

|  |  |
|--|--|
| <b>USH 41: USH 10 TO STH 114 (WINNEBAGO COUNTY)<br/>                 CONTINUOUS (24 HOUR) CLOSURE<br/>                 NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>AUGUST</b>                            |
|  | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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    | 471                          | 0.0       | 3000           | 471        | 0           | 0.36                  | 0                     | 70.2              | 61.8           | 49.7 |
| 1-2 AM      | 326                          | 0.0       | 3000           | 326        | 0           | 0.36                  | 0                     | 70.2              | 61.8           | 49.7 |
| 2-3 AM      | 271                          | 0.0       | 3000           | 271        | 0           | 0.36                  | 0                     | 70.2              | 61.8           | 49.7 |
| 3-4 AM      | 206                          | 0.0       | 3000           | 206        | 0           | 0.36                  | 0                     | 70.2              | 61.8           | 49.7 |
| 4-5 AM      | 336                          | 0.0       | 3000           | 336        | 0           | 0.36                  | 0                     | 70.2              | 61.8           | 49.7 |
| 5-6 AM      | 503                          | 0.0       | 3000           | 503        | 0           | 0.36                  | 0                     | 70.1              | 61.8           | 49.7 |
| 6-7 AM      | 910                          | 0.0       | 3000           | 910        | 0           | 0.35                  | 0                     | 69.6              | 61.5           | 49.7 |
| 7-8 AM      | 1448                         | 0.0       | 3000           | 1448       | 0           | 0.34                  | 0                     | 68.9              | 61.2           | 49.7 |
| 8-9 AM      | 2101                         | 0.0       | 3000           | 2101       | 0           | 0.33                  | 0                     | 68.1              | 60.7           | 49.7 |
| 9-10 AM     | 2478                         | 0.0       | 3000           | 2478       | 0           | 0.39                  | 0                     | 67.6              | 59.3           | 47.3 |
| 10-11 AM    | 2813                         | 0.0       | 3000           | 2813       | 0           | 0.61                  | 0                     | 67.3              | 55.1           | 40.3 |
| 11AM-NOON   | 2956                         | 0.0       | 3000           | 2956       | 0           | 0.70                  | 0                     | 67.1              | 53.5           | 37.9 |
| NOON-1PM    | 2869                         | 0.0       | 3000           | 2869       | 0           | 0.64                  | 0                     | 67.2              | 54.5           | 39.4 |
| 1-2 PM      | 2847                         | 0.0       | 3000           | 2847       | 0           | 0.63                  | 0                     | 67.2              | 54.8           | 39.7 |
| 2-3 PM      | 2794                         | 0.0       | 3000           | 2794       | 0           | 0.59                  | 0                     | 67.3              | 55.4           | 40.7 |
| 3-4 PM      | 2606                         | 0.0       | 3000           | 2606       | 0           | 0.47                  | 0                     | 67.5              | 57.6           | 44.4 |
| 4-5 PM      | 2518                         | 0.0       | 3000           | 2518       | 0           | 0.41                  | 0                     | 67.6              | 58.7           | 46.4 |
| 5-6 PM      | 2235                         | 0.0       | 3000           | 2235       | 0           | 0.33                  | 0                     | 67.9              | 60.6           | 49.7 |
| 6-7 PM      | 1852                         | 0.0       | 3000           | 1852       | 0           | 0.34                  | 0                     | 68.4              | 60.9           | 49.7 |
| 7-8 PM      | 1598                         | 0.0       | 3000           | 1598       | 0           | 0.34                  | 0                     | 68.7              | 61.0           | 49.7 |
| 8-9 PM      | 1496                         | 0.0       | 3000           | 1496       | 0           | 0.34                  | 0                     | 68.9              | 61.1           | 49.7 |
| 9-10 PM     | 1575                         | 0.0       | 3000           | 1575       | 0           | 0.34                  | 0                     | 68.8              | 61.0           | 49.7 |
| 10-11 PM    | 1743                         | 0.0       | 3000           | 1743       | 0           | 0.34                  | 0                     | 68.6              | 61.0           | 49.7 |
| 11PM-MID    | 1888                         | 0.0       | 3000           | 1888       | 0           | 0.34                  | 0                     | 68.4              | 60.9           | 49.7 |

**\*----- 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 | 0.0202 |
| MAIN ROUTE WITH WORKS    | 0.0175 |
| 'DIVERSION'              | 0.0000 |

PIA: Personal Injury Accidents

**IMPACTS ON ROAD USERS**

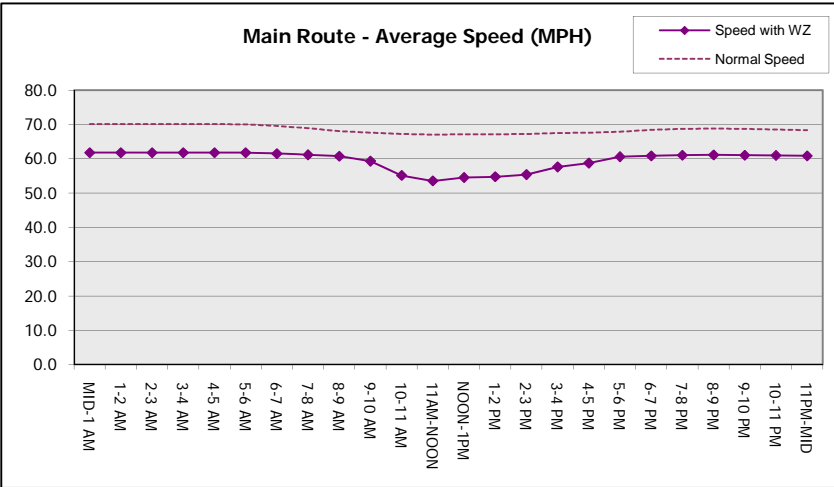
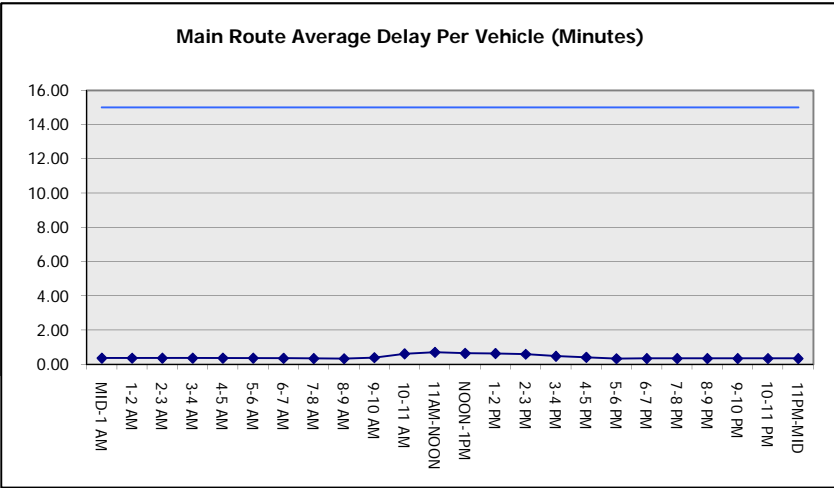
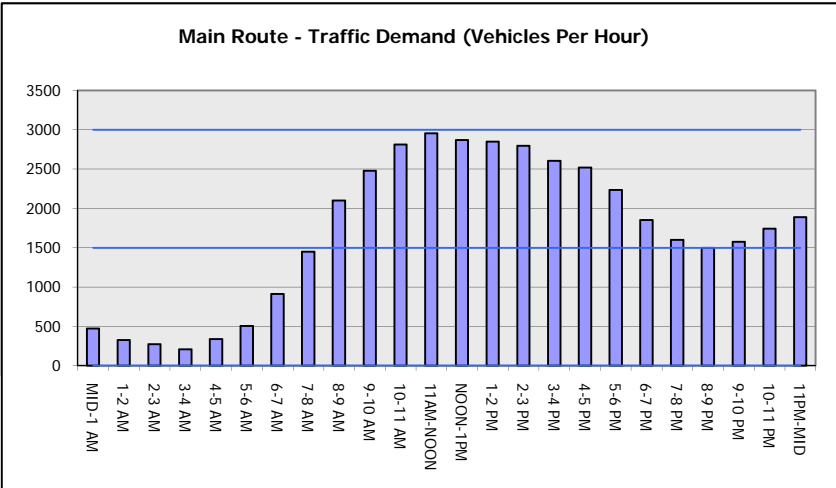
|                          |         |
|--------------------------|---------|
| ROAD USER COSTS PER DAY  | \$5,227 |
| CONGESTED HOURS PER DAY* | 0       |

\*Delays Exceeding User-Specified Maximum

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CONTINUOUS (24 HOUR) CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
Analyzed for 2009  
Construction Season

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



|  |  |
|--|--|
| <b>USH 41: USH 10 TO STH 114 (WINNEBAGO COUNTY)<br/>                 CONTINUOUS (24 HOUR) CLOSURE<br/>                 NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>AUGUST</b>                            |
|  | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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    | 580                          | 0.0       | 3000           | 580        | 0           | 0.36                  | 0                   | 70.0                  | 61.7           | 49.7 |
| 1-2 AM      | 378                          | 0.0       | 3000           | 378        | 0           | 0.36                  | 0                   | 70.2                  | 61.8           | 49.7 |
| 2-3 AM      | 274                          | 0.0       | 3000           | 274        | 0           | 0.36                  | 0                   | 70.2                  | 61.8           | 49.7 |
| 3-4 AM      | 223                          | 0.0       | 3000           | 223        | 0           | 0.36                  | 0                   | 70.2                  | 61.8           | 49.7 |
| 4-5 AM      | 292                          | 0.0       | 3000           | 292        | 0           | 0.36                  | 0                   | 70.2                  | 61.8           | 49.7 |
| 5-6 AM      | 491                          | 0.0       | 3000           | 491        | 0           | 0.36                  | 0                   | 70.1                  | 61.8           | 49.7 |
| 6-7 AM      | 763                          | 0.0       | 3000           | 763        | 0           | 0.35                  | 0                   | 69.8                  | 61.6           | 49.7 |
| 7-8 AM      | 1160                         | 0.0       | 3000           | 1160       | 0           | 0.35                  | 0                   | 69.3                  | 61.4           | 49.7 |
| 8-9 AM      | 1658                         | 0.0       | 3000           | 1658       | 0           | 0.34                  | 0                   | 68.7                  | 61.0           | 49.7 |
| 9-10 AM     | 2175                         | 0.0       | 2999           | 2175       | 0           | 0.33                  | 0                   | 68.0                  | 60.7           | 49.7 |
| 10-11 AM    | 2877                         | 0.0       | 2999           | 2877       | 0           | 0.66                  | 0                   | 67.1                  | 54.3           | 39.4 |
| 11AM-NOON   | 3216                         | 0.0       | 3000           | 3216       | 0           | 2.23                  | 93                  | 66.8                  | 37.1           | 37.3 |
| NOON-1PM    | 3453                         | 0.0       | 3000           | 3453       | 0           | 8.19                  | 434                 | 66.4                  | 17.1           | 37.3 |
| 1-2 PM      | 3562                         | 0.0       | 2999           | 3222       | 340         | 15.61+                | 823                 | 66.3                  | 11.9           | 37.3 |
| 2-3 PM      | 3616                         | 0.0       | 2999           | 2987       | 629         | 16.11+                | 850                 | 66.1                  | 11.7           | 37.3 |
| 3-4 PM      | 3494                         | 0.0       | 2999           | 2991       | 503         | 16.11+                | 849                 | 66.4                  | 11.7           | 37.3 |
| 4-5 PM      | 3312                         | 0.0       | 2999           | 2993       | 318         | 16.11+                | 848                 | 66.6                  | 11.7           | 37.3 |
| 5-6 PM      | 3051                         | 0.0       | 2999           | 2949       | 103         | 16.01+                | 842                 | 66.9                  | 11.7           | 37.3 |
| 6-7 PM      | 2240                         | 0.0       | 2999           | 2240       | 0           | 7.87+                 | 478                 | 67.9                  | 18.3           | 42.4 |
| 7-8 PM      | 1627                         | 0.0       | 3000           | 1627       | 0           | 0.36                  | 1                   | 68.7                  | 60.7           | 49.7 |
| 8-9 PM      | 1438                         | 0.0       | 3000           | 1438       | 0           | 0.34                  | 0                   | 68.9                  | 61.2           | 49.7 |
| 9-10 PM     | 1231                         | 0.0       | 3000           | 1231       | 0           | 0.35                  | 0                   | 69.2                  | 61.3           | 49.7 |
| 10-11 PM    | 1149                         | 0.0       | 3000           | 1149       | 0           | 0.35                  | 0                   | 69.3                  | 61.4           | 49.7 |
| 11PM-MID    | 784                          | 0.0       | 3000           | 784        | 0           | 0.35                  | 0                   | 69.7                  | 61.6           | 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           | 0.0212 |
| MAIN ROUTE WITH WORKS              | 0.0176 |
| 'DIVERSION'                        | 0.0022 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |          |
|-------------------------------|----------|
| ROAD USER COSTS PER DAY       | \$92,674 |
| CONGESTED HOURS PER DAY*      | 6        |

\*Delays Exceeding User-Specified Maximum

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**SATURDAY NORTHBOUND DIRECTION**

