

|   |  |
|---|--|
| <b>IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b><br><b>DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD</b> | <b>OCTOBER</b>                           |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

**FRIDAY WESTBOUND DIRECTION**

| TIME OF DAY | FLOWS AND CAPACITY IN VEH/HR |           |                 |           |                |                 |                  |                 |                       |                     | AVERAGE SPEEDS IN MPH |              |                 |                 |              |
|-------------|------------------------------|-----------|-----------------|-----------|----------------|-----------------|------------------|-----------------|-----------------------|---------------------|-----------------------|--------------|-----------------|-----------------|--------------|
|             | MAIN ROUTE                   |           | ALTERNATE ROUTE |           | SITE CAPA CITY | FLOW MAIN ROUTE | FLOW DIVER -TING | TOTAL DIVN FLOW | AV.DEL PER VEH (MINS) | AVERAGE QUEUE (VEH) | MAIN ROUTE            |              | ALTERNATE ROUTE |                 |              |
|             | DEMAND FLOW                  | PCT HEAVY | NORMAL FLOW     | PCT HEAVY |                |                 |                  |                 |                       |                     | WITHOUT WORK ZN       | WITH WORK ZN | SITE            | WITHOUT WORK ZN | WITH WORK ZN |
| MID-1 AM    | 586                          | 0.0       | 69              | 0.0       | 1500           | 586             | 0                | 69              | 0.54                  | 0                   | 70.0                  | 50.1         | 43.2            | 19.3            | 19.3         |
| 1-2 AM      | 506                          | 0.0       | 60              | 0.0       | 1500           | 506             | 0                | 60              | 0.53                  | 0                   | 70.1                  | 50.4         | 43.5            | 19.4            | 19.4         |
| 2-3 AM      | 555                          | 0.0       | 65              | 0.0       | 1500           | 555             | 0                | 65              | 0.54                  | 0                   | 70.0                  | 50.2         | 43.3            | 19.4            | 19.4         |
| 3-4 AM      | 641                          | 0.0       | 75              | 0.0       | 1500           | 641             | 0                | 75              | 0.55                  | 0                   | 69.9                  | 49.9         | 43.0            | 19.3            | 19.3         |
| 4-5 AM      | 973                          | 0.0       | 114             | 0.0       | 1499           | 973             | 0                | 114             | 0.58                  | 0                   | 69.6                  | 48.8         | 41.8            | 19.0            | 19.0         |
| 5-6 AM      | 1746                         | 0.0       | 205             | 0.0       | 1499           | 1746            | 0                | 205             | 3.57                  | 89                  | 68.6                  | 19.4         | 30.8            | 18.3            | 18.3         |
| 6-7 AM      | 2032                         | 0.0       | 240             | 0.0       | 1499           | 1523            | 510              | 749             | 10.74                 | 252                 | 68.2                  | 8.9          | 30.8            | 18.0            | 14.8         |
| 7-8 AM      | 2199                         | 0.0       | 259             | 0.0       | 1500           | 1528            | 671              | 930             | 12.14                 | 289                 | 68.0                  | 8.3          | 30.8            | 17.8            | 13.5         |
| 8-9 AM      | 2046                         | 0.0       | 241             | 0.0       | 1499           | 1462            | 584              | 825             | 11.29                 | 267                 | 68.2                  | 8.6          | 30.8            | 18.0            | 14.2         |
| 9-10 AM     | 2129                         | 0.0       | 251             | 0.0       | 1500           | 1530            | 599              | 850             | 11.48                 | 272                 | 68.1                  | 8.6          | 30.8            | 17.9            | 14.0         |
| 10-11 AM    | 2403                         | 0.0       | 283             | 0.0       | 1500           | 1586            | 817              | 1100            | 13.80                 | 334                 | 67.8                  | 7.7          | 30.8            | 17.6            | 12.4         |
| 11A-NOON    | 2698                         | 0.0       | 318             | 0.0       | 1500           | 1624            | 1074             | 1392            | 17.80                 | 439                 | 67.4                  | 6.7          | 30.8            | 17.4            | 10.4         |
| NOON-1PM    | 2890                         | 0.0       | 340             | 0.0       | 1499           | 1501            | 1389             | 1729+           | 20.07                 | 497                 | 67.1                  | 6.3          | 30.8            | 17.2            | 9.6          |
| 1-2 PM      | 3337                         | 0.0       | 394             | 0.0       | 1499           | 1500            | 1837             | 2231+           | 20.32                 | 505                 | 66.6                  | 6.3          | 30.8            | 16.8            | 9.5          |
| 2-3 PM      | 3673                         | 0.0       | 432             | 0.0       | 1500           | 1500            | 2173             | 2605+           | 20.29                 | 505                 | 65.8                  | 6.3          | 30.8            | 16.5            | 9.5          |
| 3-4 PM      | 3664                         | 0.0       | 431             | 0.0       | 1500           | 1500            | 2164             | 2595+           | 20.30                 | 505                 | 65.8                  | 6.3          | 30.8            | 16.5            | 9.5          |
| 4-5 PM      | 3619                         | 0.0       | 426             | 0.0       | 1500           | 1500            | 2119             | 2545+           | 20.31                 | 505                 | 66.1                  | 6.3          | 30.8            | 16.5            | 9.5          |
| 5-6 PM      | 3379                         | 0.0       | 398             | 0.0       | 1500           | 1500            | 1879             | 2276+           | 20.32                 | 505                 | 66.5                  | 6.3          | 30.8            | 16.8            | 9.5          |
| 6-7 PM      | 2916                         | 0.0       | 343             | 0.0       | 1500           | 1498            | 1418             | 1761+           | 20.09                 | 498                 | 67.1                  | 6.3          | 30.8            | 17.2            | 9.6          |
| 7-8 PM      | 2427                         | 0.0       | 286             | 0.0       | 1499           | 1355            | 1073             | 1358            | 17.28                 | 426                 | 67.7                  | 6.8          | 30.8            | 17.6            | 10.6         |
| 8-9 PM      | 2069                         | 0.0       | 244             | 0.0       | 1500           | 1393            | 677              | 920             | 12.09                 | 289                 | 68.2                  | 8.3          | 30.8            | 17.9            | 13.6         |
| 9-10 PM     | 1590                         | 0.0       | 187             | 0.0       | 1500           | 1426            | 164              | 352             | 8.50                  | 194                 | 68.7                  | 10.2         | 30.8            | 18.4            | 17.5         |
| 10-11 PM    | 1256                         | 0.0       | 148             | 0.0       | 1499           | 1256            | 0                | 148             | 2.72                  | 81                  | 69.2                  | 23.4         | 34.6            | 18.7            | 18.8         |
| 11PM-MID    | 775                          | 0.0       | 91              | 0.0       | 1500           | 775             | 0                | 91              | 0.56                  | 0                   | 69.7                  | 49.5         | 42.5            | 19.1            | 19.1         |

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

| *----- SITE BREAKDOWN DELAYS -----*    |      |
|--|------|
| BREAKDOWN DURATION (MINS)              | 0    |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0.0  |
| RANGE OF DIVN DELAY - MIN (VEH-H) MAX  | 0.0  |
| AV BREAKDOWNS PER DAY                  | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H)             | 0.0  |
| AV DIVN DELAY/DAY (VEH-H)              | 0.0  |
| AV TOTAL DELAY/DAY (VEH-H)             | 0.0  |

| *----- SITE ACCIDENT DELAYS -----*     |      |
|--|------|
| ACCIDENT DURATION (MINS)               | 0    |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0.0  |
| RANGE OF DIVN DELAY - MIN (VEH-H) MAX  | 0.0  |
| AV ACCIDENTS PER DAY                   | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H)             | 0.0  |
| AV DIVN DELAY/DAY (VEH-H)              | 0.0  |
| AV TOTAL DELAY/DAY (VEH-H)             | 0.0  |

| AVERAGE ACCIDENT NUMBERS (PIA/DAY) |        |
|------------------------------------|--------|
| MAIN ROUTE WITHOUT WORKS           | 0.0127 |
| MAIN ROUTE WITH WORKS              | 0.0058 |
| DIVERSION                          | 0.0817 |

PIA: Personal Injury Accidents

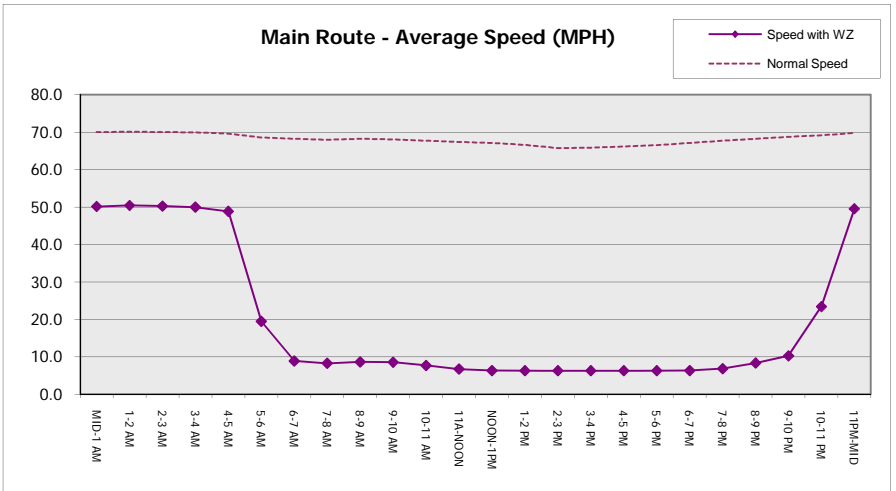
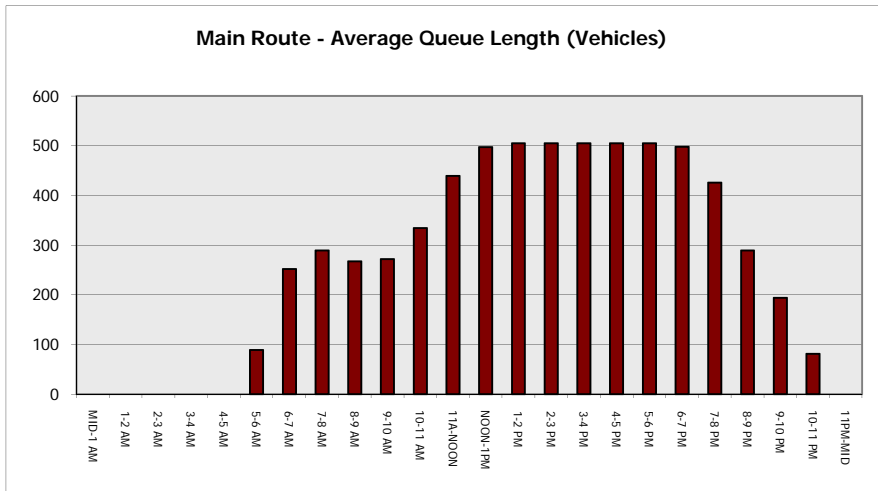
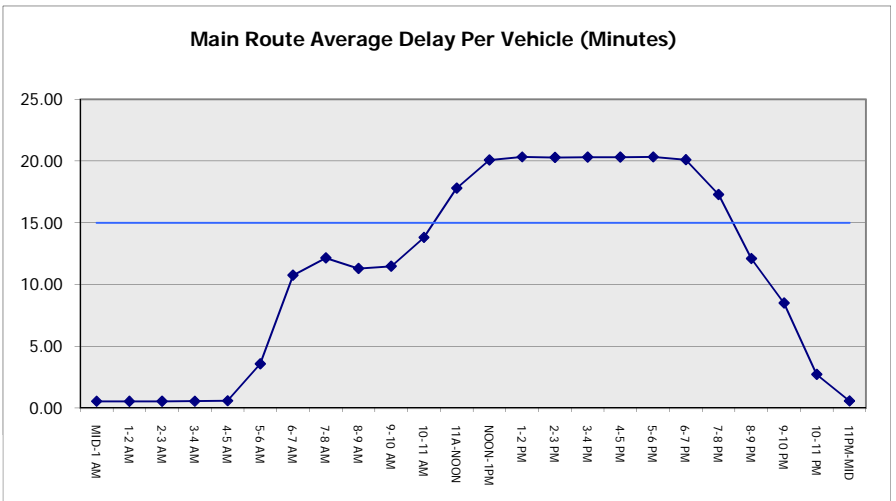
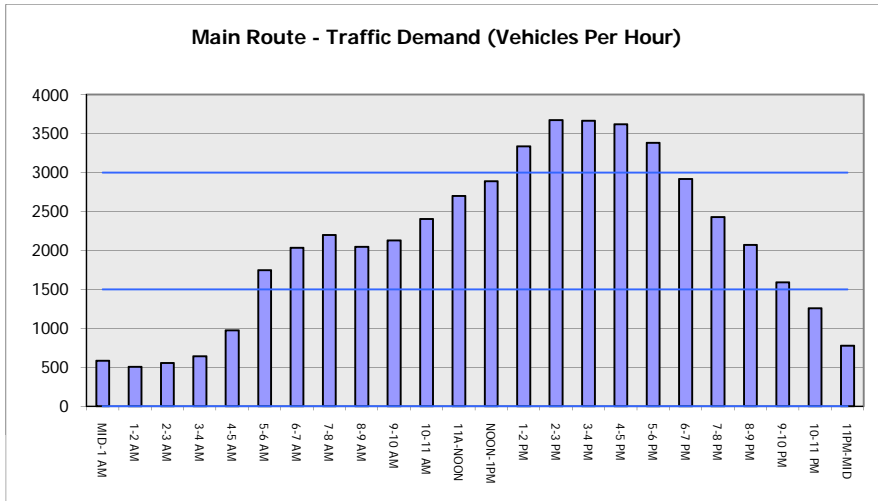
| IMPACTS ON ROAD USERS              |           |
|------------------------------------|-----------|
| ROAD USER COSTS PER DAY ( DOLLARS) | \$186,622 |
| CONGESTED HOURS PER DAY*           | 9         |

\*Delays Exceeding 15 Minutes

**IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)  
 CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
 DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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



|   |  |
|---|--|
| <b>IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b><br><b>DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD</b> | <b>OCTOBER</b>                           |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY EASTBOUND DIRECTION

| TIME OF DAY | FLOWS AND CAPACITY IN VEH/HR |           |             |           |                |                 |                  | AVERAGE SPEEDS IN MPH |                       |                     | AVERAGE SPEEDS IN MPH |              |                 |                 |              |
|-------------|------------------------------|-----------|-------------|-----------|----------------|-----------------|------------------|-----------------------|-----------------------|---------------------|-----------------------|--------------|-----------------|-----------------|--------------|
|             | MAIN                         |           | DIVERSION   |           | SITE CAPA CITY | FLOW MAIN ROUTE | FLOW DIVER -TING | TOTAL DIVN FLOW       | AV.DEL PER VEH (MINS) | AVERAGE QUEUE (VEH) | MAIN ROUTE            |              | ALTERNATE ROUTE |                 |              |
|             | DEMAND FLOW                  | PCT HEAVY | NORMAL FLOW | PCT HEAVY |                |                 |                  |                       |                       |                     | WITHOUT WORK ZN       | WITH WORK ZN | SITE            | WITHOUT WORK ZN | WITH WORK ZN |
| MID-1 AM    | 561                          | 0.0       | 66          | 0.0       | 1500           | 561             | 0                | 66                    | 0.54                  | 0                   | 70.0                  | 50.2         | 43.3            | 19.4            | 19.4         |
| 1-2 AM      | 413                          | 0.0       | 48          | 0.0       | 1500           | 413             | 0                | 48                    | 0.52                  | 0                   | 70.2                  | 50.7         | 43.8            | 19.5            | 19.5         |
| 2-3 AM      | 321                          | 0.0       | 38          | 0.0       | 1500           | 321             | 0                | 38                    | 0.51                  | 0                   | 70.2                  | 51.0         | 44.2            | 19.6            | 19.6         |
| 3-4 AM      | 373                          | 0.0       | 44          | 0.0       | 1500           | 373             | 0                | 44                    | 0.52                  | 0                   | 70.2                  | 50.9         | 44.0            | 19.5            | 19.5         |
| 4-5 AM      | 457                          | 0.0       | 53          | 0.0       | 1500           | 457             | 0                | 53                    | 0.53                  | 0                   | 70.2                  | 50.6         | 43.7            | 19.4            | 19.4         |
| 5-6 AM      | 812                          | 0.0       | 95          | 0.0       | 1500           | 812             | 0                | 95                    | 0.57                  | 0                   | 69.7                  | 49.4         | 42.4            | 19.1            | 19.1         |
| 6-7 AM      | 1254                         | 0.0       | 148         | 0.0       | 1499           | 1254            | 0                | 148                   | 0.77                  | 0                   | 69.2                  | 44.5         | 37.1            | 18.7            | 18.7         |
| 7-8 AM      | 1962                         | 0.0       | 231         | 0.0       | 1499           | 1768            | 194              | 425                   | 6.36                  | 159                 | 68.3                  | 13.0         | 30.8            | 18.1            | 16.9         |
| 8-9 AM      | 2209                         | 0.0       | 261         | 0.0       | 1499           | 1554            | 655              | 916                   | 12.03                 | 287                 | 68.0                  | 8.3          | 30.8            | 17.8            | 13.6         |
| 9-10 AM     | 2790                         | 0.0       | 329         | 0.0       | 1500           | 1667            | 1123             | 1451                  | 17.50                 | 434                 | 67.3                  | 6.8          | 30.8            | 17.3            | 10.6         |
| 10-11 AM    | 3294                         | 0.0       | 388         | 0.0       | 1499           | 1501            | 1793             | 2181+                 | 20.31                 | 504                 | 66.6                  | 6.3          | 30.8            | 16.8            | 9.5          |
| 11A-NOON    | 3364                         | 0.0       | 396         | 0.0       | 1500           | 1500            | 1864             | 2260+                 | 20.32                 | 505                 | 66.6                  | 6.3          | 30.8            | 16.8            | 9.5          |
| NOON-1PM    | 3426                         | 0.0       | 403         | 0.0       | 1500           | 1500            | 1926             | 2329+                 | 20.32                 | 505                 | 66.4                  | 6.3          | 30.8            | 16.7            | 9.5          |
| 1-2 PM      | 4045                         | 0.0       | 476         | 0.0       | 1500           | 1500            | 2545             | 3021+                 | 20.21                 | 505                 | 63.2                  | 6.3          | 30.8            | 16.1            | 9.5          |
| 2-3 PM      | 4296                         | 0.0       | 506         | 0.0       | 1500           | 1500            | 2796             | 3301+                 | 20.15                 | 505                 | 61.5                  | 6.3          | 30.8            | 15.9            | 9.5          |
| 3-4 PM      | 4517                         | 0.0       | 532         | 0.0       | 1500           | 1500            | 3017             | 3549+                 | 20.09                 | 505                 | 60.0                  | 6.3          | 30.8            | 15.7            | 9.5          |
| 4-5 PM      | 4453                         | 0.0       | 524         | 0.0       | 1500           | 1500            | 2953             | 3478+                 | 20.10                 | 505                 | 60.4                  | 6.3          | 30.8            | 15.8            | 9.5          |
| 5-6 PM      | 4058                         | 0.0       | 478         | 0.0       | 1500           | 1500            | 2558             | 3036+                 | 20.20                 | 505                 | 63.2                  | 6.3          | 30.8            | 16.1            | 9.5          |
| 6-7 PM      | 3731                         | 0.0       | 440         | 0.0       | 1500           | 1500            | 2231             | 2670+                 | 20.28                 | 505                 | 65.4                  | 6.3          | 30.8            | 16.4            | 9.5          |
| 7-8 PM      | 2863                         | 0.0       | 337         | 0.0       | 1500           | 1484            | 1379             | 1716+                 | 19.91                 | 493                 | 67.2                  | 6.3          | 30.8            | 17.2            | 9.6          |
| 8-9 PM      | 1870                         | 0.0       | 220         | 0.0       | 1499           | 1223            | 648              | 868                   | 11.81                 | 291                 | 68.4                  | 8.5          | 31.2            | 18.1            | 14.0         |
| 9-10 PM     | 1478                         | 0.0       | 174         | 0.0       | 1500           | 1429            | 49               | 223                   | 7.51                  | 168                 | 68.9                  | 11.1         | 30.8            | 18.5            | 18.4         |
| 10-11 PM    | 1198                         | 0.0       | 141         | 0.0       | 1499           | 1198            | 0                | 141                   | 1.45                  | 34                  | 69.2                  | 33.7         | 37.2            | 18.8            | 18.8         |
| 11PM-MID    | 897                          | 0.0       | 106         | 0.0       | 1500           | 897             | 0                | 106                   | 0.58                  | 0                   | 69.6                  | 49.1         | 42.0            | 19.1            | 19.1         |

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

| *----- SITE BREAKDOWN DELAYS -----* |      |
|-------------------------------------|------|
| BREAKDOWN DURATION (MINS)           | 0    |
| RANGE OF QUEUE DELAY - MIN          | 0.0  |
| (VEH-H) MAX                         | 0.0  |
| RANGE OF DIVN DELAY - MIN           | 0.0  |
| (VEH-H) MAX                         | 0.0  |
| AV BREAKDOWNS PER DAY               | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H)          | 0.0  |
| AV DIVN DELAY/DAY (VEH-H)           | 0.0  |
| AV TOTAL DELAY/DAY (VEH-H)          | 0.0  |

| *----- SITE ACCIDENT DELAYS -----* |      |
|------------------------------------|------|
| ACCIDENT DURATION (MINS)           | 0    |
| RANGE OF QUEUE DELAY - MIN         | 0.0  |
| (VEH-H) MAX                        | 0.0  |
| RANGE OF DIVN DELAY - MIN          | 0.0  |
| (VEH-H) MAX                        | 0.0  |
| AV ACCIDENTS PER DAY               | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H)         | 0.0  |
| AV DIVN DELAY/DAY (VEH-H)          | 0.0  |
| AV TOTAL DELAY/DAY (VEH-H)         | 0.0  |

| AVERAGE ACCIDENT NUMBERS (PIA/DAY) |        |
|------------------------------------|--------|
| MAIN ROUTE WITHOUT WORKS           | 0.0139 |
| MAIN ROUTE WITH WORKS              | 0.0054 |
| DIVERSION                          | 0.1049 |

PIA: Personal Injury Accidents

| IMPACTS ON ROAD USERS              |           |
|------------------------------------|-----------|
| ROAD USER COSTS PER DAY ( DOLLARS) | \$223,915 |
| CONGESTED HOURS PER DAY*           | 11        |

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
 DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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

