

Appendix A

MOBILE Input and Output Files
for Non-Creditable Emissions

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1 MOBILE Emissions Files

The MOBILE input and output data files used to calculate non-creditable emissions are provided in the following sections.

2 MOBILE Input Files

2.1 2002

2.1.1 DONUT02N.IN

MOBILE6 INPUT FILE :

```
> Donut Area (Cabarrus/Union/Lincoln/Iredell/Rowan) Non I/M Analysis for 2002 using
> 2/18/05 daily speeds except Iredell Co. which are the 11/04 speeds for the partial county
> with DAQ generated vehicle Mix with no CAA
```

```
POLLUTANTS      : HC
SPREADSHEET     : DONUT AREAS NON I/M VOC
WITH FIELDNAMES :
RUN DATA       :
```

***** RUN SECTION *****

```
FUEL RVP        : 9.0
```

```
REG DIST        : ncage04.prn
```

```
HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
                     86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0
```

```
ANTI-TAMP PROG   :
91 68 50 22222 22222222 2 11 095. 22212222
```

```
NO CLEAN AIR ACT :
```

***** SCENARIO SECTION *****

```
SCENARIO RECORD  : Rural principle arterial-Cabarrus County
CALENDAR YEAR    : 2002
EVALUATION MONTH : 7
```

```
> Rural other principle arterial mix and speeds
```

```
VMT FRACTIONS    :
0.4485   0.0682  0.2269  0.0699  0.0322  0.0456  0.0046  0.0036
0.0026   0.0100  0.0131  0.0144  0.0513  0.0022  0.0011  0.0058
```

```
AVERAGE SPEED   : 43 Non-Ramp 100.0 0.0 0.0 0.0
```

```
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
```

***** SCENARIO SECTION *****

```
SCENARIO RECORD  : Rural minor arterial-Cabarrus County
CALENDAR YEAR    : 2002
EVALUATION MONTH : 7
```

```
> Rural minor arterial mix and speeds
```

```
VMT FRACTIONS    :
0.4722   0.0718  0.2387  0.0736  0.0338  0.0432  0.0044  0.0034
0.0025   0.0095  0.0063  0.0069  0.0244  0.0022  0.0010  0.0061
```

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector-Cabarrus County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4778 0.0726 0.2416 0.0745 0.0342 0.0429 0.0043 0.0034
0.0025 0.0094 0.0046 0.0050 0.0179 0.0021 0.0010 0.0062

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector-Cabarrus County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.4742 0.0720 0.2397 0.0739 0.0339 0.0452 0.0045 0.0036
0.0026 0.0099 0.0052 0.0056 0.0202 0.0023 0.0011 0.0061

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local-Cabarrus County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
0.4741 0.0721 0.2397 0.0738 0.0340 0.0454 0.0044 0.0035
0.0025 0.0100 0.0052 0.0057 0.0202 0.0022 0.0011 0.0061

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban interstate-Cabarrus County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :
0.4314 0.0655 0.2181 0.0672 0.0309 0.0585 0.0058 0.0046
0.0034 0.0129 0.0153 0.0167 0.0598 0.0029 0.0014 0.0056

AVERAGE SPEED : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban principle arterial-Cabarrus County

```

CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4951    0.0752  0.2502  0.0771  0.0355  0.0293  0.0029  0.0023
0.0017    0.0064  0.0026  0.0029  0.0104  0.0014  0.0007  0.0063

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial-Cabarrus County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4919    0.0748  0.2489  0.0767  0.0352  0.0338  0.0034  0.0027
0.0020    0.0075  0.0024  0.0026  0.0094  0.0016  0.0007  0.0064

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector-Cabarrus County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4927    0.0749  0.2492  0.0768  0.0353  0.0350  0.0034  0.0028
0.0019    0.0077  0.0019  0.0021  0.0073  0.0017  0.0009  0.0064

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local-Cabarrus County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4928    0.0749  0.2491  0.0768  0.0353  0.0348  0.0034  0.0027
0.0021    0.0077  0.0019  0.0021  0.0073  0.0018  0.0009  0.0064

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial-Union County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS      :
0.4485    0.0682  0.2269  0.0699  0.0322  0.0456  0.0046  0.0036

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```

0.0026    0.0100  0.0131  0.0144  0.0513  0.0022  0.0011  0.0058

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor arterial-Union County
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.4722    0.0718  0.2387  0.0736  0.0338  0.0432  0.0044  0.0034
0.0025    0.0095  0.0063  0.0069  0.0244  0.0022  0.0010  0.0061

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural major collector-Union County
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4778    0.0726  0.2416  0.0745  0.0342  0.0429  0.0043  0.0034
0.0025    0.0094  0.0046  0.0050  0.0179  0.0021  0.0010  0.0062

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor collector-Union County
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.4742    0.0720  0.2397  0.0739  0.0339  0.0452  0.0045  0.0036
0.0026    0.0099  0.0052  0.0056  0.0202  0.0023  0.0011  0.0061

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural local-Union County
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7

> Rural local mix and speeds

VMT FRACTIONS      :
0.4741    0.0721  0.2397  0.0738  0.0340  0.0454  0.0044  0.0035
0.0025    0.0100  0.0052  0.0057  0.0202  0.0022  0.0011  0.0061

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway-Union County
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.4693    0.0713  0.2373  0.0731  0.0336  0.0353  0.0035  0.0028
0.0020    0.0078  0.0092  0.0101  0.0360  0.0018  0.0008  0.0061

AVERAGE SPEED      : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban principle arterial-Union County
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4951    0.0752  0.2502  0.0771  0.0355  0.0293  0.0029  0.0023
0.0017    0.0064  0.0026  0.0029  0.0104  0.0014  0.0007  0.0063

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial-Union County
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4919    0.0748  0.2489  0.0767  0.0352  0.0338  0.0034  0.0027
0.0020    0.0075  0.0024  0.0026  0.0094  0.0016  0.0007  0.0064

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

```

```

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector-Union County
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4927    0.0749  0.2492  0.0768  0.0353  0.0350  0.0034  0.0028
0.0019    0.0077  0.0019  0.0021  0.0073  0.0017  0.0009  0.0064

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local-Union County
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7

> Urban local mix and speeds

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```

VMT FRACTIONS      :
0.4928    0.0749  0.2491  0.0768  0.0353  0.0348  0.0034  0.0027
0.0021    0.0077  0.0019  0.0021  0.0073  0.0018  0.0009  0.0064

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial-Lincoln County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS      :
0.4485    0.0682  0.2269  0.0699  0.0322  0.0456  0.0046  0.0036
0.0026    0.0100  0.0131  0.0144  0.0513  0.0022  0.0011  0.0058

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial-Lincoln County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.4722    0.0718  0.2387  0.0736  0.0338  0.0432  0.0044  0.0034
0.0025    0.0095  0.0063  0.0069  0.0244  0.0022  0.0010  0.0061

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector-Lincoln County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4778    0.0726  0.2416  0.0745  0.0342  0.0429  0.0043  0.0034
0.0025    0.0094  0.0046  0.0050  0.0179  0.0021  0.0010  0.0062

AVERAGE SPEED      : 52 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector-Lincoln County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.4742    0.0720  0.2397  0.0739  0.0339  0.0452  0.0045  0.0036
0.0026    0.0099  0.0052  0.0056  0.0202  0.0023  0.0011  0.0061

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.

```

53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local-Lincoln County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural local mix and speeds

VMF FRACTIONS :
0.4741 0.0721 0.2397 0.0738 0.0340 0.0454 0.0044 0.0035
0.0025 0.0100 0.0052 0.0057 0.0202 0.0022 0.0011 0.0061

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban principle arterial-Lincoln County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.4951 0.0752 0.2502 0.0771 0.0355 0.0293 0.0029 0.0023
0.0017 0.0064 0.0026 0.0029 0.0104 0.0014 0.0007 0.0063

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban minor arterial-Lincoln County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.4919 0.0748 0.2489 0.0767 0.0352 0.0338 0.0034 0.0027
0.0020 0.0075 0.0024 0.0026 0.0094 0.0016 0.0007 0.0064

AVERAGE SPEED : 22 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector-Lincoln County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMF FRACTIONS :
0.4927 0.0749 0.2492 0.0768 0.0353 0.0350 0.0034 0.0028
0.0019 0.0077 0.0019 0.0021 0.0073 0.0017 0.0009 0.0064

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local-Lincoln County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

```

> Urban local mix and speeds

VMT FRACTIONS      :
0.4928    0.0749  0.2491  0.0768  0.0353  0.0348  0.0034  0.0027
0.0021    0.0077  0.0019  0.0021  0.0073  0.0018  0.0009  0.0064

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial-Rowan County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS      :
0.4485    0.0682  0.2269  0.0699  0.0322  0.0456  0.0046  0.0036
0.0026    0.0100  0.0131  0.0144  0.0513  0.0022  0.0011  0.0058

AVERAGE SPEED      : 42 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial-Rowan County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.4722    0.0718  0.2387  0.0736  0.0338  0.0432  0.0044  0.0034
0.0025    0.0095  0.0063  0.0069  0.0244  0.0022  0.0010  0.0061

AVERAGE SPEED      : 53 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector-Rowan County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4778    0.0726  0.2416  0.0745  0.0342  0.0429  0.0043  0.0034
0.0025    0.0094  0.0046  0.0050  0.0179  0.0021  0.0010  0.0062

AVERAGE SPEED      : 53 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector-Rowan County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.4742    0.0720  0.2397  0.0739  0.0339  0.0452  0.0045  0.0036
0.0026    0.0099  0.0052  0.0056  0.0202  0.0023  0.0011  0.0061

AVERAGE SPEED      : 52 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local-Rowan County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
0.4741 0.0721 0.2397 0.0738 0.0340 0.0454 0.0044 0.0035
0.0025 0.0100 0.0052 0.0057 0.0202 0.0022 0.0011 0.0061

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate-Rowan County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :
0.4314 0.0655 0.2181 0.0672 0.0309 0.0585 0.0058 0.0046
0.0034 0.0129 0.0153 0.0167 0.0598 0.0029 0.0014 0.0056

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial-Rowan County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.4951 0.0752 0.2502 0.0771 0.0355 0.0293 0.0029 0.0023
0.0017 0.0064 0.0026 0.0029 0.0104 0.0014 0.0007 0.0063

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial-Rowan County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4919 0.0748 0.2489 0.0767 0.0352 0.0338 0.0034 0.0027
0.0020 0.0075 0.0024 0.0026 0.0094 0.0016 0.0007 0.0064

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector-Rowan County
CALENDAR YEAR : 2002

```

EVALUATION MONTH      : 7

> Urban collector mix and speeds

VMT FRACTIONS          :
0.4927    0.0749    0.2492    0.0768    0.0353    0.0350    0.0034    0.0028
0.0019    0.0077    0.0019    0.0021    0.0073    0.0017    0.0009    0.0064

AVERAGE SPEED          : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY      : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD         : Urban local-Rowan County
CALENDAR YEAR           : 2002
EVALUATION MONTH        : 7

> Urban local mix and speeds

VMT FRACTIONS          :
0.4928    0.0749    0.2491    0.0768    0.0353    0.0348    0.0034    0.0027
0.0021    0.0077    0.0019    0.0021    0.0073    0.0018    0.0009    0.0064

AVERAGE SPEED          : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY      : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD         : Rural interstate-Iredell (Pt.)
CALENDAR YEAR           : 2002
EVALUATION MONTH        : 7

> Rural interstate mix and speeds

VMT FRACTIONS          :
0.3594    0.0546    0.1817    0.0560    0.0258    0.1026    0.0102    0.0081
0.0059    0.0226    0.0269    0.0293    0.1048    0.0051    0.0024    0.0046

AVERAGE SPEED          : 53 Non-Ramp 100.0 0.0 0.0 0.0

***** SCENARIO SECTION *****
SCENARIO RECORD         : Rural principle arterial-Iredell (Pt.)
CALENDAR YEAR           : 2002
EVALUATION MONTH        : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS          :
0.4485    0.0682    0.2269    0.0699    0.0322    0.0456    0.0046    0.0036
0.0026    0.0100    0.0131    0.0144    0.0513    0.0022    0.0011    0.0058

AVERAGE SPEED          : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY      : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD         : Rural minor arterial-Iredell (Pt.)
CALENDAR YEAR           : 2002
EVALUATION MONTH        : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS          :
0.4722    0.0718    0.2387    0.0736    0.0338    0.0432    0.0044    0.0034
0.0025    0.0095    0.0063    0.0069    0.0244    0.0022    0.0010    0.0061

AVERAGE SPEED          : 18 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector-Iredell (Pt.)
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4778 0.0726 0.2416 0.0745 0.0342 0.0429 0.0043 0.0034
0.0025 0.0094 0.0046 0.0050 0.0179 0.0021 0.0010 0.0062

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector-Iredell (Pt.)
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.4742 0.0720 0.2397 0.0739 0.0339 0.0452 0.0045 0.0036
0.0026 0.0099 0.0052 0.0056 0.0202 0.0023 0.0011 0.0061

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local-Iredell (Pt.)
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
0.4741 0.0721 0.2397 0.0738 0.0340 0.0454 0.0044 0.0035
0.0025 0.0100 0.0052 0.0057 0.0202 0.0022 0.0011 0.0061

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban interstate-Iredell (Pt.)
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :
0.4314 0.0655 0.2181 0.0672 0.0309 0.0585 0.0058 0.0046
0.0034 0.0129 0.0153 0.0167 0.0598 0.0029 0.0014 0.0056

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban principle arterial-Iredell (Pt.)
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

```

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4951    0.0752  0.2502  0.0771  0.0355  0.0293  0.0029  0.0023
0.0017    0.0064  0.0026  0.0029  0.0104  0.0014  0.0007  0.0063

AVERAGE SPEED      : 23 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial-Iredell (Pt.)
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4919    0.0748  0.2489  0.0767  0.0352  0.0338  0.0034  0.0027
0.0020    0.0075  0.0024  0.0026  0.0094  0.0016  0.0007  0.0064

AVERAGE SPEED      : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector-Iredell (Pt.)
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4927    0.0749  0.2492  0.0768  0.0353  0.0350  0.0034  0.0028
0.0019    0.0077  0.0019  0.0021  0.0073  0.0017  0.0009  0.0064

AVERAGE SPEED      : 26 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local-Iredell (Pt.)
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4928    0.0749  0.2491  0.0768  0.0353  0.0348  0.0034  0.0027
0.0021    0.0077  0.0019  0.0021  0.0073  0.0018  0.0009  0.0064

AVERAGE SPEED      : 19 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

END OF RUN          :

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2.1.2 GASVC02N.IN

MOBILE6 INPUT FILE :

> Gaston Co. Non I/M Analysis for 2002 using 2/18/05 daily speeds
> with DAQ generated vehicle Mix

POLLUTANTS : HC
SPREADSHEET : GASTON CO., VOC ONLY
RUN DATA :

***** RUN SECTION *****
FUEL RVP : 7.8

REG DIST : mekage04.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

ANTI-TAMP PROG :
91 68 50 22222 22222222 2 11 095. 22212222

NO CLEAN AIR ACT :
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate-Gaston County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3594 0.0546 0.1817 0.0560 0.0258 0.1026 0.0102 0.0081
0.0059 0.0226 0.0269 0.0293 0.1048 0.0051 0.0024 0.0046

AVERAGE SPEED : 30 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial-Gaston County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.4485 0.0682 0.2269 0.0699 0.0322 0.0456 0.0046 0.0036
0.0026 0.0100 0.0131 0.0144 0.0513 0.0022 0.0011 0.0058

AVERAGE SPEED : 72 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial-Gaston County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.4722 0.0718 0.2387 0.0736 0.0338 0.0432 0.0044 0.0034
0.0025 0.0095 0.0063 0.0069 0.0244 0.0022 0.0010 0.0061

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector-Gaston County

CALENDAR YEAR : 2002
 EVALUATION MONTH : 7

 > Rural major collector mix and speeds

 VMT FRACTIONS :
 0.4778 0.0726 0.2416 0.0745 0.0342 0.0429 0.0043 0.0034
 0.0025 0.0094 0.0046 0.0050 0.0179 0.0021 0.0010 0.0062

 AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

 RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector-Gaston County
 CALENDAR YEAR : 2002
 EVALUATION MONTH : 7

> Rural minor collector mix and speeds

 VMT FRACTIONS :
 0.4742 0.0720 0.2397 0.0739 0.0339 0.0452 0.0045 0.0036
 0.0026 0.0099 0.0052 0.0056 0.0202 0.0023 0.0011 0.0061

 AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0
 RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local-Gaston County
 CALENDAR YEAR : 2002
 EVALUATION MONTH : 7

> Rural local mix and speeds

 VMT FRACTIONS :
 0.4741 0.0721 0.2397 0.0738 0.0340 0.0454 0.0044 0.0035
 0.0025 0.0100 0.0052 0.0057 0.0202 0.0022 0.0011 0.0061

 AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0
 RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate-Gaston County
 CALENDAR YEAR : 2002
 EVALUATION MONTH : 7

> Urban interstate mix and speeds

 VMT FRACTIONS :
 0.4314 0.0655 0.2181 0.0672 0.0309 0.0585 0.0058 0.0046
 0.0034 0.0129 0.0153 0.0167 0.0598 0.0029 0.0014 0.0056

 AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0
 RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway-Gaston County
 CALENDAR YEAR : 2002
 EVALUATION MONTH : 7

> Urban freeway mix and speeds

 VMT FRACTIONS :
 0.4693 0.0713 0.2373 0.0731 0.0336 0.0353 0.0035 0.0028
 0.0020 0.0078 0.0092 0.0101 0.0360 0.0018 0.0008 0.0061

 AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial-Gaston County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.4951 0.0752 0.2502 0.0771 0.0355 0.0293 0.0029 0.0023
0.0017 0.0064 0.0026 0.0029 0.0104 0.0014 0.0007 0.0063

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial-Gaston County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4919 0.0748 0.2489 0.0767 0.0352 0.0338 0.0034 0.0027
0.0020 0.0075 0.0024 0.0026 0.0094 0.0016 0.0007 0.0064

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector-Gaston County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :
0.4927 0.0749 0.2492 0.0768 0.0353 0.0350 0.0034 0.0028
0.0019 0.0077 0.0019 0.0021 0.0073 0.0017 0.0009 0.0064

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local-Gaston County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
0.4928 0.0749 0.2491 0.0768 0.0353 0.0348 0.0034 0.0027
0.0021 0.0077 0.0019 0.0021 0.0073 0.0018 0.0009 0.0064

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
END OF RUN :

2.1.3 MEKVC02N.IN

MOBILE6 INPUT FILE :

> Meck Co. NON I/M Analysis for 2002 using 2/18/05 daily speeds
> with DAQ generated vehicle Mix

POLLUTANTS : HC
SPREADSHEET : Meck CO., VOC ONLY
RUN DATA :

***** RUN SECTION *****

FUEL RVP : 7.8
REG DIST : mekage04.prn

ANTI-TAMP PROG :
91 68 50 22222 22222222 2 11 095. 22212222

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

NO CLEAN AIR ACT :
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial-Meck County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.4485 0.0682 0.2269 0.0699 0.0322 0.0456 0.0046 0.0036
0.0026 0.0100 0.0131 0.0144 0.0513 0.0022 0.0011 0.0058

AVERAGE SPEED : 33 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial-Meck County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.4722 0.0718 0.2387 0.0736 0.0338 0.0432 0.0044 0.0034
0.0025 0.0095 0.0063 0.0069 0.0244 0.0022 0.0010 0.0061

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector-Meck County
CALENDAR YEAR : 2002
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4778 0.0726 0.2416 0.0745 0.0342 0.0429 0.0043 0.0034

```

0.0025    0.0094  0.0046  0.0050  0.0179  0.0021  0.0010  0.0062

AVERAGE SPEED      : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector-Meck County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.4742    0.0720  0.2397  0.0739  0.0339  0.0452  0.0045  0.0036
0.0026    0.0099  0.0052  0.0056  0.0202  0.0023  0.0011  0.0061

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local-Meck County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS       :
0.4741    0.0721  0.2397  0.0738  0.0340  0.0454  0.0044  0.0035
0.0025    0.0100  0.0052  0.0057  0.0202  0.0022  0.0011  0.0061

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate-Meck County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.4314    0.0655  0.2181  0.0672  0.0309  0.0585  0.0058  0.0046
0.0034    0.0129  0.0153  0.0167  0.0598  0.0029  0.0014  0.0056

AVERAGE SPEED      : 43 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway-Meck County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.4693    0.0713  0.2373  0.0731  0.0336  0.0353  0.0035  0.0028
0.0020    0.0078  0.0092  0.0101  0.0360  0.0018  0.0008  0.0061

AVERAGE SPEED      : 43 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.

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53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial-Meck County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds
VMT FRACTIONS        :
0.4951    0.0752  0.2502  0.0771  0.0355  0.0293  0.0029  0.0023
0.0017    0.0064  0.0026  0.0029  0.0104  0.0014  0.0007  0.0063

AVERAGE SPEED       : 26 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial-Meck County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds
VMT FRACTIONS        :
0.4919    0.0748  0.2489  0.0767  0.0352  0.0338  0.0034  0.0027
0.0020    0.0075  0.0024  0.0026  0.0094  0.0016  0.0007  0.0064

AVERAGE SPEED       : 26 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector-Meck County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban collector mix and speeds
VMT FRACTIONS        :
0.4927    0.0749  0.2492  0.0768  0.0353  0.0350  0.0034  0.0028
0.0019    0.0077  0.0019  0.0021  0.0073  0.0017  0.0009  0.0064

AVERAGE SPEED       : 25 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local-Meck County
CALENDAR YEAR        : 2002
EVALUATION MONTH     : 7

> Urban local mix and speeds
VMT FRACTIONS        :
0.4928    0.0749  0.2491  0.0768  0.0353  0.0348  0.0034  0.0027
0.0021    0.0077  0.0019  0.0021  0.0073  0.0018  0.0009  0.0064

AVERAGE SPEED       : 30 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
END OF RUN           :

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2.2 2008

2.2.1 MG08N.IN

MOBILE6 INPUT FILE :

> Meck/Gaston Non I/M for 2008 using TDM Average Daily speeds
> with DAQ generated vehicle Mix

POLLUTANTS : HC NOX
SPREADSHEET : Meck/Gaston NOX VOC
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8
REG DIST : mekage07.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

NO CLEAN AIR ACT :
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial-Meck County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMF FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 42 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial-Meck County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector-Meck County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMF FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector-Meck County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local-Meck County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
0.3767 0.0845 0.2814 0.0867 0.0399 0.0564 0.0056 0.0044
0.0035 0.0127 0.0064 0.0070 0.0251 0.0029 0.0013 0.0055

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate-Meck County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway-Meck County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 53 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial-Meck County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED       : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial-Meck County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED       : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector-Meck County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED       : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local-Meck County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS       :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED       : 20 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural Interstate - Gaston County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Gaston County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Gaston County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Gaston County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Gaston County
CALENDAR YEAR : 2008

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EVALUATION MONTH      : 7

> Rural minor collector mix and speeds

VMT FRACTIONS          :
0.3952   0.0875   0.2913   0.0898   0.0412   0.0401   0.0039   0.0033
0.0025   0.0090   0.0046   0.0050   0.0180   0.0020   0.0009   0.0057

AVERAGE SPEED          : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Rural local- Gaston County
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Rural local mix and speeds

VMT FRACTIONS          :
0.3767   0.0845   0.2814   0.0867   0.0399   0.0564   0.0056   0.0044
0.0035   0.0127   0.0064   0.0070   0.0251   0.0029   0.0013   0.0055

AVERAGE SPEED          : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Urban interstate- Gaston County
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Urban interstate mix and speeds

VMT FRACTIONS          :
0.3568   0.0793   0.2639   0.0813   0.0374   0.0566   0.0055   0.0045
0.0035   0.0127   0.0149   0.0162   0.0580   0.0029   0.0013   0.0052

AVERAGE SPEED          : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Urban freeway- Gaston County
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Urban freeway mix and speeds

VMT FRACTIONS          :
0.3811   0.0847   0.2821   0.0869   0.0399   0.0385   0.0038   0.0031
0.0024   0.0086   0.0101   0.0110   0.0394   0.0020   0.0009   0.0055

AVERAGE SPEED          : 54 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Urban principle arterial- Gaston County
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Urban principle arterial mix and speeds

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VMF FRACTIONS :
0.4070 0.0904 0.3013 0.0928 0.0427 0.0289 0.0029 0.0023
0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Gaston County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Gaston County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMF FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Gaston County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMF FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

END OF RUN :

2.2.2 RIL08N.IN

MOBILE6 INPUT FILE :

> Rowan/Iredell/Lincoln NonI/M for 2008 using TDM Average Daily speeds
> with DAQ generated vehicle Mix

POLLUTANTS : HC NOX
SPREADSHEET : Rowan/Iredell/Lincoln NOX VOC
RUN DATA :

***** RUN SECTION *****

FUEL RVP : 9.0
REG DIST : ncage07.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

NO CLEAN AIR ACT :

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principle arterial- Rowan County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Rowan County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 57 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector- Rowan County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

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AVERAGE SPEED      : 53 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Rowan County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Rowan County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS       :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Rowan County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568  0.0793  0.2639  0.0813  0.0374  0.0566  0.0055  0.0045
0.0035  0.0127  0.0149  0.0162  0.0580  0.0029  0.0013  0.0052

AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Rowan County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023

```

0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban minor arterial- Rowan County

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :

0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector- Rowan County

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :

0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local- Rowan County

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :

0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural Interstate - Iredell County(Pt)

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural interstate mix and speeds

VMT FRACTIONS :

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.3151 | 0.0700 | 0.2331 | 0.0718 | 0.0330 | 0.0876 | 0.0086 | 0.0070 |
| 0.0054 | 0.0196 | 0.0230 | 0.0251 | 0.0896 | 0.0045 | 0.0020 | 0.0046 |

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Iredell County(Pt)

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.3855 | 0.0856 | 0.2848 | 0.0878 | 0.0403 | 0.0457 | 0.0045 | 0.0037 |
| 0.0029 | 0.0103 | 0.0067 | 0.0072 | 0.0260 | 0.0024 | 0.0010 | 0.0056 |

AVERAGE SPEED : 22 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector- Iredell County(Pt)

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.3990 | 0.0885 | 0.2948 | 0.0908 | 0.0417 | 0.0364 | 0.0036 | 0.0028 |
| 0.0022 | 0.0082 | 0.0039 | 0.0043 | 0.0152 | 0.0019 | 0.0009 | 0.0058 |

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector- Iredell County(Pt)

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.3952 | 0.0875 | 0.2913 | 0.0898 | 0.0412 | 0.0401 | 0.0039 | 0.0033 |
| 0.0025 | 0.0090 | 0.0046 | 0.0050 | 0.0180 | 0.0020 | 0.0009 | 0.0057 |

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local- Iredell County(Pt)

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.3767 | 0.0845 | 0.2814 | 0.0867 | 0.0399 | 0.0564 | 0.0056 | 0.0044 |
| 0.0035 | 0.0127 | 0.0064 | 0.0070 | 0.0251 | 0.0029 | 0.0013 | 0.0055 |

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial- Iredell County(Pt)
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3013 0.0928 0.0427 0.0289 0.0029 0.0023
0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Iredell County(Pt)
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Iredell County(Pt)
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 23 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Iredell County(Pt)
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Lincoln County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

```

> Rural other principle arterial mix and speeds

VMT FRACTIONS      :
0.3712  0.0825  0.2745  0.0846  0.0388  0.0437  0.0043  0.0035
0.0027  0.0098  0.0127  0.0138  0.0493  0.0022  0.0010  0.0054

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Lincoln County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3855  0.0856  0.2848  0.0878  0.0403  0.0457  0.0045  0.0037
0.0029  0.0103  0.0067  0.0072  0.0260  0.0024  0.0010  0.0056

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Lincoln County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3990  0.0885  0.2948  0.0908  0.0417  0.0364  0.0036  0.0028
0.0022  0.0082  0.0039  0.0043  0.0152  0.0019  0.0009  0.0058

AVERAGE SPEED      : 56 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Lincoln County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Lincoln County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS      :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

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AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Lincoln County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Lincoln County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Lincoln County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Lincoln County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS       :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
END OF RUN          :

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2.2.3 UC08N.IN

MOBILE6 INPUT FILE :

> Cabarrus/Union Non I/M for 2008 using TDM Average Daily speeds
> with DAQ generated vehicle Mix

POLLUTANTS : HC NOx
SPREADSHEET : Cabarrus/Union NOX VOC
RUN DATA :

***** RUN SECTION *****

FUEL RVP : 9.0
REG DIST : ncage07.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

NO CLEAN AIR ACT :

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principle arterial- Cabarrus County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Cabarrus County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 57 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector- Cabarrus County
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Cabarrus County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS        :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED       : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Cabarrus County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS        :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED       : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Cabarrus County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS        :
0.3568  0.0793  0.2639  0.0813  0.0374  0.0566  0.0055  0.0045
0.0035  0.0127  0.0149  0.0162  0.0580  0.0029  0.0013  0.0052

AVERAGE SPEED       : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Cabarrus County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS        :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED       : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Cabarrus County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

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VMF FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector- Cabarrus County

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban collector mix and speeds

VMF FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local- Cabarrus County

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

VMF FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principal arterial - Union County

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMF FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Union County

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 52 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural major collector- Union County
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
 0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
 0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector- Union County
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
 0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local- Union County
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
 0.3767 0.0845 0.2814 0.0867 0.0399 0.0564 0.0056 0.0044
 0.0035 0.0127 0.0064 0.0070 0.0251 0.0029 0.0013 0.0055

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway- Union County
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Urban freeway mix and speeds

VMT FRACTIONS :
 0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
 0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 34 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial- Union County
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

```

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Union County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Union County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Union County
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED      : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
END OF RUN          :

```

3.1.1.1 DONUT02N.TXT

* Reading Registration Distributions from the following external

```
* data file: NCAGE04.PRN
```

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

0.9998 MYR sum not = 1. (will normalize)

M 49 Warning:

0.998 MYR sum not = 1. (will normalize)

M 49 Warning:

0.998 MYR sum not = 1. (will normalize)

M 49 Warning:

0.998 MYR sum not = 1. (will normalize)

M 49 Warning:

0.998 MYR sum not = 1. (will normalize)

M 49 Warning:

0.998 MYR sum not = 1. (will normalize)

M 49 Warning:

```
0.998 MYR sum not = 1. (will normalize)
```

M 49 Warning:

0.998 MYR sum not = 1. (will normalize)

M 49 Warning:

0.998 MYR sum not = 1. (will normalize)

M 49 Warning:

0.998 MYR sum not = 1. (will normalize)

M 49 Warning:

```
0.998 MYR sum not = 1. (will normalize)
```

M 49 Warning:

0.999 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

Results Reflect No Clean Air Act of 1990

[illegible]

* Rural principle arterial-Cabarrus County

* File 1, Run 1, Scenario 1.

[illegible]

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4477 | 0.2946 | 0.1007 | | 0.0430 | 0.0008 | 0.0019 | 0.1055 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.867 | 2.649 | 2.771 | 2.680 | 2.556 | 0.727 | 1.171 | 0.626 | 3.26 | 2.093 |
| ----- | | | | | | | | | | |

* #
* Rural minor arterial-Cabarrus County
* File 1, Run 1, Scenario 2.
* #
* Rural minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

| Vehicle Type: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.4714 | 0.3100 | 0.1059 | | 0.0401 | 0.0008 | 0.0020 | 0.0637 | 0.0061 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.831 | 2.612 | 2.732 | 2.643 | 2.442 | 0.710 | 1.148 | 0.553 | 3.23 | 2.118 |

MI583 Warning:
The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

MI156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

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Appendix A
November 30, 2009

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4769 | 0.3137 | 0.1072 | | 0.0396 | 0.0009 | 0.0020 | 0.0535 | 0.0062 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.879 | 2.662 | 2.784 | 2.693 | 2.544 | 0.734 | 1.181 | 0.567 | 3.27 | 2.184 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

* # # # # # # # # # # # # # # # # # #
 * Rural minor collector-Cabarrus County
 * File 1, Run 1, Scenario 4.
 * # # # # # # # # # # # # # # # # # #
 * Rural minor collector mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |

VMT Distribution: 0.4734 0.3112 0.1063 0.0418 0.0008 0.0020 0.0584 0.0061 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 1.934 2.715 2.840 2.747 2.695 0.765 1.224 0.620 3.34 2.235

* # # # # # # # # # # # # # # # # # # #
 * Rural local-Cabarrus County
 * File 1, Run 1, Scenario 5.
 * # # # # # # # # # # # # # # # # # # #
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning: The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
 M 48 Warning: there are no sales for vehicle class HDGV8b
 M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
 GVWR: <6000 0.3113 0.1063 >6000

 VMT Distribution: 0.4733 0.3113 0.1063 0.0418 0.0008 0.0020 0.0584 0.0061 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 2.094 2.891 3.028 2.926 3.126 0.855 1.350 0.758 3.58 2.413

* # # # # # # # # # # # # # # # # # # #
 * Urban interstate-Cabarrus County
 * File 1, Run 1, Scenario 6.
 * # # # # # # # # # # # # # # # # # # #

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4942 | 0.3248 | 0.1110 | | 0.0270 | 0.0009 | 0.0021 | 0.0336 | 0.0063 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | 2.094 | 2.891 | 3.028 | 2.926 | 3.119 | 0.855 | 1.350 | 0.734 | 3.58 | 2.445 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban minor arterial-Cabarrus County
 * File 1, Run 1, Scenario 8.
 * * * * *
 * Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VTM Distribution: | 0.4910 | 0.3231 | 0.1104 | | 0.0311 | 0.0009 | 0.0021 | 0.0350 | 0.0064 | 1.0000 |

Composite Emission Factors (g/mi):
 Composite VOC : 2.068 2.862 2.997 2.896 3.048 0.841 1.331 0.688 3.54 2.416

* * * * *
 * Urban collector-Cabarrus County
 * File 1, Run 1, Scenario 9.
 * * * * *
 * Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4918 | 0.3235 | 0.1106 | | 0.0320 | 0.0009 | 0.0021 | 0.0327 | 0.0064 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | 2.021 | 2.809 | 2.939 | 2.842 | 2.918 | 0.816 | 1.295 | 0.631 | 3.47 | 2.367 |
| Composite VOC : | | | | | | | | | | |
| ----- | | | | | | | | | | |

* * * * *
* Urban local-Cabarrus County
* File 1, Run 1, Scenario 10.
* * * * *
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4919 | 0.3234 | 0.1106 | | 0.0320 | 0.0009 | 0.0021 | 0.0327 | 0.0064 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | 2.094 | 2.891 | 3.028 | 2.926 | 3.116 | 0.855 | 1.350 | 0.685 | 3.58 | 2.449 |
| Composite VOC : | | | | | | | | | | |
| ----- | | | | | | | | | | |

* * * * *

* Rural principle arterial-Union County
* File 1, Run 1, Scenario 11.

* # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4477 | 0.2946 | 0.1007 | | 0.0430 | 0.0008 | 0.0019 | 0.1055 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.843 | 2.625 | 2.746 | 2.656 | 2.497 | 0.715 | 1.154 | 0.606 | 3.23 | 2.068 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial-Union County

* File 1, Run 1, Scenario 12.

* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 49.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4714 | 0.3100 | 0.1059 | | 0.0401 | 0.0008 | 0.0020 | 0.0637 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.797 | 2.574 | 2.693 | 2.605 | 2.373 | 0.696 | 1.128 | 0.532 | 3.21 | 2.082 |
| ----- | | | | | | | | | | |

* * * * *
* Rural major collector-Union County
* File 1, Run 1, Scenario 13.
* * * * *
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4769 | 0.3137 | 0.1072 | | 0.0396 | 0.0009 | 0.0020 | 0.0535 | 0.0062 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.831 | 2.612 | 2.732 | 2.643 | 2.430 | 0.710 | 1.147 | 0.532 | 3.23 | 2.133 |

* # # # # # # # # # # # # # # # # # #
 * Rural minor collector-Union County
 * File 1, Run 1, Scenario 14.
 * # # # # # # # # # # # # # # # # # #
 * Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning: The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
 M 48 Warning: there are no sales for vehicle class HDGV8b
 M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4734 | 0.3112 | 0.1063 | | 0.0418 | 0.0008 | 0.0020 | 0.0584 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.831 | 2.612 | 2.732 | 2.643 | 2.434 | 0.710 | 1.148 | 0.537 | 3.23 | 2.125 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural local-Union County
* File 1, Run 1, Scenario 15.
* # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4733 | 0.3113 | 0.1063 | | 0.0418 | 0.0008 | 0.0020 | 0.0584 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 2.094 | 2.891 | 3.028 | 2.926 | 3.126 | 0.855 | 1.350 | 0.758 | 3.58 | 2.413 |
| ----- | | | | | | | | | | |

* #
* Urban freeway-Union County
* File 1, Run 1, Scenario 16.
* #
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning: The user supplied freeway average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4685 | 0.3081 | 0.1052 | | 0.0332 | 0.0008 | 0.0020 | 0.0761 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.980 | 2.761 | 2.888 | 2.794 | 2.872 | 0.794 | 1.264 | 0.731 | 3.41 | 2.257 |
| ----- | | | | | | | | | | |

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4942 | 0.3248 | 0.1110 | | 0.0270 | 0.0009 | 0.0021 | 0.0336 | 0.0063 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 2.000 | 2.784 | 2.913 | 2.817 | 2.871 | 0.805 | 1.279 | 0.659 | 3.44 | 2.341 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial-Union County

* File 1, Run 1, Scenario 18.

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

```

* * * * *
* * Urban collector-Union County
* * File 1, Run 1, Scenario 19.
* * * * *
* * Urban collector mix and speeds
* * M615 Comment:      User supplied VMT mix.

```

| | |
|----------------------|----------|
| Calendar Year: | 2002 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 300 ppm |

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4918 | 0.3235 | 0.1106 | | 0.0320 | 0.0009 | 0.0021 | 0.0327 | 0.0064 | 1.0000 |

Composite Emission Factors (g/mi):
Composite VOC : 1.934 2.715 2.840 2.747 2.674 0.765 1.224 0.560 3.34 2.272

* * * * *
* Urban local-Union County
* File 1, Run 1, Scenario 20.
* * * * *
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4919 | 0.3234 | 0.1106 | | 0.0320 | 0.0009 | 0.0021 | 0.0327 | 0.0064 | 1.0000 |

```

-----
Composite Emission Factors (g/mi):
Composite VOC : 2.094 2.891 3.028 2.926 3.116 0.855 1.350 0.685 3.58 2.449
-----

* * * * *
* Rural principle arterial-Lincoln County
* File 1, Run 1, Scenario 21.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:
      User supplied VMT mix.

M581 Warning:
      The user supplied freeway average speed of 65.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.

M 48 Warning:
      there are no sales for vehicle class HDGV8b

M156 Warning:
      Onboard Refueling Vapor Recovery Regulation (1994)
      effects have been disabled by the user.

      Calendar Year: 2002
      Month: July
      Altitude: Low
      Minimum Temperature: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Nominal Fuel RVP: 9.0 psi
      Weathered RVP: 8.6 psi
      Fuel Sulfur Content: 300. ppm

      Exhaust I/M Program: No
      Evap I/M Program: No
      ATP Program: Yes
      Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV HDDV LDDT LDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.4477 0.2946 0.1007 0.0430 0.0008 0.0019 0.1055 0.0058 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 1.686 2.411 2.520 2.439 2.248 0.671 1.093 0.531 3.99 1.897
-----

* * * * *
* Rural minor arterial-Lincoln County
* File 1, Run 1, Scenario 22.
* * * * *
* Rural minor arterial mix and speeds

```

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4769 | 0.3137 | 0.1072 | | 0.0396 | 0.0009 | 0.0020 | 0.0535 | 0.0062 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.770 | 2.538 | 2.655 | 2.568 | 2.307 | 0.686 | 1.114 | 0.496 | 3.21 | 2.065 |

* * * * *
* Rural minor collector-Lincoln County
* File 1, Run 1, Scenario 24.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)

Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.4734 | 0.3112 | 0.1063 | | 0.0418 | 0.0008 | 0.0020 | 0.0584 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.808 | 2.586 | 2.706 | 2.617 | 2.387 | 0.701 | 1.135 | 0.523 | 3.22 | 2.101 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # #
* Rural local-Lincoln County
* File 1, Run 1, Scenario 25.
* # # # # # # # # # # # # # # # # #
* Rural local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR: <6000 >6000 (All)

VTM Distribution: 0.4733 0.3113 0.1063 0.0418 0.0008 0.0020 0.0584 0.0061 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 2.094 2.891 3.028 2.926 3.126 0.855 1.350 0.758 3.58 2.413

* * * * *

* Urban principle arterial-Lincoln County

* File 1, Run 1, Scenario 26.

* * * * *

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh

GVWR: <6000 >6000

VTM Distribution: 0.4942 0.3248 0.1110 0.0270 0.0009 0.0021 0.0336 0.0063 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 1.854 2.637 2.758 2.668 2.476 0.721 1.163 0.536 3.24 2.188

* * * * *

* Urban minor arterial-Lincoln County

* File 1, Run 1, Scenario 27.
 * # # # # # # # # # # # # # # # # # # #
 * Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 22.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4910 | 0.3231 | 0.1104 | | 0.0311 | 0.0009 | 0.0021 | 0.0350 | 0.0064 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 2.345 | 3.173 | 3.324 | 3.211 | 3.899 | 0.999 | 1.551 | 0.912 | 3.94 | 2.726 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
 * Urban collector-Lincoln County
 * File 1, Run 1, Scenario 28.
 * # # # # # # # # # # # # # # # # # # #
 * Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 24.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

MOBILE Inputs & Outputs for Non-Creditable Emissions
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

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Appendix A
November 30, 2009

```
* * * * *
* Urban local-Lincoln County
* File 1, Run 1, Scenario 29.
* * * * *
* Urban local mix and speeds
```

M583 Warning:
The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)

[illegible]

M583 Warning:
The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4919 | 0.3234 | 0.1106 | | 0.0320 | 0.0009 | 0.0021 | 0.0327 | 0.0064 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 2.094 | 2.891 | 3.028 | 2.926 | 3.116 | 0.855 | 1.350 | 0.685 | 3.58 | 2.449 |

* * * * *
* Rural principle arterial-Rowan County
* File 1, Run 1, Scenario 30.
* * * * *
* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

| | | | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Reformulated Gas: No | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.4477 | 0.2946 | 0.1007 | 0.0430 | 0.0008 | 0.0019 | 0.1055 | 0.0058 | 1.0000 | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.879 | 2.662 | 2.784 | 2.693 | 2.588 | 0.734 | 1.181 | 0.637 | 3.27 | 2.106 |
| ----- | | | | | | | | | | |
| * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |
| * Rural minor arterial-Rowan County | | | | | | | | | | |
| * File 1, Run 1, Scenario 31. | | | | | | | | | | |
| * * * * * | | | | | | | | | | |
| * Rural minor arterial mix and speeds | | | | | | | | | | |
| M615 Comment: User supplied VMT mix. | | | | | | | | | | |
| M583 Warning: | | | | | | | | | | |
| The user supplied arterial average speed of 53.0 | | | | | | | | | | |
| will be used for all hours of the day. 100% of VMT | | | | | | | | | | |
| has been assigned to the arterial/collector roadway | | | | | | | | | | |
| type for all hours of the day and all vehicle types. | | | | | | | | | | |
| M 48 Warning: | | | | | | | | | | |
| there are no sales for vehicle class HDGV8b | | | | | | | | | | |
| M156 Warning: | | | | | | | | | | |
| Onboard Refueling Vapor Recovery Regulation (1994) | | | | | | | | | | |
| effects have been disabled by the user. | | | | | | | | | | |
| Calendar Year: 2002 | | | | | | | | | | |
| Month: July | | | | | | | | | | |
| Altitude: Low | | | | | | | | | | |
| Minimum Temperature: 71.0 (F) | | | | | | | | | | |
| Maximum Temperature: 89.6 (F) | | | | | | | | | | |
| Minimum Rel. Hum.: 47.0 (%) | | | | | | | | | | |
| Maximum Rel. Hum.: 91.0 (%) | | | | | | | | | | |
| Nominal Fuel RVP: 9.0 psi | | | | | | | | | | |
| Weathered RVP: 8.6 psi | | | | | | | | | | |
| Fuel Sulfur Content: 300. ppm | | | | | | | | | | |
| Exhaust I/M Program: No | | | | | | | | | | |
| Evap I/M Program: No | | | | | | | | | | |
| ATP Program: Yes | | | | | | | | | | |
| Reformulated Gas: No | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.4714 | 0.3100 | 0.1059 | 0.0401 | 0.0008 | 0.0020 | 0.0637 | 0.0061 | 1.0000 | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.761 | 2.526 | 2.643 | 2.556 | 2.303 | 0.683 | 1.110 | 0.511 | 3.21 | 2.040 |
| ----- | | | | | | | | | | |

* * * * *
* Rural major collector-Rowan County
* File 1, Run 1, Scenario 32.
* * * * *
* * * * *
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4769 | 0.3137 | 0.1072 | | 0.0396 | 0.0009 | 0.0020 | 0.0535 | 0.0062 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.761 | 2.526 | 2.643 | 2.556 | 2.291 | 0.683 | 1.110 | 0.491 | 3.21 | 2.055 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor collector-Rowan County
* File 1, Run 1, Scenario 33.
* * * * *
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 52.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|-----|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|-----|------|------|----|---------|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4734 | 0.3112 | 0.1063 | | 0.0418 | 0.0008 | 0.0020 | 0.0584 | 0.0061 | 1.0000 |

| | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.770 | 2.538 | 2.655 | 2.568 | 2.311 | 0.686 | 1.114 | 0.500 | 3.21 | 2.058 |

* #

* Rural local-Rowan County

* File 1, Run 1, Scenario 34.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002

Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4733 | 0.3113 | 0.1063 | | 0.0418 | 0.0008 | 0.0020 | 0.0584 | 0.0061 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 2.094 | 2.891 | 3.028 | 2.926 | 3.126 | 0.855 | 1.350 | 0.758 | 3.58 | 2.413 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

* * * * *
* Urban interstate-Rowan County
* File 1, Run 1, Scenario 35.
* * * * *
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Composite Emission Factors (g/mi):
Composite VOC : 1.907 2.689 2.813 2.720 2.604 0.748 1.200 0.576 3.30 2.242

* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial-Rowan County
* File 1, Run 1, Scenario 37.
* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| GVWR: | <6000 | >6000 | >6000 | (All) | 0.0311 | 0.0009 | 0.0021 | 0.0350 | 0.0064 | 1.0000 |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|

VMT Distribution: 0.4910 0.3231 0.1104

Composite Emission Factors (g/mi):

Composite VOC : 1.907 2.689 2.813 2.720 2.601 0.748 1.201 0.556 3.30 2.240

* # # # # # # # # # # # # # # # # # # #
* Urban collector-Rowan County
* File 1, Run 1, Scenario 38.
* # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds

M615 Comment:

M583 Warning:
User supplied VMT mix.
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4918 | 0.3235 | 0.1106 | | 0.0320 | 0.0009 | 0.0021 | 0.0327 | 0.0064 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | 1.980 | 2.761 | 2.888 | 2.794 | 2.809 | 0.794 | 1.264 | 0.600 | 3.41 | 2.321 |
| Composite VOC : | | | | | | | | | | |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban local-Rowan County
* File 1, Run 1, Scenario 39.
* # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)

| | |
|----------------------|------|
| Calendar Year: | 2002 |
| Month: | July |
| Altitude: | |
| Minimum Temperature: | 71.0 |
| Maximum Temperature: | 89.6 |
| Minimum Rel. Hum.: | 47.0 |
| Maximum Rel. Hum.: | 91.0 |
| Nominal Fuel RVP: | 9.0 |
| Weathered RVP: | 8.6 |
| Fuel Sulfur Content: | 300. |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | No |
| Reformulated Gas: | No |

```

* * * * * Rural interstate-Iredell (Pt.)
* * * * * File 1, Run 1, Scenario 40.
* * * * *
* * * * * Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

```

MI581 Warning:
The user supplied freeway average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

MI156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

| | |
|----------------------|---------------|
| Calendar Year: | 2002 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Absolute Humidity: | 75. grains/lb |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3588 | 0.2359 | 0.0807 | | 0.0965 | 0.0006 | 0.0015 | 0.2214 | 0.0046 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.757 | 2.521 | 2.638 | 2.551 | 2.327 | 0.683 | 1.110 | 0.547 | 3.21 | 1.800 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

* # # # # # # # # # # # # # # # # # # #
 * Rural principle arterial-Iredell (Pt.)
 * File 1, Run 1, Scenario 41.
 * # # # # # # # # # # # # # # # # # # #
 * Rural other principle arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 55.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |

VMT Distribution: 0.4477 0.2946 0.1007 0.0430 0.0008 0.0019 0.1055 0.0058 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 1.746 2.503 2.619 2.533 2.301 0.678 1.102 0.542 3.21 1.960

* # # # # # # # # # # # # # # # # # # #
 * Rural minor arterial-Iredell (Pt.)
 * File 1, Run 1, Scenario 42.
 * # # # # # # # # # # # # # # # # # # #
 * Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 18.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4714 | 0.3100 | 0.1059 | | 0.0401 | 0.0008 | 0.0020 | 0.0637 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 2.605 | 3.470 | 3.632 | 3.511 | 4.627 | 1.101 | 1.692 | 1.164 | 4.22 | 2.978 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
 * Rural major collector-Iredell (Pt.)
 * File 1, Run 1, Scenario 43.
 * # # # # # # # # # # # # # # # # # # #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4769 | 0.3137 | 0.1072 | | 0.0396 | 0.0009 | 0.0020 | 0.0535 | 0.0062 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 2.044 | 2.834 | 2.967 | 2.868 | 2.996 | 0.828 | 1.312 | 0.709 | 3.51 | 2.364 |
| ----- | | | | | | | | | | |

* #

* Rural minor collector-Iredell (Pt.)

* File 1, Run 1, Scenario 44.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4734 | 0.3112 | 0.1063 | 0.0418 | 0.0008 | 0.0020 | 0.0584 | 0.0061 | 1.0000 | |
| Composite Emission Factors (g/ml): | 2.171 | 2.975 | 3.116 | 3.011 | 3.376 | 0.901 | 1.414 | 0.827 | 3.69 | 2.500 |

* # # # # # # # # # # # # # # # # # #
* Rural local-Iredell (Pt.)
* File 1, Run 1, Scenario 45.
* # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

VMT Distribution: 0.4733 0.3113 0.1063 0.0418 0.0008 0.0020 0.0584 0.0061 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 2.171 2.975 3.116 3.011 3.367 0.901 1.414 0.828 3.69 2.500

- * # # # # # # # # # # # # # # # #
- * Urban interstate-Iredell (Pt.)
- * File 1, Run 1, Scenario 46.
- * # # # # # # # # # # # # # # # #
- * Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR: <6000 >6000 (All)

VTM Distribution: 0.4306 0.2831 0.0967 0.0551 0.0008 0.0018 0.1262 0.0056 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 1.732 2.483 2.597 2.512 2.279 0.675 1.098 0.533 3.37 1.914

* * * * *

* Urban principle arterial-Iredell (Pt.)

* File 1, Run 1, Scenario 47.

* * * * *

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 23.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh

GVWR: <6000 >6000

VTM Distribution: 0.4942 0.3248 0.1110 0.0270 0.0009 0.0021 0.0336 0.0063 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 2.304 3.125 3.274 3.163 3.776 0.977 1.519 0.913 3.89 2.679

* * * * *

* Urban minor arterial-Iredell (Pt.)

* File 1, Run 1, Scenario 48.
 * # # # # # # # # # # # # # # # # # # #
 * Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 27.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4910 | 0.3231 | 0.1104 | | 0.0311 | 0.0009 | 0.0021 | 0.0350 | 0.0064 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 2.171 | 2.975 | 3.116 | 3.011 | 3.356 | 0.901 | 1.414 | 0.773 | 3.69 | 2.530 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
 * Urban collector-Iredell (Pt.)
 * File 1, Run 1, Scenario 49.
 * # # # # # # # # # # # # # # # # # # #
 * Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 26.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

MOBILE Inputs & Outputs for Non-Creditable Emissions
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

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November 30, 2009

```
* # # # # # # # # # # # # # # # #  
* Urban local-Iredell (Pt.)          # # # # # # # # # # # # # # # #  
* File 1, Run 1, Scenario 50.       # # # # # # # # # # # # # # # #  
* # # # # # # # # # # # # # # # #  
* Urban local mix and speeds         # # # # # # # # # # # # # # # #
```

User supplied VMT mix.

MS83 Warning:
The user supplied arterial average speed of 19.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

MI56 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4919 | 0.3234 | 0.1106 | | 0.0320 | 0.0009 | 0.0021 | 0.0327 | 0.0064 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 2.518 | 3.371 | 3.530 | 3.411 | 4.378 | 1.074 | 1.655 | 0.986 | 4.14 | 2.922 |
| ----- | | | | | | | | | | |

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: GASVC02N.IN (file 1, run 1).
*****

```

M 49 Warning:

M 49 Warning:

M 49 Warning:

Results Reflect No Clean Air Act of 1990

* Rural interstate-Gaston County

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##
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##
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##
##
*
```

M615 Comment :

M581 Warning:

M 48 Warning:

MI156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Month: July

Minimum Temperature: 71.0

Minimum Rel. Hum.: 47.0 (%)

rometric Pressure: 30.00 (in

Weathered RVP: 7.5 psi

Evap I/M Program: No

Reformulated Gas: No

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.4479 | 0.2948 | 0.1006 | | 0.0415 | 0.0006 | 0.0018 | 0.1070 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.258 | 1.813 | 1.474 | 1.727 | 1.193 | 0.544 | 0.841 | 0.436 | 3.47 | 1.364 |

* * * * *
* Rural minor arterial-Gaston County
* File 1, Run 1, Scenario 3.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4716 | 0.3102 | 0.1058 | | 0.0387 | 0.0006 | 0.0019 | 0.0651 | 0.0061 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.374 | 1.984 | 1.595 | 1.885 | 1.372 | 0.605 | 0.925 | 0.505 | 2.80 | 1.537 |

* * * * *
* Rural major collector-Gaston County
* File 1, Run 1, Scenario 4.
* * * * *
* Rural major collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4772 | 0.3139 | 0.1071 | | 0.0383 | 0.0006 | 0.0019 | 0.0548 | 0.0062 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.350 | 1.958 | 1.576 | 1.861 | 1.315 | 0.588 | 0.901 | 0.466 | 2.76 | 1.523 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural minor collector-Gaston County
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # #
* Rural minor collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)

effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4736 | 0.3114 | 0.1062 | | 0.0404 | 0.0006 | 0.0019 | 0.0598 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.350 | 1.958 | 1.576 | 1.861 | 1.317 | 0.588 | 0.901 | 0.469 | 2.76 | 1.517 |
| ----- | | | | | | | | | | |

* * * * *
* Rural local-Gaston County
* File 1, Run 1, Scenario 6.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4735 | 0.3115 | 0.1062 | | 0.0404 | 0.0006 | 0.0019 | 0.0598 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.501 | 2.134 | 1.713 | 2.027 | 1.664 | 0.703 | 1.062 | 0.642 | 3.07 | 1.684 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban interstate-Gaston County
 * File 1, Run 1, Scenario 7.
 * * * * *
 * Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4687 | 0.3083 | 0.1052 | | 0.0320 | 0.0006 | 0.0019 | 0.0773 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.258 | 1.813 | 1.474 | 1.727 | 1.192 | 0.544 | 0.841 | 0.433 | 3.47 | 1.398 |

* * * * *
 * Urban principle arterial-Gaston County
 * File 1, Run 1, Scenario 9.
 * * * * *
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4945 | 0.3251 | 0.1110 | | 0.0261 | 0.0006 | 0.0020 | 0.0345 | 0.0063 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.534 | 2.172 | 1.743 | 2.063 | 1.744 | 0.728 | 1.097 | 0.665 | 3.15 | 1.749 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban minor arterial-Gaston County
 * File 1, Run 1, Scenario 10.
 * * * * *
 * Urban minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4913 | 0.3234 | 0.1103 | | 0.0301 | 0.0006 | 0.0020 | 0.0360 | 0.0064 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.469 | 2.094 | 1.681 | 1.989 | 1.590 | 0.680 | 1.029 | 0.579 | 3.01 | 1.674 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # #
* Urban collector-Gaston County
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4921 | 0.3238 | 0.1105 | | 0.0310 | 0.0006 | 0.0020 | 0.0337 | 0.0064 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.552 | 2.193 | 1.760 | 2.082 | 1.785 | 0.742 | 1.117 | 0.655 | 3.19 | 1.768 |

* * * * *
* Urban local-Gaston County
* File 1, Run 1, Scenario 12.
* * * * *
* Urban local mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.4922 | 0.3237 | 0.1105 | | 0.0309 | 0.0006 | 0.0020 | 0.0338 | 0.0064 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.501 | 2.134 | 1.713 | 2.027 | 1.662 | 0.703 | 1.061 | 0.600 | 3.07 | 1.713 |

```

*****
*
* MOBILE6.2.03 (24-Sep-2003)
*
* Input file: MEKVC02N.IN (file 1, run 1).
*****

```

| | | | |
|------|----------|-------|-----------------------------------|
| M 49 | Warning: | 0.999 | MYR sum not = 1. (will normalize) |
| M 49 | Warning: | 1.00 | MYR sum not = 1. (will normalize) |
| M 49 | Warning: | 1.00 | MYR sum not = 1. (will normalize) |

```

* * * * * Rural principle arterial-Meck County
* * * * * File 1, Run 1, Scenario 1.
* * * * *
* * * * * Rural other principle arterial mix and speeds
* * * * * M615 Comment:
* * * * * User supplied VMT mix.

```

M581 Warning: The user supplied freeway average speed of 33.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

| | |
|----------------------|-------------------|
| Calendar Year: | 2002 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 300. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

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| | | | | | | | | | | |
|--|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4479 | 0.2948 | 0.1006 | | 0.0415 | 0.0006 | 0.0018 | 0.1070 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.453 | 2.075 | 1.665 | 1.970 | 1.580 | 0.669 | 1.014 | 0.638 | 2.98 | 1.583 |
| ----- | | | | | | | | | | |
| * # # # # # # # # # # # # # # # # # # | | | | | | | | | | |
| * Rural minor arterial-Meck County | | | | | | | | | | |
| * File 1, Run 1, Scenario 2. | | | | | | | | | | |
| * # # # # # # # # # # # # # # # # # # | | | | | | | | | | |
| * Rural minor arterial mix and speeds | | | | | | | | | | |
| M615 Comment: | | | | | | | | | | |
| User supplied VMT mix. | | | | | | | | | | |
| M583 Warning: | | | | | | | | | | |
| The user supplied arterial average speed of 28.0 | | | | | | | | | | |
| will be used for all hours of the day. 100% of VMT | | | | | | | | | | |
| has been assigned to the arterial/collector roadway | | | | | | | | | | |
| type for all hours of the day and all vehicle types. | | | | | | | | | | |
| M 48 Warning: | | | | | | | | | | |
| there are no sales for vehicle class HDGV8b | | | | | | | | | | |
| M156 Warning: | | | | | | | | | | |
| Onboard Refueling Vapor Recovery Regulation (1994) | | | | | | | | | | |
| effects have been disabled by the user. | | | | | | | | | | |
| Calendar Year: 2002 | | | | | | | | | | |
| Month: July | | | | | | | | | | |
| Altitude: Low | | | | | | | | | | |
| Minimum Temperature: 71.0 (F) | | | | | | | | | | |
| Maximum Temperature: 89.6 (F) | | | | | | | | | | |
| Minimum Rel. Hum.: 47.0 (%) | | | | | | | | | | |
| Maximum Rel. Hum.: 91.0 (%) | | | | | | | | | | |
| Barometric Pressure: 30.00 (inches Hg) | | | | | | | | | | |
| Nominal Fuel RVP: 7.8 psi | | | | | | | | | | |
| Weathered RVP: 7.5 psi | | | | | | | | | | |
| Fuel Sulfur Content: 300. ppm | | | | | | | | | | |
| Exhaust I/M Program: No | | | | | | | | | | |
| Evap I/M Program: No | | | | | | | | | | |
| ATP Program: Yes | | | | | | | | | | |
| Reformulated Gas: No | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4716 | 0.3102 | 0.1058 | | 0.0387 | 0.0006 | 0.0019 | 0.0651 | 0.0061 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.534 | 2.172 | 1.743 | 2.063 | 1.754 | 0.728 | 1.097 | 0.694 | 3.15 | 1.716 |

* * * * *
* Rural major collector-Meck County
* File 1, Run 1, Scenario 3.
* * * * *
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4772 | 0.3139 | 0.1071 | | 0.0383 | 0.0006 | 0.0019 | 0.0548 | 0.0062 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.306 | 1.901 | 1.534 | 1.807 | 1.230 | 0.560 | 0.863 | 0.425 | 2.72 | 1.473 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor collector-Meck County
* File 1, Run 1, Scenario 4.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDVV | LDVT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4736 | 0.3114 | 0.1062 | | 0.0404 | 0.0006 | 0.0019 | 0.0598 | 0.0061 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.408 | 2.021 | 1.624 | 1.920 | 1.455 | 0.633 | 0.964 | 0.537 | 2.87 | 1.579 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

* #

* Rural local-Meck County

* File 1, Run 1, Scenario 5.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4735 | 0.3115 | 0.1062 | | 0.0404 | 0.0006 | 0.0019 | 0.0598 | 0.0061 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.501 | 2.134 | 1.713 | 2.027 | 1.664 | 0.703 | 1.062 | 0.642 | 3.07 | 1.684 |

* #
* Urban interstate-Meck County
* File 1, Run 1, Scenario 6.
* #
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4308 | 0.2833 | 0.0967 | | 0.0531 | 0.0006 | 0.0017 | 0.1282 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.358 | 1.966 | 1.582 | 1.868 | 1.345 | 0.593 | 0.908 | 0.511 | 2.77 | 1.449 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban freeway-Meck County
 * File 1, Run 1, Scenario 7.
 * * * * *
 * * * * *
 * Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

* * * * *
 * Urban minor arterial-Meck County
 * File 1, Run 1, Scenario 9.
 * * * * *
 * Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 26.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4913 | 0.3234 | 0.1103 | | 0.0301 | 0.0006 | 0.0020 | 0.0360 | 0.0064 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.571 | 2.215 | 1.778 | 2.104 | 1.837 | 0.758 | 1.138 | 0.690 | 3.23 | 1.788 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban collector-Meck County
 * File 1, Run 1, Scenario 10.
 * * * * *
 * Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 25.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.4921 | 0.3238 | 0.1105 | 0.0310 | 0.0006 | 0.0020 | 0.0337 | 0.0064 | 1.0000 | |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | 1.592 | 2.239 | 1.798 | 2.127 | 1.887 | 0.774 | 1.161 | 0.699 | 3.27 | 1.813 |
| Composite VOC : | | | | | | | | | | |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban local-Meck County
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

| | |
|----------------------|-------------------|
| Calendar Year: | 2002 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 300. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDLV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4922 | 0.3237 | 0.1105 | | 0.0309 | 0.0006 | 0.0020 | 0.0338 | 0.0064 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.501 | 2.134 | 1.713 | 2.027 | 1.662 | 0.703 | 1.061 | 0.600 | 3.07 | 1.713 |
| ----- | | | | | | | | | | |

3.2.1 MG08N.TXT

* Reading Registration Distributions from the following external

M 49 Warning:

M 49 Warning:

M 49 Warning:

M 49 Warning:

M 49 Warning:

M 49 Warning:

Results Reflect No Clean Air Act of 1990

* Rural principle arterial-Meck County

[illegible]

M615 Comment:

M581 Warning:

M 48 Warning:

ML156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Month: July

Minimum Temperature: 71.0

Minimum Rel. Hum.: 47.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Weathered RVP: 7.5 psi

```

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 0.3708 0.3569 0.1216 0.0398 0.0004 0.0019 0.1032 0.0054 -----
VMT Distribution: 0.3708 0.3569 0.1216 0.0398 0.0004 0.0019 0.1032 0.0054 -----
-----
Composite Emission Factors (g/mi):
Composite VOC : 1.313 1.764 1.260 1.636 1.137 0.426 0.553 0.475 2.64 1.379
Composite NOX : 1.160 1.306 1.105 1.255 5.089 1.126 1.243 12.065 1.11 2.487
-----
* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial-Weck County
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds
M615 Comment:
M583 Warning:
User supplied VMT mix.
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh

```

MOBILE Inputs & Outputs for Non-Creditable Emissions
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

* * * * *
* Rural minor collector-Meck County
* File 1, Run 1, Scenario 4.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.330 | 1.782 | 1.272 | 1.652 | 1.161 | 0.436 | 0.567 | 0.465 | 2.66 | 1.447 |
| Composite NOX : | 1.156 | 1.298 | 1.096 | 1.246 | 4.986 | 1.098 | 1.211 | 9.762 | 1.11 | 1.799 |
| ----- | | | | | | | | | | |

* * * * *
* Rural local-Meck County
* File 1, Run 1, Scenario 5.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

| | |
|-------------------|---------|
| Nominal Fuel RVP: | 7.8 psi |
|-------------------|---------|

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

| Evap | I/M Program: | No |
|------|--------------|-----|
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |
| 7 | 7 | 7 |
| 8 | 8 | 8 |
| 9 | 9 | 9 |
| 10 | 10 | 10 |
| 11 | 11 | 11 |
| 12 | 12 | 12 |
| 13 | 13 | 13 |
| 14 | 14 | 14 |
| 15 | 15 | 15 |
| 16 | 16 | 16 |
| 17 | 17 | 17 |
| 18 | 18 | 18 |
| 19 | 19 | 19 |
| 20 | 20 | 20 |
| 21 | 21 | 21 |
| 22 | 22 | 22 |
| 23 | 23 | 23 |
| 24 | 24 | 24 |
| 25 | 25 | 25 |
| 26 | 26 | 26 |
| 27 | 27 | 27 |
| 28 | 28 | 28 |
| 29 | 29 | 29 |
| 30 | 30 | 30 |
| 31 | 31 | 31 |
| 32 | 32 | 32 |
| 33 | 33 | 33 |
| 34 | 34 | 34 |
| 35 | 35 | 35 |
| 36 | 36 | 36 |
| 37 | 37 | 37 |
| 38 | 38 | 38 |
| 39 | 39 | 39 |
| 40 | 40 | 40 |
| 41 | 41 | 41 |
| 42 | 42 | 42 |
| 43 | 43 | 43 |
| 44 | 44 | 44 |
| 45 | 45 | 45 |
| 46 | 46 | 46 |
| 47 | 47 | 47 |
| 48 | 48 | 48 |
| 49 | 49 | 49 |
| 50 | 50 | 50 |
| 51 | 51 | 51 |
| 52 | 52 | 52 |
| 53 | 53 | 53 |
| 54 | 54 | 54 |
| 55 | 55 | 55 |
| 56 | 56 | 56 |
| 57 | 57 | 57 |
| 58 | 58 | 58 |
| 59 | 59 | 59 |
| 60 | 60 | 60 |
| 61 | 61 | 61 |
| 62 | 62 | 62 |
| 63 | 63 | 63 |
| 64 | 64 | 64 |
| 65 | 65 | 65 |
| 66 | 66 | 66 |
| 67 | 67 | 67 |
| 68 | 68 | 68 |
| 69 | 69 | 69 |
| 70 | 70 | 70 |
| 71 | 71 | 71 |
| 72 | 72 | 72 |
| 73 | 73 | 73 |
| 74 | 74 | 74 |
| 75 | 75 | 75 |
| 76 | 76 | 76 |
| 77 | 77 | 77 |
| 78 | 78 | 78 |
| 79 | 79 | 79 |
| 80 | 80 | 80 |
| 81 | 81 | 81 |
| 82 | 82 | 82 |
| 83 | 83 | 83 |
| 84 | 84 | 84 |
| 85 | 85 | 85 |
| 86 | 86 | 86 |
| 87 | 87 | 87 |
| 88 | 88 | 88 |
| 89 | 89 | 89 |
| 90 | 90 | 90 |
| 91 | 91 | 91 |
| 92 | 92 | 92 |
| 93 | 93 | 93 |
| 94 | 94 | 94 |
| 95 | 95 | 95 |
| 96 | 96 | 96 |
| 97 | 97 | 97 |
| 98 | 98 | 98 |
| 99 | 99 | 99 |
| 100 | 100 | 100 |

| Evaluated | ATP Program: | ATP Program: | ATP Program: |
|-----------|--------------|--------------|--------------|
| Yes | Yes | Yes | Yes |
| No | No | No | No |

Reformulated Gas: No
 Air Program: No

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDGT | HDDV | MC | All Veh |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3763 | 0.3658 | 0.1247 | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| Source | Composite VOC | Composite NOX | Composite SO ₂ | Composite PM ₁₀ | Composite PM _{2.5} | Composite CO | Composite O ₃ | Composite H ₂ O | Composite CH ₄ | Composite NH ₃ | Composite HFC | Composite PFC | Composite SF ₆ | Composite NF ₃ | Composite GWP |
|-----------|---------------|---------------|---------------------------|----------------------------|-----------------------------|--------------|--------------------------|----------------------------|---------------------------|---------------------------|---------------|---------------|---------------------------|---------------------------|---------------|
| Source 1 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 2 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 3 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 4 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 5 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 6 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 7 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 8 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 9 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 10 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 11 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 12 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 13 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 14 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 15 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 16 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 17 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 18 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 19 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 20 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 21 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | 0.592 | 2.91 | 1.543 | 2.022 | 1.04 | 2.022 |
| Source 22 | 1.445 | 1.187 | 1.306 | 1.911 | 1.357 | 1.770 | 1.377 | 0.508 | 0.669 | | | | | | |

[illegible]

* Urban interstate-Meck County

* File 1, Run 1, Scenario 6.

[illegible]

* Urban interstate mix and speeds

M615 Comment:

MOIS COMMENT. User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3564 | 0.3431 | 0.1169 | | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.264 | 1.708 | 1.227 | 1.586 | 1.055 | 0.401 | 0.517 | 0.425 | 2.59 | 1.302 |
| Composite NOX : | 1.175 | 1.333 | 1.132 | 1.282 | 5.346 | 1.258 | 1.390 | 13.271 | 1.18 | 2.948 |

* * * * *
* Urban freeway-Meck County
* File 1, Run 1, Scenario 7.
* * * * *
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

VMT Distribution: 0.3807 0.3667 0.1249 0.0349 0.0004 0.0019 0.0849 0.0055 1.0000

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 1.244 | 1.678 | 1.211 | 1.559 | 1.027 | 0.392 | 0.504 | 0.409 | 2.58 | 1.326 |
| Composite NOX : | 1.185 | 1.349 | 1.149 | 1.298 | 5.497 | 1.387 | 1.535 | 14.592 | 1.27 | 2.530 |

* * * * *
 * Urban principle arterial-Neck County
 * File 1, Run 1, Scenario 8.
 * * * * *
 * * * * *
 * Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No

Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0258 | 0.0021 | 0.0342 | 0.0058 | 1.0000 | | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.495 | 1.966 | 1.395 | 1.821 | 1.471 | 0.538 | 0.714 | 0.636 | 3.01 | 1.643 |
| Composite NOX : | 1.222 | 1.333 | 1.128 | 1.281 | 4.505 | 1.106 | 1.221 | 9.464 | 1.01 | 1.618 |

- * #
- * Urban minor arterial-Meck County
- * File 1, Run 1, Scenario 9.
- * #
- * Urban minor arterial mix and speeds
- M615 Comment: User supplied VMT mix.
- M583 Warning:

The user supplied arterial average speed of 27.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

- M 48 Warning: there are no sales for vehicle class HDGV8b
- M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | 0.0281 | 0.0021 | 0.0339 | 0.0059 | 1.0000 | | |


```

* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # #
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 20.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

```

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 300. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDLV | LDLT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.4018 | 0.3860 | 0.1316 | | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.670 | 2.173 | 1.536 | 2.011 | 1.797 | 0.638 | 0.856 | 0.781 | 3.34 | 1.825 |
| Composite NOX : | 1.340 | 1.426 | 1.214 | 1.372 | 4.233 | 1.217 | 1.345 | 9.594 | 0.93 | 1.767 |

```

* * * * *
* * Rural Interstate - Gaston County
* * File 1, Run 1, Scenario 12.
* * * * *
* * Rural interstate mix and speeds
* * M615 Comment:      User supplied VMT mix.

```

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT over supplied with min!

has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3148 | 0.3031 | 0.1033 | | 0.0795 | 0.0003 | 0.0016 | 0.1929 | 0.0046 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.232 | 1.658 | 1.201 | 1.542 | 1.012 | 0.387 | 0.498 | 0.400 | 2.66 | 1.185 |
| Composite NOX : | 1.193 | 1.361 | 1.161 | 1.310 | 5.607 | 1.508 | 1.670 | 15.834 | 1.34 | 4.418 |
| ----- | | | | | | | | | | |

* * * * *
* Rural principle arterial- Gaston County
* File 1, Run 1, Scenario 13.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008

Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | 0.0398 | 0.0004 | 0.0019 | 0.1032 | 0.0054 | 1.0000 | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.232 | 1.658 | 1.201 | 1.542 | 1.013 | 0.387 | 0.498 | 0.402 | 2.66 | 1.292 |
| Composite NOX : | 1.193 | 1.361 | 1.161 | 1.310 | 5.612 | 1.508 | 1.670 | 16.021 | 1.34 | 2.957 |

* * * * *
* Rural minor arterial- Gaston County
* File 1, Run 1, Scenario 14.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

MOBILE Inputs & Outputs for Non-Creditable Emissions
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

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Appendix A
November 30, 2009

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* * * * *
* Rural minor collector- Gaston County
* File 1, Run 1, Scenario 16.
* * * * *
* Rural minor collector mix and speeds
```

* * * * *
 * Rural local- Gaston County
 * File 1, Run 1, Scenario 17.
 * * * * *
 * Rural local mix and speeds

M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000

VMT Distribution: 0.3763 0.3658 0.1247 0.0505 0.0004 0.0019 0.0748 0.0055 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 1.477 1.947 1.381 1.803 0.527 0.698 0.627 2.97 1.578
 Composite NOX : 1.210 1.323 1.119 1.272 4.546 1.210 9.752 1.02 2.047

* * * * *
 * Urban interstate- Gaston County
 * File 1, Run 1, Scenario 18.
 * * * * *
 * Urban interstate mix and speeds

M615 Comment:
 User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3564 | 0.3431 | 0.1169 | | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.253 | 1.693 | 1.218 | 1.572 | 1.039 | 0.396 | 0.510 | 0.416 | 2.58 | 1.290 |
| Composite NOX : | 1.180 | 1.341 | 1.141 | 1.290 | 5.421 | 1.316 | 1.455 | 13.871 | 1.22 | 3.032 |
| ----- | | | | | | | | | | |

* #
* Urban freeway- Gaston County
* File 1, Run 1, Scenario 19.
* #
* Urban freeway mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 54.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)

effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3807 | 0.3667 | 0.1249 | | 0.0349 | 0.0004 | 0.0019 | 0.0849 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.240 | 1.671 | 1.207 | 1.553 | 1.022 | 0.390 | 0.502 | 0.405 | 2.58 | 1.321 |
| Composite NOX : | 1.188 | 1.353 | 1.153 | 1.302 | 5.533 | 1.421 | 1.572 | 14.936 | 1.29 | 2.564 |
| ----- | | | | | | | | | | |

* * * * *
* Urban principle arterial- Gaston County
* File 1, Run 1, Scenario 20.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.400 | 1.859 | 1.321 | 1.722 | 1.297 | 0.481 | 0.632 | 0.536 | 2.82 | 1.543 |
| Composite NOX : | 1.165 | 1.293 | 1.090 | 1.241 | 4.727 | 1.074 | 1.185 | 9.180 | 1.07 | 1.570 |

* * * * *
* Urban minor arterial- Gaston County
* File 1, Run 1, Scenario 21.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 | |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.387 | 1.844 | 1.311 | 1.708 | 1.274 | 0.473 | 0.621 | 0.515 | 2.79 | 1.529 |
| Composite NOX : | 1.158 | 1.289 | 1.086 | 1.237 | 4.762 | 1.072 | 1.183 | 8.826 | 1.07 | 1.560 |

* * * * *
* Urban collector- Gaston County
* File 1, Run 1, Scenario 22.
* * * * *
* * * * *
* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.534 | 2.010 | 1.425 | 1.861 | 1.547 | 0.563 | 0.749 | 0.658 | 3.09 | 1.686 |
| Composite NOX : | 1.250 | 1.355 | 1.148 | 1.302 | 4.418 | 1.127 | 1.244 | 8.900 | 0.99 | 1.610 |

* * * * *
 * Urban local- Gaston County
 * File 1, Run 1, Scenario 23.
 * * * * *
 * * * * *
 * Urban local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 24.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1316 | | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.557 | 2.037 | 1.443 | 1.886 | 1.588 | 0.576 | 0.767 | 0.676 | 3.14 | 1.702 |
| Composite NOX : | 1.265 | 1.367 | 1.159 | 1.314 | 4.388 | 1.142 | 1.261 | 8.983 | 0.98 | 1.689 |

MOBILE Inputs & Outputs for Non-Creditable Emissions
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

Results Reflect No Clean Air Act of 1990

```
* * * * *
* * Rural principle arterial- Rowan County
*   File 1, Run 1, Scenario 1.
* * * * *
* * * * *
* * * * *
```

M615 Comment:

User supplied VMT mix.

M581 Warning:

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

M 49 Warning:

0.998 MYR sum not = 1. (will normalize)

M 49 Warning:

```
0 998 MYR sum not = 1 (will normalize)
```

M 49 Warning:
0.998 MIN SUM LOC - 1: (WITH NORMALIZE)

```

M 49 warning:
0 999 MVR sum not = 1 (will normalize)

```

M 49 Warning:
0.555 MIK sum IOC = 1: (will normalize)

```

M 49 warning:
0 999 MYP sum not = 1 (will normalize)

```

M 10 Warning:
0.999 MYR sum not = 1. (will normalize)

```

M 49 warning:
0 000      MYP cum tot = 1 (xill normal)

```

```

0.999 MYR sum not = 1. (will normalize)
M 40 MYR sum not = 1. (will normalize)

```

M 49 Warning:

0.999 MYR sum not = 1. (will normalize)

M 49 Warning:

0.999 MYR sum not = 1. (will normalize)

M 49 Warning:

0.999 MYR sum not = 1. (will normalize)

M 49 Warning:

0.999 MYR sum not = 1. (will normalize)

M 49 Warning:

0.999 MYR sum not = 1. (will normalize)

M 49 Warning:

0.999 MYR sum not = 1. (will normalize)

M 49 Warning:

0.999 MYR sum not = 1. (will normalize)

M 49 Warning:

1.00 MYR sum not = 1. (will normalize)

[illegible]

Results Reflect No Clean Air Act of 1990

```
* * * * *
* Rural principle arterial- Rowan County
* File 1, Run 1, Scenario 1.
```

* Rural other principle arterial mix and speeds

M615 Comment :

User supplied VMT mix.

M581 Warning:

effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.578 | 2.140 | 1.793 | 2.051 | 1.625 | 0.460 | 0.628 | 0.405 | 3.17 | 1.741 |
| Composite NOX : | 1.310 | 1.463 | 1.333 | 1.430 | 5.801 | 1.700 | 1.878 | 15.019 | 1.38 | 2.501 |
| ----- | | | | | | | | | | |

* * * * *
* Rural major collector- Rowan County
* File 1, Run 1, Scenario 3.
* * * * *
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 1.606 | 2.180 | 1.825 | 2.090 | 1.656 | 0.466 | 0.637 | 0.407 | 3.01 | 1.806 |
| Composite NOX : | 1.300 | 1.447 | 1.316 | 1.413 | 5.638 | 1.511 | 1.668 | 12.720 | 1.28 | 2.032 |

* * * * *
* Rural minor collector- Rowan County
* File 1, Run 1, Scenario 4.
* * * * *
* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 1.651 | 2.237 | 1.870 | 2.144 | 1.724 | 0.479 | 0.657 | 0.430 | 3.02 | 1.844 |
| Composite NOX : | 1.288 | 1.427 | 1.295 | 1.393 | 5.448 | 1.347 | 1.486 | 11.417 | 1.18 | 2.029 |

* * * * *
* Rural local- Rowan County
* File 1, Run 1, Scenario 5.
* * * * *
* * * * *
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 1.970 | 2.565 | 2.144 | 2.458 | 2.335 | 0.617 | 0.859 | 0.660 | 3.42 | 2.136 |
| Composite NOX : | 1.331 | 1.422 | 1.289 | 1.388 | 4.683 | 1.197 | 1.319 | 10.114 | 1.03 | 2.180 |

* * * * *
 * Urban interstate- Rowan County
 * File 1, Run 1, Scenario 6.
 * * * * *
 * Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 59.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3564 | 0.3431 | 0.1170 | | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 1.566 | 2.122 | 1.779 | 2.035 | 1.619 | 0.458 | 0.625 | 0.418 | 3.31 | 1.649 |
| Composite NOX : | 1.316 | 1.472 | 1.341 | 1.438 | 5.896 | 1.810 | 2.000 | 18.273 | 1.42 | 3.715 |

* * * * *
 * Urban principle arterial- Rowan County
 * File 1, Run 1, Scenario 7.

* #
* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| GVWR: | 0.4066 | <6000 | >6000 | (All) | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
|-------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|

VMT Distribution: 0.4066 0.3916 0.1335

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.786 | 2.372 | 1.981 | 2.273 | 1.968 | 0.534 | 0.737 | 0.512 | 3.15 | 2.009 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite NOX : | 1.271 | 1.388 | 1.255 | 1.354 | 5.021 | 1.181 | 1.301 | 9.585 | 1.10 | 1.693 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

* #
* Urban minor arterial- Rowan County
* File 1, Run 1, Scenario 8.

* #
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.759 | 2.345 | 1.959 | 2.247 | 1.911 | 0.521 | 0.718 | 0.482 | 3.11 | 1.981 |
| Composite NOX : | 1.272 | 1.393 | 1.260 | 1.359 | 5.095 | 1.192 | 1.314 | 9.308 | 1.11 | 1.695 |
| ----- | | | | | | | | | | |

* * * * *
* Urban collector- Rowan County
* File 1, Run 1, Scenario 9.
* * * * *
* Urban collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008

Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.899 | 2.490 | 2.080 | 2.386 | 2.184 | 0.584 | 0.811 | 0.574 | 3.31 | 2.127 |
| Composite NOX : | 1.299 | 1.399 | 1.266 | 1.366 | 4.785 | 1.176 | 1.296 | 8.768 | 1.06 | 1.668 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban local- Rowan County
 * File 1, Run 1, Scenario 10.
 * * * * *
 * * * * *
 * Urban local mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):
 Composite VOC : 2.055 2.654 2.220 2.544 2.508 0.657 0.917 0.686 3.54 2.278
 Composite NOX : 1.374 1.455 1.320 1.421 4.551 1.230 1.355 9.141 1.00 1.798

* * * * *
 * Rural Interstate - Iredell County(Pt)
 * File 1, Run 1, Scenario 11.
 * * * * *
 * * * * *
 * Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 60.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

* #
* Rural major collector- Iredell County(Pt)
* File 1, Run 1, Scenario 13.
* #
* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.835 | 2.422 | 2.023 | 2.321 | 2.069 | 0.557 | 0.771 | 0.558 | 3.22 | 2.039 |
| Composite NOX : | 1.276 | 1.387 | 1.253 | 1.353 | 4.908 | 1.170 | 1.289 | 9.795 | 1.08 | 1.830 |

* #
* Rural minor collector- Iredell County(Pt)
* File 1, Run 1, Scenario 14.
* #
* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 2.055 | 2.654 | 2.220 | 2.544 | 2.515 | 0.657 | 0.917 | 0.727 | 3.54 | 2.255 |
| Composite NOX : | 1.374 | 1.455 | 1.320 | 1.421 | 4.559 | 1.230 | 1.355 | 10.401 | 1.00 | 1.989 |
| ----- | | | | | | | | | | |

* #
* Rural local- Iredell County(Pt)
* File 1, Run 1, Scenario 15.
* #
* Rural local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 2.024 | 2.622 | 2.192 | 2.513 | 2.450 | 0.642 | 0.896 | 0.703 | 3.50 | 2.193 |
| Composite NOX : | 1.359 | 1.443 | 1.309 | 1.409 | 4.604 | 1.218 | 1.342 | 10.296 | 1.01 | 2.210 |

- * # # # # # # # # # # # # # # # # # #
- * Urban principle arterial- Iredell County(Pt)
- * File 1, Run 1, Scenario 16.
- * # # # # # # # # # # # # # # # # # #
- * Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 2.024 | 2.622 | 2.192 | 2.513 | 2.446 | 0.642 | 0.896 | 0.690 | 3.50 | 2.252 |
| Composite NOX : | 1.359 | 1.443 | 1.309 | 1.409 | 4.599 | 1.218 | 1.342 | 9.892 | 1.01 | 1.757 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban minor arterial- Iredell County(Pt)
 * File 1, Run 1, Scenario 17.
 * * * * *
 * * * * *
 * Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 300. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

```

* * * * * Rural minor arterial- Lincoln County
* * * * * File 1, Run 1, Scenario 21.
* * * * *
* * * * * Rural minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.

```

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |

VMT Distribution: 0.3851 0.3703 0.1262 0.0417 0.0004 0.0019 0.0687 0.0056 1.0000

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 1.772 | 2.359 | 1.970 | 2.260 | 1.947 | 0.527 | 0.727 | 0.519 | 3.13 | 1.940 |
| Composite NOX : | 1.271 | 1.391 | 1.258 | 1.357 | 5.072 | 1.187 | 1.308 | 10.422 | 1.11 | 2.100 |

* #

* Rural major collector- Lincoln County

* File 1, Run 1, Scenario 22.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.584 | 2.149 | 1.800 | 2.060 | 1.628 | 0.461 | 0.630 | 0.398 | 3.09 | 1.782 |
| Composite NOX : | 1.308 | 1.459 | 1.328 | 1.426 | 5.752 | 1.643 | 1.814 | 13.843 | 1.35 | 2.098 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor collector- Lincoln County
* File 1, Run 1, Scenario 23.
* * * * *
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)

| | |
|----------------------|-----|
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

Composite Emission Factors (g/mi):

[illegible]

* Rural local- Lincoln County

* File 1, Run 1, Scenario 24.

[illegible]

* Rural local mix and speeds

M615 Comment :

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

| | Altitude: | Low |
|----------------------|-----------|----------|
| Minimum Temperature: | | 71.0 (F) |
| Maximum Temperature: | | 89.6 (F) |
| Minimum Rel. Hum.: | | 47.0 (%) |
| Maximum Rel. Hum.: | | 91.0 (%) |

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | 0.0512 | 0.0019 | 0.0741 | 0.0055 | 1.0000 | | |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.945 | 2.540 | 2.122 | 2.433 | 0.605 | 0.842 | 3.38 | 2.111 | | |
| Composite NOX : | 1.319 | 1.413 | 1.280 | 1.379 | 4.719 | 10.032 | 1.04 | 2.166 | | |
| ----- | | | | | | | | | | |

* * * * *
* Urban principle arterial- Lincoln County
* File 1, Run 1, Scenario 25.
* * * * *
* * * * *
* Urban principle arterial mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 | |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.707 | 2.296 | 1.918 | 2.200 | 1.814 | 0.499 | 0.686 | 0.455 | 3.05 | 1.931 |

Composite NOX : 1.278 1.407 1.275 1.374 5.251 1.243 1.370 10.102 1.13 1.730

* * * * *
* Urban minor arterial- Lincoln County
* File 1, Run 1, Scenario 26.
* * * * *
* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 2.088 | 2.692 | 2.251 | 2.580 | 2.580 | 0.670 | 0.938 | 0.724 | 3.58 | 2.320 |
| Composite NOX : | 1.390 | 1.467 | 1.332 | 1.433 | 4.522 | 1.246 | 1.373 | 9.737 | 0.99 | 1.779 |

* * * * *
* Urban collector- Lincoln County
* File 1, Run 1, Scenario 27.
* * * * *
* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.922 | 2.516 | 2.102 | 2.410 | 2.229 | 0.595 | 0.826 | 0.591 | 3.35 | 2.151 |
| Composite NOX : | 1.307 | 1.404 | 1.271 | 1.370 | 4.742 | 1.179 | 1.298 | 8.785 | 1.05 | 1.673 |
| ----- | | | | | | | | | | |

* * * * *
* Urban local- Lincoln County
* File 1, Run 1, Scenario 28.
* * * * *
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
M 48 Warning:

M156 Warning: there are no sales for vehicle class HDGV8b
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 2.055 | 2.654 | 2.220 | 2.544 | 2.508 | 0.657 | 0.917 | 0.686 | 3.54 | 2.278 |
| Composite NOX : | 1.374 | 1.455 | 1.320 | 1.421 | 4.551 | 1.230 | 1.355 | 9.141 | 1.00 | 1.798 |
| ----- | | | | | | | | | | |

M581 Warning:
The user supplied freeway average speed of 52.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.614 | 2.191 | 1.833 | 2.100 | 1.681 | 0.468 | 0.641 | 0.439 | 3.01 | 1.734 |
| Composite NOX : | 1.298 | 1.443 | 1.311 | 1.409 | 5.632 | 1.474 | 1.627 | 15.196 | 1.25 | 2.953 |

* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Cabarrus County
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.578 | 2.140 | 1.793 | 2.051 | 1.625 | 0.460 | 0.628 | 0.405 | 3.17 | 1.741 |
| Composite NOX : | 1.310 | 1.463 | 1.333 | 1.430 | 5.801 | 1.700 | 1.878 | 15.019 | 1.38 | 2.501 |

* * * * *
* Rural major collector- Cabarrus County
* File 1, Run 1, Scenario 3.
* * * * *
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)

| | |
|----------------------|-----|
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 1.684 | 2.274 | 1.900 | 2.179 | 1.776 | 0.490 | 0.672 | 0.446 | 3.03 | 1.889 |
| Composite NOX : | 1.282 | 1.414 | 1.282 | 1.381 | 5.327 | 1.270 | 1.400 | 10.652 | 1.14 | 1.900 |

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994 effects have been disabled by the user.

| Composite Emission Factors (g/mi): | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 1.707 | 2.296 | 1.918 | 2.200 | 1.818 | 0.499 | 0.686 | 0.463 | 3.05 | 1.901 |
| Composite NOX : | 1.278 | 1.407 | 1.275 | 1.374 | 5.256 | 1.243 | 1.370 | 10.518 | 1.13 | 1.960 |

M583 Warning: The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

| | |
|----------------------|-----|
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

* # # # # # # # # # # # # # # # # # #
* Urban principle arterial- Cabarrus County

```
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # #
* Urban principle arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user
```

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 300. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDVV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.899 | 2.490 | 2.080 | 2.386 | 2.185 | 0.584 | 0.811 | 0.594 | 3.31 | 2.123 |
| Composite NOX : | 1.299 | 1.399 | 1.266 | 1.366 | 4.790 | 1.176 | 1.296 | 9.545 | 1.06 | 1.703 |

```

* * * * *
* Urban minor arterial- Cabarrus County
* File 1, Run 1, Scenario 8.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT

```

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|-----|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|-----|------|------|----|---------|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.922 | 2.516 | 2.102 | 2.410 | 2.231 | 0.595 | 0.826 | 0.601 | 3.35 | 2.148 |
| Composite NOX : | 1.307 | 1.404 | 1.271 | 1.370 | 4.746 | 1.179 | 1.298 | 9.196 | 1.05 | 1.701 |

* #

* Urban collector- Cabarrus County

* File 1, Run 1, Scenario 9.

* #

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.922 | 2.516 | 2.102 | 2.410 | 2.229 | 0.595 | 0.826 | 0.591 | 3.35 | 2.151 |
| Composite NOX : | 1.307 | 1.404 | 1.271 | 1.370 | 4.742 | 1.179 | 1.298 | 8.785 | 1.05 | 1.673 |
| ----- | | | | | | | | | | |

* #
 * Urban local- Cabarrus County
 * File 1, Run 1, Scenario 10.
 * #
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)

```

* * * * *
* * Rural principal arterial - Union County
* * File 1, Run 1, Scenario 11.
* * * * *
* * * * *
* * Rural other principle arterial mix and speeds
* * * * *

```

User supplied VMT mix.

The user supplied freeway average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 300. ppm |

| | | |
|-------------------|--------------|-----|
| Exhaust | I/M Program: | No |
| Evap | I/M Program: | No |
| | ATP Program: | Yes |
| Reformulated Gas: | | No |

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.672 | 2.261 | 1.889 | 2.167 | 1.771 | 0.486 | 0.667 | 0.471 | 3.03 | 1.794 |
| Composite NOX : | 1.284 | 1.419 | 1.287 | 1.385 | 5.399 | 1.297 | 1.430 | 13.466 | 1.15 | 2.748 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor arterial- Union County
* File 1, Run 1, Scenario 12.
* * * * *
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.614 | 2.191 | 1.833 | 2.100 | 1.672 | 0.468 | 0.641 | 0.419 | 3.01 | 1.781 |

Composite NOX : 1.298 1.443 1.311 1.409 5.609 1.474 1.626 12.991 1.25 2.337

* * * * *
* Rural major collector- Union County
* File 1, Run 1, Scenario 13.
* * * * *
* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M156 Warning:

Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3986 0.3832 0.1306 0.0330 0.0004 0.0020 0.0464 0.0058 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 1.672 2.261 1.889 2.167 1.757 0.486 0.667 0.440 3.03 1.877

Composite NOX : 1.284 1.419 1.287 1.385 5.368 1.297 1.430 10.882 1.15 1.916

* * * * *
* Rural minor collector- Union County
* File 1, Run 1, Scenario 14.

* * * * *

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994) effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 1.684 | 2.274 | 1.900 | 2.179 | 1.776 | 0.490 | 0.672 | 0.448 | 3.03 | 1.878 |
| Composite NOX : | 1.282 | 1.414 | 1.282 | 1.381 | 5.328 | 1.270 | 1.400 | 10.750 | 1.14 | 1.980 |

* * * * *
* Rural local- Union County
* File 1, Run 1, Scenario 15.
* * * * *
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b
M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 | |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.922 | 2.516 | 2.102 | 2.410 | 2.235 | 0.595 | 0.826 | 0.623 | 3.35 | 2.087 |
| Composite NOX : | 1.307 | 1.404 | 1.271 | 1.370 | 4.752 | 1.179 | 1.298 | 9.956 | 1.05 | 2.154 |
| ----- | | | | | | | | | | |

* #
* Urban freeway- Union County
* File 1, Run 1, Scenario 16.
* #
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M156 Warning: Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3807 | 0.3667 | 0.1250 | | 0.0355 | 0.0004 | 0.0019 | 0.0843 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.835 | 2.422 | 2.022 | 2.320 | 2.084 | 0.557 | 0.771 | 0.593 | 3.22 | 1.983 |
| Composite NOX : | 1.273 | 1.384 | 1.250 | 1.350 | 4.933 | 1.170 | 1.289 | 12.068 | 1.08 | 2.350 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban principle arterial- Union County
 * File 1, Run 1, Scenario 17.
 * * * * *
 * * * * *
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 37.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M156 Warning:
 Onboard Refueling Vapor Recovery Regulation (1994)
 effects have been disabled by the user.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.786 | 2.372 | 1.981 | 2.273 | 1.968 | 0.534 | 0.737 | 0.512 | 3.15 | 2.009 |
| Composite NOX : | 1.271 | 1.388 | 1.255 | 1.354 | 5.021 | 1.181 | 1.301 | 9.585 | 1.10 | 1.693 |

* * * * *
* Urban minor arterial- Union County
* File 1, Run 1, Scenario 18.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M156 Warning:
Onboard Refueling Vapor Recovery Regulation (1994)
effects have been disabled by the user.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 300. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

MOBILE Inputs & Outputs for Non-Creditable Emissions
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

| Composite NOX : | 1.344 | 1.432 | 1.298 | 1.398 | 4.636 | 1.207 | 1.330 | 8.967 | 1.02 | 1.771 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.330 | 2.333 | 2.107 | 2.103 | 2.333 | 0.023 | 0.077 | 0.012 | 0.13 | 2.213 |