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| <b>IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 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**

MON-THUR                      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    | 591                          | 0.0       | 3000           | 591        | 0           | 0.36                  | 0                     | 70.0              | 62.5           | 49.7 |
| 1-2 AM      | 435                          | 0.0       | 3000           | 435        | 0           | 0.36                  | 0                     | 70.2              | 62.7           | 49.7 |
| 2-3 AM      | 372                          | 0.0       | 3000           | 372        | 0           | 0.36                  | 0                     | 70.2              | 62.7           | 49.7 |
| 3-4 AM      | 385                          | 0.0       | 3000           | 385        | 0           | 0.36                  | 0                     | 70.2              | 62.7           | 49.7 |
| 4-5 AM      | 738                          | 0.0       | 3000           | 738        | 0           | 0.35                  | 0                     | 69.8              | 62.5           | 49.7 |
| 5-6 AM      | 1721                         | 0.0       | 3000           | 1721       | 0           | 0.34                  | 0                     | 68.6              | 61.7           | 49.7 |
| 6-7 AM      | 2945                         | 0.0       | 2999           | 2945       | 0           | 0.94                  | 19                    | 67.1              | 51.6           | 39.5 |
| 7-8 AM      | 3381                         | 0.0       | 3000           | 3381       | 0           | 5.19                  | 267                   | 66.5              | 25.2           | 37.3 |
| 8-9 AM      | 2912                         | 0.0       | 2999           | 2912       | 0           | 8.63                  | 436                   | 67.1              | 17.8           | 37.3 |
| 9-10 AM     | 2638                         | 0.0       | 2999           | 2638       | 0           | 3.78                  | 196                   | 67.4              | 30.4           | 39.0 |
| 10-11 AM    | 2649                         | 0.0       | 3000           | 2649       | 0           | 0.50                  | 0                     | 67.4              | 58.1           | 43.5 |
| 11AM-NOON   | 2950                         | 0.0       | 2999           | 2950       | 0           | 0.74                  | 2                     | 67.1              | 54.2           | 38.3 |
| NOON-1PM    | 3238                         | 0.0       | 3000           | 3238       | 0           | 2.62                  | 116                   | 66.7              | 36.4           | 37.3 |
| 1-2 PM      | 3435                         | 0.0       | 2999           | 3435       | 0           | 8.18                  | 433                   | 66.4              | 18.5           | 37.3 |
| 2-3 PM      | 4343                         | 0.0       | 2999           | 3133       | 1210        | 15.66+                | 841                   | 61.2              | 12.2           | 37.3 |
| 3-4 PM      | 5297                         | 0.0       | 2999           | 3000       | 2297        | 15.48+                | 857                   | 54.6              | 12.2           | 37.3 |
| 4-5 PM      | 5621                         | 0.0       | 3000           | 3000       | 2620        | 15.29+                | 857                   | 52.5              | 12.2           | 37.3 |
| 5-6 PM      | 5635                         | 0.0       | 3000           | 3000       | 2635        | 15.28+                | 857                   | 52.4              | 12.2           | 37.3 |
| 6-7 PM      | 4085                         | 0.0       | 3000           | 3022       | 1062        | 15.76+                | 841                   | 63.0              | 12.2           | 37.3 |
| 7-8 PM      | 2725                         | 0.0       | 2999           | 2716       | 9           | 14.38+                | 756                   | 67.4              | 12.9           | 37.3 |
| 8-9 PM      | 2171                         | 0.0       | 2999           | 2171       | 0           | 2.62                  | 208                   | 68.1              | 36.8           | 45.6 |
| 9-10 PM     | 1888                         | 0.0       | 3000           | 1888       | 0           | 0.34                  | 0                     | 68.4              | 61.6           | 49.7 |
| 10-11 PM    | 1409                         | 0.0       | 3000           | 1409       | 0           | 0.34                  | 0                     | 69.0              | 62.0           | 49.7 |
| 11PM-MID    | 937                          | 0.0       | 3000           | 937        | 0           | 0.35                  | 0                     | 69.6              | 62.3           | 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                      | 0.0348    |
| MAIN ROUTE WITH WORKS                         | 0.0258    |
| 'DIVERSION'                                   | 0.0127    |
| <small>PIA: Personal Injury Accidents</small> |           |
| IMPACTS ON ROAD USERS                         |           |
| ROAD USER COSTS PER DAY                       | \$115,998 |
| CONGESTED HOURS PER DAY*                      | 6         |

\*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)**

**OCTOBER**

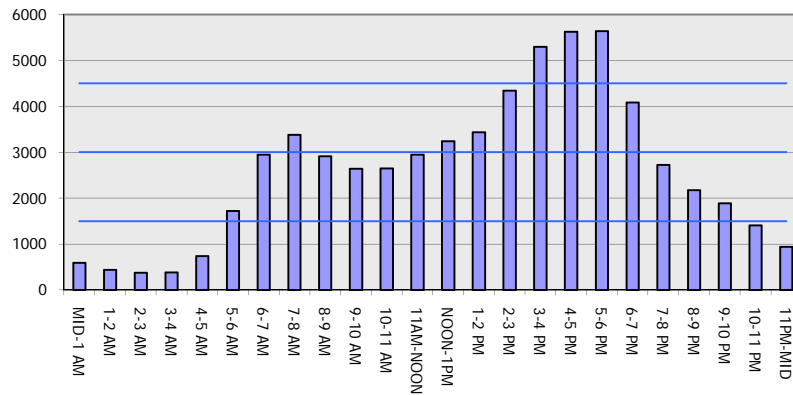
Analyzed for 2009  
 Construction Season

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

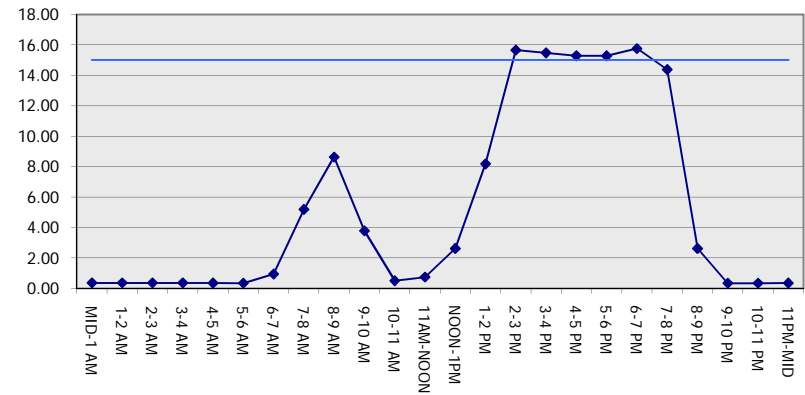
**MON-THUR**

**WESTBOUND DIRECTION**

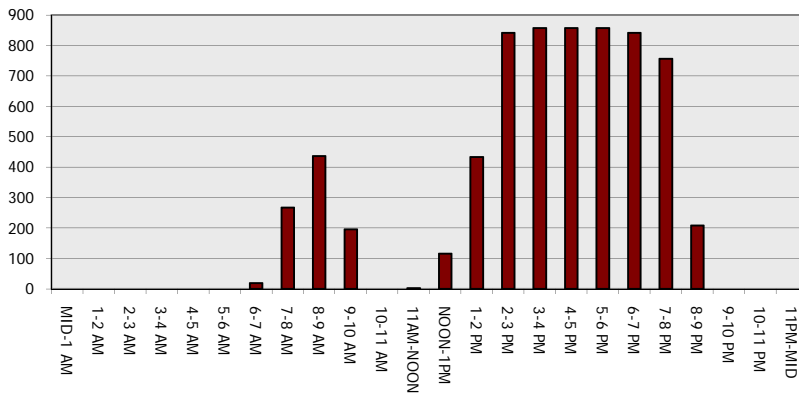
**Main Route - Traffic Demand (Vehicles Per Hour)**



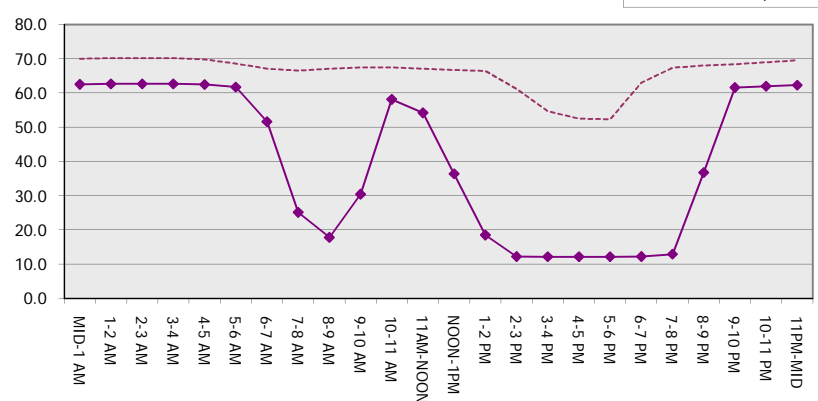
**Main Route Average Delay Per Vehicle (Minutes)**



**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>CONTINUOUS (24 HOUR) 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**

MON-THUR                      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    | 580                          | 0.0       | 3000           | 580        | 0           | 0.36                  | 0                   | 70.0                  | 62.5           | 49.7 |  |
| 1-2 AM      | 310                          | 0.0       | 3000           | 310        | 0           | 0.36                  | 0                   | 70.2                  | 62.7           | 49.7 |  |
| 2-3 AM      | 291                          | 0.0       | 3000           | 291        | 0           | 0.36                  | 0                   | 70.2                  | 62.7           | 49.7 |  |
| 3-4 AM      | 318                          | 0.0       | 3000           | 318        | 0           | 0.36                  | 0                   | 70.2                  | 62.7           | 49.7 |  |
| 4-5 AM      | 568                          | 0.0       | 3000           | 568        | 0           | 0.36                  | 0                   | 70.0                  | 62.5           | 49.7 |  |
| 5-6 AM      | 1946                         | 0.0       | 2999           | 1946       | 0           | 0.36                  | 0                   | 68.3                  | 61.2           | 48.8 |  |
| 6-7 AM      | 4650                         | 0.0       | 2999           | 3708       | 942         | 9.04+                 | 564                 | 59.1                  | 17.5           | 37.3 |  |
| 7-8 AM      | 5705                         | 0.0       | 2999           | 3016       | 2689        | 15.19+                | 855                 | 51.9                  | 12.2           | 37.6 |  |
| 8-9 AM      | 4654                         | 0.0       | 3000           | 3090       | 1564        | 15.60+                | 846                 | 59.1                  | 12.2           | 37.3 |  |
| 9-10 AM     | 3198                         | 0.0       | 3000           | 2987       | 212         | 15.61+                | 820                 | 66.8                  | 12.4           | 37.3 |  |
| 10-11 AM    | 2820                         | 0.0       | 2999           | 2820       | 0           | 13.81+                | 721                 | 67.3                  | 13.1           | 37.3 |  |
| 11AM-NOON   | 2834                         | 0.0       | 3000           | 2834       | 0           | 10.38                 | 534                 | 67.2                  | 15.5           | 37.3 |  |
| NOON-1PM    | 2914                         | 0.0       | 3000           | 2914       | 0           | 8.11                  | 407                 | 67.1                  | 18.7           | 37.3 |  |
| 1-2 PM      | 2960                         | 0.0       | 2999           | 2960       | 0           | 6.87                  | 338                 | 67.1                  | 21.0           | 37.3 |  |
| 2-3 PM      | 3222                         | 0.0       | 3000           | 3222       | 0           | 8.23                  | 419                 | 66.8                  | 18.4           | 37.3 |  |
| 3-4 PM      | 3571                         | 0.0       | 3000           | 3265       | 306         | 14.34+                | 757                 | 66.3                  | 12.9           | 37.3 |  |
| 4-5 PM      | 3579                         | 0.0       | 3000           | 3004       | 575         | 15.82+                | 833                 | 66.3                  | 12.3           | 37.3 |  |
| 5-6 PM      | 3679                         | 0.0       | 3000           | 3003       | 676         | 15.80+                | 834                 | 65.7                  | 12.3           | 37.3 |  |
| 6-7 PM      | 3061                         | 0.0       | 3000           | 2949       | 113         | 15.51+                | 814                 | 66.9                  | 12.4           | 37.3 |  |
| 7-8 PM      | 2349                         | 0.0       | 2999           | 2349       | 0           | 8.36                  | 479                 | 67.8                  | 18.6           | 40.5 |  |
| 8-9 PM      | 1971                         | 0.0       | 3000           | 1971       | 0           | 0.44                  | 7                   | 68.3                  | 59.8           | 49.7 |  |
| 9-10 PM     | 1883                         | 0.0       | 3000           | 1883       | 0           | 0.34                  | 0                   | 68.4                  | 61.6           | 49.7 |  |
| 10-11 PM    | 1410                         | 0.0       | 3000           | 1410       | 0           | 0.34                  | 0                   | 69.0                  | 62.0           | 49.7 |  |
| 11PM-MID    | 947                          | 0.0       | 3000           | 947        | 0           | 0.35                  | 0                   | 69.6                  | 62.3           | 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           | 0.0331 |
| MAIN ROUTE WITH WORKS              | 0.0257 |
| 'DIVERSION'                        | 0.0091 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |           |
|-------------------------------|-----------|
| ROAD USER COSTS PER DAY       | \$137,270 |
| CONGESTED HOURS PER DAY*      | 9         |

\*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)**

**OCTOBER**

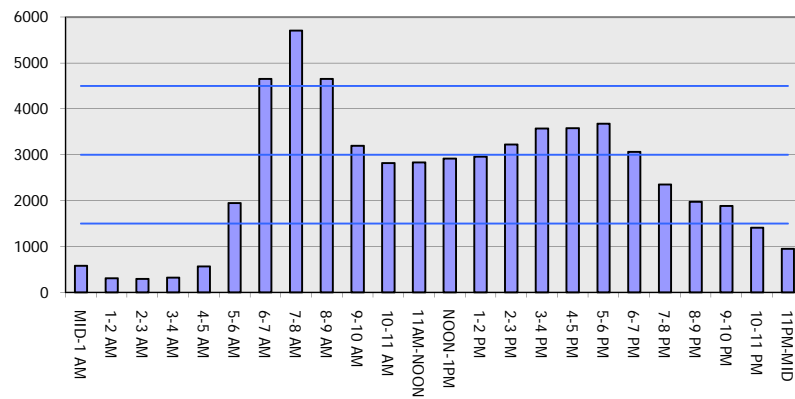
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

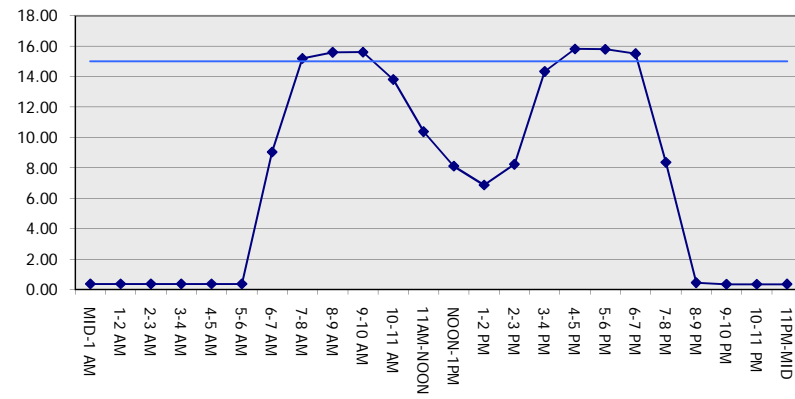
**MON-THUR**

**EASTBOUND DIRECTION**

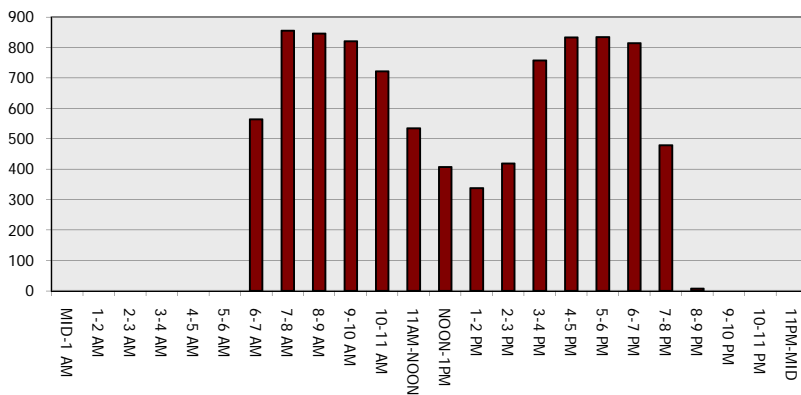
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

