

|   |  |
|---|--|
| <b>USH 41: CTH M TO IH 43 (BROWN COUNTY)<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**

SUNDAY 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    | 165                          | 0.0       | 1500           | 165        | 0           | 0.44                  | 0                   | 66.1                  | 54.2           | 44.8 |  |
| 1-2 AM      | 94                           | 0.0       | 1500           | 94         | 0           | 0.43                  | 0                   | 66.2                  | 54.4           | 45.1 |  |
| 2-3 AM      | 74                           | 0.0       | 1500           | 74         | 0           | 0.43                  | 0                   | 66.3                  | 54.5           | 45.2 |  |
| 3-4 AM      | 68                           | 0.0       | 1500           | 68         | 0           | 0.43                  | 0                   | 66.3                  | 54.5           | 45.2 |  |
| 4-5 AM      | 145                          | 0.0       | 1500           | 145        | 0           | 0.44                  | 0                   | 66.1                  | 54.2           | 44.9 |  |
| 5-6 AM      | 366                          | 0.0       | 1500           | 366        | 0           | 0.46                  | 0                   | 65.7                  | 53.5           | 44.0 |  |
| 6-7 AM      | 360                          | 0.0       | 1500           | 360        | 0           | 0.46                  | 0                   | 65.7                  | 53.5           | 44.0 |  |
| 7-8 AM      | 682                          | 0.0       | 1500           | 682        | 0           | 0.49                  | 0                   | 65.1                  | 52.5           | 42.8 |  |
| 8-9 AM      | 1328                         | 0.0       | 1499           | 1328       | 0           | 0.85                  | 2                   | 63.9                  | 45.3           | 35.8 |  |
| 9-10 AM     | 2238                         | 0.0       | 1500           | 1866       | 372         | 10.24+                | 285                 | 62.2                  | 12.0           | 30.8 |  |
| 10-11 AM    | 2570                         | 0.0       | 1500           | 1528       | 1042        | 16.77+                | 429                 | 60.2                  | 8.9            | 30.8 |  |
| 11AM-NOON   | 2355                         | 0.0       | 1500           | 1503       | 852         | 16.74+                | 425                 | 62.0                  | 9.0            | 30.8 |  |
| NOON-1PM    | 2104                         | 0.0       | 1500           | 1502       | 602         | 16.74+                | 425                 | 62.5                  | 9.0            | 30.8 |  |
| 1-2 PM      | 2215                         | 0.0       | 1500           | 1502       | 713         | 16.74+                | 425                 | 62.3                  | 9.0            | 30.8 |  |
| 2-3 PM      | 2211                         | 0.0       | 1500           | 1502       | 709         | 16.74+                | 425                 | 62.3                  | 9.0            | 30.8 |  |
| 3-4 PM      | 1758                         | 0.0       | 1500           | 1501       | 256         | 16.74+                | 424                 | 63.1                  | 9.0            | 30.8 |  |
| 4-5 PM      | 1955                         | 0.0       | 1500           | 1501       | 453         | 16.74+                | 424                 | 62.7                  | 9.0            | 30.8 |  |
| 5-6 PM      | 1872                         | 0.0       | 1500           | 1501       | 371         | 16.74+                | 424                 | 62.9                  | 9.0            | 30.8 |  |
| 6-7 PM      | 1519                         | 0.0       | 1500           | 1468       | 51          | 16.35+                | 413                 | 63.5                  | 9.1            | 30.8 |  |
| 7-8 PM      | 1203                         | 0.0       | 1499           | 1203       | 0           | 9.94                  | 261                 | 64.1                  | 12.0           | 32.5 |  |
| 8-9 PM      | 802                          | 0.0       | 1500           | 802        | 0           | 0.65                  | 6                   | 64.9                  | 49.2           | 42.4 |  |
| 9-10 PM     | 462                          | 0.0       | 1500           | 462        | 0           | 0.47                  | 0                   | 65.5                  | 53.2           | 43.7 |  |
| 10-11 PM    | 281                          | 0.0       | 1500           | 281        | 0           | 0.45                  | 0                   | 65.9                  | 53.8           | 44.3 |  |
| 11PM-MID    | 132                          | 0.0       | 1500           | 132        | 0           | 0.44                  | 0                   | 66.1                  | 54.3           | 45.0 |  |

+ 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                      | 0.0094   |
| MAIN ROUTE WITH WORKS                         | 0.0061   |
| 'DIVERSION'                                   | 0.0044   |
| <small>PIA: Personal Injury Accidents</small> |          |
| IMPACTS ON ROAD USERS                         |          |
| ROAD USER COSTS PER DAY                       | \$98,316 |
| CONGESTED HOURS PER DAY*                      | 10       |

\*Delays Exceeding User-Specified Maximum

**USH 41: CTH M TO IH 43 (BROWN COUNTY)  
CONTINUOUS (24 HOUR) CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

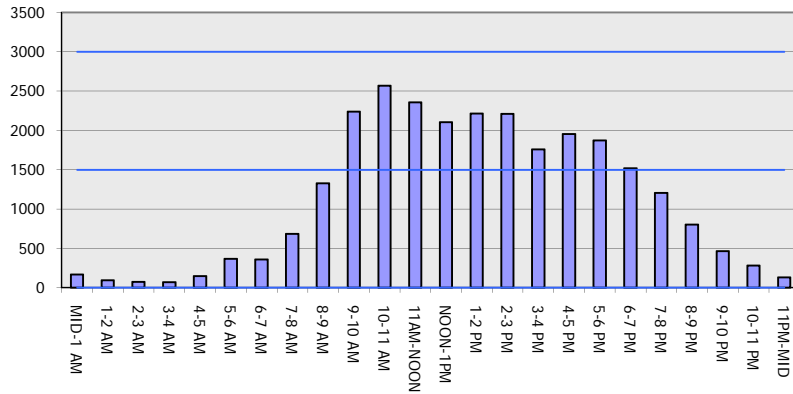
**OCTOBER**

Analyzed for 2009  
Construction Season

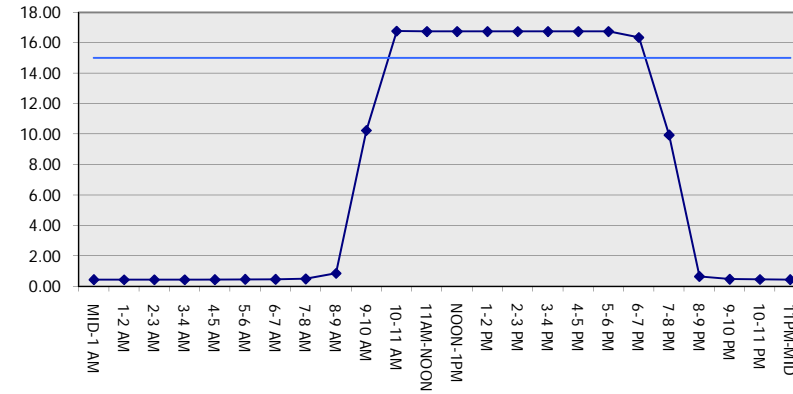
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY SOUTHBOUND DIRECTION**

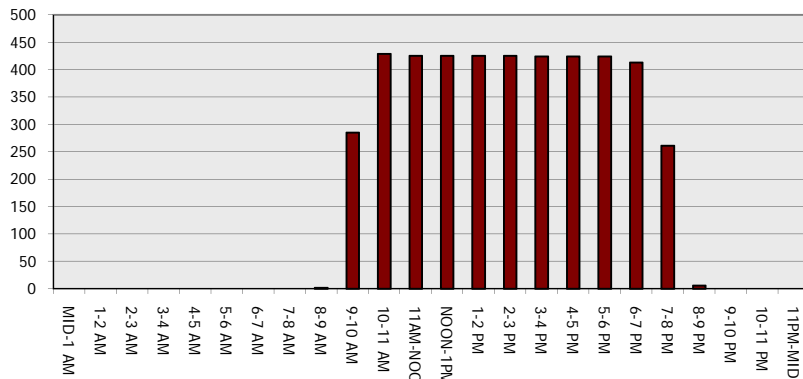
**Main Route - Traffic Demand (Vehicles Per Hour)**



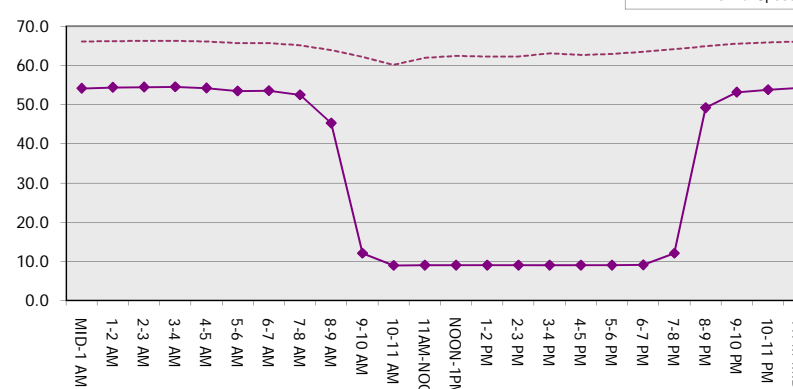
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



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|---|--|
| <b>USH 41: CTH M TO IH 43 (BROWN COUNTY)<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**

SUNDAY 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    | 313                          | 0.0       | 1500           | 313        | 0           | 0.45                  | 0                     | 65.8              | 53.7           | 44.2 |
| 1-2 AM      | 174                          | 0.0       | 1500           | 174        | 0           | 0.44                  | 0                     | 66.1              | 54.2           | 44.8 |
| 2-3 AM      | 148                          | 0.0       | 1500           | 148        | 0           | 0.44                  | 0                     | 66.1              | 54.2           | 44.9 |
| 3-4 AM      | 88                           | 0.0       | 1500           | 88         | 0           | 0.43                  | 0                     | 66.2              | 54.5           | 45.1 |
| 4-5 AM      | 113                          | 0.0       | 1500           | 113        | 0           | 0.43                  | 0                     | 66.2              | 54.3           | 45.0 |
| 5-6 AM      | 182                          | 0.0       | 1500           | 182        | 0           | 0.44                  | 0                     | 66.1              | 54.1           | 44.8 |
| 6-7 AM      | 307                          | 0.0       | 1500           | 307        | 0           | 0.45                  | 0                     | 65.8              | 53.7           | 44.3 |
| 7-8 AM      | 373                          | 0.0       | 1500           | 373        | 0           | 0.46                  | 0                     | 65.7              | 53.5           | 44.0 |
| 8-9 AM      | 490                          | 0.0       | 1500           | 490        | 0           | 0.47                  | 0                     | 65.5              | 53.1           | 43.5 |
| 9-10 AM     | 718                          | 0.0       | 1500           | 718        | 0           | 0.49                  | 0                     | 65.0              | 52.4           | 42.7 |
| 10-11 AM    | 988                          | 0.0       | 1500           | 988        | 0           | 0.52                  | 0                     | 64.5              | 51.5           | 41.7 |
| 11AM-NOON   | 1226                         | 0.0       | 1500           | 1226       | 0           | 0.67                  | 0                     | 64.1              | 48.3           | 37.6 |
| NOON-1PM    | 1181                         | 0.0       | 1500           | 1181       | 0           | 0.61                  | 0                     | 64.2              | 49.4           | 39.1 |
| 1-2 PM      | 1190                         | 0.0       | 1500           | 1190       | 0           | 0.62                  | 0                     | 64.1              | 49.2           | 38.8 |
| 2-3 PM      | 1277                         | 0.0       | 1499           | 1277       | 0           | 0.73                  | 0                     | 64.0              | 47.2           | 36.2 |
| 3-4 PM      | 1583                         | 0.0       | 1499           | 1583       | 0           | 1.75                  | 23                    | 63.5              | 34.4           | 30.8 |
| 4-5 PM      | 1845                         | 0.0       | 1500           | 1845       | 0           | 9.73                  | 255                   | 63.0              | 12.1           | 30.8 |
| 5-6 PM      | 1588                         | 0.0       | 1499           | 1494       | 94          | 16.72+                | 423                   | 63.4              | 9.0            | 30.8 |
| 6-7 PM      | 1213                         | 0.0       | 1499           | 1213       | 0           | 11.68+                | 301                   | 64.1              | 10.9           | 31.9 |
| 7-8 PM      | 839                          | 0.0       | 1500           | 839        | 0           | 0.81                  | 15                    | 64.8              | 46.3           | 42.2 |
| 8-9 PM      | 571                          | 0.0       | 1500           | 571        | 0           | 0.48                  | 0                     | 65.3              | 52.8           | 43.2 |
| 9-10 PM     | 334                          | 0.0       | 1500           | 334        | 0           | 0.45                  | 0                     | 65.8              | 53.6           | 44.2 |
| 10-11 PM    | 261                          | 0.0       | 1500           | 261        | 0           | 0.45                  | 0                     | 65.9              | 53.8           | 44.5 |
| 11PM-MID    | 171                          | 0.0       | 1500           | 171        | 0           | 0.44                  | 0                     | 66.1              | 54.2           | 44.8 |

+ 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           | 0.0060 |
| MAIN ROUTE WITH WORKS              | 0.0049 |
| 'DIVERSION'                        | 0.0001 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |          |
|-------------------------------|----------|
| ROAD USER COSTS PER DAY       | \$19,156 |
| CONGESTED HOURS PER DAY*      | 2        |

\*Delays Exceeding User-Specified Maximum

**USH 41: CTH M TO IH 43 (BROWN 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**  
**SUNDAY NORTHBOUND DIRECTION**

