

|   |  |
|---|--|
| <b>IH 94: MN 96 TO STH 35 N<br/>                 CONTINUOUS (24 HOUR) 2 LANE CLOSURE<br/>                 NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>MAY</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    | 615                          | 0.0       | 1500           | 615        | 0           | 0.28                  | 0                     | 70.0              | 52.7           | 43.1 |  |
| 1-2 AM      | 532                          | 0.0       | 1500           | 532        | 0           | 0.27                  | 0                     | 70.0              | 53.2           | 43.4 |  |
| 2-3 AM      | 568                          | 0.0       | 1500           | 568        | 0           | 0.27                  | 0                     | 70.0              | 53.1           | 43.2 |  |
| 3-4 AM      | 813                          | 0.0       | 1500           | 813        | 0           | 0.29                  | 0                     | 69.7              | 52.3           | 42.4 |  |
| 4-5 AM      | 1496                         | 0.0       | 1499           | 1496       | 0           | 0.99                  | 25                    | 68.9              | 32.3           | 33.3 |  |
| 5-6 AM      | 2485                         | 0.0       | 1500           | 2485       | 0           | 19.50                 | 556                   | 67.6              | 5.4            | 30.8 |  |
| 6-7 AM      | 2716                         | 0.0       | 1500           | 1577       | 1139        | 47.22+                | 1223                  | 67.4              | 3.9            | 30.8 |  |
| 7-8 AM      | 2668                         | 0.0       | 1500           | 1523       | 1146        | 46.80+                | 1212                  | 67.4              | 4.0            | 30.8 |  |
| 8-9 AM      | 2394                         | 0.0       | 1500           | 1501       | 893         | 46.55+                | 1205                  | 67.8              | 4.0            | 30.8 |  |
| 9-10 AM     | 2412                         | 0.0       | 1500           | 1502       | 909         | 46.56+                | 1205                  | 67.8              | 4.0            | 30.8 |  |
| 10-11 AM    | 2502                         | 0.0       | 1500           | 1502       | 1000        | 46.58+                | 1206                  | 67.6              | 4.0            | 30.8 |  |
| 11AM-NOON   | 2599                         | 0.0       | 1500           | 1509       | 1090        | 46.67+                | 1208                  | 67.5              | 4.0            | 30.8 |  |
| NOON-1PM    | 2746                         | 0.0       | 1500           | 1521       | 1225        | 46.93+                | 1215                  | 67.3              | 4.0            | 30.8 |  |
| 1-2 PM      | 3002                         | 0.0       | 1500           | 1521       | 1481        | 47.71+                | 1236                  | 67.0              | 3.9            | 30.8 |  |
| 2-3 PM      | 3119                         | 0.0       | 1500           | 1512       | 1607        | 48.11+                | 1247                  | 66.9              | 3.9            | 30.8 |  |
| 3-4 PM      | 3329                         | 0.0       | 1500           | 1500       | 1829        | 48.25+                | 1251                  | 66.6              | 3.9            | 30.8 |  |
| 4-5 PM      | 3364                         | 0.0       | 1500           | 1500       | 1864        | 48.25+                | 1251                  | 66.6              | 3.9            | 30.8 |  |
| 5-6 PM      | 2896                         | 0.0       | 1500           | 1461       | 1435        | 47.57+                | 1232                  | 67.1              | 3.9            | 30.8 |  |
| 6-7 PM      | 2483                         | 0.0       | 1500           | 1496       | 986         | 46.58+                | 1206                  | 67.6              | 4.0            | 30.8 |  |
| 7-8 PM      | 2131                         | 0.0       | 1500           | 1497       | 634         | 46.50+                | 1203                  | 68.1              | 4.0            | 30.8 |  |
| 8-9 PM      | 1869                         | 0.0       | 1500           | 1497       | 372         | 46.44+                | 1201                  | 68.4              | 4.0            | 30.8 |  |
| 9-10 PM     | 1501                         | 0.0       | 1500           | 1442       | 58          | 45.83+                | 1185                  | 68.9              | 4.0            | 30.8 |  |
| 10-11 PM    | 1128                         | 0.0       | 1500           | 1128       | 0           | 38.14+                | 985                   | 69.3              | 4.2            | 30.8 |  |
| 11PM-MID    | 743                          | 0.0       | 1500           | 743        | 0           | 13.27                 | 413                   | 69.8              | 6.6            | 36.2 |  |

+ 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           | 0.0080    |
| MAIN ROUTE WITH WORKS              | 0.0016    |
| 'DIVERSION'                        | 0.0065    |
| PIA: Personal Injury Accidents     |           |
| IMPACTS ON ROAD USERS              |           |
| ROAD USER COSTS PER DAY            | \$459,618 |
| CONGESTED HOURS PER DAY*           | 17        |

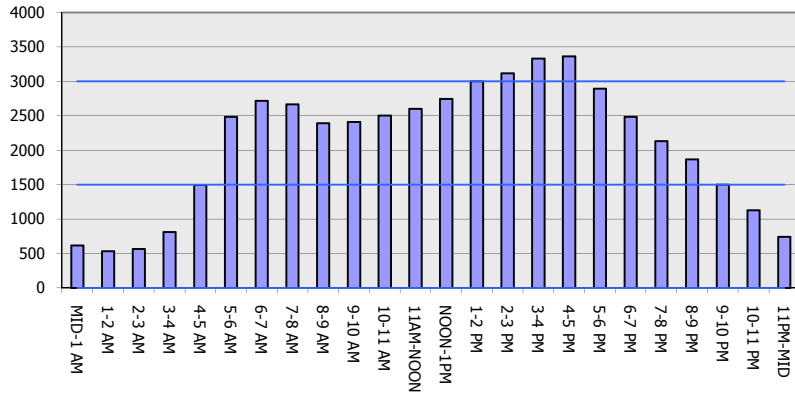
\*Delays Exceeding User-Specified Maximum

**IH 94: MN 96 TO STH 35 N  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

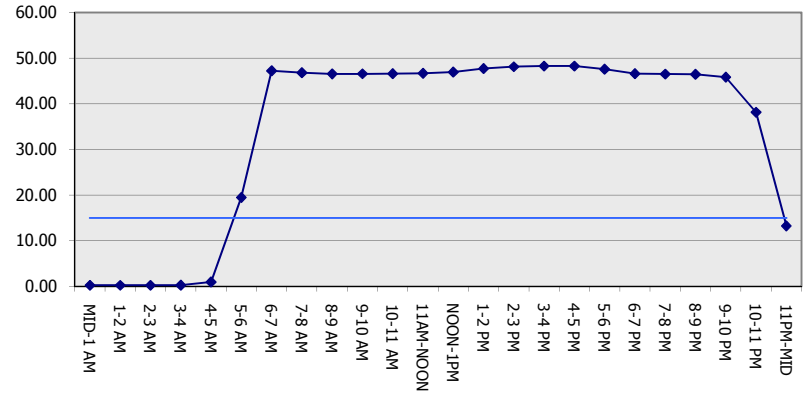
**MAY**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR WESTBOUND DIRECTION**

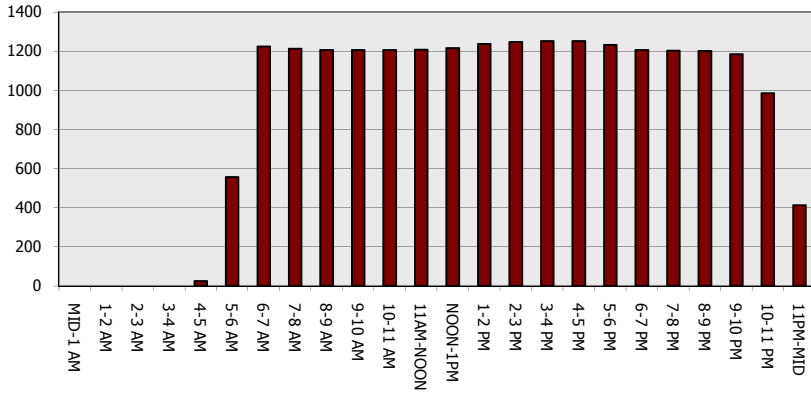
**Main Route - Traffic Demand (Vehicles Per Hour)**



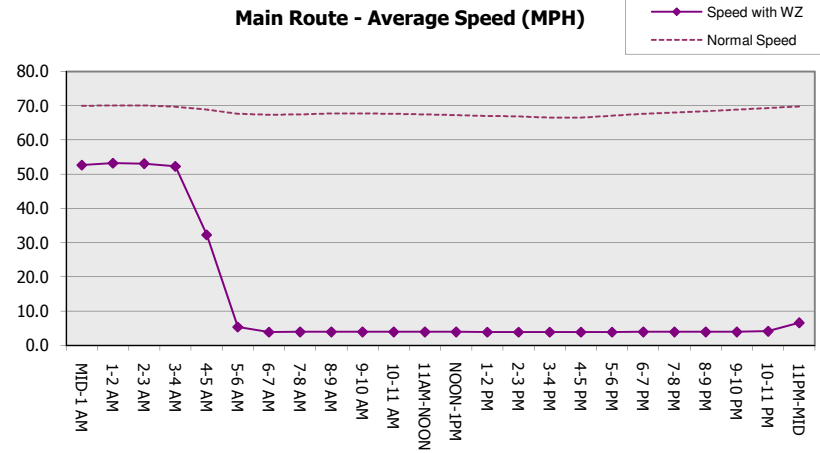
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



|   |  |
|---|--|
| <b>IH 94: MN 96 TO STH 35 N<br/>                 CONTINUOUS (24 HOUR) 2 LANE CLOSURE<br/>                 NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>MAY</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    | 569                          | 0.0       | 1500           | 569        | 0           | 0.27                  | 0                   | 70.0                  | 53.0           | 43.2 |  |
| 1-2 AM      | 407                          | 0.0       | 1500           | 407        | 0           | 0.26                  | 0                   | 70.2                  | 53.6           | 43.8 |  |
| 2-3 AM      | 355                          | 0.0       | 1500           | 355        | 0           | 0.26                  | 0                   | 70.2                  | 53.8           | 44.1 |  |
| 3-4 AM      | 409                          | 0.0       | 1500           | 409        | 0           | 0.26                  | 0                   | 70.2                  | 53.6           | 43.8 |  |
| 4-5 AM      | 614                          | 0.0       | 1500           | 614        | 0           | 0.28                  | 0                   | 70.0                  | 52.9           | 43.1 |  |
| 5-6 AM      | 1069                         | 0.0       | 1499           | 1069       | 0           | 0.33                  | 0                   | 69.4                  | 50.2           | 39.9 |  |
| 6-7 AM      | 1796                         | 0.0       | 1499           | 1796       | 0           | 3.66                  | 115                 | 68.5                  | 14.0           | 30.8 |  |
| 7-8 AM      | 2118                         | 0.0       | 1500           | 2118       | 0           | 22.27                 | 587                 | 68.1                  | 5.0            | 30.8 |  |
| 8-9 AM      | 2348                         | 0.0       | 1500           | 1724       | 624         | 44.86+                | 1161                | 67.8                  | 4.0            | 30.8 |  |
| 9-10 AM     | 2778                         | 0.0       | 1500           | 1564       | 1214        | 47.15+                | 1221                | 67.3                  | 3.9            | 30.8 |  |
| 10-11 AM    | 2905                         | 0.0       | 1500           | 1524       | 1381        | 47.40+                | 1228                | 67.1                  | 3.9            | 30.8 |  |
| 11AM-NOON   | 2888                         | 0.0       | 1500           | 1503       | 1385        | 47.41+                | 1228                | 67.1                  | 3.9            | 30.8 |  |
| NOON-1PM    | 2922                         | 0.0       | 1500           | 1507       | 1415        | 47.51+                | 1231                | 67.1                  | 3.9            | 30.8 |  |
| 1-2 PM      | 3082                         | 0.0       | 1500           | 1517       | 1565        | 47.98+                | 1243                | 66.9                  | 3.9            | 30.8 |  |
| 2-3 PM      | 3350                         | 0.0       | 1500           | 1500       | 1850        | 48.25+                | 1251                | 66.6                  | 3.9            | 30.8 |  |
| 3-4 PM      | 3766                         | 0.0       | 1500           | 1500       | 2266        | 48.18+                | 1251                | 65.1                  | 3.9            | 30.8 |  |
| 4-5 PM      | 3538                         | 0.0       | 1500           | 1500       | 2038        | 48.24+                | 1251                | 66.3                  | 3.9            | 30.8 |  |
| 5-6 PM      | 2966                         | 0.0       | 1500           | 1465       | 1501        | 47.78+                | 1238                | 67.1                  | 3.9            | 30.8 |  |
| 6-7 PM      | 2583                         | 0.0       | 1500           | 1485       | 1098        | 46.72+                | 1210                | 67.5                  | 4.0            | 30.8 |  |
| 7-8 PM      | 2134                         | 0.0       | 1500           | 1497       | 637         | 46.50+                | 1203                | 68.1                  | 4.0            | 30.8 |  |
| 8-9 PM      | 1673                         | 0.0       | 1500           | 1498       | 175         | 46.39+                | 1200                | 68.7                  | 4.0            | 30.8 |  |
| 9-10 PM     | 1433                         | 0.0       | 1500           | 1433       | 0           | 45.62+                | 1179                | 68.9                  | 4.0            | 30.8 |  |
| 10-11 PM    | 1146                         | 0.0       | 1500           | 1146       | 0           | 37.72                 | 974                 | 69.3                  | 4.2            | 30.8 |  |
| 11PM-MID    | 733                          | 0.0       | 1500           | 733        | 0           | 12.88                 | 410                 | 69.8                  | 6.8            | 36.3 |  |

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

|  |      |
|--|------|
| 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  |

|  |   |
|--|---|
| 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 |

|                          |        |
|--------------------------|--------|
| MAIN ROUTE WITHOUT WORKS | 0.0076 |
| MAIN ROUTE WITH WORKS    | 0.0015 |
| 'DIVERSION'              | 0.0063 |

PIA: Personal Injury Accidents

|                          |           |
|--------------------------|-----------|
| ROAD USER COSTS PER DAY  | \$426,775 |
| CONGESTED HOURS PER DAY* | 14        |

\*Delays Exceeding User-Specified Maximum

**IH 94: MN 96 TO STH 35 N  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR EASTBOUND DIRECTION**

