

|  |  |
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| <b>IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)</b><br><b>OFF-PEAK DAY CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>OCTOBER</b>                           |
|  | Analyzed for 2009<br>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       | OFF            | 1085       | 0           | 0.00                  | 0                     | 69.4              | 69.4           | 69.4 |  |
| 1-2 AM      | 762                          | 0.0       | OFF            | 762        | 0           | 0.00                  | 0                     | 69.8              | 69.8           | 69.8 |  |
| 2-3 AM      | 778                          | 0.0       | OFF            | 778        | 0           | 0.00                  | 0                     | 69.7              | 69.7           | 69.7 |  |
| 3-4 AM      | 544                          | 0.0       | OFF            | 544        | 0           | 0.00                  | 0                     | 70.0              | 70.0           | 70.0 |  |
| 4-5 AM      | 575                          | 0.0       | OFF            | 575        | 0           | 0.00                  | 0                     | 70.0              | 70.0           | 70.0 |  |
| 5-6 AM      | 881                          | 0.0       | OFF            | 881        | 0           | 0.00                  | 0                     | 69.6              | 69.6           | 69.6 |  |
| 6-7 AM      | 1338                         | 0.0       | OFF            | 1338       | 0           | 0.00                  | 0                     | 69.1              | 69.1           | 69.1 |  |
| 7-8 AM      | 1783                         | 0.0       | OFF            | 1783       | 0           | 0.00                  | 0                     | 68.5              | 68.5           | 68.5 |  |
| 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       | OFF            | 2940       | 0           | 1.26                  | 115                   | 67.1              | 47.9           | 47.9 |  |
| 7-8 PM      | 2345                         | 0.0       | OFF            | 2345       | 0           | 0.00                  | 0                     | 67.8              | 67.8           | 67.8 |  |
| 8-9 PM      | 1996                         | 0.0       | OFF            | 1996       | 0           | 0.00                  | 0                     | 68.2              | 68.2           | 68.2 |  |
| 9-10 PM     | 1968                         | 0.0       | OFF            | 1968       | 0           | 0.00                  | 0                     | 68.3              | 68.3           | 68.3 |  |
| 10-11 PM    | 2108                         | 0.0       | OFF            | 2108       | 0           | 0.00                  | 0                     | 68.1              | 68.1           | 68.1 |  |
| 11PM-MID    | 1493                         | 0.0       | OFF            | 1493       | 0           | 0.00                  | 0                     | 68.9              | 68.9           | 68.9 |  |

"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           | 0.0305    |
| MAIN ROUTE WITH WORKS              | 0.0263    |
| 'DIVERSION'                        | 0.0051    |
| PIA: Personal Injury Accidents     |           |
| IMPACTS ON ROAD USERS              |           |
| ROAD USER COSTS PER DAY            | \$108,597 |
| CONGESTED HOURS PER DAY*           | 7         |

\*Delays Exceeding User-Specified Maximum

**IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)**  
**OFF-PEAK DAY CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

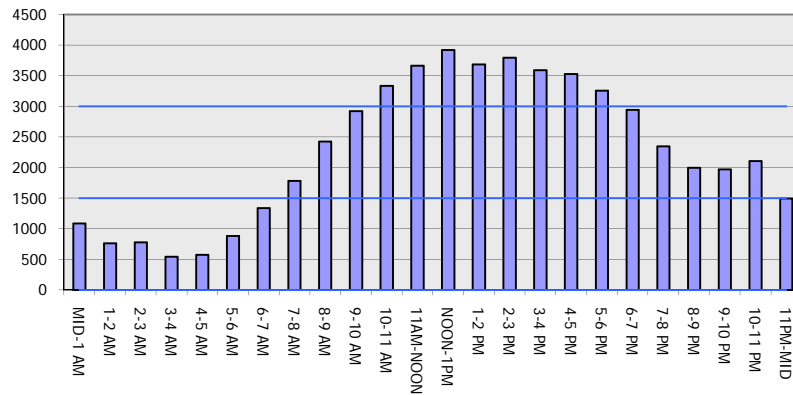
**OCTOBER**

Analyzed for 2009  
 Construction Season

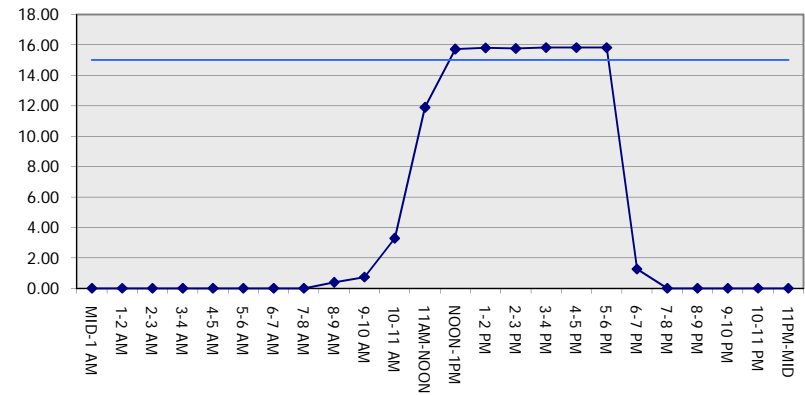
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SATURDAY WESTBOUND DIRECTION**

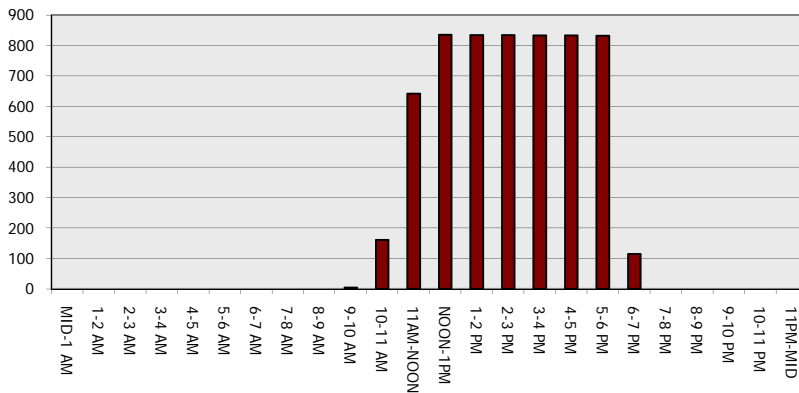
**Main Route - Traffic Demand (Vehicles Per Hour)**



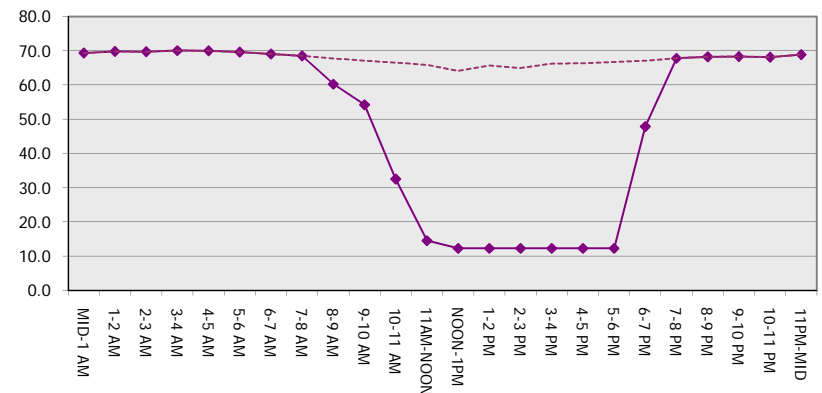
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



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| <b>IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)</b><br><b>OFF-PEAK DAY CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>OCTOBER</b>                           |
|  | Analyzed for 2009<br>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       | OFF            | 971        | 0           | 0.00                  | 0                     | 69.6              | 69.6           | 69.6 |
| 1-2 AM      | 519                          | 0.0       | OFF            | 519        | 0           | 0.00                  | 0                     | 70.1              | 70.1           | 70.1 |
| 2-3 AM      | 433                          | 0.0       | OFF            | 433        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 3-4 AM      | 372                          | 0.0       | OFF            | 372        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 4-5 AM      | 446                          | 0.0       | OFF            | 446        | 0           | 0.00                  | 0                     | 70.2              | 70.2           | 70.2 |
| 5-6 AM      | 815                          | 0.0       | OFF            | 815        | 0           | 0.00                  | 0                     | 69.7              | 69.7           | 69.7 |
| 6-7 AM      | 1254                         | 0.0       | OFF            | 1254       | 0           | 0.00                  | 0                     | 69.2              | 69.2           | 69.2 |
| 7-8 AM      | 1721                         | 0.0       | OFF            | 1721       | 0           | 0.00                  | 0                     | 68.6              | 68.6           | 68.6 |
| 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       | OFF            | 3513       | 0           | 1.63                  | 136                   | 66.4              | 43.8           | 43.8 |
| 7-8 PM      | 2932                         | 0.0       | OFF            | 2932       | 0           | 0.00                  | 0                     | 67.1              | 67.1           | 67.1 |
| 8-9 PM      | 2338                         | 0.0       | OFF            | 2338       | 0           | 0.00                  | 0                     | 67.8              | 67.8           | 67.8 |
| 9-10 PM     | 2296                         | 0.0       | OFF            | 2296       | 0           | 0.00                  | 0                     | 67.9              | 67.9           | 67.9 |
| 10-11 PM    | 2059                         | 0.0       | OFF            | 2059       | 0           | 0.00                  | 0                     | 68.2              | 68.2           | 68.2 |
| 11PM-MID    | 1614                         | 0.0       | OFF            | 1614       | 0           | 0.00                  | 0                     | 68.7              | 68.7           | 68.7 |

"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           | 0.0300 |
| MAIN ROUTE WITH WORKS              | 0.0264 |
| 'DIVERSION'                        | 0.0037 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |          |
|-------------------------------|----------|
| ROAD USER COSTS PER DAY       | \$91,044 |
| CONGESTED HOURS PER DAY*      | 5        |

\*Delays Exceeding User-Specified Maximum

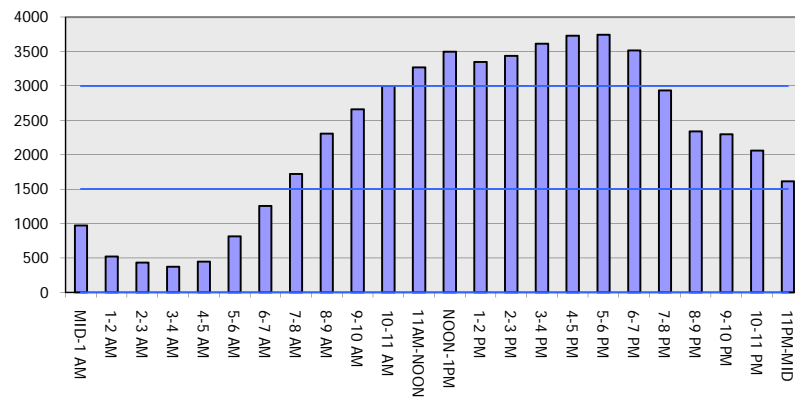
**IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)**  
**OFF-PEAK DAY CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

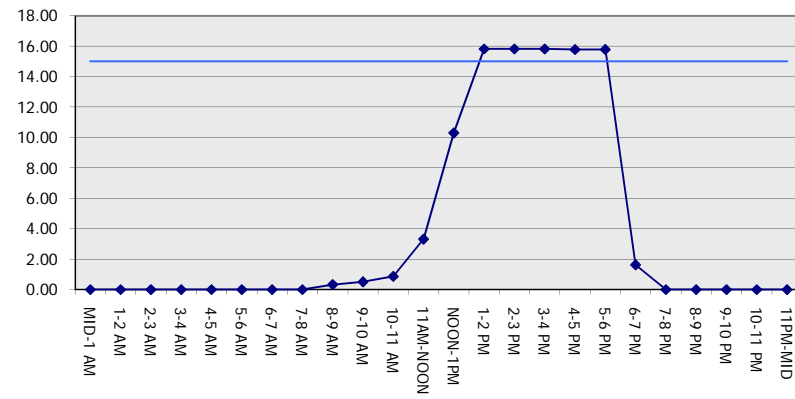
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY EASTBOUND DIRECTION**

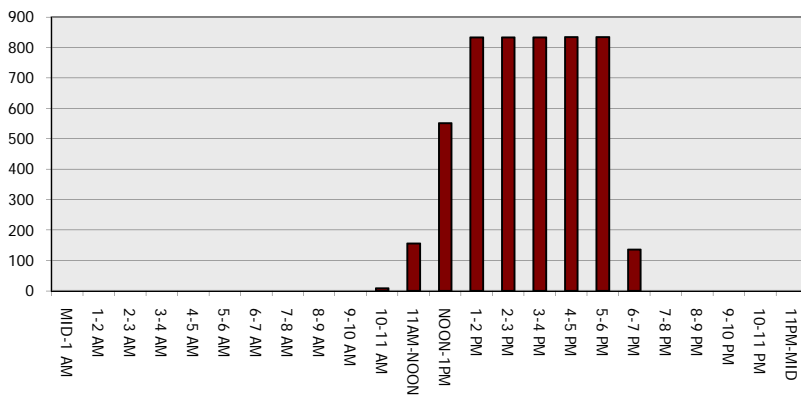
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

