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|--|--|
| IH 43: STH 100/BROWN DEER RD TO SILVER SPRING DR (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD) | AUGUST |
| | Analyzed for 2009 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 | 849 | 0.0 | 1500 | 849 | 0 | 0.50 | 0 | 64.8 | 55.6 | 42.2 |
| 1-2 AM | 430 | 0.0 | 1500 | 430 | 0 | 0.46 | 0 | 65.6 | 56.8 | 43.8 |
| 2-3 AM | 154 | 0.0 | 1500 | 154 | 0 | 0.44 | 0 | 66.1 | 57.7 | 44.8 |
| 3-4 AM | 126 | 0.0 | 1500 | 126 | 0 | 0.43 | 0 | 66.1 | 57.8 | 45.0 |
| 4-5 AM | 159 | 0.0 | 1500 | 159 | 0 | 0.44 | 0 | 66.1 | 57.6 | 44.8 |
| 5-6 AM | 271 | 0.0 | 1500 | 271 | 0 | 0.45 | 0 | 65.9 | 57.3 | 44.4 |
| 6-7 AM | 485 | 0.0 | 1500 | 485 | 0 | 0.47 | 0 | 65.5 | 56.7 | 43.6 |
| 7-8 AM | 719 | 0.0 | 1500 | 719 | 0 | 0.49 | 0 | 65.0 | 56.0 | 42.7 |
| 8-9 AM | 1084 | 0.0 | 1499 | 1084 | 0 | 0.58 | 0 | 64.3 | 54.1 | 39.9 |
| 9-10 AM | 1750 | 0.0 | OFF | 1750 | 0 | 0.00 | 0 | 63.2 | 63.2 | 63.2 |
| 10-11 AM | 2347 | 0.0 | OFF | 2347 | 0 | 0.00 | 0 | 62.0 | 62.0 | 62.0 |
| 11AM-NOON | 2767 | 0.0 | OFF | 2767 | 0 | 0.00 | 0 | 58.1 | 58.1 | 58.1 |
| NOON-1PM | 3081 | 0.0 | OFF | 3081 | 0 | 0.00 | 0 | 55.0 | 55.0 | 55.0 |
| 1-2 PM | 3048 | 0.0 | OFF | 3048 | 0 | 0.00 | 0 | 55.3 | 55.3 | 55.3 |
| 2-3 PM | 3110 | 0.0 | OFF | 3110 | 0 | 0.00 | 0 | 54.6 | 54.6 | 54.6 |
| 3-4 PM | 3131 | 0.0 | OFF | 3131 | 0 | 0.00 | 0 | 54.4 | 54.4 | 54.4 |
| 4-5 PM | 3141 | 0.0 | OFF | 3141 | 0 | 0.00 | 0 | 54.3 | 54.3 | 54.3 |
| 5-6 PM | 2816 | 0.0 | OFF | 2816 | 0 | 0.00 | 0 | 57.6 | 57.6 | 57.6 |
| 6-7 PM | 2635 | 0.0 | OFF | 2635 | 0 | 0.00 | 0 | 59.5 | 59.5 | 59.5 |
| 7-8 PM | 2079 | 0.0 | 1499 | 1856 | 224 | 10.43+ | 286 | 62.5 | 14.7 | 30.8 |
| 8-9 PM | 1759 | 0.0 | 1500 | 1543 | 216 | 15.78+ | 398 | 63.1 | 10.7 | 30.8 |
| 9-10 PM | 1315 | 0.0 | 1499 | 1315 | 0 | 13.28+ | 337 | 64.0 | 12.2 | 30.9 |
| 10-11 PM | 776 | 0.0 | 1500 | 776 | 0 | 1.23 | 36 | 65.0 | 46.3 | 42.3 |
| 11PM-MID | 477 | 0.0 | 1500 | 477 | 0 | 0.47 | 0 | 65.5 | 56.7 | 43.6 |

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

| *----- SITE BREAKDOWN DELAYS -----* | |
|-------------------------------------|------|
| BREAKDOWN DURATION (MINS) | 0 |
| RANGE OF QUEUE DELAY - MIN | 0.0 |
| (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 | 0 |
| (VEH-H) MAX | 0 |
| AV BREAKDOWNS PER DAY | 0 |
| AV QUEUE DELAY/DAY (VEH-H) | 0 |
| AV TOTAL DELAY/DAY (VEH-H) | 0 |

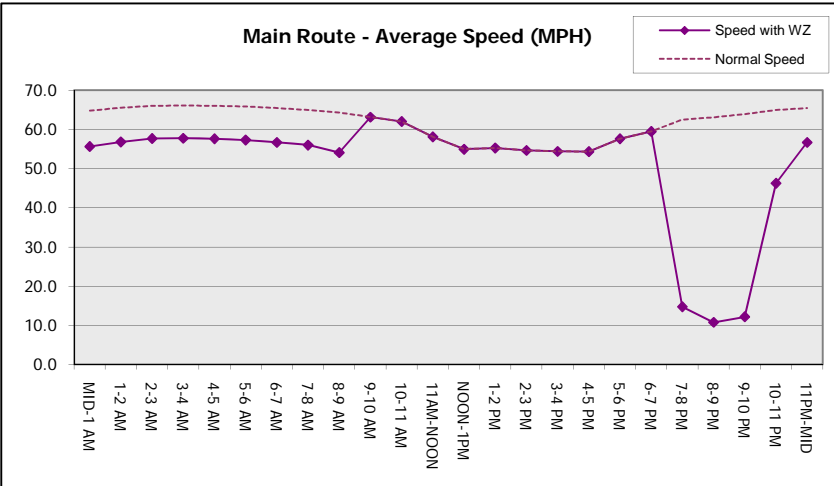
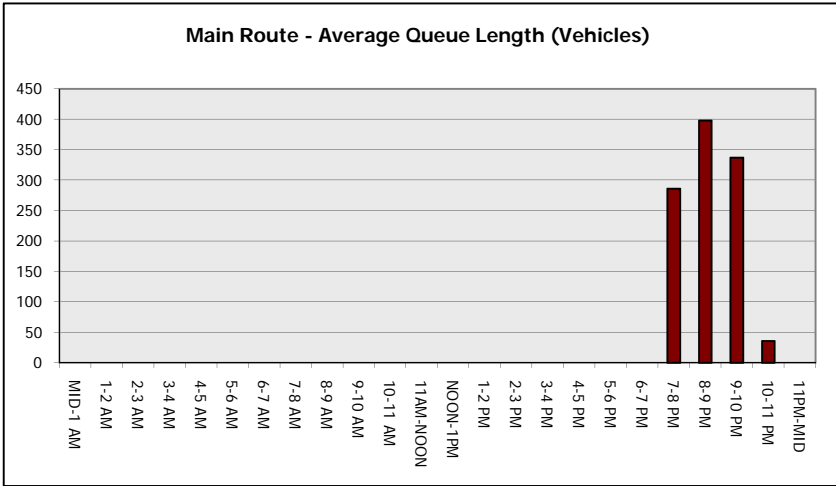
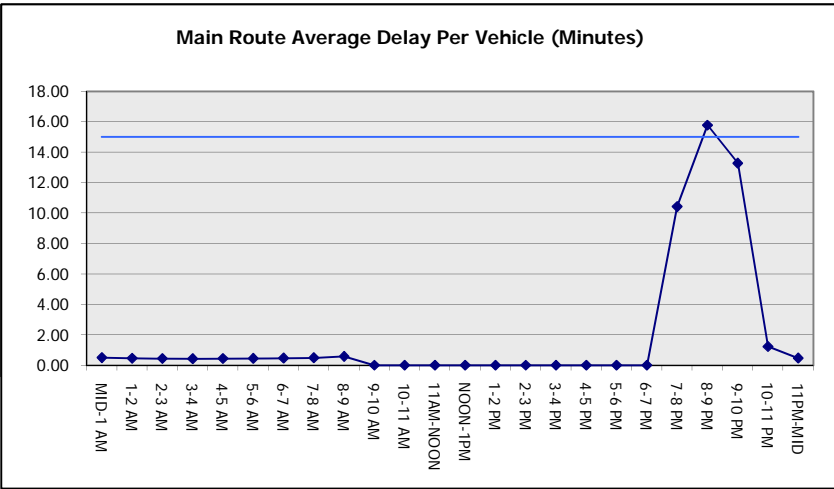
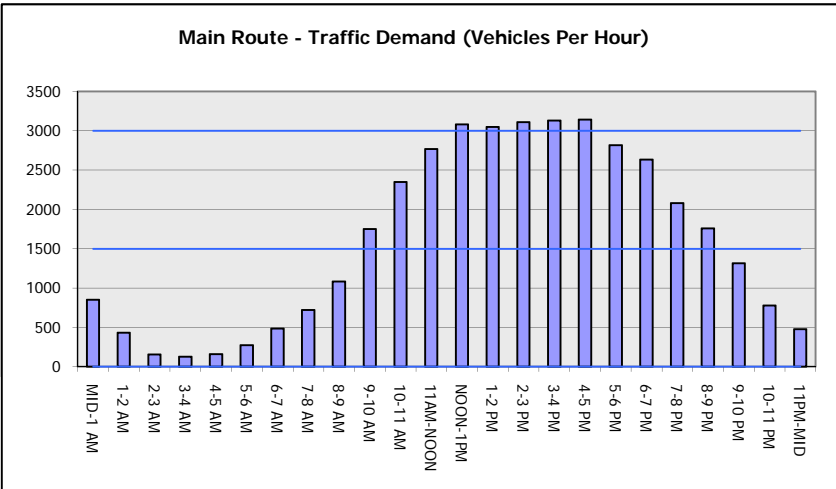
| AVERAGE ACCIDENT NUMBERS (PIA/DAY) | |
|---|----------|
| MAIN ROUTE WITHOUT WORKS | 0.0202 |
| MAIN ROUTE WITH WORKS | 0.0193 |
| 'DIVERSION' | 0.0005 |
| <small>PIA: Personal Injury Accidents</small> | |
| IMPACTS ON ROAD USERS | |
| ROAD USER COSTS PER DAY | \$19,047 |
| CONGESTED HOURS PER DAY* | 3 |

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



| | |
|--|--|
| IH 43: STH 100/BROWN DEER RD TO SILVER SPRING DR (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD) | AUGUST |
| | Analyzed for 2009 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 | 646 | 0.0 | 1500 | 646 | 0 | 0.49 | 0 | 65.2 | 56.2 | 43.0 |
| 1-2 AM | 394 | 0.0 | 1500 | 394 | 0 | 0.46 | 0 | 65.6 | 56.9 | 43.9 |
| 2-3 AM | 295 | 0.0 | 1500 | 295 | 0 | 0.45 | 0 | 65.8 | 57.3 | 44.3 |
| 3-4 AM | 188 | 0.0 | 1500 | 188 | 0 | 0.44 | 0 | 66.0 | 57.6 | 44.7 |
| 4-5 AM | 150 | 0.0 | 1500 | 150 | 0 | 0.44 | 0 | 66.1 | 57.7 | 44.9 |
| 5-6 AM | 225 | 0.0 | 1500 | 225 | 0 | 0.44 | 0 | 66.0 | 57.4 | 44.6 |
| 6-7 AM | 424 | 0.0 | 1500 | 424 | 0 | 0.46 | 0 | 65.6 | 56.9 | 43.8 |
| 7-8 AM | 611 | 0.0 | 1500 | 611 | 0 | 0.48 | 0 | 65.3 | 56.3 | 43.1 |
| 8-9 AM | 900 | 0.0 | 1500 | 900 | 0 | 0.51 | 0 | 64.7 | 55.5 | 42.0 |
| 9-10 AM | 1355 | 0.0 | OFF | 1355 | 0 | 0.00 | 0 | 63.8 | 63.8 | 63.8 |
| 10-11 AM | 1815 | 0.0 | OFF | 1815 | 0 | 0.00 | 0 | 63.0 | 63.0 | 63.0 |
| 11AM-NOON | 2145 | 0.0 | OFF | 2145 | 0 | 0.00 | 0 | 62.4 | 62.4 | 62.4 |
| NOON-1PM | 2450 | 0.0 | OFF | 2450 | 0 | 0.00 | 0 | 61.4 | 61.4 | 61.4 |
| 1-2 PM | 2554 | 0.0 | OFF | 2554 | 0 | 0.00 | 0 | 60.4 | 60.4 | 60.4 |
| 2-3 PM | 2424 | 0.0 | OFF | 2424 | 0 | 0.00 | 0 | 61.7 | 61.7 | 61.7 |
| 3-4 PM | 2513 | 0.0 | OFF | 2513 | 0 | 0.00 | 0 | 60.7 | 60.7 | 60.7 |
| 4-5 PM | 2537 | 0.0 | OFF | 2537 | 0 | 0.00 | 0 | 60.5 | 60.5 | 60.5 |
| 5-6 PM | 2264 | 0.0 | OFF | 2264 | 0 | 0.00 | 0 | 62.2 | 62.2 | 62.2 |
| 6-7 PM | 1975 | 0.0 | OFF | 1975 | 0 | 0.00 | 0 | 62.7 | 62.7 | 62.7 |
| 7-8 PM | 1639 | 0.0 | 1499 | 1639 | 0 | 4.23 | 92 | 63.3 | 26.9 | 30.8 |
| 8-9 PM | 1229 | 0.0 | 1499 | 1229 | 0 | 1.86 | 44 | 64.1 | 40.0 | 36.0 |
| 9-10 PM | 1162 | 0.0 | 1500 | 1162 | 0 | 0.59 | 0 | 64.2 | 53.9 | 39.7 |
| 10-11 PM | 883 | 0.0 | 1500 | 883 | 0 | 0.51 | 0 | 64.8 | 55.5 | 42.1 |
| 11PM-MID | 575 | 0.0 | 1500 | 575 | 0 | 0.48 | 0 | 65.3 | 56.4 | 43.2 |

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

| *----- 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 | 0.0165 |
| MAIN ROUTE WITH WORKS | 0.0158 |
| 'DIVERSION' | 0.0000 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS | |
|-------------------------------|---------|
| ROAD USER COSTS PER DAY | \$3,378 |
| CONGESTED HOURS PER DAY* | 0 |

*Delays Exceeding User-Specified Maximum

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