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| <b>USH 41: 9TH AVE TO STH 44 (WINNEBAGO COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 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**

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    | 286                          | 0.0       | 1500           | 286        | 0           | 0.45                  | 0                     | 65.8              | 48.6           | 44.3 |
| 1-2 AM      | 182                          | 0.0       | 1500           | 182        | 0           | 0.44                  | 0                     | 66.1              | 49.1           | 44.8 |
| 2-3 AM      | 150                          | 0.0       | 1500           | 150        | 0           | 0.44                  | 0                     | 66.1              | 49.2           | 44.9 |
| 3-4 AM      | 121                          | 0.0       | 1500           | 121        | 0           | 0.43                  | 0                     | 66.1              | 49.2           | 45.0 |
| 4-5 AM      | 210                          | 0.0       | 1500           | 210        | 0           | 0.44                  | 0                     | 66.0              | 48.9           | 44.6 |
| 5-6 AM      | 340                          | 0.0       | 1500           | 340        | 0           | 0.46                  | 0                     | 65.8              | 48.4           | 44.2 |
| 6-7 AM      | 610                          | 0.0       | 1500           | 610        | 0           | 0.48                  | 0                     | 65.3              | 47.4           | 43.1 |
| 7-8 AM      | 997                          | 0.0       | 1499           | 997        | 0           | 0.52                  | 0                     | 64.5              | 46.1           | 41.7 |
| 8-9 AM      | 1531                         | 0.0       | 1499           | 1531       | 0           | 1.44                  | 16                    | 63.5              | 30.4           | 31.5 |
| 9-10 AM     | 1814                         | 0.0       | 1500           | 1814       | 0           | 7.99                  | 205                   | 63.0              | 11.4           | 30.8 |
| 10-11 AM    | 2092                         | 0.0       | 1499           | 1514       | 578         | 17.33+                | 440                   | 62.5              | 7.8            | 30.8 |
| 11AM-NOON   | 2163                         | 0.0       | 1500           | 1511       | 652         | 17.33+                | 441                   | 62.3              | 7.8            | 30.8 |
| NOON-1PM    | 2136                         | 0.0       | 1500           | 1508       | 628         | 17.33+                | 441                   | 62.4              | 7.8            | 30.8 |
| 1-2 PM      | 2036                         | 0.0       | 1500           | 1506       | 530         | 17.32+                | 440                   | 62.6              | 7.8            | 30.8 |
| 2-3 PM      | 2006                         | 0.0       | 1500           | 1505       | 501         | 17.32+                | 440                   | 62.7              | 7.8            | 30.8 |
| 3-4 PM      | 1846                         | 0.0       | 1500           | 1504       | 342         | 17.31+                | 440                   | 63.0              | 7.8            | 30.8 |
| 4-5 PM      | 1751                         | 0.0       | 1500           | 1503       | 248         | 17.30+                | 439                   | 63.1              | 7.8            | 30.8 |
| 5-6 PM      | 1533                         | 0.0       | 1500           | 1486       | 47          | 17.02+                | 431                   | 63.5              | 7.9            | 30.8 |
| 6-7 PM      | 1247                         | 0.0       | 1499           | 1247       | 0           | 11.95+                | 303                   | 64.1              | 9.3            | 31.1 |
| 7-8 PM      | 1105                         | 0.0       | 1500           | 1105       | 0           | 1.25                  | 37                    | 64.3              | 33.1           | 39.0 |
| 8-9 PM      | 954                          | 0.0       | 1500           | 954        | 0           | 0.51                  | 0                     | 64.6              | 46.3           | 41.9 |
| 9-10 PM     | 917                          | 0.0       | 1500           | 917        | 0           | 0.51                  | 0                     | 64.6              | 46.4           | 42.0 |
| 10-11 PM    | 1018                         | 0.0       | 1500           | 1018       | 0           | 0.52                  | 0                     | 64.5              | 46.0           | 41.6 |
| 11PM-MID    | 1039                         | 0.0       | 1500           | 1039       | 0           | 0.52                  | 0                     | 64.5              | 46.0           | 41.5 |

+ 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 |

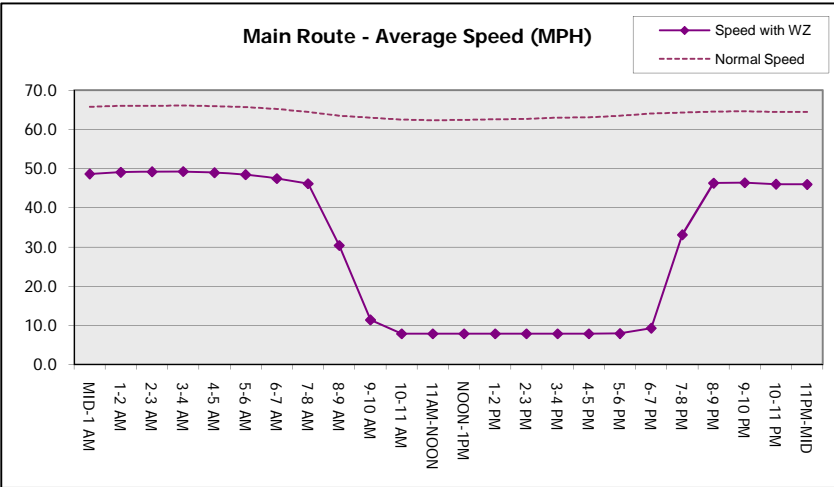
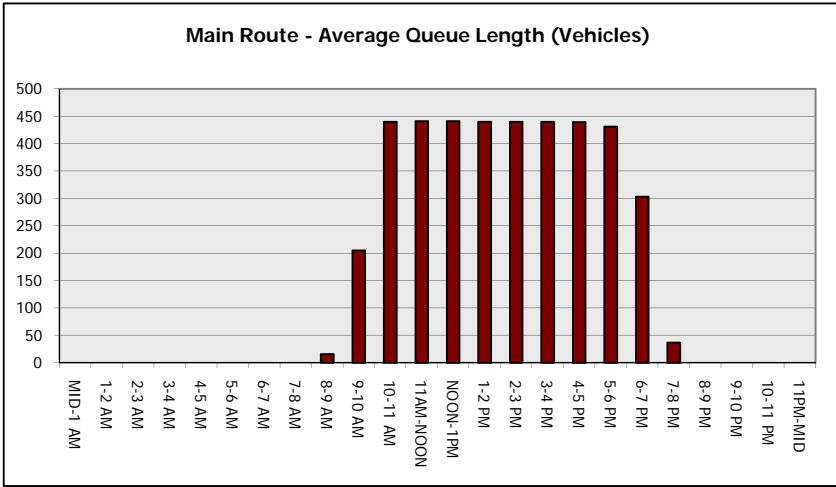
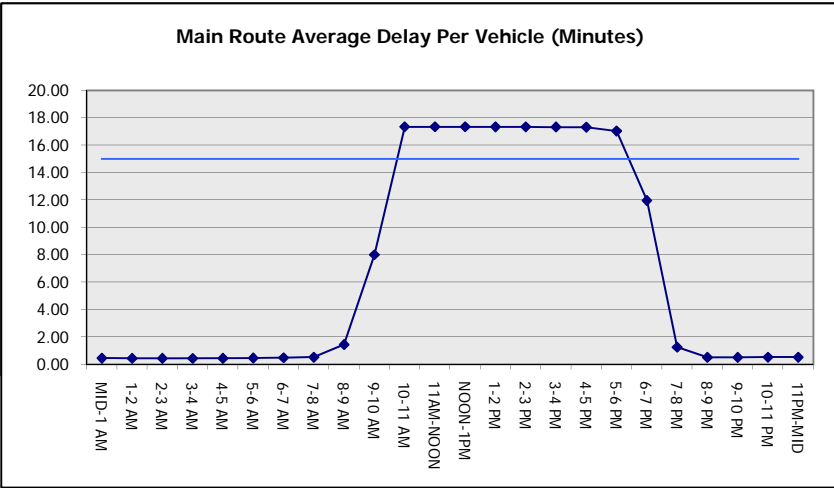
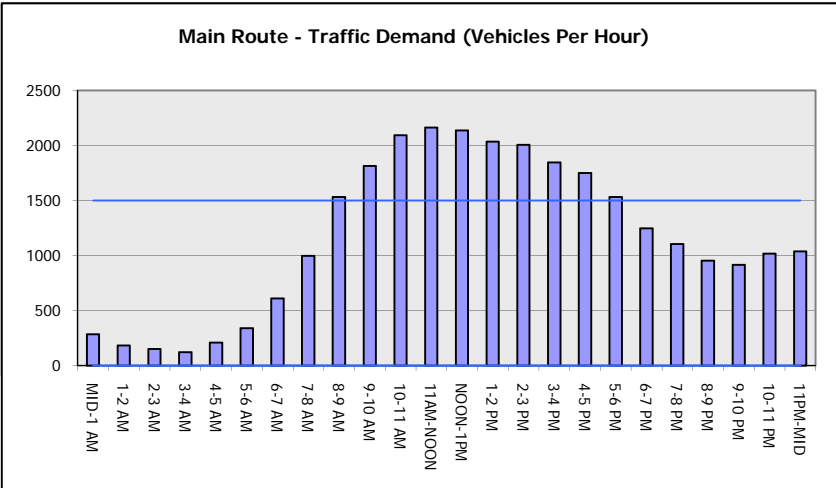
| AVERAGE ACCIDENT NUMBERS (PIA/DAY) |          |
|------------------------------------|----------|
| MAIN ROUTE WITHOUT WORKS           | 0.0062   |
| MAIN ROUTE WITH WORKS              | 0.0038   |
| 'DIVERSION'                        | 0.0018   |
| PIA: Personal Injury Accidents     |          |
| IMPACTS ON ROAD USERS              |          |
| ROAD USER COSTS PER DAY            | \$85,990 |
| CONGESTED HOURS PER DAY*           | 9        |

\*Delays Exceeding User-Specified Maximum

**USH 41: 9TH AVE TO STH 44 (WINNEBAGO COUNTY)  
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: 9TH AVE TO STH 44 (WINNEBAGO COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 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**

**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    | 332                          | 0.0       | 1500           | 332        | 0           | 0.45                  | 0                     | 65.8              | 48.5           | 44.2 |
| 1-2 AM      | 221                          | 0.0       | 1500           | 221        | 0           | 0.44                  | 0                     | 66.0              | 48.9           | 44.6 |
| 2-3 AM      | 148                          | 0.0       | 1500           | 148        | 0           | 0.44                  | 0                     | 66.1              | 49.2           | 44.9 |
| 3-4 AM      | 141                          | 0.0       | 1500           | 141        | 0           | 0.44                  | 0                     | 66.1              | 49.2           | 44.9 |
| 4-5 AM      | 172                          | 0.0       | 1500           | 172        | 0           | 0.44                  | 0                     | 66.1              | 49.1           | 44.8 |
| 5-6 AM      | 350                          | 0.0       | 1500           | 350        | 0           | 0.46                  | 0                     | 65.8              | 48.4           | 44.1 |
| 6-7 AM      | 515                          | 0.0       | 1500           | 515        | 0           | 0.47                  | 0                     | 65.5              | 47.8           | 43.5 |
| 7-8 AM      | 807                          | 0.0       | 1500           | 807        | 0           | 0.50                  | 0                     | 64.9              | 46.8           | 42.4 |
| 8-9 AM      | 1144                         | 0.0       | 1499           | 1144       | 0           | 0.60                  | 0                     | 64.3              | 44.0           | 39.4 |
| 9-10 AM     | 1565                         | 0.0       | 1499           | 1565       | 0           | 1.57                  | 21                    | 63.5              | 29.0           | 31.2 |
| 10-11 AM    | 1992                         | 0.0       | 1500           | 1889       | 103         | 11.20+                | 297                   | 62.7              | 9.7            | 30.8 |
| 11AM-NOON   | 2145                         | 0.0       | 1500           | 1492       | 653         | 17.34+                | 441                   | 62.4              | 7.8            | 30.8 |
| NOON-1PM    | 2166                         | 0.0       | 1499           | 1494       | 672         | 17.34+                | 441                   | 62.3              | 7.8            | 30.8 |
| 1-2 PM      | 2185                         | 0.0       | 1499           | 1496       | 690         | 17.34+                | 441                   | 62.3              | 7.8            | 30.8 |
| 2-3 PM      | 2125                         | 0.0       | 1499           | 1497       | 628         | 17.33+                | 441                   | 62.4              | 7.8            | 30.8 |
| 3-4 PM      | 2073                         | 0.0       | 1499           | 1497       | 576         | 17.33+                | 440                   | 62.5              | 7.8            | 30.8 |
| 4-5 PM      | 1976                         | 0.0       | 1499           | 1498       | 479         | 17.32+                | 440                   | 62.7              | 7.8            | 30.8 |
| 5-6 PM      | 1785                         | 0.0       | 1499           | 1498       | 287         | 17.31+                | 439                   | 63.0              | 7.8            | 30.8 |
| 6-7 PM      | 1359                         | 0.0       | 1499           | 1359       | 0           | 15.74+                | 398                   | 63.8              | 8.1            | 30.8 |
| 7-8 PM      | 1035                         | 0.0       | 1499           | 1035       | 0           | 2.47                  | 110                   | 64.5              | 24.5           | 38.0 |
| 8-9 PM      | 904                          | 0.0       | 1500           | 904        | 0           | 0.51                  | 0                     | 64.7              | 46.5           | 42.0 |
| 9-10 PM     | 776                          | 0.0       | 1500           | 776        | 0           | 0.50                  | 0                     | 65.0              | 46.9           | 42.5 |
| 10-11 PM    | 636                          | 0.0       | 1500           | 636        | 0           | 0.48                  | 0                     | 65.2              | 47.4           | 43.0 |
| 11PM-MID    | 443                          | 0.0       | 1500           | 443        | 0           | 0.47                  | 0                     | 65.6              | 48.1           | 43.7 |

+ 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           | 0.0060 |
| MAIN ROUTE WITH WORKS              | 0.0036 |
| 'DIVERSION'                        | 0.0021 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |          |
|-------------------------------|----------|
| ROAD USER COSTS PER DAY       | \$85,157 |
| CONGESTED HOURS PER DAY*      | 9        |

\*Delays Exceeding User-Specified Maximum

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