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| <b>IH 43: CTH Y TO HALE INTERCHANGE (WAUKESHA AND MILWAUKEE COUNTIES)<br/>                 CONTINUOUS (24 HOUR) CLOSURE<br/>                 NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>OCTOBER</b>                           |
|  | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR                  SOUTHBOUND 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    | 242                          | 0.0       | 1500           | 242        | 0           | 0.45                  | 0                   | 66.0                  | 61.4           | 44.5 |  |
| 1-2 AM      | 135                          | 0.0       | 1500           | 135        | 0           | 0.44                  | 0                   | 66.1                  | 61.7           | 45.0 |  |
| 2-3 AM      | 117                          | 0.0       | 1500           | 117        | 0           | 0.43                  | 0                   | 66.1                  | 61.7           | 45.0 |  |
| 3-4 AM      | 133                          | 0.0       | 1500           | 133        | 0           | 0.44                  | 0                   | 66.1                  | 61.7           | 45.0 |  |
| 4-5 AM      | 331                          | 0.0       | 1500           | 331        | 0           | 0.45                  | 0                   | 65.8                  | 61.2           | 44.2 |  |
| 5-6 AM      | 812                          | 0.0       | 1500           | 812        | 0           | 0.50                  | 0                   | 64.9                  | 60.0           | 42.4 |  |
| 6-7 AM      | 1646                         | 0.0       | 1499           | 1646       | 0           | 2.21                  | 39                  | 63.3                  | 46.9           | 31.1 |  |
| 7-8 AM      | 2203                         | 0.0       | 1500           | 1748       | 455         | 13.86+                | 358                 | 62.3                  | 19.8           | 31.7 |  |
| 8-9 AM      | 1704                         | 0.0       | 1499           | 1500       | 204         | 15.81+                | 399                 | 63.2                  | 18.1           | 30.8 |  |
| 9-10 AM     | 1190                         | 0.0       | 1499           | 1190       | 0           | 10.27+                | 269                 | 64.1                  | 24.3           | 32.4 |  |
| 10-11 AM    | 1158                         | 0.0       | 1500           | 1158       | 0           | 1.02                  | 13                  | 64.2                  | 55.2           | 39.1 |  |
| 11AM-NOON   | 1226                         | 0.0       | 1500           | 1226       | 0           | 0.67                  | 0                   | 64.1                  | 57.9           | 37.6 |  |
| NOON-1PM    | 1306                         | 0.0       | 1500           | 1306       | 0           | 0.77                  | 0                   | 64.0                  | 56.9           | 35.3 |  |
| 1-2 PM      | 1414                         | 0.0       | 1499           | 1414       | 0           | 0.91                  | 0                   | 63.8                  | 55.7           | 32.7 |  |
| 2-3 PM      | 1871                         | 0.0       | 1499           | 1871       | 0           | 5.58                  | 150                 | 62.9                  | 33.5           | 30.8 |  |
| 3-4 PM      | 2531                         | 0.0       | 1499           | 1500       | 1031        | 15.54+                | 399                 | 60.5                  | 18.1           | 30.8 |  |
| 4-5 PM      | 2675                         | 0.0       | 1500           | 1500       | 1175        | 15.37+                | 400                 | 59.1                  | 18.1           | 30.8 |  |
| 5-6 PM      | 2671                         | 0.0       | 1500           | 1500       | 1171        | 15.38+                | 400                 | 59.1                  | 18.1           | 30.8 |  |
| 6-7 PM      | 2020                         | 0.0       | 1500           | 1500       | 520         | 15.75+                | 400                 | 62.6                  | 18.1           | 30.8 |  |
| 7-8 PM      | 1268                         | 0.0       | 1500           | 1268       | 0           | 11.18                 | 285                 | 64.0                  | 23.0           | 31.7 |  |
| 8-9 PM      | 1054                         | 0.0       | 1500           | 1054       | 0           | 1.25                  | 24                  | 64.4                  | 53.7           | 40.4 |  |
| 9-10 PM     | 881                          | 0.0       | 1500           | 881        | 0           | 0.51                  | 0                   | 64.8                  | 59.9           | 42.1 |  |
| 10-11 PM    | 581                          | 0.0       | 1500           | 581        | 0           | 0.48                  | 0                   | 65.3                  | 60.6           | 43.2 |  |
| 11PM-MID    | 413                          | 0.0       | 1500           | 413        | 0           | 0.46                  | 0                   | 65.6                  | 61.0           | 43.8 |  |

+ 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                      | 0.0315   |
| MAIN ROUTE WITH WORKS                         | 0.0250   |
| 'DIVERSION'                                   | 0.0113   |
| <small>PIA: Personal Injury Accidents</small> |          |
| IMPACTS ON ROAD USERS                         |          |
| ROAD USER COSTS PER DAY                       | \$55,508 |
| CONGESTED HOURS PER DAY*                      | 7        |

\*Delays Exceeding User-Specified Maximum

**IH 43: CTH Y TO HALE INTERCHANGE (WAUKESHA AND MILWAUKEE COUNTIES)  
 CONTINUOUS (24 HOUR) CLOSURE  
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

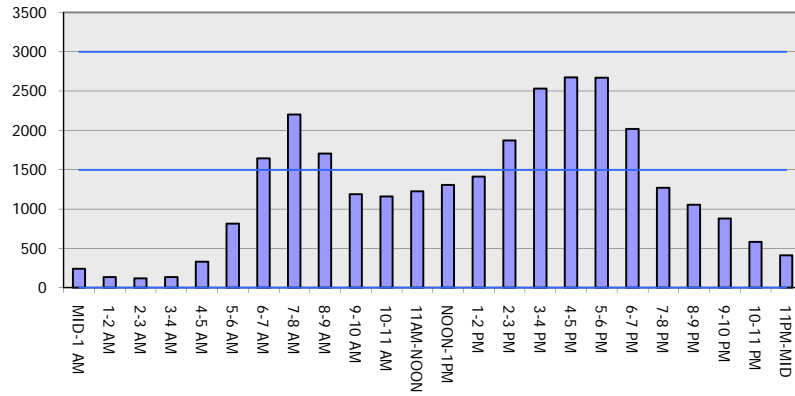
**OCTOBER**

Analyzed for 2009  
 Construction Season

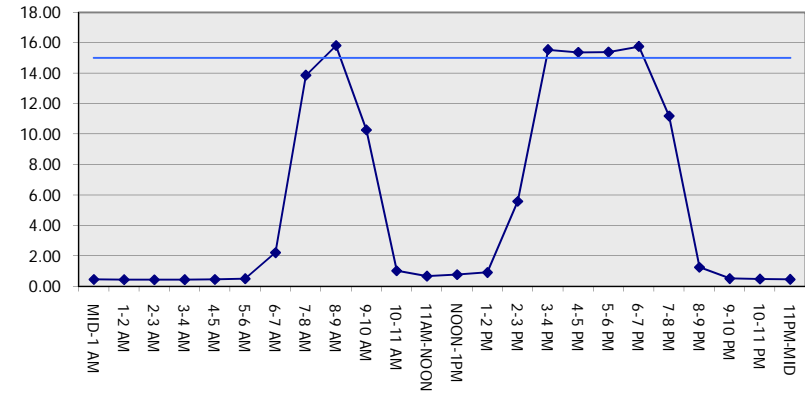
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**MON-THUR SOUTHBOUND DIRECTION**

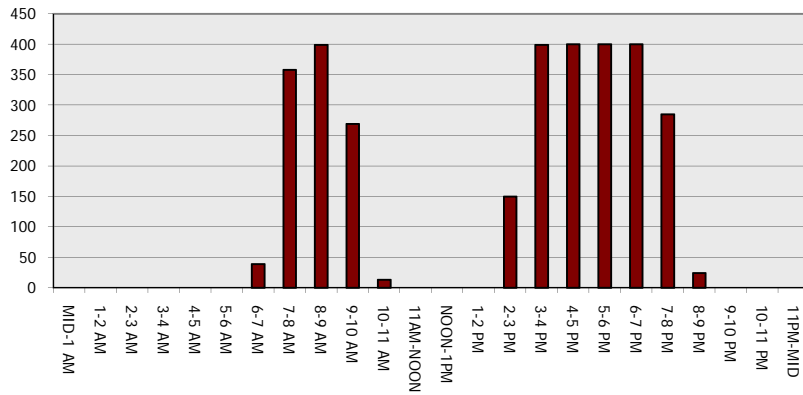
**Main Route - Traffic Demand (Vehicles Per Hour)**



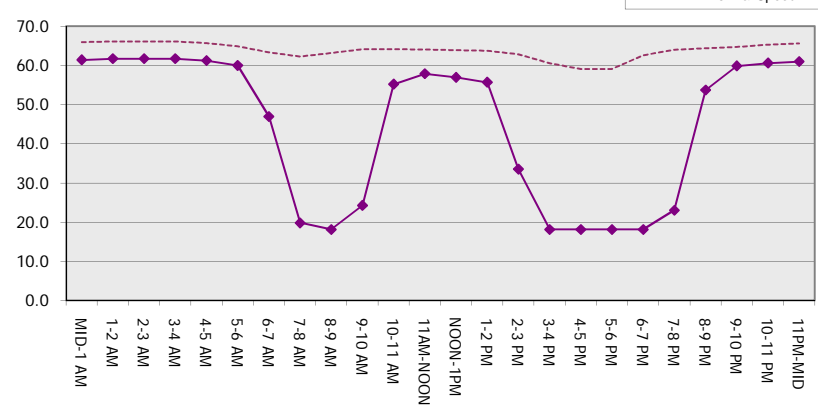
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



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| <b>IH 43: CTH Y TO HALE INTERCHANGE (WAUKESHA AND MILWAUKEE COUNTIES)</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                      NORTHBOUND 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    | 218                          | 0.0       | 1500           | 218        | 0           | 0.44                  | 0                   | 66.0                  | 61.5           | 44.6 |  |
| 1-2 AM      | 146                          | 0.0       | 1500           | 146        | 0           | 0.44                  | 0                   | 66.1                  | 61.7           | 44.9 |  |
| 2-3 AM      | 127                          | 0.0       | 1500           | 127        | 0           | 0.43                  | 0                   | 66.1                  | 61.7           | 45.0 |  |
| 3-4 AM      | 187                          | 0.0       | 1500           | 187        | 0           | 0.44                  | 0                   | 66.0                  | 61.6           | 44.7 |  |
| 4-5 AM      | 452                          | 0.0       | 1500           | 452        | 0           | 0.47                  | 0                   | 65.5                  | 60.9           | 43.7 |  |
| 5-6 AM      | 1542                         | 0.0       | 1499           | 1542       | 0           | 2.08                  | 44                  | 63.5                  | 47.8           | 34.2 |  |
| 6-7 AM      | 2944                         | 0.0       | 1500           | 1798       | 1147        | 14.25+                | 382                 | 56.3                  | 18.8           | 30.8 |  |
| 7-8 AM      | 3002                         | 0.0       | 1500           | 1500       | 1502        | 14.96+                | 400                 | 55.8                  | 18.1           | 30.8 |  |
| 8-9 AM      | 2273                         | 0.0       | 1500           | 1463       | 809         | 15.58+                | 396                 | 62.2                  | 18.2           | 30.8 |  |
| 9-10 AM     | 1702                         | 0.0       | 1499           | 1452       | 250         | 15.62+                | 394                 | 63.2                  | 18.3           | 30.8 |  |
| 10-11 AM    | 1347                         | 0.0       | 1499           | 1347       | 0           | 12.88+                | 322                 | 63.9                  | 20.9           | 30.8 |  |
| 11AM-NOON   | 1396                         | 0.0       | 1500           | 1396       | 0           | 7.76                  | 183                 | 63.8                  | 28.6           | 30.8 |  |
| NOON-1PM    | 1377                         | 0.0       | 1499           | 1377       | 0           | 3.43                  | 69                  | 63.8                  | 41.3           | 31.4 |  |
| 1-2 PM      | 1430                         | 0.0       | 1500           | 1430       | 0           | 0.95                  | 0                   | 63.7                  | 55.3           | 32.3 |  |
| 2-3 PM      | 1565                         | 0.0       | 1499           | 1565       | 0           | 1.61                  | 17                  | 63.5                  | 50.6           | 30.8 |  |
| 3-4 PM      | 1926                         | 0.0       | 1500           | 1912       | 14          | 9.52+                 | 257                 | 62.8                  | 25.2           | 30.8 |  |
| 4-5 PM      | 2150                         | 0.0       | 1500           | 1456       | 695         | 15.57+                | 395                 | 62.3                  | 18.3           | 30.9 |  |
| 5-6 PM      | 2261                         | 0.0       | 1500           | 1500       | 761         | 15.71+                | 400                 | 62.2                  | 18.1           | 30.8 |  |
| 6-7 PM      | 1533                         | 0.0       | 1499           | 1410       | 123         | 15.28+                | 385                 | 63.5                  | 18.6           | 30.8 |  |
| 7-8 PM      | 949                          | 0.0       | 1499           | 949        | 0           | 3.67                  | 124                 | 64.6                  | 40.6           | 38.4 |  |
| 8-9 PM      | 769                          | 0.0       | 1500           | 769        | 0           | 0.50                  | 0                   | 65.0                  | 60.1           | 42.5 |  |
| 9-10 PM     | 664                          | 0.0       | 1500           | 664        | 0           | 0.49                  | 0                   | 65.1                  | 60.4           | 42.9 |  |
| 10-11 PM    | 539                          | 0.0       | 1500           | 539        | 0           | 0.47                  | 0                   | 65.4                  | 60.7           | 43.3 |  |
| 11PM-MID    | 318                          | 0.0       | 1500           | 318        | 0           | 0.45                  | 0                   | 65.8                  | 61.2           | 44.2 |  |

+ 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           | 0.0329 |
| MAIN ROUTE WITH WORKS              | 0.0255 |
| 'DIVERSION'                        | 0.0131 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |          |
|-------------------------------|----------|
| ROAD USER COSTS PER DAY       | \$65,391 |
| CONGESTED HOURS PER DAY*      | 9        |

\*Delays Exceeding User-Specified Maximum

**IH 43: CTH Y TO HALE INTERCHANGE (WAUKESHA AND MILWAUKEE COUNTIES)  
 CONTINUOUS (24 HOUR) CLOSURE  
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

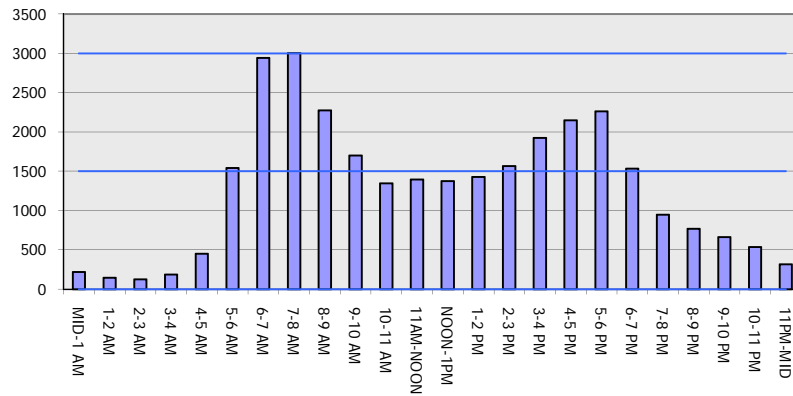
Analyzed for 2009  
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

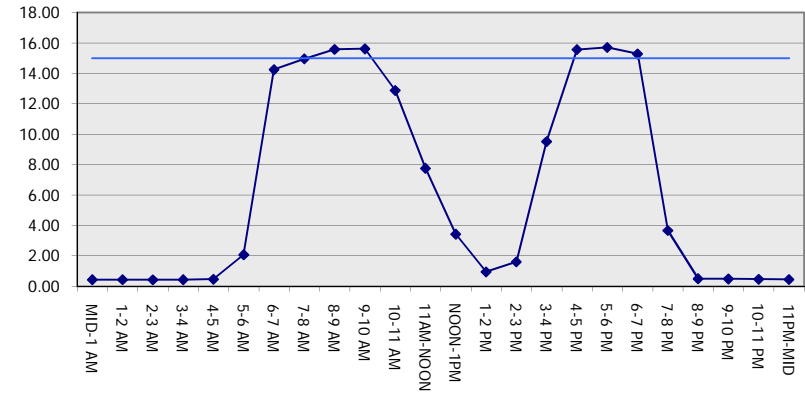
**MON-THUR**

**NORTHBOUND DIRECTION**

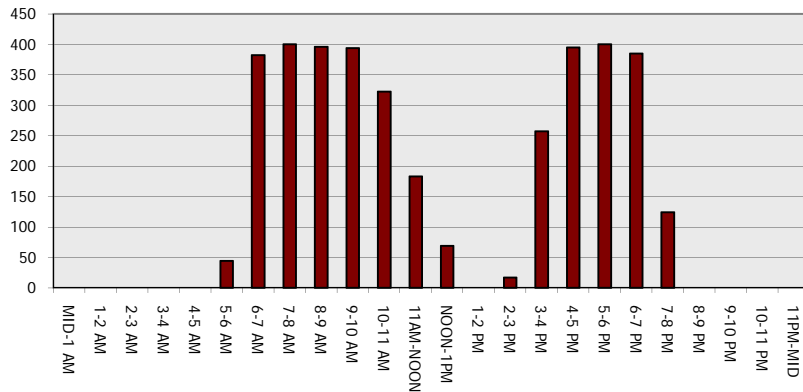
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

