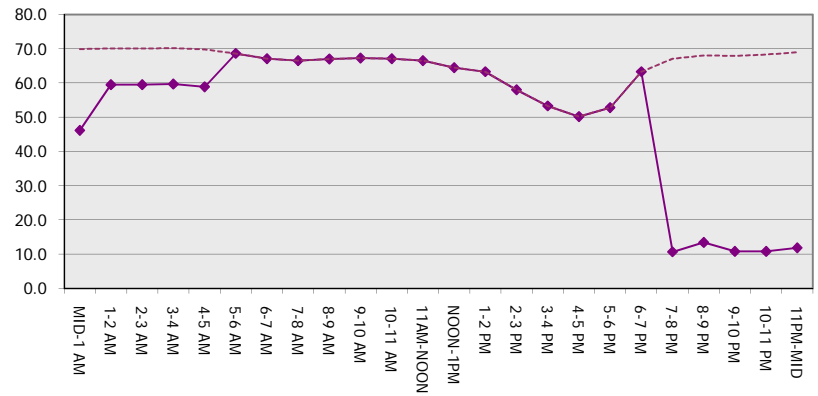
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



<b>IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY 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	678	0.0	1500	678	0	2.05	82	69.9	41.5	42.2
1-2 AM	399	0.0	1500	399	0	0.52	0	70.2	59.7	43.9
2-3 AM	363	0.0	1500	363	0	0.52	0	70.2	59.8	44.0
3-4 AM	399	0.0	1500	399	0	0.52	0	70.2	59.7	43.9
4-5 AM	599	0.0	1500	599	0	0.54	0	70.0	59.2	43.2
5-6 AM	1951	0.0	OFF	1951	0	0.00	0	68.3	68.3	68.3
6-7 AM	4634	0.0	OFF	4634	0	0.00	0	59.2	59.2	59.2
7-8 AM	5979	0.0	OFF	5979	0	0.00	0	50.0	50.0	50.0
8-9 AM	4554	0.0	OFF	4554	0	0.00	0	59.7	59.7	59.7
9-10 AM	3397	0.0	OFF	3397	0	0.00	0	66.5	66.5	66.5
10-11 AM	3245	0.0	OFF	3245	0	0.00	0	66.7	66.7	66.7
11AM-NOON	3447	0.0	OFF	3447	0	0.00	0	66.4	66.4	66.4
NOON-1PM	3541	0.0	OFF	3541	0	0.00	0	66.3	66.3	66.3
1-2 PM	3542	0.0	OFF	3542	0	0.00	0	66.3	66.3	66.3
2-3 PM	4163	0.0	OFF	4163	0	0.00	0	62.4	62.4	62.4
3-4 PM	4189	0.0	OFF	4189	0	0.00	0	62.2	62.2	62.2
4-5 PM	4001	0.0	OFF	4001	0	0.00	0	63.5	63.5	63.5
5-6 PM	4294	0.0	OFF	4294	0	0.00	0	61.5	61.5	61.5
6-7 PM	3836	0.0	OFF	3836	0	0.00	0	64.6	64.6	64.6
7-8 PM	3152	0.0	1499	1550	1602	16.48+	412	66.8	10.7	36.6
8-9 PM	2627	0.0	1499	1672	955	13.75+	360	67.4	12.4	35.5
9-10 PM	2584	0.0	1499	1683	901	15.71+	386	67.5	11.2	30.8
10-11 PM	1935	0.0	1500	1500	435	16.35+	400	68.3	10.8	30.8
11PM-MID	1519	0.0	1500	1431	88	15.78+	385	68.9	11.1	30.8

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

+ 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	0.0384
MAIN ROUTE WITH WORKS	0.0355
'DIVERSION'	0.0051

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$43,793
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

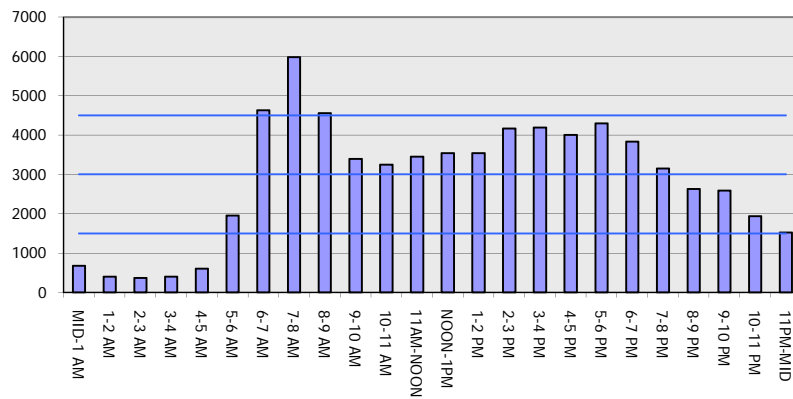
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**NIGHTTIME 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

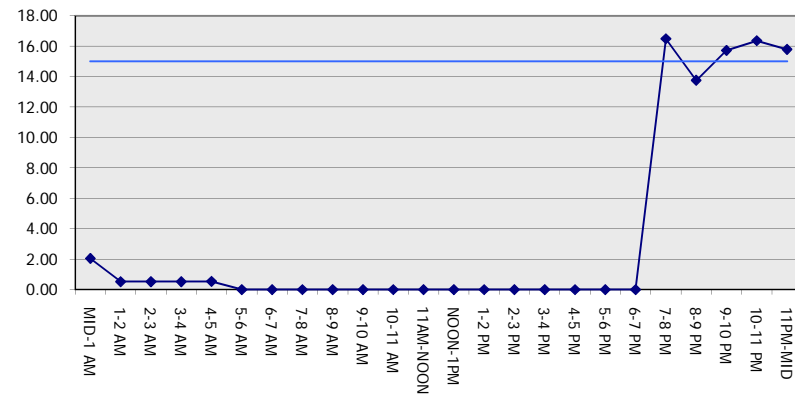
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 Construction Season

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

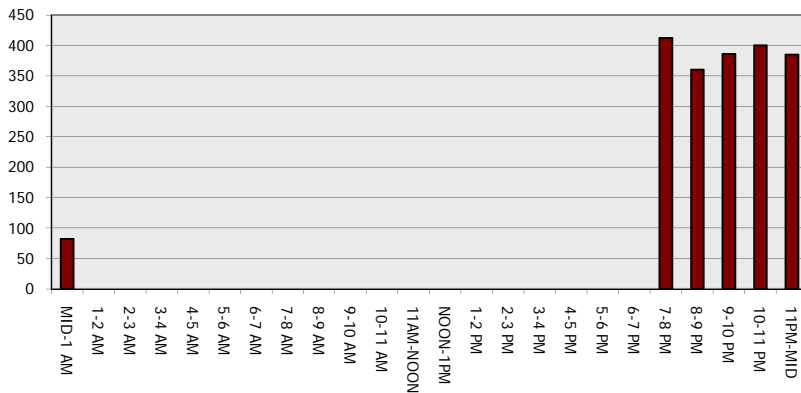
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

