

|   |  |
|---|--|
| <b>USH 41: STH 15 TO STH 125 (OUTAGAMIE COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>AUGUST</b>                            |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY      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    | 327                          | 0.0       | 1500           | 327        | 0           | 0.51                  | 0                     | 70.2              | 52.7           | 44.2 |  |
| 1-2 AM      | 189                          | 0.0       | 1500           | 189        | 0           | 0.50                  | 0                     | 70.2              | 53.1           | 44.7 |  |
| 2-3 AM      | 184                          | 0.0       | 1500           | 184        | 0           | 0.49                  | 0                     | 70.2              | 53.1           | 44.8 |  |
| 3-4 AM      | 178                          | 0.0       | 1500           | 178        | 0           | 0.49                  | 0                     | 70.2              | 53.2           | 44.8 |  |
| 4-5 AM      | 321                          | 0.0       | 1500           | 321        | 0           | 0.51                  | 0                     | 70.2              | 52.7           | 44.2 |  |
| 5-6 AM      | 897                          | 0.0       | 1500           | 897        | 0           | 0.58                  | 0                     | 69.6              | 50.8           | 42.0 |  |
| 6-7 AM      | 1625                         | 0.0       | 1499           | 1625       | 0           | 1.97                  | 38                    | 68.7              | 30.5           | 31.4 |  |
| 7-8 AM      | 2364                         | 0.0       | 1500           | 1725       | 639         | 15.28+                | 384                   | 67.8              | 7.7            | 32.6 |  |
| 8-9 AM      | 1791                         | 0.0       | 1499           | 1518       | 273         | 16.90+                | 413                   | 68.5              | 7.2            | 30.8 |  |
| 9-10 AM     | 1709                         | 0.0       | 1500           | 1502       | 207         | 16.98+                | 415                   | 68.6              | 7.2            | 30.8 |  |
| 10-11 AM    | 1935                         | 0.0       | 1500           | 1502       | 434         | 16.98+                | 416                   | 68.3              | 7.2            | 30.8 |  |
| 11AM-NOON   | 2235                         | 0.0       | 1500           | 1501       | 733         | 16.99+                | 416                   | 67.9              | 7.2            | 30.8 |  |
| NOON-1PM    | 2443                         | 0.0       | 1500           | 1502       | 941         | 16.99+                | 417                   | 67.7              | 7.2            | 30.8 |  |
| 1-2 PM      | 2780                         | 0.0       | 1500           | 1511       | 1270        | 17.09+                | 419                   | 67.3              | 7.1            | 30.8 |  |
| 2-3 PM      | 2842                         | 0.0       | 1500           | 1504       | 1338        | 17.13+                | 421                   | 67.2              | 7.1            | 30.8 |  |
| 3-4 PM      | 2928                         | 0.0       | 1500           | 1502       | 1425        | 17.18+                | 422                   | 67.1              | 7.1            | 30.8 |  |
| 4-5 PM      | 3143                         | 0.0       | 1499           | 1502       | 1640        | 17.31+                | 426                   | 66.8              | 7.1            | 30.8 |  |
| 5-6 PM      | 2787                         | 0.0       | 1500           | 1497       | 1289        | 17.10+                | 420                   | 67.3              | 7.1            | 30.8 |  |
| 6-7 PM      | 2016                         | 0.0       | 1500           | 1500       | 516         | 16.98+                | 416                   | 68.2              | 7.2            | 30.8 |  |
| 7-8 PM      | 1496                         | 0.0       | 1500           | 1461       | 35          | 16.69+                | 408                   | 68.9              | 7.3            | 30.8 |  |
| 8-9 PM      | 1422                         | 0.0       | 1500           | 1422       | 0           | 14.45                 | 350                   | 69.0              | 7.9            | 30.8 |  |
| 9-10 PM     | 1229                         | 0.0       | 1499           | 1229       | 0           | 7.14                  | 184                   | 69.2              | 12.8           | 32.8 |  |
| 10-11 PM    | 858                          | 0.0       | 1500           | 858        | 0           | 0.60                  | 0                     | 69.7              | 50.3           | 42.2 |  |
| 11PM-MID    | 525                          | 0.0       | 1500           | 525        | 0           | 0.54                  | 0                     | 70.1              | 52.0           | 43.4 |  |

+ 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 |

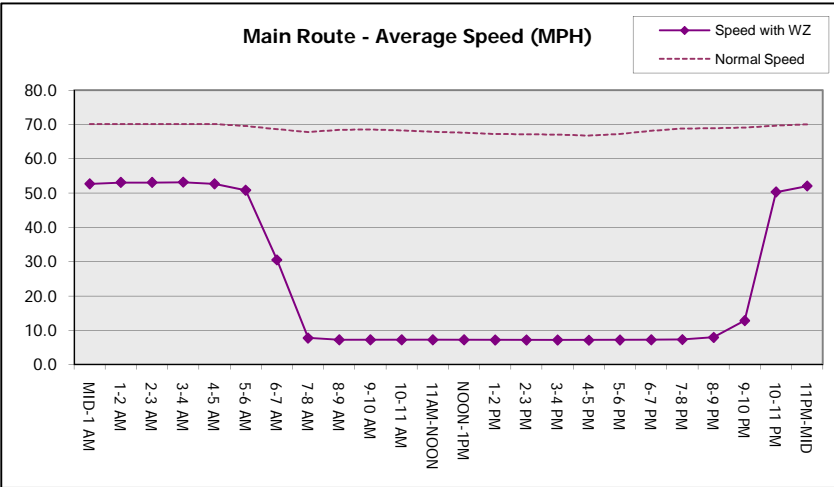
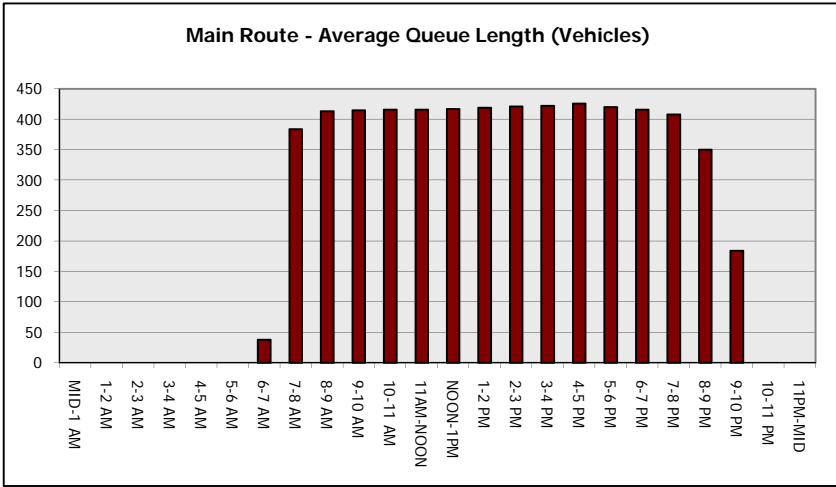
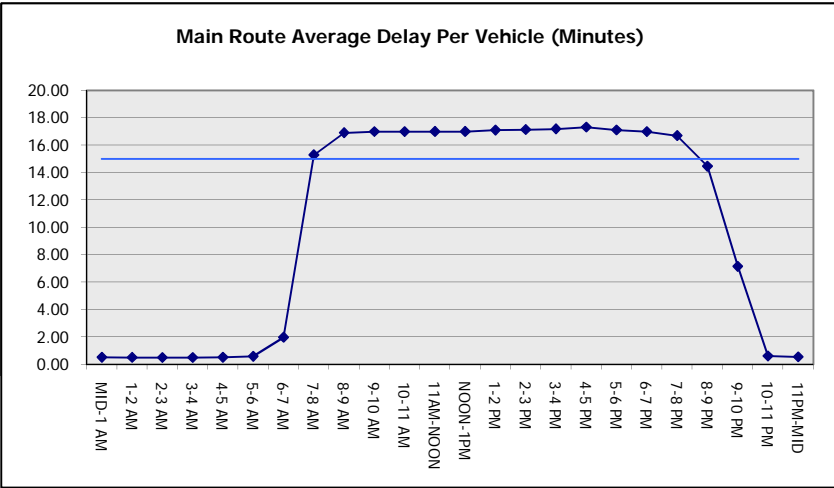
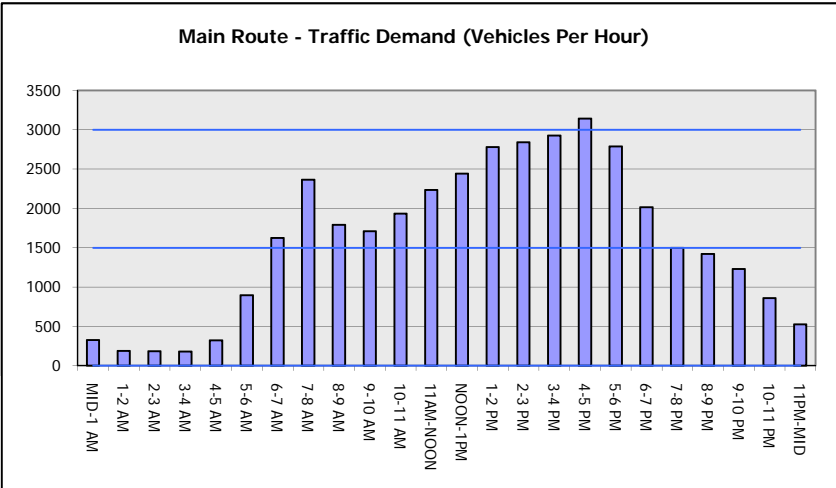
| AVERAGE ACCIDENT NUMBERS (PIA/DAY) |           |
|------------------------------------|-----------|
| MAIN ROUTE WITHOUT WORKS           | 0.0110    |
| MAIN ROUTE WITH WORKS              | 0.0061    |
| 'DIVERSION'                        | 0.0071    |
| PIA: Personal Injury Accidents     |           |
| IMPACTS ON ROAD USERS              |           |
| ROAD USER COSTS PER DAY            | \$124,021 |
| CONGESTED HOURS PER DAY*           | 13        |

\*Delays Exceeding User-Specified Maximum

**USH 41: STH 15 TO STH 125 (OUTAGAMIE COUNTY)  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
Analyzed for 2009  
Construction Season

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



|   |  |
|---|--|
| <b>USH 41: STH 15 TO STH 125 (OUTAGAMIE COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>AUGUST</b>                            |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY 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    | 267                          | 0.0       | 1500           | 267        | 0           | 0.50                  | 0                   | 70.2                  | 52.8           | 44.4 |
| 1-2 AM      | 191                          | 0.0       | 1500           | 191        | 0           | 0.50                  | 0                   | 70.2                  | 53.1           | 44.7 |
| 2-3 AM      | 169                          | 0.0       | 1500           | 169        | 0           | 0.49                  | 0                   | 70.2                  | 53.2           | 44.8 |
| 3-4 AM      | 170                          | 0.0       | 1500           | 170        | 0           | 0.49                  | 0                   | 70.2                  | 53.2           | 44.8 |
| 4-5 AM      | 383                          | 0.0       | 1500           | 383        | 0           | 0.52                  | 0                   | 70.2                  | 52.5           | 44.0 |
| 5-6 AM      | 728                          | 0.0       | 1500           | 728        | 0           | 0.56                  | 0                   | 69.8                  | 51.4           | 42.7 |
| 6-7 AM      | 1457                         | 0.0       | 1499           | 1457       | 0           | 1.44                  | 20                  | 68.9                  | 36.0           | 33.8 |
| 7-8 AM      | 2364                         | 0.0       | 1500           | 1891       | 473         | 13.70+                | 349                 | 67.8                  | 8.3            | 30.8 |
| 8-9 AM      | 1967                         | 0.0       | 1499           | 1484       | 483         | 16.94+                | 415                 | 68.3                  | 7.2            | 30.8 |
| 9-10 AM     | 1949                         | 0.0       | 1499           | 1496       | 452         | 16.98+                | 416                 | 68.3                  | 7.2            | 30.8 |
| 10-11 AM    | 2263                         | 0.0       | 1499           | 1497       | 766         | 16.99+                | 416                 | 67.9                  | 7.2            | 30.8 |
| 11AM-NOON   | 2419                         | 0.0       | 1499           | 1496       | 923         | 17.00+                | 417                 | 67.8                  | 7.2            | 30.8 |
| NOON-1PM    | 2566                         | 0.0       | 1499           | 1491       | 1075        | 17.03+                | 418                 | 67.6                  | 7.2            | 30.8 |
| 1-2 PM      | 2608                         | 0.0       | 1499           | 1493       | 1116        | 17.03+                | 418                 | 67.5                  | 7.2            | 30.8 |
| 2-3 PM      | 2835                         | 0.0       | 1499           | 1495       | 1340        | 17.13+                | 421                 | 67.2                  | 7.1            | 30.8 |
| 3-4 PM      | 3012                         | 0.0       | 1499           | 1501       | 1511        | 17.24+                | 424                 | 67.0                  | 7.1            | 30.8 |
| 4-5 PM      | 3279                         | 0.0       | 1499           | 1500       | 1779        | 17.32+                | 426                 | 66.6                  | 7.1            | 30.8 |
| 5-6 PM      | 2887                         | 0.0       | 1500           | 1498       | 1389        | 17.16+                | 421                 | 67.1                  | 7.1            | 30.8 |
| 6-7 PM      | 2359                         | 0.0       | 1500           | 1499       | 860         | 16.99+                | 416                 | 67.8                  | 7.2            | 30.8 |
| 7-8 PM      | 1783                         | 0.0       | 1500           | 1499       | 283         | 16.98+                | 415                 | 68.5                  | 7.2            | 30.8 |
| 8-9 PM      | 1236                         | 0.0       | 1499           | 1236       | 0           | 12.63+                | 314                 | 69.2                  | 8.6            | 31.5 |
| 9-10 PM     | 974                          | 0.0       | 1500           | 974        | 0           | 1.08                  | 26                  | 69.6                  | 41.0           | 41.2 |
| 10-11 PM    | 785                          | 0.0       | 1500           | 785        | 0           | 0.56                  | 0                   | 69.7                  | 51.2           | 42.4 |
| 11PM-MID    | 534                          | 0.0       | 1500           | 534        | 0           | 0.54                  | 0                   | 70.0                  | 52.0           | 43.3 |

+ 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           | 0.0112 |
| MAIN ROUTE WITH WORKS              | 0.0059 |
| 'DIVERSION'                        | 0.0083 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |           |
|-------------------------------|-----------|
| ROAD USER COSTS PER DAY       | \$127,225 |
| CONGESTED HOURS PER DAY*      | 14        |

\*Delays Exceeding User-Specified Maximum

**USH 41: STH 15 TO STH 125 (OUTAGAMIE COUNTY)  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

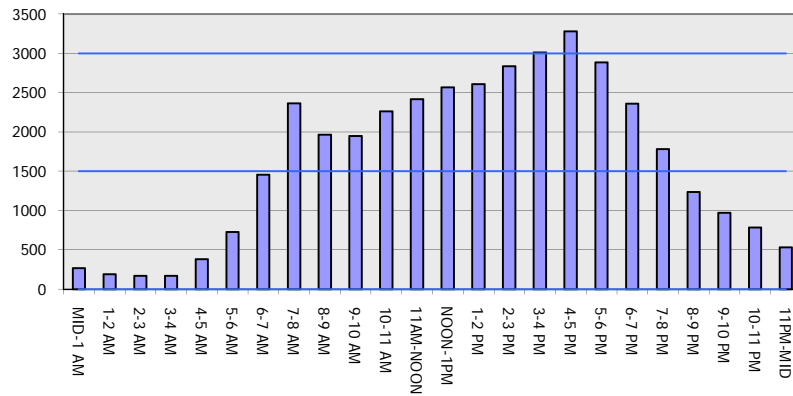
**AUGUST**

Analyzed for 2009  
Construction Season

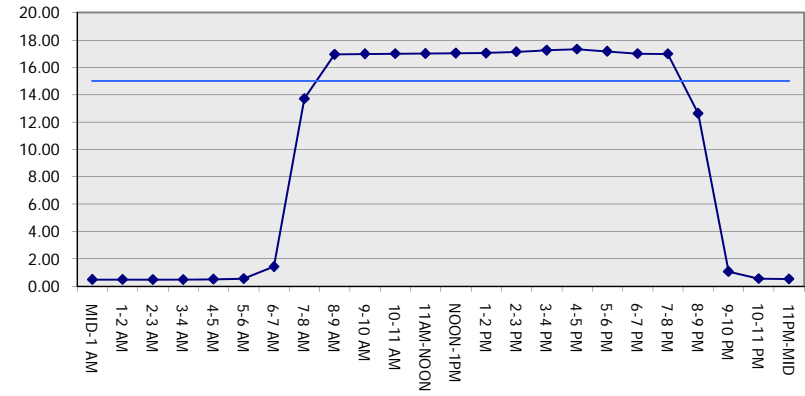
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY NORTHBOUND DIRECTION**

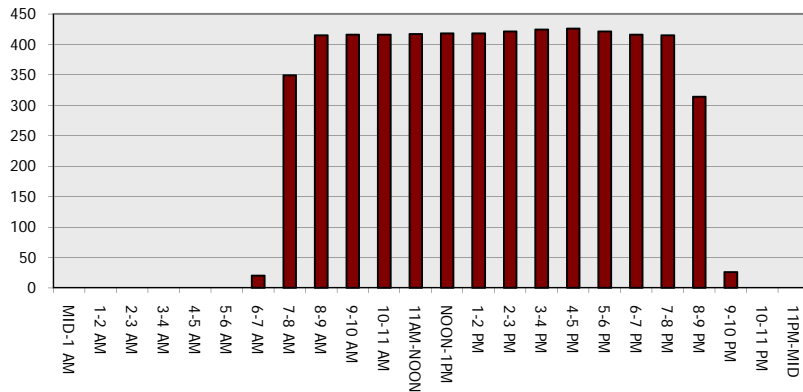
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

