

|   |  |
|---|--|
| <b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)<br/>                 CONTINUOUS (24 HOUR) CLOSURE<br/>                 NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>MAY</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    | 459                          | 0.0       | 3000           | 459        | 0           | 0.36                  | 0                     | 70.2              | 64.3           | 49.7 |
| 1-2 AM      | 320                          | 0.0       | 3000           | 320        | 0           | 0.36                  | 0                     | 70.2              | 64.3           | 49.7 |
| 2-3 AM      | 294                          | 0.0       | 3000           | 294        | 0           | 0.36                  | 0                     | 70.2              | 64.3           | 49.7 |
| 3-4 AM      | 383                          | 0.0       | 3000           | 383        | 0           | 0.36                  | 0                     | 70.2              | 64.3           | 49.7 |
| 4-5 AM      | 829                          | 0.0       | 3000           | 829        | 0           | 0.35                  | 0                     | 69.7              | 64.0           | 49.7 |
| 5-6 AM      | 2611                         | 0.0       | 2999           | 2611       | 0           | 0.82                  | 20                    | 67.5              | 56.1           | 43.5 |
| 6-7 AM      | 5252                         | 0.0       | 3000           | 3904       | 1348        | 11.33+                | 666                   | 55.0              | 16.9           | 38.0 |
| 7-8 AM      | 6164                         | 0.0       | 3000           | 3000       | 3164        | 13.64+                | 800                   | 48.7              | 14.3           | 38.8 |
| 8-9 AM      | 3986                         | 0.0       | 2999           | 2861       | 1124        | 14.77+                | 788                   | 63.7              | 14.4           | 38.0 |
| 9-10 AM     | 3214                         | 0.0       | 2999           | 2947       | 267         | 15.12+                | 794                   | 66.8              | 14.3           | 37.3 |
| 10-11 AM    | 3010                         | 0.0       | 2999           | 3005       | 5           | 15.22+                | 798                   | 67.0              | 14.3           | 37.3 |
| 11AM-NOON   | 3214                         | 0.0       | 3000           | 3000       | 214         | 15.23+                | 800                   | 66.8              | 14.2           | 37.3 |
| NOON-1PM    | 3356                         | 0.0       | 3000           | 3000       | 356         | 15.22+                | 800                   | 66.6              | 14.2           | 37.3 |
| 1-2 PM      | 3397                         | 0.0       | 3000           | 3000       | 397         | 15.22+                | 800                   | 66.5              | 14.2           | 37.3 |
| 2-3 PM      | 3876                         | 0.0       | 3000           | 3000       | 876         | 15.08+                | 800                   | 64.4              | 14.2           | 37.3 |
| 3-4 PM      | 4352                         | 0.0       | 3000           | 3000       | 1352        | 14.85+                | 800                   | 61.1              | 14.2           | 37.3 |
| 4-5 PM      | 4277                         | 0.0       | 3000           | 3000       | 1277        | 14.89+                | 800                   | 61.7              | 14.2           | 37.3 |
| 5-6 PM      | 3985                         | 0.0       | 3000           | 3000       | 985         | 15.03+                | 800                   | 63.7              | 14.2           | 37.3 |
| 6-7 PM      | 3146                         | 0.0       | 3000           | 2969       | 177         | 15.09+                | 792                   | 66.8              | 14.3           | 37.3 |
| 7-8 PM      | 2322                         | 0.0       | 2999           | 2322       | 0           | 8.09                  | 469                   | 67.9              | 22.7           | 41.2 |
| 8-9 PM      | 1878                         | 0.0       | 3000           | 1878       | 0           | 0.40                  | 3                     | 68.4              | 62.3           | 49.7 |
| 9-10 PM     | 1780                         | 0.0       | 3000           | 1780       | 0           | 0.34                  | 0                     | 68.5              | 63.2           | 49.7 |
| 10-11 PM    | 1424                         | 0.0       | 3000           | 1424       | 0           | 0.34                  | 0                     | 69.0              | 63.5           | 49.7 |
| 11PM-MID    | 1137                         | 0.0       | 3000           | 1137       | 0           | 0.35                  | 0                     | 69.3              | 63.7           | 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 |

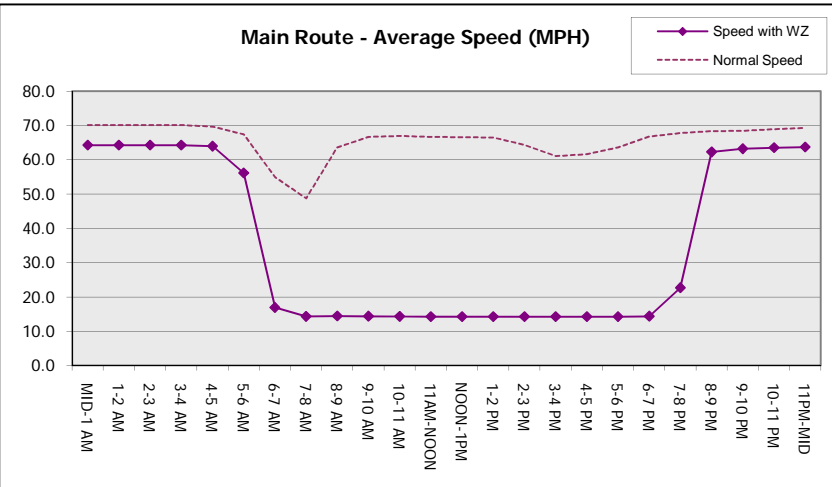
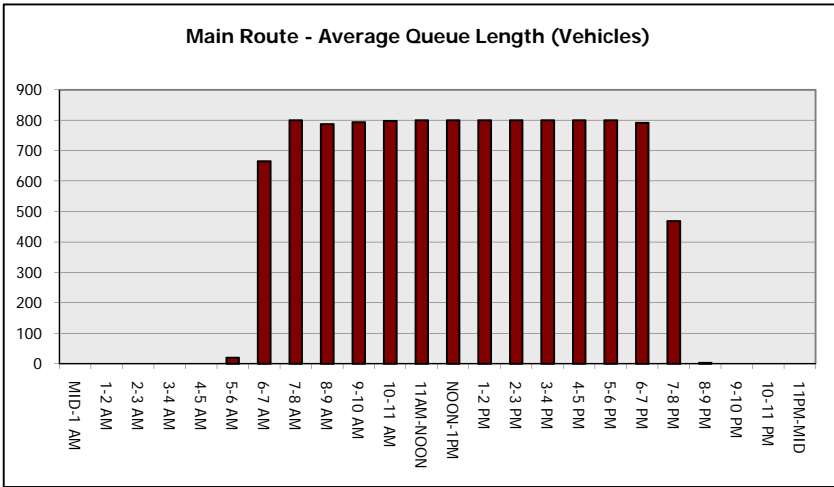
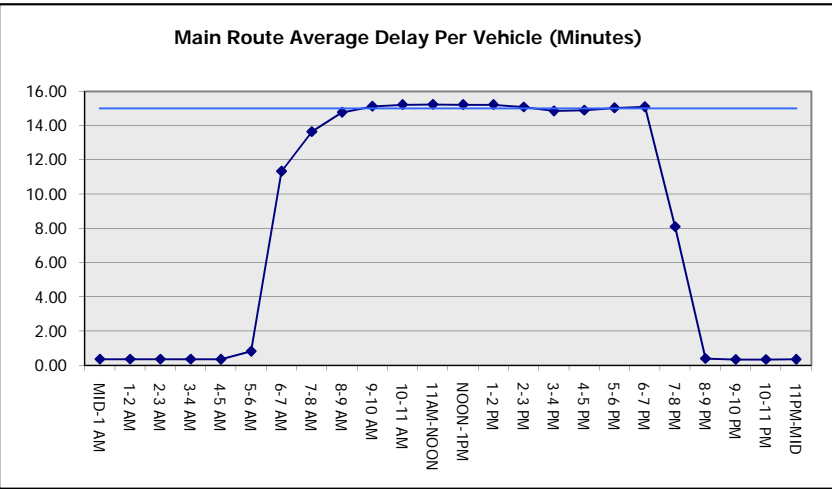
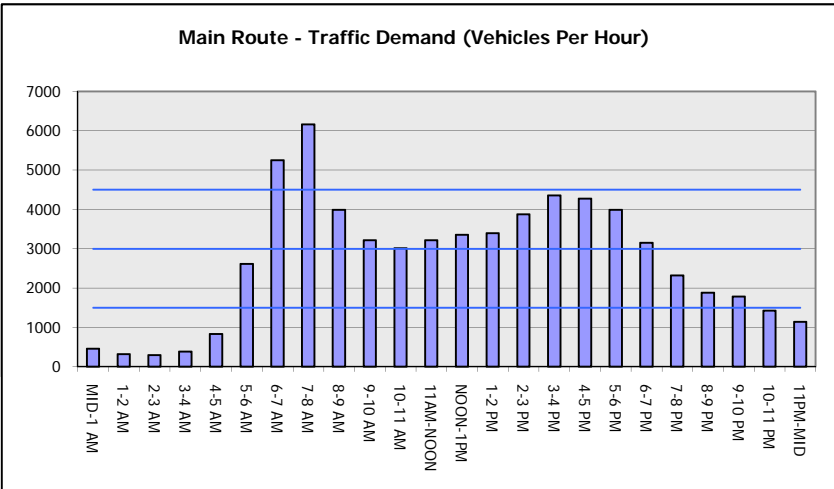
| AVERAGE ACCIDENT NUMBERS (PIA/DAY)            |           |
|---|-----------|
| MAIN ROUTE WITHOUT WORKS                      | 0.0473    |
| MAIN ROUTE WITH WORKS                         | 0.0354    |
| 'DIVERSION'                                   | 0.0196    |
| <small>PIA: Personal Injury Accidents</small> |           |
| IMPACTS ON ROAD USERS                         |           |
| ROAD USER COSTS PER DAY                       | \$172,057 |
| CONGESTED HOURS PER DAY*                      | 13        |

\*Delays Exceeding User-Specified Maximum

**USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)  
CONTINUOUS (24 HOUR) CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
Analyzed for 2009  
Construction Season

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



|   |  |
|---|--|
| <b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b><br><b>CONTINUOUS (24 HOUR) CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>MAY</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    | 582                          | 0.0       | 3000           | 582        | 0           | 0.36                  | 0                   | 70.0                  | 64.2           | 49.7 |  |
| 1-2 AM      | 363                          | 0.0       | 3000           | 363        | 0           | 0.36                  | 0                   | 70.2                  | 64.3           | 49.7 |  |
| 2-3 AM      | 315                          | 0.0       | 3000           | 315        | 0           | 0.36                  | 0                   | 70.2                  | 64.3           | 49.7 |  |
| 3-4 AM      | 355                          | 0.0       | 3000           | 355        | 0           | 0.36                  | 0                   | 70.2                  | 64.3           | 49.7 |  |
| 4-5 AM      | 669                          | 0.0       | 3000           | 669        | 0           | 0.36                  | 0                   | 69.9                  | 64.1           | 49.7 |  |
| 5-6 AM      | 1700                         | 0.0       | 3000           | 1700       | 0           | 0.34                  | 0                   | 68.6                  | 63.3           | 49.7 |  |
| 6-7 AM      | 3253                         | 0.0       | 2999           | 3253       | 0           | 1.95                  | 80                  | 66.7                  | 45.3           | 37.3 |  |
| 7-8 AM      | 3187                         | 0.0       | 2999           | 3187       | 0           | 7.13                  | 357                 | 66.8                  | 24.5           | 37.3 |  |
| 8-9 AM      | 2919                         | 0.0       | 2999           | 2919       | 0           | 8.07                  | 404                 | 67.1                  | 22.7           | 37.3 |  |
| 9-10 AM     | 3037                         | 0.0       | 3000           | 3037       | 0           | 7.43                  | 369                 | 66.9                  | 23.9           | 37.3 |  |
| 10-11 AM    | 3201                         | 0.0       | 3000           | 3201       | 0           | 9.32                  | 478                 | 66.8                  | 20.5           | 37.3 |  |
| 11AM-NOON   | 3638                         | 0.0       | 3000           | 3272       | 366         | 14.52+                | 766                 | 66.0                  | 14.7           | 37.3 |  |
| NOON-1PM    | 3949                         | 0.0       | 3000           | 3000       | 949         | 15.04+                | 800                 | 63.9                  | 14.2           | 37.3 |  |
| 1-2 PM      | 4193                         | 0.0       | 3000           | 3000       | 1193        | 14.93+                | 800                 | 62.2                  | 14.2           | 37.3 |  |
| 2-3 PM      | 5191                         | 0.0       | 3000           | 3000       | 2191        | 14.38+                | 800                 | 55.4                  | 14.2           | 37.3 |  |
| 3-4 PM      | 6328                         | 0.0       | 3000           | 3000       | 3328        | 13.57+                | 800                 | 47.6                  | 14.2           | 37.3 |  |
| 4-5 PM      | 7122                         | 0.0       | 3000           | 3000       | 4122        | 12.83+                | 800                 | 42.2                  | 14.2           | 37.3 |  |
| 5-6 PM      | 6305                         | 0.0       | 3000           | 3000       | 3305        | 13.59+                | 800                 | 47.8                  | 14.2           | 37.3 |  |
| 6-7 PM      | 4137                         | 0.0       | 3000           | 3000       | 1137        | 14.96+                | 800                 | 62.6                  | 14.2           | 37.3 |  |
| 7-8 PM      | 2955                         | 0.0       | 2999           | 2762       | 193         | 14.11+                | 739                 | 67.1                  | 15.2           | 37.3 |  |
| 8-9 PM      | 2306                         | 0.0       | 2999           | 2306       | 0           | 4.77                  | 310                 | 67.9                  | 31.2           | 42.9 |  |
| 9-10 PM     | 2214                         | 0.0       | 3000           | 2214       | 0           | 0.33                  | 0                   | 68.0                  | 62.8           | 49.7 |  |
| 10-11 PM    | 2035                         | 0.0       | 3000           | 2035       | 0           | 0.33                  | 0                   | 68.2                  | 63.0           | 49.7 |  |
| 11PM-MID    | 1313                         | 0.0       | 3000           | 1313       | 0           | 0.35                  | 0                   | 69.1                  | 63.6           | 49.7 |  |

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

WARNING: THE DEMAND FLOW IN ONE OR MORE HOURS EXCEEDS THE THEORETICAL CAPACITY OF THE MAIN ROUTE \*WITHOUT\* CONSTRUCTION

| *----- 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           | 0.0522 |
| MAIN ROUTE WITH WORKS              | 0.0363 |
| 'DIVERSION'                        | 0.0284 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |           |
|-------------------------------|-----------|
| ROAD USER COSTS PER DAY       | \$165,002 |
| CONGESTED HOURS PER DAY*      | 9         |

\*Delays Exceeding User-Specified Maximum

**USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)  
 CONTINUOUS (24 HOUR) CLOSURE  
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
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 Construction Season

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

