5.2 MOBILE6.2 OUTPUT FILES

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV00.IN (file 1, run 1).                    *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)
* IDLE Annual I/M program no exemption

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4053  0.2157  0.0750        0.0885  0.0007  0.0014  0.2085  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.241   1.901   1.803   1.875   1.343  0.637   0.925   0.406    2.80   1.267
   Composite NOX :    1.178   1.460   1.536   1.480   5.874  2.464   2.658  25.879    1.68   6.837
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
```

```
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4911  0.2616  0.0917        0.0444  0.0009  0.0017  0.1047  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.263   1.952   1.858   1.928   1.387  0.652   0.941   0.426    2.32   1.419
   Composite NOX :    1.145   1.415   1.490   1.435   5.498  1.789   1.930  20.790    1.41   3.500
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5051  0.2716  0.0947        0.0360  0.0009  0.0017  0.0850  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.315   2.030   1.939   2.007   1.560  0.712   1.021   0.506    2.40   1.513
   Composite NOX :    1.111   1.364   1.441   1.384   5.041  1.455   1.575  13.647    1.26   2.420
```

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            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5211  0.2786  0.0976        0.0287  0.0009  0.0018  0.0674  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.299   2.010   1.918   1.986   1.504  0.692   0.993   0.479    2.36   1.511
   Composite NOX :    1.120   1.377   1.453   1.397   5.160  1.510   1.632  14.047    1.27   2.214
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5221  0.2786  0.0967        0.0283  0.0009  0.0018  0.0667  0.0050  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.299   2.010   1.918   1.986   1.502  0.692   0.997   0.479    2.36   1.512
   Composite NOX :    1.120   1.377   1.453   1.397   5.159  1.510   1.635  14.056    1.27   2.203
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5211  0.2816  0.0976        0.0271  0.0009  0.0018  0.0639  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.331   2.052   1.962   2.029   1.633  0.737   1.056   0.540    2.45   1.559
   Composite NOX :    1.106   1.357   1.433   1.376   4.935  1.435   1.554  13.492    1.24   2.106
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4722  0.2497  0.0868        0.0551  0.0008  0.0016  0.1299  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.244   1.909   1.813   1.885   1.343  0.637   0.925   0.406    2.66   1.361
   Composite NOX :    1.171   1.451   1.526   1.470   5.795  2.258   2.437  24.323    1.62   4.538
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5141  0.2716  0.0947        0.0340  0.0009  0.0017  0.0801  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.254   1.935   1.840   1.910   1.364  0.644   0.933   0.415    2.32   1.433
   Composite NOX :    1.154   1.428   1.503   1.447   5.608  1.921   2.074  21.787    1.49   3.070
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
```

```
         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:  0.5291  0.2786  0.0976        0.0265  0.0009  0.0018  0.0626  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.402   2.151   2.064   2.128   1.872  0.815   1.154   0.645    2.63   1.643
   Composite NOX :    1.133   1.372   1.450   1.392   4.665  1.432   1.548  13.460    1.18   2.096
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5410  0.2856  0.0996        0.0199  0.0010  0.0018  0.0470  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.377   2.115   2.027   2.092   1.790  0.789   1.122   0.610    2.57   1.628
   Composite NOX :    1.120   1.362   1.440   1.383   4.746  1.427   1.544  13.441    1.20   1.874
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
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```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5480  0.2876  0.1006        0.0173  0.0010  0.0018  0.0407  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.354   2.083   1.993   2.060   1.718  0.766   1.091   0.579    2.52   1.605
   Composite NOX :    1.108   1.354   1.432   1.374   4.819  1.422   1.538  13.386    1.22   1.777
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5311  0.2826  0.0986        0.0235  0.0009  0.0018  0.0555  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.549   2.340   2.255   2.318   2.357  0.954   1.338   0.831    2.94   1.829
   Composite NOX :    1.228   1.463   1.548   1.485   4.374  1.558   1.685  14.415    1.09   2.132
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 1, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
```

```
        Nominal Fuel RVP:   7.8 psi
         Weathered RVP:   7.5 psi
       Fuel Sulfur Content:  300. ppm

       Exhaust I/M Program:  Yes
        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:  0.4899  0.2612  0.1065        0.0374  0.0009  0.0019  0.0971  0.0051  1.0000
            ------------------
Composite Emission Factors (g/mi):
  Composite VOC :    1.585   2.334   2.233   2.305   1.712  0.760   1.023   0.576    2.50   1.759
  Composite NOX :    1.341   1.663   1.740   1.686   4.857  1.419   1.491  10.198    1.22   2.459
            ------------------
```

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*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV00N.IN (file 2, run 1).                    *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 2, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4053  0.2157  0.0750        0.0885  0.0007  0.0014  0.2085  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.351   2.097   1.902   2.047   1.382  0.637   0.925   0.406    2.80   1.365
   Composite NOX :    1.193   1.487   1.557   1.505   5.933  2.464   2.658  25.879    1.68   6.856
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 2, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4911  0.2616  0.0917        0.0444  0.0009  0.0017  0.1047  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.380   2.158   1.963   2.107   1.428  0.652   0.941   0.426    2.32   1.542
   Composite NOX :    1.161   1.441   1.512   1.459   5.553  1.789   1.930  20.790    1.41   3.519
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 2, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5051  0.2716  0.0947        0.0360  0.0009  0.0017  0.0850  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.442   2.247   2.053   2.197   1.612  0.712   1.021   0.506    2.40   1.648
   Composite NOX :    1.126   1.391   1.462   1.409   5.091  1.455   1.575  13.647    1.26   2.438
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 2, 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 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

         Calendar Year:  2000
             Month:  July
            Altitude:  Low
       Minimum Temperature:  66.0 (F)
       Maximum Temperature:  89.0 (F)
       Absolute Humidity:   75. grains/lb
        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:  0.5211  0.2786  0.0976        0.0287  0.0009  0.0018  0.0674  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.424   2.224   2.029   2.173   1.552  0.692   0.993   0.479    2.36   1.648
   Composite NOX :    1.135   1.403   1.474   1.422   5.212  1.510   1.632  14.047    1.27   2.232
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 2, 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 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

         Calendar Year:  2000
             Month:  July
                    Altitude:  Low
             Minimum Temperature:  66.0 (F)
             Maximum Temperature:  89.0 (F)
               Absolute Humidity:   75. grains/lb
                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:    0.5221    0.2786    0.0967              0.0283    0.0009    0.0018    0.0667
0.0050    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.424     2.224     2.029     2.173     1.550    0.692     0.997     0.479
2.36     1.649
```

```
     Composite NOX :      1.135     1.403     1.474     1.422     5.211    1.510     1.635    14.056
1.27     2.222
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 2, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 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:    0.5211    0.2816    0.0976              0.0271    0.0009    0.0018    0.0639
0.0060    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.461     2.271     2.076     2.221     1.690    0.737     1.056     0.540
2.45     1.701
     Composite NOX :      1.122     1.383     1.455     1.401     4.984    1.435     1.554    13.492
1.24     2.125
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 2, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 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:    0.4722    0.2497    0.0868              0.0551    0.0008    0.0016    0.1299
0.0039    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.355     2.108     1.913     2.058     1.382    0.637     0.925     0.406
2.66     1.474
     Composite NOX :      1.186     1.477     1.547     1.495     5.853    2.258     2.437    24.323
1.62     4.557
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 2, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

                   Calendar Year:  2000
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 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:    0.5141    0.2716    0.0947              0.0340    0.0009    0.0017    0.0801
0.0029    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.370     2.138     1.943     2.087     1.404    0.644     0.933     0.415
2.32     1.559
     Composite NOX :      1.170     1.454     1.524     1.472     5.663    1.921     2.074    21.787
1.49     3.088
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 2, 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 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

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 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:    0.5291    0.2786    0.0976              0.0265    0.0009    0.0018    0.0626
0.0029    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.544     2.385     2.190     2.334     1.949    0.815     1.154     0.645
2.63     1.797
     Composite NOX :      1.148     1.398     1.471     1.417     4.711    1.432     1.548    13.460
1.18     2.115
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 2, 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

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 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:    0.5410    0.2856    0.0996              0.0199    0.0010    0.0018    0.0470
0.0041    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.514     2.343     2.148     2.293     1.860    0.789     1.122     0.610
2.57     1.781
     Composite NOX :      1.135     1.389     1.461     1.408     4.793    1.427     1.544    13.441
1.20     1.893
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 2, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 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:    0.5480    0.2876    0.1006              0.0173    0.0010    0.0018    0.0407
0.0030    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.487     2.307     2.111     2.256     1.782    0.766     1.091     0.579
2.52     1.755
     Composite NOX :      1.123     1.381     1.453     1.399     4.867    1.422     1.538    13.386
1.22     1.796
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 2, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 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:    0.5311    0.2826    0.0986              0.0235    0.0009    0.0018    0.0555
0.0060    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.707     2.594     2.394     2.542     2.474    0.954     1.338     0.831
2.94     2.001
     Composite NOX :      1.245     1.491     1.571     1.511     4.417    1.558     1.685    14.415
1.09     2.152
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 2, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
            100% of VMT has been assigned to the freeway ramp
            roadway type for all hours of the day for all
            vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 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:    0.4899    0.2612    0.1065              0.0374    0.0009    0.0019    0.0971
0.0051    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.728     2.567     2.357     2.506     1.776    0.760     1.023     0.576
2.50     1.906
     Composite NOX :      1.358     1.692     1.763     1.713     4.905    1.419     1.491    10.198
1.22     2.479
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                                                *
* Input file: DAV04.IN (file 3, run 1).                                     *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
                 1.00     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)
  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:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 3, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
               User supplied VMT mix.
  M581 Warning:
            The user supplied freeway average speed of 62.0
            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.
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.5 psi
              Fuel Sulfur Content:  121. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      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:    0.3664    0.2447    0.0848              0.0876    0.0006    0.0015    0.2094
0.0050    1.0000
            ------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.855     1.380     1.321     1.365     1.099    0.500     0.997     0.312
2.79     0.940
     Composite NOX :      0.882     1.180     1.349     1.223     5.164    2.165     2.462    16.583
1.68     4.665
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 3, Run 1, Scenario 2.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
  M615 Comment:
               User supplied VMT mix.
  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

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  66.0 (F)
              Maximum Temperature:  89.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.5 psi
              Fuel Sulfur Content:  121. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      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:    0.4443    0.2967    0.1035              0.0439    0.0007    0.0018    0.1050
0.0041    1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.878   1.427   1.366   1.411   1.133  0.510   1.012   0.327    2.32   1.051
   Composite NOX :    0.852   1.139   1.306   1.182   4.833  1.576   1.794  12.460    1.41   2.382
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 3, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4553  0.3086  0.1074        0.0357  0.0007  0.0019  0.0854  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.924   1.494   1.430   1.478   1.257  0.554   1.087   0.389    2.39   1.128
   Composite NOX :    0.818   1.092   1.259   1.135   4.432  1.285   1.467   8.888    1.26   1.772
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 3, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4713  0.3156  0.1104        0.0283  0.0007  0.0020  0.0678  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.911   1.477   1.413   1.460   1.217  0.540   1.060   0.369    2.36   1.123
   Composite NOX :    0.827   1.104   1.271   1.147   4.536  1.333   1.519   9.226    1.27   1.641
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 3, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4713  0.3156  0.1104        0.0280  0.0007  0.0020  0.0669  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.911   1.477   1.413   1.460   1.215  0.540   1.060   0.368    2.36   1.125
   Composite NOX :    0.827   1.104   1.271   1.147   4.534  1.333   1.519   9.225    1.27   1.633
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 3, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4713  0.3186  0.1104        0.0268  0.0007  0.0020  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.938   1.513   1.447   1.496   1.307  0.572   1.120   0.415    2.45   1.163
   Composite NOX :    0.813   1.084   1.252   1.128   4.337  1.267   1.449   8.768    1.24   1.557
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 3, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4254  0.2847  0.0986        0.0545  0.0006  0.0018  0.1305  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.858   1.388   1.329   1.373   1.100  0.500   0.997   0.312    2.65   1.005
   Composite NOX :    0.876   1.171   1.340   1.214   5.095  1.985   2.259  15.325    1.62   3.127
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 3, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4643  0.3086  0.1074        0.0336  0.0007  0.0019  0.0804  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.870   1.411   1.351   1.395   1.116  0.504   1.003   0.319    2.32   1.057
   Composite NOX :    0.860   1.150   1.318   1.194   4.930  1.691   1.925  13.274    1.49   2.138
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 3, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm
```

```
        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4773  0.3176  0.1104        0.0262  0.0007  0.0020  0.0629  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.990   1.585   1.519   1.568   1.475  0.630   1.215   0.496    2.63   1.224
   Composite NOX :    0.833   1.097   1.266   1.140   4.101  1.265   1.445   8.752    1.18   1.551
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 3, 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4873  0.3256  0.1134        0.0197  0.0007  0.0020  0.0473  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.972   1.560   1.494   1.543   1.418  0.611   1.182   0.469    2.57   1.214
   Composite NOX :    0.823   1.089   1.257   1.132   4.173  1.260   1.439   8.715    1.20   1.401
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 3, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
```

```
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4943  0.3276  0.1143        0.0171  0.0007  0.0020  0.0408  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.956   1.537   1.471   1.520   1.367  0.594   1.152   0.445    2.52   1.196
   Composite NOX :    0.813   1.082   1.250   1.125   4.235  1.256   1.433   8.678    1.22   1.334
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 3, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4803  0.3206  0.1114        0.0233  0.0007  0.0020  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.095   1.719   1.653   1.702   1.813  0.732   1.386   0.639    2.94   1.360
   Composite NOX :    0.911   1.173   1.356   1.220   3.844  1.375   1.569   9.524    1.09   1.595
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 3, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
```

```
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4348  0.2982  0.1214        0.0379  0.0007  0.0021  0.1001  0.0047  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.077   1.672   1.614   1.655   1.360  0.589   1.069   0.442    2.49   1.273
   Composite NOX :    0.990   1.312   1.508   1.368   4.265  1.253   1.382   8.244    1.22   2.001
            ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV04N.IN (file 4, run 1).                    *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 4, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.3664  0.2447  0.0848        0.0876  0.0006  0.0015  0.2094  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.936   1.551   1.457   1.527   1.114  0.500   0.997   0.312    2.79   1.025
   Composite NOX :    0.932   1.263   1.437   1.307   5.199  2.165   2.462  16.583    1.68   4.714
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 4, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4443  0.2967  0.1035        0.0439  0.0007  0.0018  0.1050  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.966   1.607   1.510   1.582   1.150  0.510   1.012   0.327    2.32   1.159
   Composite NOX :    0.901   1.221   1.394   1.266   4.866  1.576   1.794  12.460    1.41   2.439
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 4, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4553  0.3086  0.1074        0.0357  0.0007  0.0019  0.0854  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.019   1.685   1.584   1.659   1.277  0.554   1.087   0.389    2.39   1.247
   Composite NOX :    0.868   1.174   1.347   1.219   4.462  1.285   1.467   8.888    1.26   1.831
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 4, 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 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

         Calendar Year:  2004
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4713  0.3156  0.1104        0.0283  0.0007  0.0020  0.0678  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.004   1.665   1.565   1.639   1.236  0.540   1.060   0.369    2.36   1.243
   Composite NOX :    0.876   1.186   1.359   1.231   4.567  1.333   1.519   9.226    1.27   1.701
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 4, 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 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

         Calendar Year:  2004
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4713  0.3156  0.1104        0.0280  0.0007  0.0020  0.0669  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.004   1.665   1.565   1.639   1.234  0.540   1.060   0.368    2.36   1.245
   Composite NOX :    0.876   1.186   1.359   1.231   4.565  1.333   1.519   9.225    1.27   1.693
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
```

```
* File 4, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4713  0.3186  0.1104        0.0268  0.0007  0.0020  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.035   1.706   1.604   1.680   1.330  0.572   1.120   0.415    2.45   1.288
   Composite NOX :    0.863   1.166   1.340   1.211   4.367  1.267   1.449   8.768    1.24   1.617
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 4, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4254  0.2847  0.0986        0.0545  0.0006  0.0018  0.1305  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.941   1.561   1.466   1.537   1.115  0.500   0.997   0.312    2.65   1.103
   Composite NOX :    0.925   1.254   1.428   1.298   5.130  1.985   2.259  15.325    1.62   3.183
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 4, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4643  0.3086  0.1074        0.0336  0.0007  0.0019  0.0804  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.955   1.589   1.492   1.564   1.132  0.504   1.003   0.319    2.32   1.167
   Composite NOX :    0.910   1.233   1.406   1.277   4.963  1.691   1.925  13.274    1.49   2.197
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 4, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4773  0.3176  0.1104        0.0262  0.0007  0.0020  0.0629  0.0029  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.096   1.791   1.688   1.764   1.505  0.630   1.215   0.496    2.63   1.359
   Composite NOX :    0.885   1.180   1.356   1.225   4.129  1.265   1.445   8.752    1.18   1.613
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 4, 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4873  0.3256  0.1134        0.0197  0.0007  0.0020  0.0473  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.074   1.761   1.658   1.734   1.446  0.611   1.182   0.469    2.57   1.349
   Composite NOX :    0.874   1.172   1.347   1.217   4.202  1.260   1.439   8.715    1.20   1.463
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 4, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4943  0.3276  0.1143        0.0171  0.0007  0.0020  0.0408  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.056   1.734   1.632   1.708   1.392  0.594   1.152   0.445    2.52   1.329
   Composite NOX :    0.864   1.164   1.339   1.209   4.264  1.256   1.433   8.678    1.22   1.396
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 4, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4803  0.3206  0.1114        0.0233  0.0007  0.0020  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.212   1.941   1.840   1.915   1.860  0.732   1.386   0.639    2.94   1.509
   Composite NOX :    0.965   1.260   1.450   1.309   3.870  1.375   1.569   9.524    1.09   1.661
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 4, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:	0.4348	0.2982	0.1214		0.0379	0.0007	0.0021	0.1001	0.0047	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.183	1.879	1.784	1.852	1.385	0.589	1.069	0.442	2.49	1.403
Composite NOX :	1.044	1.401	1.603	1.460	4.294	1.253	1.382	8.244	1.22	2.064

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV07.IN (file 5, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 5, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3356  0.2679  0.0926        0.0868  0.0004  0.0015  0.2102  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.635   1.070   1.015   1.056   0.811  0.329   0.499   0.259    2.76   0.733
   Composite NOX :    0.586   0.872   1.062   0.921   3.461  1.332   1.513  11.927    1.68   3.347
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 5, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4075  0.3249  0.1123        0.0436  0.0005  0.0018  0.1054  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.659   1.107   1.052   1.093   0.838  0.337   0.511   0.271    2.29   0.822
   Composite NOX :    0.566   0.841   1.028   0.889   3.239  0.969   1.099   8.825    1.41   1.699
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 5, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4195  0.3359  0.1163        0.0354  0.0005  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.701   1.162   1.105   1.147   0.930  0.366   0.558   0.323    2.36   0.886
   Composite NOX :    0.544   0.806   0.990   0.853   2.970  0.789   0.895   6.549    1.26   1.288
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 5, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0281  0.0005  0.0019  0.0679  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.689   1.148   1.091   1.133   0.901  0.356   0.541   0.305    2.33   0.882
   Composite NOX :    0.550   0.815   0.999   0.862   3.041  0.819   0.928   6.797    1.27   1.193
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 5, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.689   1.148   1.091   1.133   0.900  0.356   0.541   0.305    2.33   0.884
   Composite NOX :    0.550   0.815   0.999   0.862   3.038  0.819   0.928   6.796    1.27   1.188
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 5, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.713   1.177   1.119   1.162   0.968  0.379   0.577   0.344    2.42   0.915
   Composite NOX :    0.541   0.800   0.984   0.847   2.908  0.778   0.882   6.451    1.24   1.133
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 5, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3896  0.3109  0.1085        0.0541  0.0004  0.0017  0.1311  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.639   1.077   1.021   1.062   0.812  0.329   0.498   0.259    2.62   0.783
   Composite NOX :    0.582   0.866   1.055   0.915   3.414  1.221   1.385  10.978    1.62   2.243
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 5, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4255  0.3379  0.1173        0.0333  0.0005  0.0019  0.0809  0.0028  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.650   1.095   1.039   1.080   0.826  0.333   0.504   0.265    2.29   0.825
   Composite NOX :    0.572   0.850   1.037   0.898   3.304  1.039   1.179   9.435    1.49   1.532
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 5, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.757   1.234   1.176   1.219   1.089  0.418   0.638   0.411    2.60   0.965
   Composite NOX :    0.554   0.809   0.995   0.857   2.748  0.777   0.880   6.442    1.18   1.126
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 5, 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4475  0.3559  0.1232        0.0196  0.0005  0.0020  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.742   1.214   1.156   1.199   1.047  0.405   0.618   0.389    2.54   0.957
   Composite NOX :    0.547   0.803   0.988   0.851   2.796  0.774   0.877   6.416    1.20   1.018
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 5, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4525  0.3589  0.1251        0.0170  0.0005  0.0020  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.729   1.196   1.138   1.181   1.010  0.393   0.599   0.369    2.48   0.943
   Composite NOX :    0.541   0.798   0.982   0.846   2.838  0.771   0.874   6.390    1.22   0.970
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 5, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4405  0.3500  0.1222        0.0231  0.0005  0.0020  0.0559  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.840   1.340   1.281   1.324   1.335  0.487   0.746   0.530    2.90   1.075
   Composite NOX :    0.607   0.867   1.066   0.918   2.576  0.845   0.957   7.024    1.09   1.162
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 5, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
```

```
          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:  0.3939  0.3270  0.1330        0.0379  0.0004  0.0021  0.1011  0.0046  1.0000
           ------------------
Composite Emission Factors (g/mi):
  Composite VOC :    0.795   1.274   1.222   1.259   1.009  0.390   0.575   0.366    2.46   0.980
  Composite NOX :    0.645   0.947   1.159   1.008   2.858  0.770   0.857   6.199    1.22   1.460
           ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV07N.IN (file 6, run 1).                    *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 6, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3356  0.2679  0.0926        0.0868  0.0004  0.0015  0.2102  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.681   1.133   1.083   1.120   0.811  0.329   0.499   0.259    2.76   0.772
   Composite NOX :    0.649   0.967   1.163   1.017   3.461  1.332   1.513  11.927    1.68   3.403
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 6, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4075  0.3249  0.1123        0.0436  0.0005  0.0018  0.1054  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.708   1.176   1.126   1.163   0.838  0.337   0.511   0.271    2.29   0.872
   Composite NOX :    0.629   0.934   1.128   0.984   3.239  0.969   1.099   8.825    1.41   1.766
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 6, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4195  0.3359  0.1163        0.0354  0.0005  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.755   1.237   1.187   1.224   0.930  0.366   0.558   0.323    2.36   0.944
   Composite NOX :    0.607   0.898   1.090   0.948   2.970  0.789   0.895   6.549    1.26   1.357
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 6, 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 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

         Calendar Year:  2007
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0281  0.0005  0.0019  0.0679  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.742   1.221   1.171   1.208   0.901  0.356   0.541   0.305    2.33   0.939
   Composite NOX :    0.612   0.908   1.099   0.957   3.041  0.819   0.928   6.797    1.27   1.264
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 6, 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 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

         Calendar Year:  2007
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.742   1.221   1.171   1.208   0.900  0.356   0.541   0.305    2.33   0.941
   Composite NOX :    0.612   0.908   1.099   0.957   3.038  0.819   0.928   6.796    1.27   1.259
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
```

```
* File 6, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.768   1.253   1.203   1.240   0.968  0.379   0.577   0.344    2.42   0.976
   Composite NOX :    0.604   0.893   1.084   0.942   2.908  0.778   0.882   6.451    1.24   1.204
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 6, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3896  0.3109  0.1085        0.0541  0.0004  0.0017  0.1311  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.685   1.140   1.091   1.128   0.812  0.329   0.498   0.259    2.62   0.828
   Composite NOX :    0.645   0.960   1.155   1.010   3.414  1.221   1.385  10.978    1.62   2.308
```

```
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 6, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4255  0.3379  0.1173        0.0333  0.0005  0.0019  0.0809  0.0028  1.0000
           ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.698   1.161   1.112   1.149   0.826  0.333   0.504   0.265    2.29   0.876
   Composite NOX :    0.635   0.943   1.137   0.993   3.304  1.039   1.179   9.435    1.49   1.602
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 6, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.817   1.317   1.267   1.304   1.089  0.418   0.638   0.411    2.60   1.031
   Composite NOX :    0.619   0.903   1.097   0.953   2.748  0.777   0.880   6.442    1.18   1.199
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 6, 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4475  0.3559  0.1232        0.0196  0.0005  0.0020  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.800   1.295   1.244   1.282   1.047  0.405   0.618   0.389    2.54   1.023
   Composite NOX :    0.611   0.897   1.090   0.946   2.796  0.774   0.877   6.416    1.20   1.093
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 6, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4525  0.3589  0.1251        0.0170  0.0005  0.0020  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.785   1.275   1.224   1.262   1.010  0.393   0.599   0.369    2.48   1.007
   Composite NOX :    0.605   0.891   1.083   0.941   2.838  0.771   0.874   6.390    1.22   1.044
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 6, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4405  0.3500  0.1222        0.0231  0.0005  0.0020  0.0559  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.907   1.433   1.384   1.420   1.335  0.487   0.746   0.530    2.90   1.149
   Composite NOX :    0.675   0.966   1.174   1.019   2.576  0.845   0.957   7.024    1.09   1.240
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 6, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:	0.3939	0.3270	0.1330		0.0379	0.0004	0.0021	0.1011	0.0046	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.855	1.359	1.315	1.346	1.009	0.390	0.575	0.366	2.46	1.044
Composite NOX :	0.713	1.050	1.269	1.113	2.858	0.770	0.857	6.199	1.22	1.536

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV10.IN (file 7, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 7, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3067  0.2890  0.1005        0.0868  0.0003  0.0015  0.2101  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.463   0.818   0.757   0.802   0.602  0.134   0.281   0.216    2.70   0.566
   Composite NOX :    0.412   0.676   0.810   0.710   2.158  0.541   0.881   7.715    1.68   2.221
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 7, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3717  0.3510  0.1222        0.0435  0.0003  0.0018  0.1053  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.480   0.844   0.784   0.829   0.625  0.138   0.290   0.229    2.23   0.632
   Composite NOX :    0.396   0.650   0.781   0.684   2.005  0.382   0.621   5.539    1.38   1.148
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 7, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3827  0.3630  0.1261        0.0354  0.0003  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.510   0.880   0.820   0.865   0.690  0.153   0.323   0.275    2.32   0.678
   Composite NOX :    0.381   0.624   0.753   0.657   1.840  0.317   0.516   4.263    1.25   0.905
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 7, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0281  0.0004  0.0019  0.0678  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.499   0.868   0.808   0.852   0.663  0.147   0.309   0.255    2.27   0.672
   Composite NOX :    0.386   0.632   0.762   0.666   1.895  0.331   0.538   4.450    1.27   0.849
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 7, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0019  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.502   0.871   0.811   0.855   0.669  0.148   0.312   0.259    2.28   0.676
   Composite NOX :    0.384   0.630   0.760   0.664   1.881  0.327   0.532   4.393    1.27   0.841
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 7, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.513   0.884   0.824   0.868   0.698  0.155   0.327   0.281    2.34   0.693
   Composite NOX :    0.380   0.623   0.752   0.656   1.826  0.316   0.513   4.244    1.24   0.812
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 7, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.3370  0.1173        0.0540  0.0003  0.0017  0.1309  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.465   0.822   0.761   0.806   0.603  0.134   0.281   0.216    2.56   0.603
   Composite NOX :    0.409   0.671   0.804   0.705   2.129  0.496   0.807   7.098    1.62   1.518
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 7, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.473   0.833   0.773   0.818   0.612  0.136   0.284   0.221    2.23   0.632
   Composite NOX :    0.402   0.659   0.791   0.693   2.060  0.421   0.686   6.081    1.49   1.063
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 7, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3996  0.3760  0.1301        0.0260  0.0004  0.0019  0.0629  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.552   0.933   0.874   0.918   0.797  0.179   0.379   0.353    2.57   0.737
   Composite NOX :    0.392   0.632   0.764   0.666   1.701  0.316   0.514   4.250    1.17   0.810
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 7, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.541   0.919   0.860   0.904   0.769  0.172   0.365   0.333    2.50   0.731
   Composite NOX :    0.386   0.626   0.756   0.659   1.729  0.313   0.509   4.204    1.19   0.739
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 7, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4126  0.3890  0.1350        0.0170  0.0004  0.0020  0.0408  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.527   0.900   0.840   0.885   0.733  0.164   0.347   0.308    2.42   0.714
   Composite NOX :    0.379   0.619   0.749   0.653   1.769  0.311   0.506   4.179    1.22   0.704
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 7, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4016  0.3790  0.1321        0.0231  0.0004  0.0020  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.604   1.001   0.944   0.986   0.935  0.208   0.442   0.442    2.84   0.811
   Composite NOX :    0.426   0.672   0.812   0.708   1.606  0.342   0.555   4.593    1.09   0.835
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 7, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
```

```
          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:  0.3547  0.3543  0.1441        0.0382  0.0003  0.0021  0.1018  0.0045  1.0000
           ------------------
Composite Emission Factors (g/mi):
  Composite VOC :    0.569   0.950   0.895   0.934   0.735  0.163   0.340   0.306    2.40   0.738
  Composite NOX :    0.445   0.722   0.875   0.766   1.780  0.311   0.502   4.060    1.22   1.028
           ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV10N.IN (file 8, run 1).                    *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 8, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3067  0.2890  0.1005        0.0868  0.0003  0.0015  0.2101  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.522   0.903   0.842   0.887   0.602  0.134   0.281   0.216    2.70   0.617
   Composite NOX :    0.495   0.801   0.931   0.834   2.158  0.541   0.881   7.715    1.68   2.295
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 8, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3717  0.3510  0.1222        0.0435  0.0003  0.0018  0.1053  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.544   0.938   0.877   0.922   0.625  0.138   0.290   0.229    2.23   0.700
   Composite NOX :    0.478   0.773   0.901   0.806   2.005  0.382   0.621   5.539    1.38   1.236
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 8, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3827  0.3630  0.1261        0.0354  0.0003  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.580   0.982   0.922   0.967   0.690  0.153   0.323   0.275    2.32   0.755
   Composite NOX :    0.463   0.746   0.873   0.779   1.840  0.317   0.516   4.263    1.25   0.995
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 8, 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 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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0281  0.0004  0.0019  0.0678  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.567   0.967   0.907   0.951   0.663  0.147   0.309   0.255    2.27   0.748
   Composite NOX :    0.467   0.754   0.882   0.787   1.895  0.331   0.538   4.450    1.27   0.942
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 8, 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 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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0019  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.570   0.970   0.910   0.955   0.669  0.148   0.312   0.259    2.28   0.753
   Composite NOX :    0.466   0.752   0.880   0.785   1.881  0.327   0.532   4.393    1.27   0.934
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
```

```
* File 8, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.583   0.986   0.926   0.971   0.698  0.155   0.327   0.281    2.34   0.772
   Composite NOX :    0.462   0.744   0.872   0.777   1.826  0.316   0.513   4.244    1.24   0.906
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 8, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.3370  0.1173        0.0540  0.0003  0.0017  0.1309  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.525   0.908   0.847   0.893   0.603  0.134   0.281   0.216    2.56   0.664
   Composite NOX :    0.492   0.795   0.925   0.829   2.129  0.496   0.807   7.098    1.62   1.603
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 8, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.535   0.923   0.863   0.908   0.612  0.136   0.284   0.221    2.23   0.700
   Composite NOX :    0.484   0.782   0.911   0.816   2.060  0.421   0.686   6.081    1.49   1.155
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 8, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3996  0.3760  0.1301        0.0260  0.0004  0.0019  0.0629  0.0031  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.629   1.046   0.988   1.031   0.797  0.179   0.379   0.353    2.57   0.825
   Composite NOX :    0.476   0.756   0.887   0.790   1.701  0.316   0.514   4.250    1.17   0.906
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 8, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.616   1.029   0.971   1.014   0.769  0.172   0.365   0.333    2.50   0.819
   Composite NOX :    0.469   0.749   0.878   0.782   1.729  0.313   0.509   4.204    1.19   0.837
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 8, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4126  0.3890  0.1350        0.0170  0.0004  0.0020  0.0408  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.599   1.006   0.947   0.991   0.733  0.164   0.347   0.308    2.42   0.800
   Composite NOX :    0.462   0.742   0.869   0.775   1.769  0.311   0.506   4.179    1.22   0.802
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 8, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4016  0.3790  0.1321        0.0231  0.0004  0.0020  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.689   1.126   1.070   1.112   0.935  0.208   0.442   0.442    2.84   0.909
   Composite NOX :    0.515   0.802   0.940   0.838   1.606  0.342   0.555   4.593    1.09   0.937
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 8, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:	0.3547	0.3543	0.1441		0.0382	0.0003	0.0021	0.1018	0.0045	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.647	1.064	1.011	1.049	0.735	0.163	0.340	0.306	2.40	0.823
Composite NOX :	0.534	0.859	1.009	0.903	1.780	0.311	0.502	4.060	1.22	1.127

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV12.IN (file 9, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 9, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2907  0.3010  0.1045        0.0869  0.0003  0.0015  0.2101  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.368   0.692   0.637   0.678   0.529  0.087   0.216   0.194    2.70   0.482
   Composite NOX :    0.321   0.581   0.695   0.610   1.623  0.332   0.655   5.463    1.68   1.639
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 9, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3527  0.3650  0.1271        0.0436  0.0003  0.0019  0.1052  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.380   0.710   0.657   0.696   0.547  0.089   0.223   0.206    2.23   0.532
   Composite NOX :    0.309   0.560   0.671   0.589   1.508  0.234   0.461   3.933    1.38   0.885
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 9, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3627  0.3780  0.1311        0.0354  0.0003  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.402   0.736   0.684   0.723   0.600  0.100   0.249   0.247    2.32   0.568
   Composite NOX :    0.296   0.538   0.648   0.567   1.384  0.194   0.383   3.033    1.25   0.712
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 9, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0281  0.0003  0.0020  0.0678  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.394   0.727   0.674   0.713   0.578  0.095   0.238   0.229    2.27   0.562
   Composite NOX :    0.300   0.545   0.656   0.574   1.426  0.203   0.399   3.164    1.27   0.673
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 9, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.396   0.729   0.677   0.715   0.583  0.096   0.240   0.233    2.28   0.566
   Composite NOX :    0.299   0.543   0.654   0.572   1.415  0.200   0.395   3.123    1.27   0.667
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 9, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.404   0.738   0.686   0.725   0.607  0.101   0.252   0.253    2.34   0.579
   Composite NOX :    0.295   0.537   0.647   0.565   1.374  0.193   0.381   3.019    1.24   0.647
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 9, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3377  0.3501  0.1212        0.0541  0.0003  0.0018  0.1308  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.370   0.694   0.640   0.680   0.529  0.087   0.216   0.194    2.56   0.510
   Composite NOX :    0.319   0.577   0.690   0.606   1.601  0.304   0.600   5.029    1.62   1.145
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 9, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3677  0.3810  0.1321        0.0334  0.0003  0.0019  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.375   0.702   0.649   0.688   0.537  0.088   0.218   0.199    2.23   0.532
   Composite NOX :    0.313   0.567   0.679   0.596   1.549  0.258   0.509   4.312    1.49   0.826
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 9, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.435   0.775   0.725   0.762   0.687  0.118   0.293   0.317    2.57   0.612
   Composite NOX :    0.305   0.545   0.658   0.574   1.279  0.194   0.381   3.017    1.17   0.646
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 9, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3867  0.4010  0.1390        0.0196  0.0003  0.0020  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.426   0.765   0.714   0.752   0.664  0.113   0.282   0.300    2.50   0.608
   Composite NOX :    0.300   0.540   0.651   0.568   1.301  0.192   0.378   2.992    1.19   0.596
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 9, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3907  0.4050  0.1409        0.0170  0.0003  0.0021  0.0408  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.415   0.751   0.699   0.737   0.636  0.107   0.268   0.277    2.42   0.595
   Composite NOX :    0.295   0.535   0.645   0.563   1.331  0.191   0.376   2.972    1.22   0.571
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 9, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.475   0.828   0.781   0.816   0.797  0.138   0.344   0.397    2.84   0.673
   Composite NOX :    0.332   0.577   0.697   0.608   1.208  0.209   0.412   3.263    1.09   0.668
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 9, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3340  0.3687  0.1500        0.0383  0.0003  0.0022  0.1021  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.446   0.788   0.742   0.775   0.637  0.106   0.265   0.275    2.40   0.615
   Composite NOX :    0.343   0.616   0.753   0.656   1.338  0.190   0.375   2.856    1.22   0.804
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV12N.IN (file 10, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 10, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2907  0.3010  0.1045        0.0869  0.0003  0.0015  0.2101  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.431   0.786   0.730   0.771   0.529  0.087   0.216   0.194    2.70   0.539
   Composite NOX :    0.411   0.719   0.828   0.747   1.623  0.332   0.655   5.463    1.68   1.721
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 10, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3527  0.3650  0.1271        0.0436  0.0003  0.0019  0.1052  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.448   0.812   0.758   0.798   0.547  0.089   0.223   0.206    2.23   0.606
   Composite NOX :    0.398   0.696   0.803   0.723   1.508  0.234   0.461   3.933    1.38   0.983
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 10, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3627  0.3780  0.1311        0.0354  0.0003  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.477   0.847   0.795   0.834   0.600  0.100   0.249   0.247    2.32   0.652
   Composite NOX :    0.385   0.673   0.779   0.700   1.384  0.194   0.383   3.033    1.25   0.812
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 10, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0281  0.0003  0.0020  0.0678  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.466   0.835   0.782   0.822   0.578  0.095   0.238   0.229    2.27   0.646
   Composite NOX :    0.389   0.680   0.787   0.708   1.426  0.203   0.399   3.164    1.27   0.776
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 10, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.469   0.838   0.785   0.824   0.583  0.096   0.240   0.233    2.28   0.651
   Composite NOX :    0.388   0.678   0.785   0.706   1.415  0.200   0.395   3.123    1.27   0.771
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 10, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.480   0.850   0.798   0.837   0.607  0.101   0.252   0.253    2.34   0.666
   Composite NOX :    0.384   0.672   0.778   0.699   1.374  0.193   0.381   3.019    1.24   0.751
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 10, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3377  0.3501  0.1212        0.0541  0.0003  0.0018  0.1308  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.434   0.790   0.735   0.776   0.529  0.087   0.216   0.194    2.56   0.577
   Composite NOX :    0.409   0.715   0.823   0.743   1.601  0.304   0.600   5.029    1.62   1.240
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 10, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3677  0.3810  0.1321        0.0334  0.0003  0.0019  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.441   0.801   0.747   0.787   0.537  0.088   0.218   0.199    2.23   0.607
   Composite NOX :    0.402   0.704   0.811   0.731   1.549  0.258   0.509   4.312    1.49   0.928
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 10, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.517   0.898   0.849   0.885   0.687  0.118   0.293   0.317    2.57   0.708
   Composite NOX :    0.396   0.682   0.791   0.710   1.279  0.194   0.381   3.017    1.17   0.752
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 10, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3867  0.4010  0.1390        0.0196  0.0003  0.0020  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.507   0.885   0.835   0.872   0.664  0.113   0.282   0.300    2.50   0.704
   Composite NOX :    0.390   0.675   0.784   0.703   1.301  0.192   0.378   2.992    1.19   0.704
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 10, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3907  0.4050  0.1409        0.0170  0.0003  0.0021  0.0408  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.493   0.866   0.815   0.853   0.636  0.107   0.268   0.277    2.42   0.689
   Composite NOX :    0.384   0.669   0.776   0.697   1.331  0.191   0.376   2.972    1.22   0.679
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 10, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.566   0.964   0.918   0.952   0.797  0.138   0.344   0.397    2.84   0.780
   Composite NOX :    0.429   0.721   0.838   0.751   1.208  0.209   0.412   3.263    1.09   0.780
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
```

```
* File 10, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3340  0.3687  0.1500        0.0383  0.0003  0.0022  0.1021  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.530   0.914   0.869   0.901   0.637  0.106   0.265   0.275    2.40   0.708
   Composite NOX :    0.441   0.769   0.901   0.807   1.338  0.190   0.375   2.856    1.22   0.915
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV15.IN (file 11, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 11, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2728  0.3140  0.1094        0.0867  0.0002  0.0016  0.2104  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.288   0.566   0.528   0.556   0.432  0.071   0.180   0.175    2.70   0.402
   Composite NOX :    0.226   0.436   0.539   0.463   1.065  0.197   0.484   3.237    1.68   1.040
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 11, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3317  0.3810  0.1320        0.0435  0.0003  0.0020  0.1055  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.296   0.578   0.542   0.569   0.448  0.073   0.186   0.185    2.23   0.438
   Composite NOX :    0.217   0.419   0.520   0.445   0.989  0.139   0.341   2.316    1.38   0.594
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 11, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3407  0.3940  0.1370        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.314   0.596   0.563   0.588   0.491  0.081   0.206   0.223    2.32   0.467
   Composite NOX :    0.208   0.403   0.501   0.428   0.908  0.116   0.284   1.796    1.25   0.491
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 11, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.307   0.590   0.555   0.581   0.473  0.078   0.197   0.207    2.27   0.462
   Composite NOX :    0.210   0.408   0.507   0.434   0.935  0.120   0.296   1.874    1.27   0.470
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 11, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0277  0.0003  0.0021  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.308   0.591   0.557   0.583   0.477  0.078   0.199   0.210    2.28   0.466
   Composite NOX :    0.210   0.407   0.506   0.432   0.928  0.119   0.292   1.850    1.27   0.467
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 11, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.315   0.598   0.565   0.590   0.496  0.082   0.209   0.228    2.34   0.477
   Composite NOX :    0.207   0.402   0.500   0.427   0.901  0.115   0.282   1.788    1.24   0.454
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 11, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3157  0.3660  0.1271        0.0540  0.0003  0.0019  0.1310  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.289   0.567   0.530   0.558   0.433  0.071   0.180   0.175    2.56   0.423
   Composite NOX :    0.224   0.433   0.535   0.459   1.050  0.180   0.443   2.975    1.62   0.751
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 11, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3447  0.3980  0.1380        0.0332  0.0003  0.0020  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.292   0.573   0.536   0.563   0.440  0.071   0.182   0.179    2.23   0.438
   Composite NOX :    0.220   0.425   0.526   0.451   1.016  0.153   0.377   2.547    1.49   0.563
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 11, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.4090  0.1419        0.0260  0.0003  0.0021  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.340   0.626   0.596   0.619   0.562  0.095   0.242   0.286    2.57   0.502
   Composite NOX :    0.214   0.407   0.508   0.433   0.840  0.115   0.283   1.789    1.17   0.454
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 11, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.333   0.618   0.587   0.610   0.543  0.091   0.233   0.270    2.50   0.499
   Composite NOX :    0.211   0.403   0.503   0.429   0.853  0.114   0.280   1.771    1.19   0.425
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 11, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3657  0.4240  0.1468        0.0169  0.0003  0.0022  0.0408  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.324   0.607   0.575   0.599   0.520  0.087   0.221   0.250    2.42   0.488
   Composite NOX :    0.207   0.400   0.498   0.425   0.873  0.113   0.278   1.760    1.22   0.409
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 11, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3577  0.4120  0.1429        0.0231  0.0003  0.0021  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.373   0.668   0.642   0.662   0.650  0.111   0.282   0.358    2.84   0.553
   Composite NOX :    0.233   0.431   0.539   0.459   0.793  0.124   0.305   1.935    1.09   0.472
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 11, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3100  0.3852  0.1567        0.0384  0.0003  0.0023  0.1028  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.344   0.633   0.607   0.625   0.522  0.086   0.219   0.248    2.40   0.502
   Composite NOX :    0.236   0.454   0.583   0.491   0.877  0.113   0.278   1.714    1.22   0.555
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DAV15N.IN (file 12, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 12, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 62.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2728  0.3140  0.1094        0.0867  0.0002  0.0016  0.2104  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.351   0.663   0.623   0.653   0.432  0.071   0.180   0.175    2.70   0.460
   Composite NOX :    0.320   0.584   0.681   0.609   1.065  0.197   0.484   3.237    1.68   1.128
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 12, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3317  0.3810  0.1320        0.0435  0.0003  0.0020  0.1055  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.364   0.683   0.646   0.673   0.448  0.073   0.186   0.185    2.23   0.515
   Composite NOX :    0.309   0.565   0.660   0.589   0.989  0.139   0.341   2.316    1.38   0.698
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 12, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3407  0.3940  0.1370        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.388   0.710   0.676   0.701   0.491  0.081   0.206   0.223    2.32   0.553
   Composite NOX :    0.299   0.546   0.640   0.570   0.908  0.116   0.284   1.796    1.25   0.598
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 12, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.379   0.701   0.665   0.692   0.473  0.078   0.197   0.207    2.27   0.548
   Composite NOX :    0.302   0.552   0.646   0.576   0.935  0.120   0.296   1.874    1.27   0.580
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 12, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0277  0.0003  0.0021  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.381   0.703   0.668   0.694   0.477  0.078   0.199   0.210    2.28   0.552
   Composite NOX :    0.302   0.550   0.645   0.575   0.928  0.119   0.292   1.850    1.27   0.577
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 12, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.390   0.713   0.679   0.704   0.496  0.082   0.209   0.228    2.34   0.566
   Composite NOX :    0.299   0.545   0.639   0.569   0.901  0.115   0.282   1.788    1.24   0.564
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 12, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3157  0.3660  0.1271        0.0540  0.0003  0.0019  0.1310  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.353   0.666   0.626   0.656   0.433  0.071   0.180   0.175    2.56   0.492
   Composite NOX :    0.318   0.580   0.677   0.605   1.050  0.180   0.443   2.975    1.62   0.853
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 12, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3447  0.3980  0.1380        0.0332  0.0003  0.0020  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.359   0.675   0.636   0.665   0.440  0.071   0.182   0.179    2.23   0.516
   Composite NOX :    0.313   0.571   0.667   0.596   1.016  0.153   0.377   2.547    1.49   0.672
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 12, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.4090  0.1419        0.0260  0.0003  0.0021  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.421   0.751   0.721   0.744   0.562  0.095   0.242   0.286    2.57   0.600
   Composite NOX :    0.309   0.553   0.650   0.578   0.840  0.115   0.283   1.789    1.17   0.567
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 12, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.413   0.740   0.709   0.732   0.543  0.091   0.233   0.270    2.50   0.597
   Composite NOX :    0.304   0.548   0.643   0.572   0.853  0.114   0.280   1.771    1.19   0.539
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 12, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3657  0.4240  0.1468        0.0169  0.0003  0.0022  0.0408  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.401   0.726   0.693   0.717   0.520  0.087   0.221   0.250    2.42   0.583
   Composite NOX :    0.299   0.543   0.637   0.567   0.873  0.113   0.278   1.760    1.22   0.524
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 12, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3577  0.4120  0.1429        0.0231  0.0003  0.0021  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.463   0.806   0.780   0.800   0.650  0.111   0.282   0.358    2.84   0.662
   Composite NOX :    0.334   0.585   0.688   0.611   0.793  0.124   0.305   1.935    1.09   0.593
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
```

```
* File 12, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3100  0.3852  0.1567        0.0384  0.0003  0.0023  0.1028  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.427   0.761   0.736   0.754   0.522  0.086   0.219   0.248    2.40   0.598
   Composite NOX :    0.339   0.619   0.742   0.655   0.877  0.113   0.278   1.714    1.22   0.676
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                          *
* Input file: DAVI00A.IN (file 1, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: NC00.PRN

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 64.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4051  0.2156  0.0750        0.0916  0.0009  0.0014  0.2054  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.549   2.282   2.612   2.367   2.005  0.696   1.022   0.499    2.98   1.619
   Composite NOX :    1.323   1.570   1.799   1.629   6.405  2.793   3.040  28.612    1.74   7.488
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4909  0.2615  0.0918        0.0460  0.0011  0.0017  0.1031  0.0039  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.574   2.329   2.676   2.419   2.021  0.700   1.024   0.506    2.51   1.785
   Composite NOX :    1.300   1.537   1.766   1.597   6.123  2.168   2.361  23.770    1.55   3.947
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* 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 50.0
      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

         Calendar Year:  2000
             Month:  July
            Altitude:  Low
       Minimum Temperature:  66.0 (F)
       Maximum Temperature:  89.0 (F)
       Absolute Humidity:   75. grains/lb
        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:  0.5049  0.2715  0.0947        0.0373  0.0011  0.0018  0.0837  0.0050  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.609   2.386   2.751   2.480   2.101  0.718   1.050   0.533    2.37   1.858
   Composite NOX :    1.277   1.506   1.734   1.565   5.834  1.779   1.943  16.314    1.36   2.813
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* 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 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

         Calendar Year:  2000
             Month:  July
            Altitude:  Low
       Minimum Temperature:  66.0 (F)
       Maximum Temperature:  89.0 (F)
       Absolute Humidity:   75. grains/lb
        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:  0.5209  0.2785  0.0977        0.0297  0.0011  0.0018  0.0664  0.0039  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.633   2.420   2.795   2.517   2.181  0.736   1.072   0.561    2.39   1.912
   Composite NOX :    1.267   1.489   1.719   1.549   5.677  1.657   1.808  15.347    1.30   2.441
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5219  0.2785  0.0967        0.0293  0.0011  0.0018  0.0657  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.653   2.446   2.828   2.544   2.253  0.754   1.100   0.589    2.41   1.937
   Composite NOX :    1.259   1.477   1.708   1.537   5.556  1.588   1.738  14.826    1.28   2.382
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
```

```
        Absolute Humidity:   75. grains/lb
         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:  0.5209  0.2815  0.0977        0.0281  0.0011  0.0018  0.0629  0.0060  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.647   2.437   2.817   2.535   2.229  0.748   1.091   0.579    2.40   1.935
   Composite NOX :    1.262   1.481   1.711   1.541   5.595  1.606   1.757  14.966    1.28   2.353
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4720  0.2496  0.0868        0.0571  0.0010  0.0016  0.1279  0.0039  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.583   2.344   2.696   2.435   2.034  0.703   1.032   0.510    2.37   1.759
   Composite NOX :    1.293   1.528   1.756   1.587   6.037  2.019   2.204  22.612    1.49   4.392
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2000
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5139  0.2715  0.0947        0.0352  0.0011  0.0018  0.0789  0.0029  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.587   2.352   2.706   2.443   2.048  0.706   1.034   0.515    2.37   1.833
   Composite NOX :    1.290   1.524   1.752   1.583   6.001  1.975   2.154  22.273    1.47   3.222
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5289  0.2785  0.0977        0.0275  0.0011  0.0018  0.0616  0.0029  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.647   2.437   2.817   2.536   2.230  0.748   1.087   0.579    2.40   1.932
   Composite NOX :    1.262   1.481   1.711   1.541   5.596  1.606   1.753  14.955    1.28   2.331
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5408  0.2855  0.0997        0.0206  0.0012  0.0019  0.0463  0.0041  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.653   2.446   2.828   2.545   2.255  0.754   1.098   0.590    2.41   1.961
   Composite NOX :    1.259   1.477   1.708   1.537   5.555  1.588   1.736  14.843    1.28   2.085
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* 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 36.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5478  0.2875  0.1007        0.0179  0.0012  0.0019  0.0401  0.0030  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.707   2.512   2.912   2.616   2.502  0.812   1.172   0.678    2.52   2.033
   Composite NOX :    1.245   1.454   1.686   1.514   5.270  1.502   1.641  14.150    1.24   1.940
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5309  0.2825  0.0987        0.0244  0.0011  0.0019  0.0546  0.0060  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.699   2.502   2.899   2.604   2.462  0.803   1.160   0.663    2.50   2.009
   Composite NOX :    1.247   1.457   1.689   1.517   5.315  1.510   1.651  14.211    1.25   2.158
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 1, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5014  0.2657  0.1018        0.0362  0.0011  0.0019  0.0866  0.0053  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.973   2.806   3.203   2.916   2.594  0.827   1.154   0.707    2.55   2.233
   Composite NOX :    1.488   1.770   1.992   1.831   5.232  1.493   1.604  10.989    1.23   2.571
  ---------------------------------------------------------------------------------------------------
```

```
*****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                          *
* Input file: C:\MOBILE6\RUN\DAVI04A.IN (file 1, run 1).          *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: NC00.PRN

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 64.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.3664  0.2447  0.0848        0.0896  0.0006  0.0015  0.2074  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.093   1.686   1.954   1.755   1.576  0.563   1.066   0.350    2.98   1.209
   Composite NOX :    1.039   1.339   1.573   1.399   5.675  2.572   2.770  19.254    1.74   5.358
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4442  0.2966  0.1035        0.0449  0.0008  0.0019  0.1040  0.0041  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.115   1.726   2.004   1.798   1.593  0.566   1.068   0.355    2.51   1.336
   Composite NOX :    1.017   1.309   1.542   1.369   5.424  2.001   2.156  15.366    1.55   2.853
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* 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 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

         Calendar Year:  2004
             Month:  July
            Altitude:  Low
       Minimum Temperature:  66.0 (F)
       Maximum Temperature:  89.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
         Weathered RVP:   7.5 psi
       Fuel Sulfur Content:  121. 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:  0.4552  0.3086  0.1075        0.0365  0.0008  0.0019  0.0846  0.0049  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.167   1.805   2.099   1.881   1.708  0.594   1.113   0.394    2.38   1.424
   Composite NOX :    0.985   1.264   1.497   1.324   5.029  1.533   1.657  10.472    1.30   2.079
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* 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 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

         Calendar Year:  2004
             Month:  July
            Altitude:  Low
       Minimum Temperature:  66.0 (F)
       Maximum Temperature:  89.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
         Weathered RVP:   7.5 psi
       Fuel Sulfur Content:  121. 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:  0.4712  0.3156  0.1104        0.0290  0.0008  0.0020  0.0671  0.0039  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.189   1.834   2.133   1.911   1.778  0.613   1.141   0.421    2.42   1.467
   Composite NOX :    0.974   1.249   1.482   1.309   4.888  1.453   1.571   9.936    1.27   1.835
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4712  0.3156  0.1104        0.0286  0.0008  0.0020  0.0663  0.0051  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.189   1.834   2.133   1.911   1.775  0.613   1.141   0.421    2.42   1.468
   Composite NOX :    0.974   1.249   1.482   1.309   4.885  1.453   1.571   9.936    1.27   1.826
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* 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 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

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
```

```
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4712  0.3186  0.1104        0.0274  0.0008  0.0020  0.0636  0.0060  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.178   1.819   2.116   1.896   1.740  0.603   1.129   0.407    2.40   1.459
   Composite NOX :    0.979   1.256   1.490   1.316   4.957  1.486   1.609  10.160    1.28   1.820
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* 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 64.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4253  0.2846  0.0986        0.0558  0.0007  0.0018  0.1292  0.0040  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.093   1.686   1.954   1.755   1.576  0.563   1.066   0.350    2.98   1.285
   Composite NOX :    1.039   1.339   1.573   1.399   5.675  2.572   2.770  19.254    1.74   3.797
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2004
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4642  0.3086  0.1075        0.0344  0.0008  0.0019  0.0796  0.0030  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.115   1.726   2.004   1.798   1.594  0.566   1.069   0.355    2.51   1.359
   Composite NOX :    1.017   1.309   1.542   1.369   5.426  2.001   2.157  15.376    1.55   2.463
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3176  0.1104        0.0268  0.0008  0.0020  0.0623  0.0029  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.167   1.805   2.099   1.881   1.709  0.594   1.114   0.394    2.38   1.442
   Composite NOX :    0.985   1.264   1.497   1.324   5.031  1.533   1.658  10.478    1.30   1.832
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4871  0.3256  0.1134        0.0202  0.0009  0.0020  0.0468  0.0040  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.195   1.841   2.143   1.919   1.798  0.618   1.152   0.429    2.43   1.494
   Composite NOX :    0.971   1.245   1.478   1.305   4.850  1.436   1.554   9.816    1.27   1.613
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4941  0.3276  0.1144        0.0175  0.0009  0.0020  0.0404  0.0031  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.220   1.873   2.180   1.953   1.894  0.644   1.192   0.465    2.50   1.529
   Composite NOX :    0.964   1.233   1.467   1.294   4.706  1.398   1.513   9.551    1.25   1.524
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* 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 36.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4802  0.3206  0.1114        0.0238  0.0008  0.0020  0.0552  0.0060  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.227   1.882   2.191   1.962   1.924  0.652   1.206   0.476    2.52   1.527
   Composite NOX :    0.962   1.230   1.465   1.291   4.670  1.391   1.507   9.515    1.24   1.667
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 1, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4459  0.3039  0.1162        0.0363  0.0008  0.0020  0.0900  0.0050  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.382   2.057   2.391   2.150   1.981  0.663   1.177   0.495    2.54   1.651
   Composite NOX :    1.158   1.479   1.742   1.552   4.632  1.382   1.467   8.810    1.23   2.139
  ---------------------------------------------------------------------------------------------------
```

```
*****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                          *
* Input file: DAVI07A.IN (file 2, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: NC00.PRN

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 2, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 64.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3356  0.2679  0.0926        0.0879  0.0004  0.0015  0.2091  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.806   1.257   1.458   1.309   1.164  0.386   0.577   0.293    2.95   0.922
   Composite NOX :    0.746   1.053   1.300   1.116   4.089  1.654   1.807  14.466    1.74   4.049
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 2, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4075  0.3249  0.1123        0.0441  0.0005  0.0018  0.1049  0.0040  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.827   1.288   1.498   1.342   1.179  0.388   0.580   0.297    2.48   1.018
   Composite NOX :    0.730   1.029   1.274   1.092   3.908  1.286   1.404  11.440    1.55   2.157
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 2, 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 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

         Calendar Year:  2007
             Month:  July
            Altitude:  Low
       Minimum Temperature:  66.0 (F)
       Maximum Temperature:  89.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
         Weathered RVP:   7.5 psi
       Fuel Sulfur Content:   33. 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:  0.4195  0.3359  0.1163        0.0358  0.0005  0.0019  0.0852  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.873   1.350   1.574   1.408   1.263  0.408   0.610   0.330    2.35   1.089
   Composite NOX :    0.707   0.994   1.236   1.056   3.623  0.984   1.074   8.013    1.30   1.595
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 2, 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 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

         Calendar Year:  2007
             Month:  July
            Altitude:  Low
       Minimum Temperature:  66.0 (F)
       Maximum Temperature:  89.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
         Weathered RVP:   7.5 psi
       Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0284  0.0005  0.0019  0.0676  0.0040  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.892   1.373   1.601   1.432   1.315  0.421   0.629   0.352    2.39   1.124
   Composite NOX :    0.700   0.982   1.223   1.044   3.522  0.933   1.018   7.588    1.27   1.409
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 2, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0281  0.0005  0.0019  0.0668  0.0051  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.892   1.373   1.601   1.432   1.312  0.421   0.629   0.352    2.39   1.126
   Composite NOX :    0.700   0.982   1.223   1.044   3.519  0.933   1.018   7.587    1.27   1.403
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 2, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
```

```
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4335  0.3469  0.1202        0.0270  0.0005  0.0019  0.0641  0.0059  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.882   1.362   1.588   1.420   1.288  0.414   0.619   0.340    2.36   1.118
   Composite NOX :    0.704   0.987   1.229   1.050   3.572  0.954   1.041   7.761    1.28   1.399
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 2, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 64.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3895  0.3109  0.1085        0.0548  0.0005  0.0017  0.1304  0.0037  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.806   1.257   1.458   1.309   1.164  0.386   0.576   0.293    2.95   0.977
   Composite NOX :    0.746   1.053   1.300   1.117   4.089  1.654   1.806  14.464    1.74   2.879
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 2, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2007
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4255  0.3379  0.1173        0.0337  0.0005  0.0019  0.0805  0.0028  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.827   1.288   1.498   1.342   1.180  0.388   0.580   0.297    2.48   1.035
   Composite NOX :    0.730   1.029   1.274   1.092   3.910  1.286   1.404  11.443    1.55   1.868
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 2, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4385  0.3469  0.1202        0.0264  0.0005  0.0019  0.0626  0.0030  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.873   1.350   1.574   1.408   1.264  0.408   0.610   0.330    2.35   1.103
   Composite NOX :    0.707   0.994   1.235   1.056   3.624  0.984   1.074   8.012    1.30   1.407
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 2, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4475  0.3559  0.1232        0.0198  0.0005  0.0020  0.0472  0.0040  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.897   1.379   1.609   1.438   1.328  0.425   0.636   0.358    2.40   1.145
   Composite NOX :    0.698   0.978   1.220   1.041   3.494  0.922   1.006   7.498    1.27   1.241
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 2, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4525  0.3589  0.1251        0.0172  0.0005  0.0020  0.0407  0.0031  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.918   1.405   1.639   1.465   1.395  0.443   0.663   0.389    2.47   1.174
   Composite NOX :    0.693   0.969   1.211   1.032   3.389  0.898   0.979   7.294    1.25   1.174
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 2, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
```

```
      The user supplied arterial average speed of 36.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4405  0.3500  0.1222        0.0233  0.0005  0.0019  0.0557  0.0059  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.924   1.412   1.647   1.473   1.418  0.448   0.671   0.398    2.49   1.174
   Composite NOX :    0.692   0.967   1.209   1.030   3.365  0.893   0.973   7.263    1.24   1.283
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 2, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4044  0.3337  0.1274        0.0358  0.0005  0.0020  0.0914  0.0048  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.017   1.519   1.777   1.591   1.461  0.456   0.672   0.414    2.51   1.249
   Composite NOX :    0.816   1.139   1.416   1.216   3.339  0.888   0.959   6.861    1.23   1.645
  ---------------------------------------------------------------------------------------------------
```

```
*****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                          *
* Input file: DAVI10A.IN (file 3, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: NC00.PRN

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 3, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3067  0.2890  0.1005        0.0877  0.0003  0.0015  0.2092  0.0051  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.634   1.029   1.177   1.067   0.892  0.158   0.351   0.245    2.60   0.754
   Composite NOX :    0.572   0.882   1.098   0.938   2.758  0.587   0.970   8.617    1.63   2.595
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 3, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3717  0.3510  0.1222        0.0440  0.0003  0.0018  0.1048  0.0042  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.652   1.055   1.210   1.095   0.915  0.161   0.358   0.255    2.27   0.838
   Composite NOX :    0.561   0.864   1.078   0.919   2.634  0.476   0.788   7.103    1.44   1.511
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 3, 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 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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
       Minimum Temperature:  66.0 (F)
       Maximum Temperature:  89.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
         Weathered RVP:   7.5 psi
       Fuel Sulfur Content:   30. 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:  0.3827  0.3630  0.1262        0.0357  0.0003  0.0018  0.0853  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.685   1.098   1.264   1.141   0.980  0.172   0.384   0.289    2.31   0.892
   Composite NOX :    0.546   0.839   1.051   0.894   2.456  0.392   0.648   5.374    1.28   1.200
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 3, 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 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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
       Minimum Temperature:  66.0 (F)
       Maximum Temperature:  89.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
         Weathered RVP:   7.5 psi
       Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0284  0.0004  0.0019  0.0675  0.0041  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.705   1.120   1.292   1.165   1.027  0.182   0.406   0.319    2.38   0.925
   Composite NOX :    0.540   0.828   1.041   0.883   2.366  0.374   0.618   5.133    1.25   1.078
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 3, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0281  0.0004  0.0019  0.0669  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.693   1.106   1.275   1.150   0.996  0.176   0.392   0.300    2.33   0.912
   Composite NOX :    0.543   0.834   1.046   0.889   2.418  0.383   0.632   5.244    1.27   1.088
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 3, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
```

```
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3956  0.3750  0.1301        0.0269  0.0004  0.0019  0.0642  0.0059  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.682   1.093   1.259   1.136   0.971  0.171   0.381   0.284    2.30   0.902
   Composite NOX :    0.547   0.841   1.054   0.896   2.473  0.396   0.655   5.435    1.28   1.093
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 3, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.3370  0.1173        0.0546  0.0003  0.0017  0.1303  0.0041  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.634   1.029   1.177   1.067   0.891  0.158   0.351   0.245    2.60   0.802
   Composite NOX :    0.572   0.882   1.098   0.938   2.758  0.587   0.970   8.622    1.63   1.912
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 3, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2010
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3876  0.3660  0.1272        0.0337  0.0004  0.0019  0.0804  0.0029  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.655   1.059   1.216   1.099   0.920  0.162   0.360   0.257    2.27   0.855
   Composite NOX :    0.559   0.861   1.075   0.916   2.617  0.464   0.768   6.942    1.41   1.321
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 3, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3996  0.3760  0.1301        0.0262  0.0004  0.0019  0.0627  0.0031  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.689   1.102   1.269   1.145   0.987  0.174   0.388   0.295    2.32   0.907
   Composite NOX :    0.544   0.836   1.049   0.891   2.438  0.387   0.640   5.319    1.27   1.071
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 3, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4076  0.3850  0.1341        0.0198  0.0004  0.0020  0.0473  0.0039  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.697   1.111   1.281   1.155   1.006  0.178   0.397   0.306    2.34   0.928
   Composite NOX :    0.541   0.831   1.043   0.886   2.399  0.377   0.624   5.177    1.26   0.979
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 3, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4126  0.3890  0.1350        0.0171  0.0004  0.0020  0.0407  0.0032  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.701   1.115   1.286   1.159   1.015  0.180   0.401   0.312    2.36   0.935
   Composite NOX :    0.541   0.830   1.042   0.885   2.381  0.376   0.621   5.152    1.26   0.942
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 3, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4016  0.3790  0.1321        0.0233  0.0004  0.0019  0.0557  0.0060  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.718   1.136   1.312   1.181   1.064  0.190   0.423   0.341    2.44   0.951
   Composite NOX :    0.537   0.823   1.035   0.878   2.309  0.368   0.609   5.051    1.23   1.008
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 3, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3646  0.3619  0.1382        0.0360  0.0003  0.0020  0.0923  0.0047  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.779   1.208   1.401   1.261   1.077  0.191   0.424   0.347    2.44   0.998
   Composite NOX :    0.624   0.957   1.203   1.025   2.309  0.368   0.607   4.824    1.23   1.275
  ---------------------------------------------------------------------------------------------------
```

```
*****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                          *
* Input file: DAVI12A.IN (file 4, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: NC00.PRN

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 4, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2907  0.3010  0.1045        0.0879  0.0003  0.0015  0.2091  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.525   0.894   1.039   0.931   0.817  0.100   0.282   0.216    2.60   0.661
   Composite NOX :    0.481   0.801   1.018   0.857   2.240  0.366   0.753   6.512    1.63   2.055
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 4, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3527  0.3650  0.1272        0.0441  0.0003  0.0018  0.1047  0.0042  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.539   0.913   1.066   0.953   0.836  0.103   0.288   0.225    2.27   0.729
   Composite NOX :    0.471   0.785   1.000   0.841   2.139  0.297   0.611   5.376    1.44   1.244
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 4, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3627  0.3780  0.1311        0.0358  0.0003  0.0019  0.0852  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.565   0.947   1.110   0.989   0.889  0.111   0.309   0.255    2.31   0.774
   Composite NOX :    0.458   0.764   0.977   0.819   1.995  0.244   0.502   4.077    1.28   1.009
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 4, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0284  0.0003  0.0020  0.0675  0.0041  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.580   0.964   1.134   1.008   0.927  0.117   0.327   0.281    2.38   0.800
   Composite NOX :    0.453   0.755   0.968   0.810   1.922  0.233   0.479   3.895    1.25   0.917
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 4, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0282  0.0003  0.0020  0.0668  0.0050  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.571   0.953   1.119   0.996   0.902  0.113   0.316   0.264    2.33   0.790
   Composite NOX :    0.456   0.759   0.973   0.815   1.964  0.238   0.490   3.977    1.27   0.925
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 4, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3757  0.3900  0.1350        0.0270  0.0003  0.0020  0.0641  0.0059  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.562   0.943   1.106   0.985   0.882  0.109   0.306   0.251    2.30   0.782
   Composite NOX :    0.459   0.766   0.979   0.821   2.008  0.247   0.508   4.123    1.28   0.931
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 4, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3377  0.3501  0.1212        0.0547  0.0003  0.0018  0.1302  0.0040  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.525   0.894   1.039   0.931   0.817  0.100   0.282   0.216    2.60   0.700
   Composite NOX :    0.481   0.801   1.018   0.857   2.240  0.366   0.753   6.515    1.63   1.545
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
```

```
* File 4, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3677  0.3810  0.1321        0.0337  0.0003  0.0019  0.0803  0.0030  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.541   0.917   1.071   0.956   0.840  0.103   0.289   0.226    2.27   0.743
   Composite NOX :    0.470   0.783   0.998   0.838   2.124  0.289   0.595   5.251    1.41   1.101
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 4, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3787  0.3910  0.1360        0.0263  0.0003  0.0020  0.0627  0.0030  1.0000
```

```
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.568   0.950   1.115   0.993   0.896  0.112   0.313   0.259    2.32   0.785
   Composite NOX :    0.457   0.762   0.975   0.817   1.979  0.241   0.496   4.027    1.27   0.913
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 4, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3867  0.4010  0.1390        0.0198  0.0003  0.0020  0.0472  0.0040  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.574   0.957   1.124   1.000   0.910  0.114   0.319   0.269    2.34   0.803
   Composite NOX :    0.455   0.757   0.970   0.812   1.949  0.235   0.484   3.930    1.26   0.844
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 4, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3907  0.4050  0.1410        0.0172  0.0003  0.0020  0.0406  0.0032  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.577   0.961   1.129   1.004   0.917  0.116   0.323   0.275    2.36   0.809
   Composite NOX :    0.454   0.756   0.969   0.811   1.934  0.234   0.481   3.908    1.26   0.817
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 4, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3817  0.3940  0.1370        0.0234  0.0003  0.0020  0.0557  0.0059  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.591   0.977   1.150   1.021   0.957  0.122   0.341   0.300    2.44   0.822
   Composite NOX :    0.451   0.750   0.964   0.805   1.876  0.229   0.472   3.831    1.23   0.865
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 4, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
```

```
        Nominal Fuel RVP:   7.8 psi
         Weathered RVP:   7.5 psi
       Fuel Sulfur Content:   30. 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:  0.3435  0.3768  0.1439        0.0362  0.0003  0.0021  0.0925  0.0046  1.0000
 ---------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite VOC :    0.639   1.036   1.224   1.088   0.967  0.123   0.344   0.305    2.44   0.861
  Composite NOX :    0.520   0.865   1.116   0.934   1.874  0.229   0.471   3.628    1.23   1.075
 ---------------------------------------------------------------------------------------------
```

```
*****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                          *
* Input file: DAVI15A.IN (file 5, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: NC00.PRN

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 5, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2728  0.3140  0.1094        0.0873  0.0002  0.0016  0.2098  0.0049  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.424   0.741   0.900   0.782   0.668  0.083   0.249   0.189    2.60   0.558
   Composite NOX :    0.377   0.654   0.867   0.709   1.519  0.223   0.589   4.172    1.63   1.420
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 5, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3317  0.3810  0.1321        0.0438  0.0003  0.0019  0.1052  0.0040  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.434   0.755   0.922   0.798   0.683  0.085   0.254   0.197    2.27   0.614
   Composite NOX :    0.369   0.641   0.852   0.695   1.451  0.181   0.478   3.440    1.44   0.911
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 5, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3407  0.3940  0.1370        0.0355  0.0003  0.0020  0.0855  0.0050  1.0000
  ---------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.455   0.780   0.959   0.826   0.725  0.091   0.272   0.224    2.31   0.651
   Composite NOX :    0.359   0.623   0.832   0.677   1.353  0.149   0.394   2.610    1.28   0.760
  ---------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 5, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0282  0.0003  0.0021  0.0678  0.0040  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.468   0.794   0.978   0.841   0.756  0.096   0.287   0.246    2.38   0.672
   Composite NOX :    0.355   0.615   0.824   0.669   1.303  0.142   0.376   2.492    1.25   0.702
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 5, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0279  0.0003  0.0021  0.0670  0.0051  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.460   0.786   0.966   0.832   0.736  0.093   0.277   0.232    2.33   0.665
   Composite NOX :    0.357   0.619   0.828   0.673   1.332  0.145   0.384   2.546    1.27   0.708
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 5, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3527  0.4070  0.1409        0.0267  0.0003  0.0021  0.0642  0.0061  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.453   0.778   0.955   0.824   0.720  0.090   0.269   0.220    2.30   0.659
   Composite NOX :    0.360   0.625   0.834   0.678   1.362  0.151   0.398   2.639    1.28   0.713
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 5, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3157  0.3660  0.1271        0.0544  0.0003  0.0019  0.1306  0.0040  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.424   0.741   0.900   0.782   0.668  0.083   0.249   0.189    2.60   0.591
   Composite NOX :    0.377   0.654   0.867   0.709   1.519  0.223   0.589   4.175    1.63   1.104
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
```

```
* File 5, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3447  0.3980  0.1380        0.0335  0.0003  0.0020  0.0806  0.0029  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.436   0.758   0.926   0.801   0.687  0.085   0.255   0.199    2.27   0.626
   Composite NOX :    0.368   0.639   0.850   0.693   1.442  0.176   0.466   3.364    1.41   0.823
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 5, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.4090  0.1419        0.0261  0.0003  0.0021  0.0630  0.0029  1.0000
```

```
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.457   0.783   0.962   0.829   0.731  0.092   0.274   0.227    2.32   0.660
   Composite NOX :    0.358   0.621   0.830   0.675   1.343  0.147   0.389   2.581    1.27   0.701
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 5, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3617  0.4190  0.1459        0.0196  0.0003  0.0021  0.0474  0.0040  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.463   0.789   0.970   0.835   0.742  0.094   0.280   0.236    2.34   0.675
   Composite NOX :    0.356   0.618   0.826   0.671   1.322  0.144   0.379   2.515    1.26   0.659
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 5, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3657  0.4240  0.1468        0.0170  0.0003  0.0022  0.0407  0.0033  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.465   0.791   0.974   0.838   0.748  0.095   0.283   0.241    2.36   0.680
   Composite NOX :    0.356   0.617   0.825   0.670   1.312  0.143   0.378   2.501    1.26   0.642
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 5, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3577  0.4120  0.1429        0.0232  0.0003  0.0021  0.0559  0.0059  1.0000
  ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.476   0.803   0.991   0.852   0.780  0.100   0.298   0.263    2.44   0.691
   Composite NOX :    0.353   0.612   0.820   0.665   1.272  0.140   0.370   2.452    1.23   0.670
  ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 5, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
```

```
        Nominal Fuel RVP:   7.8 psi
         Weathered RVP:   7.5 psi
       Fuel Sulfur Content:   30. 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:  0.3190  0.3940  0.1504        0.0361  0.0003  0.0022  0.0934  0.0046  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite VOC :    0.511   0.849   1.053   0.905   0.789  0.101   0.300   0.268    2.44   0.721
  Composite NOX :    0.402   0.700   0.949   0.769   1.270  0.140   0.370   2.334    1.23   0.817
 ---------------------------------------------------------------------------------------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)            *
* Input file: DURAM00.IN (file 19, run 1).        *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
     1.00   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)
  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:
     1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
     1.00   MYR sum not = 1. (will normalize)
* IDLE Annual I/M program no exemption

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 19, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
    there are no sales for vehicle class HDGV8b

      Calendar Year:  2000
        Month:  July
       Altitude:  Low
    Minimum Temperature:  66.0 (F)
    Maximum Temperature:  91.0 (F)
    Absolute Humidity:   75. grains/lb
     Nominal Fuel RVP:   7.8 psi
      Weathered RVP:   7.5 psi
    Fuel Sulfur Content:  300. ppm

    Exhaust I/M Program:  Yes
     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:  0.4054  0.2158  0.0749    0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
      ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :  1.133   1.637   1.485   1.598   1.228  0.578   0.756   0.393  2.43   1.127
   Composite NOX :  1.071   1.323   1.372   1.336   5.563  1.891   1.949  22.182  1.49   5.965
      ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 19, 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 55.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5052  0.2717  0.0947        0.0357  0.0008  0.0016  0.0853  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.135   1.640   1.489   1.601   1.232  0.579   0.757   0.395    2.36   1.251
   Composite NOX :    1.068   1.318   1.368   1.331   5.523  1.822   1.877  16.994    1.46   2.685
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 19, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.141   1.654   1.500   1.614   1.254  0.587   0.765   0.405    2.36   1.276
   Composite NOX :    1.059   1.305   1.355   1.318   5.418  1.697   1.747  15.997    1.39   2.295
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 19, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.162   1.688   1.531   1.647   1.326  0.612   0.800   0.441    2.37   1.306
   Composite NOX :    1.038   1.275   1.326   1.288   5.152  1.463   1.509  14.179    1.26   2.129
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 19, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.166   1.693   1.535   1.652   1.342  0.617   0.807   0.449    2.38   1.315
   Composite NOX :    1.035   1.271   1.322   1.284   5.119  1.448   1.493  14.064    1.25   2.078
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 19, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4723  0.2498  0.0868        0.0546  0.0007  0.0015  0.1304  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.141   1.654   1.500   1.614   1.253  0.587   0.767   0.405    2.36   1.214
   Composite NOX :    1.059   1.305   1.355   1.318   5.416  1.697   1.749  20.665    1.39   3.943
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 19, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5142  0.2717  0.0947        0.0336  0.0008  0.0016  0.0805  0.0029  1.0000
            ------------------
```

```
 Composite Emission Factors (g/mi):
   Composite VOC :    1.155   1.677   1.521   1.637   1.303  0.603   0.788   0.429    2.37   1.281
   Composite NOX :    1.044   1.284   1.334   1.297   5.232  1.523   1.570  19.313    1.29   2.749
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 19, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5292  0.2787  0.0976        0.0263  0.0008  0.0017  0.0628  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.188   1.719   1.559   1.678   1.429  0.648   0.843   0.492    2.45   1.337
   Composite NOX :    1.023   1.252   1.303   1.265   4.934  1.374   1.414  13.474    1.23   2.000
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 19, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5412  0.2857  0.0996        0.0197  0.0008  0.0017  0.0472  0.0041  1.0000
           ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.218   1.756   1.592   1.714   1.548  0.691   0.898   0.552    2.55   1.388
   Composite NOX :    1.021   1.244   1.296   1.257   4.747  1.348   1.389  13.295    1.20   1.766
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 19, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5482  0.2877  0.1006        0.0171  0.0008  0.0017  0.0409  0.0030  1.0000
           ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.193   1.725   1.564   1.683   1.447  0.656   0.853   0.502    2.46   1.362
   Composite NOX :    1.021   1.249   1.301   1.262   4.898  1.367   1.408  13.428    1.22   1.690
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 19, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5312  0.2827  0.0986        0.0233  0.0008  0.0017  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.218   1.756   1.592   1.714   1.549  0.691   0.898   0.551    2.55   1.385
   Composite NOX :    1.021   1.244   1.296   1.257   4.749  1.348   1.389  13.277    1.20   1.882
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 19, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.450   2.004   1.827   1.953   1.541  0.685   0.841   0.548    2.53   1.560
   Composite NOX :    1.249   1.550   1.605   1.566   4.783  1.345   1.349  10.050    1.20   2.347
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM00N.IN (file 20, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 20, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4054  0.2158  0.0749        0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.223   1.780   1.558   1.723   1.262  0.578   0.756   0.393    2.43   1.203
   Composite NOX :    1.085   1.345   1.386   1.355   5.620  1.891   1.949  22.182    1.49   5.981
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 20, 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 55.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5052  0.2717  0.0947        0.0357  0.0008  0.0016  0.0853  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.225   1.784   1.562   1.727   1.266  0.579   0.757   0.395    2.36   1.344
   Composite NOX :    1.081   1.340   1.381   1.351   5.580  1.822   1.877  16.994    1.46   2.702
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 20, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.233   1.800   1.575   1.741   1.289  0.587   0.765   0.405    2.36   1.373
   Composite NOX :    1.072   1.327   1.369   1.338   5.473  1.697   1.747  15.997    1.39   2.311
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 20, 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 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

         Calendar Year:  2000
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.260   1.839   1.610   1.780   1.364  0.612   0.800   0.441    2.37   1.407
   Composite NOX :    1.052   1.297   1.339   1.308   5.205  1.463   1.509  14.179    1.26   2.145
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 20, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

         Calendar Year:  2000
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.264   1.844   1.614   1.785   1.381  0.617   0.807   0.449    2.38   1.418
   Composite NOX :    1.049   1.293   1.335   1.304   5.171  1.448   1.493  14.064    1.25   2.094
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 20, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4723  0.2498  0.0868        0.0546  0.0007  0.0015  0.1304  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.233   1.800   1.575   1.742   1.288  0.587   0.767   0.405    2.36   1.303
   Composite NOX :    1.072   1.327   1.369   1.338   5.472  1.697   1.749  20.665    1.39   3.959
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 20, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5142  0.2717  0.0947        0.0336  0.0008  0.0016  0.0805  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.251   1.827   1.599   1.768   1.340  0.603   0.788   0.429    2.37   1.379
   Composite NOX :    1.058   1.306   1.348   1.317   5.286  1.523   1.570  19.313    1.29   2.765
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 20, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5292  0.2787  0.0976        0.0263  0.0008  0.0017  0.0628  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.289   1.875   1.641   1.814   1.474  0.648   0.843   0.492    2.45   1.444
   Composite NOX :    1.037   1.274   1.317   1.285   4.984  1.374   1.414  13.474    1.23   2.016
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 20, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5412  0.2857  0.0996        0.0197  0.0008  0.0017  0.0472  0.0041  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.323   1.916   1.677   1.854   1.602  0.691   0.898   0.552    2.55   1.501
   Composite NOX :    1.035   1.266   1.310   1.277   4.796  1.348   1.389  13.295    1.20   1.782
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 20, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5482  0.2877  0.1006        0.0171  0.0008  0.0017  0.0409  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.295   1.881   1.646   1.820   1.494  0.656   0.853   0.502    2.46   1.472
   Composite NOX :    1.035   1.271   1.314   1.282   4.948  1.367   1.408  13.428    1.22   1.706
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 20, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5312  0.2827  0.0986        0.0233  0.0008  0.0017  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.323   1.916   1.677   1.854   1.603  0.691   0.898   0.551    2.55   1.496
   Composite NOX :    1.035   1.266   1.310   1.277   4.798  1.348   1.389  13.277    1.20   1.898
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 20, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.563   2.172   1.917   2.098   1.595  0.685   0.841   0.548    2.53   1.671
   Composite NOX :    1.264   1.574   1.620   1.587   4.832  1.345   1.349  10.050    1.20   2.364
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP00.IN (file 23, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)
* IDLE Annual I/M program no exemption

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 23, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4054  0.2158  0.0749        0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.133   1.637   1.485   1.598   1.228  0.578   0.756   0.393    2.43   1.127
   Composite NOX :    1.071   1.323   1.372   1.336   5.563  1.891   1.949  22.182    1.49   5.965
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 23, 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 55.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5052  0.2717  0.0947        0.0357  0.0008  0.0016  0.0853  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.135   1.640   1.489   1.601   1.232  0.579   0.757   0.395    2.36   1.251
   Composite NOX :    1.068   1.318   1.368   1.331   5.523  1.822   1.877  16.994    1.46   2.685
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 23, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.141   1.654   1.500   1.614   1.254  0.587   0.765   0.405    2.36   1.276
   Composite NOX :    1.059   1.305   1.355   1.318   5.418  1.697   1.747  15.997    1.39   2.295
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 23, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.159   1.683   1.526   1.642   1.313  0.608   0.795   0.435    2.37   1.301
   Composite NOX :    1.041   1.280   1.330   1.293   5.193  1.494   1.540  14.420    1.27   2.150
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 23, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.162   1.688   1.531   1.647   1.327  0.612   0.800   0.441    2.37   1.311
   Composite NOX :    1.038   1.275   1.326   1.288   5.153  1.463   1.509  14.182    1.26   2.089
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 23, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 61.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4723  0.2498  0.0868        0.0546  0.0007  0.0015  0.1304  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.128   1.619   1.470   1.581   1.214  0.573   0.750   0.387    2.76   1.194
   Composite NOX :    1.088   1.346   1.395   1.359   5.749  2.242   2.310  24.928    1.63   4.546
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 23, 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5142  0.2717  0.0947        0.0336  0.0008  0.0016  0.0805  0.0029  1.0000
            ------------------
```

```
 Composite Emission Factors (g/mi):
   Composite VOC :    1.139   1.649   1.496   1.610   1.247  0.584   0.763   0.402    2.36   1.258
   Composite NOX :    1.062   1.310   1.359   1.323   5.455  1.740   1.793  21.009    1.41   2.913
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 23, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5292  0.2787  0.0976        0.0263  0.0008  0.0017  0.0628  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.170   1.698   1.539   1.656   1.358  0.623   0.811   0.456    2.39   1.316
   Composite NOX :    1.033   1.267   1.318   1.280   5.084  1.432   1.474  13.930    1.25   2.044
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 23, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5412  0.2857  0.0996        0.0197  0.0008  0.0017  0.0472  0.0041  1.0000
           ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.198   1.731   1.569   1.689   1.471  0.664   0.864   0.514    2.48   1.364
   Composite NOX :    1.019   1.246   1.298   1.259   4.860  1.360   1.402  13.393    1.22   1.773
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 23, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5482  0.2877  0.1006        0.0171  0.0008  0.0017  0.0409  0.0030  1.0000
           ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.198   1.731   1.569   1.689   1.470  0.664   0.863   0.514    2.48   1.368
   Composite NOX :    1.019   1.246   1.298   1.260   4.861  1.360   1.401  13.375    1.22   1.685
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 23, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5312  0.2827  0.0986        0.0233  0.0008  0.0017  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.218   1.756   1.592   1.714   1.549  0.691   0.898   0.551    2.55   1.385
   Composite NOX :    1.021   1.244   1.296   1.257   4.749  1.348   1.389  13.277    1.20   1.882
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 23, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.450   2.004   1.827   1.953   1.541  0.685   0.841   0.548    2.53   1.560
   Composite NOX :    1.249   1.550   1.605   1.566   4.783  1.345   1.349  10.050    1.20   2.347
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP00N.IN (file 24, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 24, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4054  0.2158  0.0749        0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.223   1.780   1.558   1.723   1.262  0.578   0.756   0.393    2.43   1.203
   Composite NOX :    1.085   1.345   1.386   1.355   5.620  1.891   1.949  22.182    1.49   5.981
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 24, 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 55.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5052  0.2717  0.0947        0.0357  0.0008  0.0016  0.0853  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.225   1.784   1.562   1.727   1.266  0.579   0.757   0.395    2.36   1.344
   Composite NOX :    1.081   1.340   1.381   1.351   5.580  1.822   1.877  16.994    1.46   2.702
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 24, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.233   1.800   1.575   1.741   1.289  0.587   0.765   0.405    2.36   1.373
   Composite NOX :    1.072   1.327   1.369   1.338   5.473  1.697   1.747  15.997    1.39   2.311
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 24, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.255   1.833   1.604   1.774   1.351  0.608   0.795   0.435    2.37   1.402
   Composite NOX :    1.055   1.301   1.344   1.312   5.246  1.494   1.540  14.420    1.27   2.166
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 24, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.260   1.839   1.610   1.780   1.365  0.612   0.800   0.441    2.37   1.413
   Composite NOX :    1.052   1.297   1.339   1.308   5.205  1.463   1.509  14.182    1.26   2.105
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 24, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 61.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4723  0.2498  0.0868        0.0546  0.0007  0.0015  0.1304  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.214   1.759   1.540   1.702   1.247  0.573   0.750   0.387    2.76   1.277
   Composite NOX :    1.101   1.368   1.409   1.378   5.808  2.242   2.310  24.928    1.63   4.563
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 24, 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5142  0.2717  0.0947        0.0336  0.0008  0.0016  0.0805  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.231   1.794   1.571   1.737   1.281  0.584   0.763   0.402    2.36   1.353
   Composite NOX :    1.076   1.332   1.373   1.342   5.510  1.740   1.793  21.009    1.41   2.929
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 24, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5292  0.2787  0.0976        0.0263  0.0008  0.0017  0.0628  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.269   1.850   1.619   1.790   1.398  0.623   0.811   0.456    2.39   1.419
   Composite NOX :    1.047   1.289   1.332   1.300   5.136  1.432   1.474  13.930    1.25   2.060
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 24, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5412  0.2857  0.0996        0.0197  0.0008  0.0017  0.0472  0.0041  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.300   1.888   1.652   1.827   1.519  0.664   0.864   0.514    2.48   1.474
   Composite NOX :    1.033   1.268   1.311   1.279   4.910  1.360   1.402  13.393    1.22   1.789
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 24, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5482  0.2877  0.1006        0.0171  0.0008  0.0017  0.0409  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.300   1.888   1.652   1.827   1.518  0.664   0.863   0.514    2.48   1.479
   Composite NOX :    1.033   1.268   1.311   1.279   4.910  1.360   1.401  13.375    1.22   1.701
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 24, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5312  0.2827  0.0986        0.0233  0.0008  0.0017  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.323   1.916   1.677   1.854   1.603  0.691   0.898   0.551    2.55   1.496
   Composite NOX :    1.035   1.266   1.310   1.277   4.798  1.348   1.389  13.277    1.20   1.898
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 24, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.563   2.172   1.917   2.098   1.595  0.685   0.841   0.548    2.53   1.671
   Composite NOX :    1.264   1.574   1.620   1.587   4.832  1.345   1.349  10.050    1.20   2.364
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM00.IN (file 21, run 1).                 *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)
* IDLE Annual I/M program no exemption

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 21, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4054  0.2158  0.0749        0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.133   1.637   1.485   1.598   1.228  0.578   0.756   0.393    2.43   1.127
   Composite NOX :    1.071   1.323   1.372   1.336   5.563  1.891   1.949  22.182    1.49   5.965
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 21, 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 54.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5052  0.2717  0.0947        0.0357  0.0008  0.0016  0.0853  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.137   1.645   1.492   1.605   1.239  0.582   0.760   0.399    2.36   1.254
   Composite NOX :    1.065   1.314   1.364   1.327   5.489  1.782   1.836  16.679    1.44   2.654
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 21, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.141   1.654   1.500   1.614   1.254  0.587   0.765   0.405    2.36   1.276
   Composite NOX :    1.059   1.305   1.355   1.318   5.418  1.697   1.747  15.997    1.39   2.295
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 21, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.159   1.683   1.526   1.642   1.313  0.608   0.795   0.435    2.37   1.301
   Composite NOX :    1.041   1.280   1.330   1.293   5.193  1.494   1.540  14.420    1.27   2.150
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 21, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.162   1.688   1.531   1.647   1.327  0.612   0.800   0.441    2.37   1.311
   Composite NOX :    1.038   1.275   1.326   1.288   5.153  1.463   1.509  14.182    1.26   2.089
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 21, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4723  0.2498  0.0868        0.0546  0.0007  0.0015  0.1304  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.135   1.640   1.489   1.601   1.232  0.579   0.758   0.395    2.36   1.205
   Composite NOX :    1.068   1.318   1.368   1.331   5.523  1.822   1.878  21.645    1.46   4.086
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 21, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5142  0.2717  0.0947        0.0336  0.0008  0.0016  0.0805  0.0029  1.0000
            ------------------
```

```
 Composite Emission Factors (g/mi):
   Composite VOC :    1.145   1.663   1.508   1.623   1.270  0.592   0.773   0.413    2.36   1.268
   Composite NOX :    1.052   1.296   1.346   1.309   5.339  1.605   1.653  19.951    1.33   2.813
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 21, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5292  0.2787  0.0976        0.0263  0.0008  0.0017  0.0628  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.188   1.719   1.559   1.678   1.429  0.648   0.843   0.492    2.45   1.337
   Composite NOX :    1.023   1.252   1.303   1.265   4.934  1.374   1.414  13.474    1.23   2.000
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 21, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5412  0.2857  0.0996        0.0197  0.0008  0.0017  0.0472  0.0041  1.0000
           ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.218   1.756   1.592   1.714   1.548  0.691   0.898   0.552    2.55   1.388
   Composite NOX :    1.021   1.244   1.296   1.257   4.747  1.348   1.389  13.295    1.20   1.766
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 21, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5482  0.2877  0.1006        0.0171  0.0008  0.0017  0.0409  0.0030  1.0000
           ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.193   1.725   1.564   1.683   1.447  0.656   0.853   0.502    2.46   1.362
   Composite NOX :    1.021   1.249   1.301   1.262   4.898  1.367   1.408  13.428    1.22   1.690
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 21, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5312  0.2827  0.0986        0.0233  0.0008  0.0017  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.218   1.756   1.592   1.714   1.549  0.691   0.898   0.551    2.55   1.385
   Composite NOX :    1.021   1.244   1.296   1.257   4.749  1.348   1.389  13.277    1.20   1.882
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 21, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.450   2.004   1.827   1.953   1.541  0.685   0.841   0.548    2.53   1.560
   Composite NOX :    1.249   1.550   1.605   1.566   4.783  1.345   1.349  10.050    1.20   2.347
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM00N.IN (file 22, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   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 interstate
* File 22, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4054  0.2158  0.0749        0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.223   1.780   1.558   1.723   1.262  0.578   0.756   0.393    2.43   1.203
   Composite NOX :    1.085   1.345   1.386   1.355   5.620  1.891   1.949  22.182    1.49   5.981
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 22, 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 54.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5052  0.2717  0.0947        0.0357  0.0008  0.0016  0.0853  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.228   1.789   1.567   1.732   1.273  0.582   0.760   0.399    2.36   1.348
   Composite NOX :    1.078   1.336   1.377   1.347   5.545  1.782   1.836  16.679    1.44   2.670
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 22, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.233   1.800   1.575   1.741   1.289  0.587   0.765   0.405    2.36   1.373
   Composite NOX :    1.072   1.327   1.369   1.338   5.473  1.697   1.747  15.997    1.39   2.311
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 22, 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 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

         Calendar Year:  2000
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.255   1.833   1.604   1.774   1.351  0.608   0.795   0.435    2.37   1.402
   Composite NOX :    1.055   1.301   1.344   1.312   5.246  1.494   1.540  14.420    1.27   2.166
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 22, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

         Calendar Year:  2000
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.260   1.839   1.610   1.780   1.365  0.612   0.800   0.441    2.37   1.413
   Composite NOX :    1.052   1.297   1.339   1.308   5.205  1.463   1.509  14.182    1.26   2.105
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 22, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4723  0.2498  0.0868        0.0546  0.0007  0.0015  0.1304  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.225   1.784   1.562   1.727   1.265  0.579   0.758   0.395    2.36   1.291
   Composite NOX :    1.081   1.340   1.381   1.351   5.580  1.822   1.878  21.645    1.46   4.102
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 22, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5142  0.2717  0.0947        0.0336  0.0008  0.0016  0.0805  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.239   1.811   1.585   1.752   1.305  0.592   0.773   0.413    2.36   1.365
   Composite NOX :    1.066   1.318   1.359   1.329   5.393  1.605   1.653  19.951    1.33   2.829
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 22, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5292  0.2787  0.0976        0.0263  0.0008  0.0017  0.0628  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.289   1.875   1.641   1.814   1.474  0.648   0.843   0.492    2.45   1.444
   Composite NOX :    1.037   1.274   1.317   1.285   4.984  1.374   1.414  13.474    1.23   2.016
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 22, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5412  0.2857  0.0996        0.0197  0.0008  0.0017  0.0472  0.0041  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.323   1.916   1.677   1.854   1.602  0.691   0.898   0.552    2.55   1.501
   Composite NOX :    1.035   1.266   1.310   1.277   4.796  1.348   1.389  13.295    1.20   1.782
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 22, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5482  0.2877  0.1006        0.0171  0.0008  0.0017  0.0409  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.295   1.881   1.646   1.820   1.494  0.656   0.853   0.502    2.46   1.472
   Composite NOX :    1.035   1.271   1.314   1.282   4.948  1.367   1.408  13.428    1.22   1.706
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 22, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5312  0.2827  0.0986        0.0233  0.0008  0.0017  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.323   1.916   1.677   1.854   1.603  0.691   0.898   0.551    2.55   1.496
   Composite NOX :    1.035   1.266   1.310   1.277   4.798  1.348   1.389  13.277    1.20   1.898
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 22, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.563   2.172   1.917   2.098   1.595  0.685   0.841   0.548    2.53   1.671
   Composite NOX :    1.264   1.574   1.620   1.587   4.832  1.345   1.349  10.050    1.20   2.364
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM04.IN (file 25, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 25, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3665  0.2448  0.0847        0.0870  0.0005  0.0014  0.2100  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.769   1.154   1.099   1.140   1.038  0.437   0.782   0.314    2.35   0.827
   Composite NOX :    0.789   1.041   1.215   1.086   4.793  1.438   1.620  12.589    1.41   3.718
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 25, 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 54.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4554  0.3088  0.1074        0.0355  0.0006  0.0018  0.0856  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.767   1.150   1.096   1.136   1.033  0.435   0.777   0.312    2.35   0.898
   Composite NOX :    0.792   1.045   1.219   1.090   4.824  1.472   1.657  11.331    1.44   1.967
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 25, 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 50.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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  0.3158  0.1104        0.0281  0.0006  0.0019  0.0680  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.777   1.167   1.110   1.152   1.056  0.442   0.787   0.323    2.35   0.920
   Composite NOX :    0.780   1.029   1.202   1.074   4.692  1.327   1.493  10.214    1.33   1.660
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 25, 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 47.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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  0.3158  0.1104        0.0278  0.0006  0.0019  0.0671  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.786   1.180   1.120   1.165   1.079  0.450   0.801   0.336    2.36   0.933
   Composite NOX :    0.772   1.018   1.191   1.063   4.596  1.260   1.418   9.697    1.29   1.605
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 25, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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  0.3188  0.1104        0.0266  0.0006  0.0019  0.0644  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.807   1.208   1.143   1.191   1.143  0.472   0.840   0.370    2.41   0.962
   Composite NOX :    0.756   0.995   1.168   1.039   4.400  1.158   1.305   8.907    1.24   1.503
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 25, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4254  0.2848  0.0985        0.0541  0.0006  0.0017  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.774   1.163   1.106   1.148   1.049  0.440   0.788   0.320    2.35   0.879
   Composite NOX :    0.783   1.033   1.207   1.078   4.726  1.366   1.539  12.030    1.36   2.585
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 25, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4644  0.3088  0.1074        0.0334  0.0006  0.0018  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.786   1.180   1.120   1.165   1.080  0.450   0.802   0.336    2.36   0.922
   Composite NOX :    0.772   1.018   1.191   1.063   4.598  1.260   1.419  11.223    1.29   1.866
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 25, 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 36.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4774  0.3178  0.1104        0.0260  0.0006  0.0019  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.827   1.234   1.164   1.216   1.219  0.499   0.882   0.411    2.50   0.982
   Composite NOX :    0.746   0.980   1.154   1.025   4.239  1.121   1.263   8.627    1.21   1.456
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 25, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4874  0.3257  0.1133        0.0196  0.0006  0.0019  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.845   1.257   1.185   1.238   1.279  0.519   0.915   0.442    2.57   1.014
   Composite NOX :    0.752   0.984   1.158   1.029   4.143  1.119   1.260   8.603    1.19   1.315
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 25, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4943  0.3277  0.1143        0.0170  0.0007  0.0019  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.827   1.234   1.164   1.216   1.217  0.499   0.881   0.411    2.50   0.994
   Composite NOX :    0.746   0.980   1.154   1.025   4.237  1.121   1.262   8.615    1.21   1.253
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 25, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4804  0.3208  0.1114        0.0231  0.0006  0.0019  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.845   1.257   1.185   1.238   1.278  0.519   0.916   0.442    2.57   1.013
   Composite NOX :    0.752   0.984   1.159   1.029   4.142  1.119   1.260   8.608    1.19   1.393
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 25, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4260  0.3052  0.1256        0.0370  0.0006  0.0021  0.0990  0.0046  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.955   1.373   1.308   1.354   1.249  0.508   0.837   0.428    2.52   1.092
   Composite NOX :    0.916   1.197   1.401   1.257   4.200  1.115   1.216   8.121    1.20   1.900
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM04N.IN (file 26, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 26, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.3665  0.2448  0.0847        0.0870  0.0005  0.0014  0.2100  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.844   1.289   1.211   1.269   1.051  0.437   0.782   0.314    2.35   0.898
   Composite NOX :    0.837   1.120   1.302   1.167   4.827  1.438   1.620  12.589    1.41   3.765
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 26, 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 54.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4554  0.3088  0.1074        0.0355  0.0006  0.0018  0.0856  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.841   1.285   1.207   1.265   1.045  0.435   0.777   0.312    2.35   0.986
   Composite NOX :    0.840   1.124   1.306   1.171   4.859  1.472   1.657  11.331    1.44   2.023
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 26, 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 50.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3158  0.1104        0.0281  0.0006  0.0019  0.0680  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.853   1.305   1.224   1.284   1.069  0.442   0.787   0.323    2.35   1.012
   Composite NOX :    0.828   1.107   1.289   1.154   4.726  1.327   1.493  10.214    1.33   1.718
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 26, 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 47.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3158  0.1104        0.0278  0.0006  0.0019  0.0671  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.864   1.321   1.237   1.299   1.092  0.450   0.801   0.336    2.36   1.028
   Composite NOX :    0.820   1.096   1.278   1.143   4.629  1.260   1.418   9.697    1.29   1.663
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 26, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3188  0.1104        0.0266  0.0006  0.0019  0.0644  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.888   1.353   1.264   1.330   1.158  0.472   0.840   0.370    2.41   1.060
   Composite NOX :    0.804   1.073   1.256   1.120   4.432  1.158   1.305   8.907    1.24   1.562
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 26, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4254  0.2848  0.0985        0.0541  0.0006  0.0017  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.850   1.300   1.220   1.279   1.062  0.440   0.788   0.320    2.35   0.962
   Composite NOX :    0.831   1.112   1.294   1.158   4.761  1.366   1.539  12.030    1.36   2.639
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 26, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4644  0.3088  0.1074        0.0334  0.0006  0.0018  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.864   1.321   1.237   1.299   1.094  0.450   0.802   0.336    2.36   1.014
   Composite NOX :    0.820   1.096   1.278   1.143   4.631  1.260   1.419  11.223    1.29   1.924
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 26, 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 36.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4774  0.3178  0.1104        0.0260  0.0006  0.0019  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.912   1.382   1.289   1.358   1.238  0.499   0.882   0.411    2.50   1.084
   Composite NOX :    0.795   1.058   1.242   1.106   4.269  1.121   1.263   8.627    1.21   1.514
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 26, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4874  0.3257  0.1133        0.0196  0.0006  0.0019  0.0474  0.0040  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.933   1.409   1.314   1.385   1.300  0.519   0.915   0.442    2.57   1.121
   Composite NOX :    0.802   1.062   1.247   1.110   4.173  1.119   1.260   8.603    1.19   1.376
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 26, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4943  0.3277  0.1143        0.0170  0.0007  0.0019  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.912   1.382   1.289   1.358   1.236  0.499   0.881   0.411    2.50   1.099
   Composite NOX :    0.795   1.058   1.242   1.106   4.267  1.121   1.262   8.615    1.21   1.314
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 26, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4804  0.3208  0.1114        0.0231  0.0006  0.0019  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.933   1.409   1.314   1.385   1.299  0.519   0.916   0.442    2.57   1.119
   Composite NOX :    0.802   1.062   1.247   1.110   4.172  1.119   1.260   8.608    1.19   1.453
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 26, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4260  0.3052  0.1256        0.0370  0.0006  0.0021  0.0990  0.0046  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.046   1.532   1.444   1.506   1.269  0.508   0.837   0.428    2.52   1.197
   Composite NOX :    0.969   1.283   1.496   1.345   4.231  1.115   1.216   8.121    1.20   1.961
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP04.IN (file 29, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 29, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3665  0.2448  0.0847        0.0870  0.0005  0.0014  0.2100  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.763   1.142   1.089   1.128   1.024  0.432   0.774   0.308    2.42   0.819
   Composite NOX :    0.798   1.053   1.227   1.098   4.889  1.561   1.759  13.542    1.49   3.934
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 29, 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 54.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4554  0.3088  0.1074        0.0355  0.0006  0.0018  0.0856  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.767   1.150   1.096   1.136   1.033  0.435   0.777   0.312    2.35   0.898
   Composite NOX :    0.792   1.045   1.219   1.090   4.824  1.472   1.657  11.331    1.44   1.967
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 29, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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  0.3158  0.1104        0.0281  0.0006  0.0019  0.0680  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.772   1.158   1.102   1.144   1.044  0.438   0.781   0.317    2.35   0.913
   Composite NOX :    0.786   1.037   1.211   1.082   4.761  1.403   1.577  10.795    1.39   1.709
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 29, 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 47.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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  0.3158  0.1104        0.0278  0.0006  0.0019  0.0671  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.786   1.180   1.120   1.165   1.079  0.450   0.801   0.336    2.36   0.933
   Composite NOX :    0.772   1.018   1.191   1.063   4.596  1.260   1.418   9.697    1.29   1.605
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 29, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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  0.3188  0.1104        0.0266  0.0006  0.0019  0.0644  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.796   1.194   1.132   1.178   1.108  0.460   0.820   0.351    2.38   0.949
   Composite NOX :    0.764   1.006   1.179   1.051   4.498  1.199   1.351   9.222    1.25   1.535
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 29, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4254  0.2848  0.0985        0.0541  0.0006  0.0017  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.752   1.118   1.070   1.106   1.012  0.429   0.769   0.302    2.89   0.851
   Composite NOX :    0.819   1.082   1.257   1.127   5.119  2.005   2.257  16.965    1.68   3.289
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 29, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4644  0.3088  0.1074        0.0334  0.0006  0.0018  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.759   1.135   1.083   1.121   1.019  0.430   0.770   0.305    2.56   0.887
   Composite NOX :    0.804   1.061   1.235   1.106   4.956  1.668   1.877  14.373    1.55   2.167
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 29, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4774  0.3178  0.1104        0.0260  0.0006  0.0019  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.796   1.194   1.132   1.178   1.109  0.460   0.819   0.351    2.38   0.944
   Composite NOX :    0.764   1.006   1.179   1.051   4.500  1.199   1.350   9.224    1.25   1.520
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 29, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4874  0.3257  0.1133        0.0196  0.0006  0.0019  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.823   1.228   1.159   1.210   1.202  0.493   0.872   0.402    2.48   0.987
   Composite NOX :    0.748   0.983   1.157   1.028   4.273  1.127   1.269   8.668    1.22   1.318
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 29, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4943  0.3277  0.1143        0.0170  0.0007  0.0019  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.807   1.208   1.143   1.191   1.142  0.472   0.837   0.370    2.41   0.969
   Composite NOX :    0.756   0.995   1.168   1.040   4.399  1.158   1.303   8.897    1.24   1.279
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 29, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4804  0.3208  0.1114        0.0231  0.0006  0.0019  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.832   1.240   1.169   1.221   1.236  0.505   0.893   0.421    2.52   0.997
   Composite NOX :    0.743   0.977   1.152   1.022   4.201  1.115   1.256   8.581    1.21   1.386
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 29, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4260  0.3052  0.1256        0.0370  0.0006  0.0021  0.0990  0.0046  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.955   1.373   1.308   1.354   1.249  0.508   0.837   0.428    2.52   1.092
   Composite NOX :    0.916   1.197   1.401   1.257   4.200  1.115   1.216   8.121    1.20   1.900
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP04N.IN (file 30, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 30, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.3665  0.2448  0.0847        0.0870  0.0005  0.0014  0.2100  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.836   1.275   1.199   1.256   1.037  0.432   0.774   0.308    2.42   0.888
   Composite NOX :    0.846   1.132   1.314   1.179   4.925  1.561   1.759  13.542    1.49   3.982
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 30, 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 54.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4554  0.3088  0.1074        0.0355  0.0006  0.0018  0.0856  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.841   1.285   1.207   1.265   1.045  0.435   0.777   0.312    2.35   0.986
   Composite NOX :    0.840   1.124   1.306   1.171   4.859  1.472   1.657  11.331    1.44   2.023
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 30, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3158  0.1104        0.0281  0.0006  0.0019  0.0680  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.847   1.295   1.215   1.274   1.057  0.438   0.781   0.317    2.35   1.004
   Composite NOX :    0.834   1.116   1.298   1.163   4.795  1.403   1.577  10.795    1.39   1.767
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 30, 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 47.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3158  0.1104        0.0278  0.0006  0.0019  0.0671  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.864   1.321   1.237   1.299   1.092  0.450   0.801   0.336    2.36   1.028
   Composite NOX :    0.820   1.096   1.278   1.143   4.629  1.260   1.418   9.697    1.29   1.663
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 30, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3188  0.1104        0.0266  0.0006  0.0019  0.0644  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.876   1.337   1.251   1.315   1.123  0.460   0.820   0.351    2.38   1.045
   Composite NOX :    0.812   1.085   1.267   1.131   4.531  1.199   1.351   9.222    1.25   1.593
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 30, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4254  0.2848  0.0985        0.0541  0.0006  0.0017  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.821   1.247   1.175   1.228   1.024  0.429   0.769   0.302    2.89   0.928
   Composite NOX :    0.867   1.161   1.345   1.208   5.156  2.005   2.257  16.965    1.68   3.343
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 30, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4644  0.3088  0.1074        0.0334  0.0006  0.0018  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.831   1.266   1.192   1.247   1.031  0.430   0.770   0.305    2.56   0.973
   Composite NOX :    0.852   1.140   1.323   1.187   4.992  1.668   1.877  14.373    1.55   2.225
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 30, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4774  0.3178  0.1104        0.0260  0.0006  0.0019  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.876   1.337   1.251   1.315   1.124  0.460   0.819   0.351    2.38   1.041
   Composite NOX :    0.812   1.085   1.267   1.132   4.532  1.199   1.350   9.224    1.25   1.579
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 30, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4874  0.3257  0.1133        0.0196  0.0006  0.0019  0.0474  0.0040  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.906   1.376   1.284   1.352   1.220  0.493   0.872   0.402    2.48   1.090
   Composite NOX :    0.796   1.061   1.245   1.109   4.304  1.127   1.269   8.668    1.22   1.378
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 30, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4943  0.3277  0.1143        0.0170  0.0007  0.0019  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.888   1.353   1.264   1.330   1.158  0.472   0.837   0.370    2.41   1.071
   Composite NOX :    0.804   1.073   1.255   1.120   4.431  1.158   1.303   8.897    1.24   1.339
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 30, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4804  0.3208  0.1114        0.0231  0.0006  0.0019  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.917   1.389   1.295   1.365   1.256  0.505   0.893   0.421    2.52   1.100
   Composite NOX :    0.793   1.055   1.240   1.103   4.232  1.115   1.256   8.581    1.21   1.445
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 30, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4260  0.3052  0.1256        0.0370  0.0006  0.0021  0.0990  0.0046  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.046   1.532   1.444   1.506   1.269  0.508   0.837   0.428    2.52   1.197
   Composite NOX :    0.969   1.283   1.496   1.345   4.231  1.115   1.216   8.121    1.20   1.961
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM04.IN (file 27, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 27, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3665  0.2448  0.0847        0.0870  0.0005  0.0014  0.2100  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.772   1.158   1.102   1.144   1.043  0.438   0.784   0.317    2.35   0.830
   Composite NOX :    0.786   1.037   1.211   1.082   4.760  1.403   1.580  12.315    1.39   3.655
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 27, 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 54.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4554  0.3088  0.1074        0.0355  0.0006  0.0018  0.0856  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.767   1.150   1.096   1.136   1.033  0.435   0.777   0.312    2.35   0.898
   Composite NOX :    0.792   1.045   1.219   1.090   4.824  1.472   1.657  11.331    1.44   1.967
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 27, 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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  0.3158  0.1104        0.0281  0.0006  0.0019  0.0680  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.774   1.163   1.106   1.148   1.050  0.440   0.784   0.320    2.35   0.916
   Composite NOX :    0.783   1.033   1.207   1.078   4.727  1.366   1.536  10.510    1.36   1.685
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 27, 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 47.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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  0.3158  0.1104        0.0278  0.0006  0.0019  0.0671  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.786   1.180   1.120   1.165   1.079  0.450   0.801   0.336    2.36   0.933
   Composite NOX :    0.772   1.018   1.191   1.063   4.596  1.260   1.418   9.697    1.29   1.605
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 27, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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  0.3188  0.1104        0.0266  0.0006  0.0019  0.0644  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.799   1.199   1.135   1.182   1.119  0.464   0.826   0.357    2.39   0.953
   Composite NOX :    0.761   1.003   1.176   1.047   4.467  1.186   1.336   9.122    1.25   1.525
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 27, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4254  0.2848  0.0985        0.0541  0.0006  0.0017  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.769   1.154   1.099   1.140   1.038  0.437   0.782   0.314    2.35   0.872
   Composite NOX :    0.789   1.041   1.215   1.086   4.793  1.438   1.620  12.589    1.41   2.668
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 27, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 48.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4644  0.3088  0.1074        0.0334  0.0006  0.0018  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.783   1.176   1.117   1.161   1.072  0.447   0.798   0.331    2.36   0.918
   Composite NOX :    0.775   1.022   1.195   1.066   4.631  1.284   1.445  11.402    1.30   1.885
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 27, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4774  0.3178  0.1104        0.0260  0.0006  0.0019  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.832   1.240   1.169   1.221   1.237  0.505   0.893   0.421    2.52   0.988
   Composite NOX :    0.743   0.977   1.152   1.022   4.203  1.115   1.256   8.579    1.21   1.449
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 27, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4874  0.3257  0.1133        0.0196  0.0006  0.0019  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.839   1.248   1.176   1.230   1.257  0.512   0.903   0.431    2.55   1.006
   Composite NOX :    0.748   0.980   1.155   1.025   4.173  1.117   1.258   8.589    1.20   1.311
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 27, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4943  0.3277  0.1143        0.0170  0.0007  0.0019  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.823   1.228   1.159   1.210   1.200  0.493   0.871   0.401    2.48   0.988
   Composite NOX :    0.748   0.983   1.157   1.028   4.271  1.127   1.268   8.660    1.22   1.258
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 27, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4804  0.3208  0.1114        0.0231  0.0006  0.0019  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.839   1.248   1.176   1.230   1.257  0.512   0.904   0.431    2.55   1.005
   Composite NOX :    0.748   0.980   1.155   1.025   4.172  1.117   1.258   8.594    1.20   1.389
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 27, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4260  0.3052  0.1256        0.0370  0.0006  0.0021  0.0990  0.0046  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.955   1.373   1.308   1.354   1.249  0.508   0.837   0.428    2.52   1.092
   Composite NOX :    0.916   1.197   1.401   1.257   4.200  1.115   1.216   8.121    1.20   1.900
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM04N.IN (file 28, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 28, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.3665  0.2448  0.0847        0.0870  0.0005  0.0014  0.2100  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.847   1.295   1.215   1.274   1.056  0.438   0.784   0.317    2.35   0.902
   Composite NOX :    0.834   1.116   1.298   1.163   4.795  1.403   1.580  12.315    1.39   3.702
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 28, 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 54.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4554  0.3088  0.1074        0.0355  0.0006  0.0018  0.0856  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.841   1.285   1.207   1.265   1.045  0.435   0.777   0.312    2.35   0.986
   Composite NOX :    0.840   1.124   1.306   1.171   4.859  1.472   1.657  11.331    1.44   2.023
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 28, 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3158  0.1104        0.0281  0.0006  0.0019  0.0680  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.850   1.300   1.220   1.279   1.063  0.440   0.784   0.320    2.35   1.008
   Composite NOX :    0.831   1.112   1.294   1.159   4.761  1.366   1.536  10.510    1.36   1.743
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 28, 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 47.0
      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

         Calendar Year:  2004
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3158  0.1104        0.0278  0.0006  0.0019  0.0671  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.864   1.321   1.237   1.299   1.092  0.450   0.801   0.336    2.36   1.028
   Composite NOX :    0.820   1.096   1.278   1.143   4.629  1.260   1.418   9.697    1.29   1.663
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 28, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
        User supplied VMT mix.
  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

         Calendar Year:  2004
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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  0.3188  0.1104        0.0266  0.0006  0.0019  0.0644  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.880   1.342   1.255   1.319   1.134  0.464   0.826   0.357    2.39   1.050
   Composite NOX :    0.810   1.081   1.263   1.128   4.499  1.186   1.336   9.122    1.25   1.583
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 28, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4254  0.2848  0.0985        0.0541  0.0006  0.0017  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.844   1.289   1.211   1.269   1.051  0.437   0.782   0.314    2.35   0.955
   Composite NOX :    0.837   1.120   1.302   1.167   4.827  1.438   1.620  12.589    1.41   2.721
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 28, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 48.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4644  0.3088  0.1074        0.0334  0.0006  0.0018  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.860   1.315   1.233   1.294   1.085  0.447   0.798   0.331    2.36   1.010
   Composite NOX :    0.823   1.100   1.282   1.147   4.664  1.284   1.445  11.402    1.30   1.942
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 28, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4774  0.3178  0.1104        0.0260  0.0006  0.0019  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.917   1.389   1.295   1.365   1.257  0.505   0.893   0.421    2.52   1.091
   Composite NOX :    0.793   1.055   1.240   1.103   4.233  1.115   1.256   8.579    1.21   1.508
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 28, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4874  0.3257  0.1133        0.0196  0.0006  0.0019  0.0474  0.0040  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.925   1.399   1.304   1.374   1.277  0.512   0.903   0.431    2.55   1.112
   Composite NOX :    0.797   1.059   1.243   1.106   4.204  1.117   1.258   8.589    1.20   1.372
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 28, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4943  0.3277  0.1143        0.0170  0.0007  0.0019  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.906   1.376   1.284   1.352   1.218  0.493   0.871   0.401    2.48   1.093
   Composite NOX :    0.796   1.061   1.245   1.109   4.302  1.127   1.268   8.660    1.22   1.318
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 28, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4804  0.3208  0.1114        0.0231  0.0006  0.0019  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.925   1.399   1.304   1.374   1.277  0.512   0.904   0.431    2.55   1.109
   Composite NOX :    0.797   1.059   1.243   1.106   4.203  1.117   1.258   8.594    1.20   1.449
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 28, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4260  0.3052  0.1256        0.0370  0.0006  0.0021  0.0990  0.0046  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.046   1.532   1.444   1.506   1.269  0.508   0.837   0.428    2.52   1.197
   Composite NOX :    0.969   1.283   1.496   1.345   4.231  1.115   1.216   8.121    1.20   1.961
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM07.IN (file 31, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 31, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3356  0.2679  0.0926        0.0866  0.0004  0.0015  0.2104  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.559   0.877   0.807   0.859   0.760  0.282   0.402   0.261    2.32   0.630
   Composite NOX :    0.507   0.745   0.917   0.789   3.174  0.853   0.975   8.792    1.41   2.588
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 31, 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 54.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4196  0.3359  0.1163        0.0353  0.0004  0.0018  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.557   0.874   0.805   0.856   0.755  0.281   0.400   0.259    2.32   0.682
   Composite NOX :    0.509   0.748   0.920   0.792   3.195  0.874   0.998   8.262    1.44   1.402
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 31, 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 50.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0280  0.0005  0.0019  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.566   0.888   0.816   0.869   0.773  0.286   0.407   0.268    2.32   0.699
   Composite NOX :    0.501   0.736   0.907   0.780   3.108  0.787   0.898   7.422    1.33   1.179
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 31, 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 47.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.575   0.898   0.825   0.879   0.790  0.291   0.416   0.278    2.33   0.711
   Composite NOX :    0.496   0.728   0.899   0.772   3.043  0.748   0.852   7.037    1.29   1.140
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 31, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.593   0.920   0.844   0.900   0.837  0.306   0.439   0.307    2.38   0.735
   Composite NOX :    0.486   0.712   0.881   0.755   2.915  0.687   0.783   6.448    1.24   1.066
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 31, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3896  0.3109  0.1085        0.0540  0.0004  0.0017  0.1312  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.564   0.884   0.813   0.866   0.768  0.284   0.405   0.265    2.32   0.668
   Composite NOX :    0.503   0.739   0.911   0.784   3.130  0.810   0.924   8.374    1.36   1.799
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 31, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4255  0.3379  0.1172        0.0332  0.0005  0.0018  0.0810  0.0028  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.575   0.898   0.825   0.879   0.791  0.291   0.416   0.278    2.33   0.701
   Composite NOX :    0.496   0.728   0.899   0.772   3.045  0.748   0.853   7.773    1.29   1.299
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 31, 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 36.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.611   0.941   0.861   0.920   0.892  0.323   0.467   0.341    2.47   0.751
   Composite NOX :    0.480   0.701   0.870   0.745   2.807  0.665   0.758   6.242    1.21   1.030
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 31, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4475  0.3559  0.1232        0.0195  0.0005  0.0019  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.627   0.959   0.877   0.938   0.935  0.337   0.488   0.367    2.54   0.777
   Composite NOX :    0.484   0.704   0.873   0.747   2.743  0.663   0.756   6.226    1.19   0.930
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 31, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4525  0.3589  0.1251        0.0169  0.0005  0.0020  0.0410  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.611   0.941   0.861   0.920   0.891  0.323   0.466   0.341    2.47   0.760
   Composite NOX :    0.480   0.701   0.870   0.745   2.805  0.665   0.757   6.237    1.21   0.886
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 31, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4405  0.3500  0.1222        0.0230  0.0005  0.0019  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.627   0.959   0.877   0.938   0.935  0.337   0.487   0.367    2.54   0.777
   Composite NOX :    0.484   0.704   0.873   0.748   2.743  0.663   0.755   6.229    1.19   0.987
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 31, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3851  0.3339  0.1373        0.0370  0.0004  0.0021  0.0997  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.681   1.018   0.941   0.996   0.917  0.329   0.461   0.355    2.49   0.813
   Composite NOX :    0.574   0.831   1.027   0.889   2.781  0.661   0.742   6.042    1.20   1.352
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM07N.IN (file 32, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 32, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3356  0.2679  0.0926        0.0866  0.0004  0.0015  0.2104  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.606   0.941   0.878   0.925   0.760  0.282   0.402   0.261    2.32   0.670
   Composite NOX :    0.567   0.834   1.016   0.881   3.174  0.853   0.975   8.792    1.41   2.641
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 32, 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 54.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4196  0.3359  0.1163        0.0353  0.0004  0.0018  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.603   0.937   0.875   0.921   0.755  0.281   0.400   0.259    2.32   0.731
   Composite NOX :    0.569   0.837   1.019   0.884   3.195  0.874   0.998   8.262    1.44   1.469
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 32, 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 50.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0280  0.0005  0.0019  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.614   0.954   0.889   0.937   0.773  0.286   0.407   0.268    2.32   0.752
   Composite NOX :    0.561   0.825   1.006   0.872   3.108  0.787   0.898   7.422    1.33   1.247
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 32, 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 47.0
      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

         Calendar Year:  2007
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.624   0.966   0.900   0.949   0.790  0.291   0.416   0.278    2.33   0.764
   Composite NOX :    0.556   0.817   0.997   0.864   3.043  0.748   0.852   7.037    1.29   1.208
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 32, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

         Calendar Year:  2007
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.645   0.991   0.922   0.973   0.837  0.306   0.439   0.307    2.38   0.791
   Composite NOX :    0.546   0.800   0.979   0.846   2.915  0.687   0.783   6.448    1.24   1.135
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 32, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3896  0.3109  0.1085        0.0540  0.0004  0.0017  0.1312  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.611   0.949   0.885   0.933   0.768  0.284   0.405   0.265    2.32   0.715
   Composite NOX :    0.563   0.828   1.009   0.875   3.130  0.810   0.924   8.374    1.36   1.861
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 32, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4255  0.3379  0.1172        0.0332  0.0005  0.0018  0.0810  0.0028  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.624   0.966   0.900   0.949   0.791  0.291   0.416   0.278    2.33   0.753
   Composite NOX :    0.556   0.817   0.997   0.863   3.045  0.748   0.853   7.773    1.29   1.366
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 32, 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 36.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.665   1.014   0.942   0.995   0.892  0.323   0.467   0.341    2.47   0.809
   Composite NOX :    0.540   0.790   0.969   0.836   2.807  0.665   0.758   6.242    1.21   1.099
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 32, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4475  0.3559  0.1232        0.0195  0.0005  0.0019  0.0475  0.0040  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.681   1.034   0.961   1.016   0.935  0.337   0.488   0.367    2.54   0.838
   Composite NOX :    0.545   0.793   0.973   0.839   2.743  0.663   0.756   6.226    1.19   1.001
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 32, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4525  0.3589  0.1251        0.0169  0.0005  0.0020  0.0410  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.665   1.014   0.942   0.995   0.891  0.323   0.466   0.341    2.47   0.820
   Composite NOX :    0.540   0.790   0.969   0.836   2.805  0.665   0.757   6.237    1.21   0.958
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 32, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4405  0.3500  0.1222        0.0230  0.0005  0.0019  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.681   1.034   0.961   1.016   0.935  0.337   0.487   0.367    2.54   0.838
   Composite NOX :    0.545   0.793   0.973   0.839   2.743  0.663   0.755   6.229    1.19   1.057
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 32, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3851  0.3339  0.1373        0.0370  0.0004  0.0021  0.0997  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.739   1.099   1.031   1.079   0.917  0.329   0.461   0.355    2.49   0.874
   Composite NOX :    0.639   0.930   1.136   0.990   2.781  0.661   0.742   6.042    1.20   1.425
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP07.IN (file 35, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 35, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3356  0.2679  0.0926        0.0866  0.0004  0.0015  0.2104  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.553   0.868   0.799   0.850   0.749  0.279   0.398   0.255    2.39   0.623
   Composite NOX :    0.512   0.754   0.927   0.798   3.238  0.927   1.059   9.501    1.49   2.749
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 35, 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 54.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4196  0.3359  0.1163        0.0353  0.0004  0.0018  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.557   0.874   0.805   0.856   0.755  0.281   0.400   0.259    2.32   0.682
   Composite NOX :    0.509   0.748   0.920   0.792   3.195  0.874   0.998   8.262    1.44   1.402
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 35, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0280  0.0005  0.0019  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.561   0.881   0.810   0.862   0.764  0.283   0.403   0.263    2.32   0.693
   Composite NOX :    0.505   0.742   0.914   0.787   3.153  0.832   0.950   7.855    1.39   1.215
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 35, 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 47.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.575   0.898   0.825   0.879   0.790  0.291   0.416   0.278    2.33   0.711
   Composite NOX :    0.496   0.728   0.899   0.772   3.043  0.748   0.852   7.037    1.29   1.140
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 35, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.584   0.909   0.834   0.890   0.812  0.298   0.427   0.291    2.35   0.724
   Composite NOX :    0.491   0.720   0.890   0.764   2.979  0.711   0.811   6.683    1.25   1.089
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 35, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3896  0.3109  0.1085        0.0540  0.0004  0.0017  0.1312  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.541   0.849   0.784   0.832   0.739  0.277   0.393   0.251    2.86   0.644
   Composite NOX :    0.526   0.775   0.950   0.820   3.390  1.190   1.362  12.049    1.68   2.322
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 35, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4255  0.3379  0.1172        0.0332  0.0005  0.0018  0.0810  0.0028  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.549   0.862   0.795   0.845   0.745  0.278   0.396   0.253    2.53   0.671
   Composite NOX :    0.516   0.760   0.933   0.805   3.283  0.990   1.132  10.118    1.55   1.521
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 35, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.584   0.909   0.834   0.890   0.811  0.298   0.427   0.291    2.35   0.719
   Composite NOX :    0.491   0.720   0.890   0.764   2.979  0.711   0.811   6.687    1.25   1.077
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 35, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4475  0.3559  0.1232        0.0195  0.0005  0.0019  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.607   0.936   0.857   0.916   0.879  0.320   0.461   0.333    2.45   0.754
   Composite NOX :    0.481   0.703   0.872   0.747   2.829  0.668   0.762   6.275    1.22   0.933
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 35, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4525  0.3589  0.1251        0.0169  0.0005  0.0020  0.0410  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.593   0.920   0.844   0.900   0.836  0.306   0.439   0.307    2.38   0.739
   Composite NOX :    0.486   0.712   0.881   0.756   2.913  0.687   0.782   6.447    1.24   0.905
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 35, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4405  0.3500  0.1222        0.0230  0.0005  0.0019  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.616   0.945   0.865   0.924   0.905  0.328   0.473   0.349    2.49   0.764
   Composite NOX :    0.479   0.699   0.868   0.743   2.782  0.661   0.753   6.209    1.21   0.982
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 35, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3851  0.3339  0.1373        0.0370  0.0004  0.0021  0.0997  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.681   1.018   0.941   0.996   0.917  0.329   0.461   0.355    2.49   0.813
   Composite NOX :    0.574   0.831   1.027   0.889   2.781  0.661   0.742   6.042    1.20   1.352
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP07N.IN (file 36, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 36, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3356  0.2679  0.0926        0.0866  0.0004  0.0015  0.2104  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.598   0.930   0.869   0.914   0.749  0.279   0.398   0.255    2.39   0.662
   Composite NOX :    0.573   0.843   1.025   0.890   3.238  0.927   1.059   9.501    1.49   2.802
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 36, 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 54.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4196  0.3359  0.1163        0.0353  0.0004  0.0018  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.603   0.937   0.875   0.921   0.755  0.281   0.400   0.259    2.32   0.731
   Composite NOX :    0.569   0.837   1.019   0.884   3.195  0.874   0.998   8.262    1.44   1.469
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 36, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0280  0.0005  0.0019  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.608   0.945   0.882   0.929   0.764  0.283   0.403   0.263    2.32   0.745
   Composite NOX :    0.565   0.831   1.012   0.878   3.153  0.832   0.950   7.855    1.39   1.283
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 36, 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 47.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.624   0.966   0.900   0.949   0.790  0.291   0.416   0.278    2.33   0.764
   Composite NOX :    0.556   0.817   0.997   0.864   3.043  0.748   0.852   7.037    1.29   1.208
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 36, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.634   0.978   0.911   0.961   0.812  0.298   0.427   0.291    2.35   0.779
   Composite NOX :    0.551   0.808   0.988   0.855   2.979  0.711   0.811   6.683    1.25   1.158
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 36, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3896  0.3109  0.1085        0.0540  0.0004  0.0017  0.1312  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.584   0.908   0.849   0.893   0.739  0.277   0.393   0.251    2.86   0.686
   Composite NOX :    0.586   0.865   1.049   0.912   3.390  1.190   1.362  12.049    1.68   2.384
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 36, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4255  0.3379  0.1172        0.0332  0.0005  0.0018  0.0810  0.0028  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.594   0.923   0.862   0.908   0.745  0.278   0.396   0.253    2.53   0.719
   Composite NOX :    0.576   0.849   1.032   0.896   3.283  0.990   1.132  10.118    1.55   1.588
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 36, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.634   0.978   0.911   0.961   0.811  0.298   0.427   0.291    2.35   0.774
   Composite NOX :    0.551   0.808   0.988   0.855   2.979  0.711   0.811   6.687    1.25   1.145
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 36, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4475  0.3559  0.1232        0.0195  0.0005  0.0019  0.0475  0.0040  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.660   1.009   0.938   0.991   0.879  0.320   0.461   0.333    2.45   0.814
   Composite NOX :    0.541   0.792   0.971   0.838   2.829  0.668   0.762   6.275    1.22   1.003
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 36, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4525  0.3589  0.1251        0.0169  0.0005  0.0020  0.0410  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.645   0.991   0.922   0.973   0.836  0.306   0.439   0.307    2.38   0.798
   Composite NOX :    0.546   0.800   0.980   0.847   2.913  0.687   0.782   6.447    1.24   0.976
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 36, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4405  0.3500  0.1222        0.0230  0.0005  0.0019  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.669   1.019   0.947   1.000   0.905  0.328   0.473   0.349    2.49   0.823
   Composite NOX :    0.539   0.787   0.967   0.834   2.782  0.661   0.753   6.209    1.21   1.052
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 36, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3851  0.3339  0.1373        0.0370  0.0004  0.0021  0.0997  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.739   1.099   1.031   1.079   0.917  0.329   0.461   0.355    2.49   0.874
   Composite NOX :    0.639   0.930   1.136   0.990   2.781  0.661   0.742   6.042    1.20   1.425
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM07.IN (file 33, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 33, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3356  0.2679  0.0926        0.0866  0.0004  0.0015  0.2104  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.561   0.881   0.810   0.863   0.764  0.283   0.404   0.263    2.32   0.633
   Composite NOX :    0.505   0.742   0.914   0.786   3.153  0.832   0.951   8.587    1.39   2.542
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 33, 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 54.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4196  0.3359  0.1163        0.0353  0.0004  0.0018  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.557   0.874   0.805   0.856   0.755  0.281   0.400   0.259    2.32   0.682
   Composite NOX :    0.509   0.748   0.920   0.792   3.195  0.874   0.998   8.262    1.44   1.402
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 33, 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0280  0.0005  0.0019  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.564   0.884   0.813   0.866   0.769  0.284   0.405   0.265    2.32   0.696
   Composite NOX :    0.503   0.739   0.911   0.784   3.131  0.810   0.925   7.643    1.36   1.197
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 33, 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 47.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.575   0.898   0.825   0.879   0.790  0.291   0.416   0.278    2.33   0.711
   Composite NOX :    0.496   0.728   0.899   0.772   3.043  0.748   0.852   7.037    1.29   1.140
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 33, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.587   0.913   0.837   0.893   0.820  0.300   0.431   0.296    2.36   0.727
   Composite NOX :    0.489   0.717   0.887   0.761   2.959  0.703   0.802   6.608    1.25   1.082
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 33, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3896  0.3109  0.1085        0.0540  0.0004  0.0017  0.1312  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.559   0.877   0.807   0.859   0.760  0.282   0.401   0.261    2.32   0.663
   Composite NOX :    0.507   0.745   0.917   0.790   3.174  0.853   0.974   8.791    1.41   1.861
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 33, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 48.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4255  0.3379  0.1172        0.0332  0.0005  0.0018  0.0810  0.0028  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.572   0.895   0.822   0.876   0.785  0.289   0.413   0.275    2.33   0.698
   Composite NOX :    0.498   0.731   0.902   0.775   3.067  0.761   0.869   7.906    1.30   1.312
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 33, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.616   0.945   0.865   0.925   0.905  0.328   0.474   0.349    2.49   0.756
   Composite NOX :    0.479   0.699   0.868   0.742   2.783  0.661   0.753   6.207    1.21   1.025
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 33, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4475  0.3559  0.1232        0.0195  0.0005  0.0019  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.621   0.952   0.871   0.931   0.920  0.332   0.481   0.358    2.52   0.770
   Composite NOX :    0.481   0.701   0.871   0.745   2.763  0.662   0.755   6.216    1.20   0.928
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 33, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4525  0.3589  0.1251        0.0169  0.0005  0.0020  0.0410  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.607   0.936   0.857   0.916   0.879  0.320   0.460   0.333    2.45   0.755
   Composite NOX :    0.481   0.703   0.872   0.747   2.828  0.668   0.761   6.271    1.22   0.890
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 33, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4405  0.3500  0.1222        0.0230  0.0005  0.0019  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.621   0.952   0.871   0.931   0.920  0.332   0.480   0.358    2.52   0.770
   Composite NOX :    0.481   0.701   0.871   0.745   2.763  0.662   0.754   6.219    1.20   0.984
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 33, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3851  0.3339  0.1373        0.0370  0.0004  0.0021  0.0997  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.681   1.018   0.941   0.996   0.917  0.329   0.461   0.355    2.49   0.813
   Composite NOX :    0.574   0.831   1.027   0.889   2.781  0.661   0.742   6.042    1.20   1.352
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM07N.IN (file 34, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 34, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3356  0.2679  0.0926        0.0866  0.0004  0.0015  0.2104  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.608   0.945   0.882   0.929   0.764  0.283   0.404   0.263    2.32   0.673
   Composite NOX :    0.565   0.831   1.012   0.878   3.153  0.832   0.951   8.587    1.39   2.595
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 34, 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 54.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4196  0.3359  0.1163        0.0353  0.0004  0.0018  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.603   0.937   0.875   0.921   0.755  0.281   0.400   0.259    2.32   0.731
   Composite NOX :    0.569   0.837   1.019   0.884   3.195  0.874   0.998   8.262    1.44   1.469
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 34, 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0280  0.0005  0.0019  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.611   0.949   0.885   0.933   0.769  0.284   0.405   0.265    2.32   0.748
   Composite NOX :    0.563   0.828   1.009   0.875   3.131  0.810   0.925   7.643    1.36   1.266
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 34, 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 47.0
      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

         Calendar Year:  2007
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.624   0.966   0.900   0.949   0.790  0.291   0.416   0.278    2.33   0.764
   Composite NOX :    0.556   0.817   0.997   0.864   3.043  0.748   0.852   7.037    1.29   1.208
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 34, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
        User supplied VMT mix.
  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

         Calendar Year:  2007
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.637   0.982   0.914   0.965   0.820  0.300   0.431   0.296    2.36   0.783
   Composite NOX :    0.550   0.806   0.985   0.852   2.959  0.703   0.802   6.608    1.25   1.151
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 34, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3896  0.3109  0.1085        0.0540  0.0004  0.0017  0.1312  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.606   0.941   0.878   0.925   0.760  0.282   0.401   0.261    2.32   0.708
   Composite NOX :    0.567   0.834   1.016   0.881   3.174  0.853   0.974   8.791    1.41   1.923
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 34, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 48.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4255  0.3379  0.1172        0.0332  0.0005  0.0018  0.0810  0.0028  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.620   0.961   0.896   0.945   0.785  0.289   0.413   0.275    2.33   0.750
   Composite NOX :    0.558   0.820   1.000   0.866   3.067  0.761   0.869   7.906    1.30   1.379
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 34, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.669   1.019   0.947   1.001   0.905  0.328   0.474   0.349    2.49   0.815
   Composite NOX :    0.539   0.787   0.967   0.834   2.783  0.661   0.753   6.207    1.21   1.095
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 34, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4475  0.3559  0.1232        0.0195  0.0005  0.0019  0.0475  0.0040  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.675   1.027   0.954   1.008   0.920  0.332   0.481   0.358    2.52   0.831
   Composite NOX :    0.542   0.790   0.970   0.836   2.763  0.662   0.755   6.216    1.20   0.999
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 34, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4525  0.3589  0.1251        0.0169  0.0005  0.0020  0.0410  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.660   1.009   0.938   0.990   0.879  0.320   0.460   0.333    2.45   0.815
   Composite NOX :    0.541   0.792   0.971   0.838   2.828  0.668   0.761   6.271    1.22   0.961
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 34, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4405  0.3500  0.1222        0.0230  0.0005  0.0019  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.675   1.027   0.954   1.008   0.920  0.332   0.480   0.358    2.52   0.830
   Composite NOX :    0.542   0.790   0.970   0.836   2.763  0.662   0.754   6.219    1.20   1.054
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 34, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3851  0.3339  0.1373        0.0370  0.0004  0.0021  0.0997  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.739   1.099   1.031   1.079   0.917  0.329   0.461   0.355    2.49   0.874
   Composite NOX :    0.639   0.930   1.136   0.990   2.781  0.661   0.742   6.042    1.20   1.425
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM10.IN (file 37, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 37, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3067  0.2890  0.1005        0.0866  0.0003  0.0015  0.2103  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.403   0.666   0.581   0.644   0.557  0.119   0.224   0.223    2.26   0.481
   Composite NOX :    0.344   0.555   0.640   0.577   1.874  0.325   0.499   5.361    1.36   1.628
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 37, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3827  0.3630  0.1261        0.0353  0.0003  0.0019  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.400   0.661   0.578   0.640   0.552  0.117   0.222   0.219    2.26   0.516
   Composite NOX :    0.347   0.559   0.644   0.581   1.901  0.342   0.526   5.249    1.41   0.942
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 37, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0280  0.0004  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.406   0.670   0.585   0.648   0.564  0.120   0.227   0.228    2.27   0.527
   Composite NOX :    0.342   0.551   0.635   0.573   1.848  0.310   0.477   4.756    1.31   0.804
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 37, 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.408   0.672   0.587   0.650   0.568  0.121   0.229   0.231    2.27   0.531
   Composite NOX :    0.341   0.549   0.633   0.571   1.836  0.305   0.468   4.669    1.30   0.794
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 37, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.418   0.684   0.596   0.661   0.592  0.126   0.240   0.249    2.30   0.545
   Composite NOX :    0.335   0.539   0.622   0.561   1.771  0.281   0.432   4.307    1.25   0.749
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 37, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.3370  0.1173        0.0539  0.0003  0.0018  0.1310  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.400   0.661   0.578   0.640   0.552  0.117   0.222   0.219    2.26   0.500
   Composite NOX :    0.347   0.559   0.644   0.581   1.900  0.342   0.526   5.636    1.41   1.234
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 37, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.410   0.675   0.589   0.652   0.573  0.122   0.231   0.234    2.27   0.526
   Composite NOX :    0.339   0.547   0.631   0.569   1.823  0.299   0.460   4.971    1.29   0.879
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 37, 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 36.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3996  0.3760  0.1301        0.0259  0.0004  0.0020  0.0630  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.436   0.702   0.612   0.679   0.640  0.137   0.262   0.287    2.41   0.561
   Composite NOX :    0.328   0.527   0.610   0.549   1.680  0.266   0.408   4.070    1.21   0.713
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 37, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.447   0.715   0.623   0.691   0.668  0.144   0.275   0.308    2.48   0.579
   Composite NOX :    0.331   0.529   0.612   0.551   1.642  0.265   0.407   4.055    1.19   0.651
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 37, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4126  0.3890  0.1350        0.0169  0.0004  0.0020  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.436   0.702   0.612   0.679   0.639  0.137   0.262   0.286    2.41   0.567
   Composite NOX :    0.328   0.527   0.610   0.549   1.679  0.266   0.408   4.062    1.21   0.622
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 37, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4016  0.3790  0.1320        0.0230  0.0004  0.0020  0.0560  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.447   0.715   0.623   0.691   0.668  0.144   0.275   0.308    2.48   0.581
   Composite NOX :    0.331   0.529   0.612   0.551   1.642  0.265   0.407   4.056    1.19   0.687
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 37, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3462  0.3611  0.1484        0.0373  0.0003  0.0022  0.1002  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.480   0.751   0.661   0.725   0.659  0.140   0.266   0.299    2.44   0.601
   Composite NOX :    0.384   0.614   0.712   0.643   1.664  0.264   0.404   3.922    1.20   0.922
            ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM10N.IN (file 38, run 1).                 *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 38, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3067  0.2890  0.1005        0.0866  0.0003  0.0015  0.2103  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.461   0.751   0.662   0.728   0.557  0.119   0.224   0.223    2.26   0.532
   Composite NOX :    0.420   0.668   0.748   0.689   1.874  0.325   0.499   5.361    1.36   1.695
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 38, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3827  0.3630  0.1261        0.0353  0.0003  0.0019  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.457   0.745   0.657   0.722   0.552  0.117   0.222   0.219    2.26   0.578
   Composite NOX :    0.423   0.673   0.753   0.693   1.901  0.342   0.526   5.249    1.41   1.026
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 38, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0280  0.0004  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.466   0.757   0.667   0.733   0.564  0.120   0.227   0.228    2.27   0.594
   Composite NOX :    0.417   0.664   0.743   0.684   1.848  0.310   0.477   4.756    1.31   0.890
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 38, 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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.468   0.759   0.670   0.736   0.568  0.121   0.229   0.231    2.27   0.598
   Composite NOX :    0.416   0.662   0.741   0.682   1.836  0.305   0.468   4.669    1.30   0.880
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 38, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
        User supplied VMT mix.
  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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.481   0.774   0.683   0.751   0.592  0.126   0.240   0.249    2.30   0.615
   Composite NOX :    0.410   0.652   0.730   0.672   1.771  0.281   0.432   4.307    1.25   0.835
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 38, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.3370  0.1173        0.0539  0.0003  0.0018  0.1310  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.457   0.745   0.657   0.722   0.552  0.117   0.222   0.219    2.26   0.558
   Composite NOX :    0.423   0.673   0.753   0.693   1.900  0.342   0.526   5.636    1.41   1.312
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 38, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.470   0.762   0.672   0.739   0.573  0.122   0.231   0.234    2.27   0.592
   Composite NOX :    0.415   0.660   0.739   0.680   1.823  0.299   0.460   4.971    1.29   0.963
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 38, 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 36.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3996  0.3760  0.1301        0.0259  0.0004  0.0020  0.0630  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.502   0.798   0.703   0.773   0.640  0.137   0.262   0.287    2.41   0.634
   Composite NOX :    0.403   0.640   0.718   0.660   1.680  0.266   0.408   4.070    1.21   0.800
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 38, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.514   0.813   0.717   0.788   0.668  0.144   0.275   0.308    2.48   0.657
   Composite NOX :    0.407   0.642   0.721   0.662   1.642  0.265   0.407   4.055    1.19   0.740
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 38, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4126  0.3890  0.1350        0.0169  0.0004  0.0020  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.502   0.798   0.703   0.773   0.639  0.137   0.262   0.286    2.41   0.643
   Composite NOX :    0.403   0.640   0.718   0.660   1.679  0.266   0.408   4.062    1.21   0.711
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 38, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4016  0.3790  0.1320        0.0230  0.0004  0.0020  0.0560  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.514   0.813   0.717   0.788   0.668  0.144   0.275   0.308    2.48   0.657
   Composite NOX :    0.407   0.642   0.721   0.662   1.642  0.265   0.407   4.056    1.19   0.775
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 38, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3462  0.3611  0.1484        0.0373  0.0003  0.0022  0.1002  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.551   0.856   0.763   0.829   0.659  0.140   0.266   0.299    2.44   0.679
   Composite NOX :    0.467   0.741   0.834   0.768   1.664  0.264   0.404   3.922    1.20   1.014
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP10.IN (file 41, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 41, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3067  0.2890  0.1005        0.0866  0.0003  0.0015  0.2103  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.393   0.652   0.570   0.631   0.542  0.115   0.218   0.212    2.47   0.471
   Composite NOX :    0.353   0.570   0.656   0.592   1.965  0.397   0.612   6.492    1.55   1.883
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 41, 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 55.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3827  0.3630  0.1261        0.0353  0.0003  0.0019  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.397   0.657   0.574   0.636   0.547  0.116   0.220   0.215    2.26   0.512
   Composite NOX :    0.349   0.563   0.649   0.585   1.925  0.358   0.551   5.500    1.46   0.968
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 41, 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0280  0.0004  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.403   0.666   0.581   0.644   0.558  0.119   0.224   0.223    2.26   0.523
   Composite NOX :    0.344   0.555   0.640   0.577   1.874  0.325   0.499   4.980    1.36   0.823
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 41, 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.408   0.672   0.587   0.650   0.568  0.121   0.229   0.231    2.27   0.531
   Composite NOX :    0.341   0.549   0.633   0.571   1.836  0.305   0.468   4.669    1.30   0.794
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 41, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.416   0.682   0.595   0.659   0.587  0.125   0.237   0.244    2.29   0.543
   Composite NOX :    0.336   0.541   0.624   0.563   1.784  0.284   0.437   4.355    1.25   0.754
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 41, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.3370  0.1173        0.0539  0.0003  0.0018  0.1310  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.388   0.644   0.564   0.623   0.537  0.115   0.217   0.211    2.80   0.489
   Composite NOX :    0.360   0.581   0.668   0.603   2.030  0.478   0.737   7.754    1.68   1.535
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 41, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.392   0.650   0.569   0.629   0.540  0.115   0.218   0.212    2.53   0.505
   Composite NOX :    0.355   0.572   0.658   0.594   1.978  0.410   0.630   6.684    1.57   1.043
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 41, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3996  0.3760  0.1301        0.0259  0.0004  0.0020  0.0630  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.421   0.686   0.598   0.664   0.598  0.127   0.242   0.253    2.31   0.543
   Composite NOX :    0.333   0.537   0.620   0.559   1.759  0.278   0.427   4.260    1.24   0.735
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 41, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.431   0.697   0.607   0.673   0.624  0.134   0.255   0.274    2.37   0.560
   Composite NOX :    0.329   0.530   0.613   0.552   1.707  0.268   0.412   4.107    1.22   0.655
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 41, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4126  0.3890  0.1350        0.0169  0.0004  0.0020  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.423   0.689   0.601   0.666   0.603  0.129   0.245   0.258    2.33   0.552
   Composite NOX :    0.332   0.535   0.618   0.556   1.744  0.274   0.421   4.198    1.24   0.635
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 41, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4016  0.3790  0.1320        0.0230  0.0004  0.0020  0.0560  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.436   0.702   0.612   0.679   0.640  0.137   0.262   0.286    2.41   0.568
   Composite NOX :    0.328   0.527   0.610   0.549   1.680  0.266   0.408   4.065    1.21   0.686
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 41, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3462  0.3611  0.1484        0.0373  0.0003  0.0022  0.1002  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.480   0.751   0.661   0.725   0.659  0.140   0.266   0.299    2.44   0.601
   Composite NOX :    0.384   0.614   0.712   0.643   1.664  0.264   0.404   3.922    1.20   0.922
            ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP10N.IN (file 42, run 1).                 *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 42, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3067  0.2890  0.1005        0.0866  0.0003  0.0015  0.2103  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.449   0.732   0.646   0.710   0.542  0.115   0.218   0.212    2.47   0.519
   Composite NOX :    0.429   0.684   0.765   0.705   1.965  0.397   0.612   6.492    1.55   1.951
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 42, 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 55.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3827  0.3630  0.1261        0.0353  0.0003  0.0019  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.454   0.740   0.653   0.717   0.547  0.116   0.220   0.215    2.26   0.574
   Composite NOX :    0.425   0.677   0.757   0.698   1.925  0.358   0.551   5.500    1.46   1.052
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 42, 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0280  0.0004  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.461   0.751   0.662   0.728   0.558  0.119   0.224   0.223    2.26   0.589
   Composite NOX :    0.420   0.668   0.748   0.689   1.874  0.325   0.499   4.980    1.36   0.909
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 42, 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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.468   0.759   0.670   0.736   0.568  0.121   0.229   0.231    2.27   0.598
   Composite NOX :    0.416   0.662   0.741   0.682   1.836  0.305   0.468   4.669    1.30   0.880
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 42, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.478   0.772   0.680   0.748   0.587  0.125   0.237   0.244    2.29   0.612
   Composite NOX :    0.411   0.654   0.732   0.674   1.784  0.284   0.437   4.355    1.25   0.840
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 42, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.3370  0.1173        0.0539  0.0003  0.0018  0.1310  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.442   0.722   0.637   0.700   0.537  0.115   0.217   0.211    2.80   0.543
   Composite NOX :    0.436   0.696   0.778   0.717   2.030  0.478   0.737   7.754    1.68   1.614
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 42, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.447   0.730   0.644   0.708   0.540  0.115   0.218   0.212    2.53   0.565
   Composite NOX :    0.431   0.686   0.767   0.707   1.978  0.410   0.630   6.684    1.57   1.128
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 42, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3996  0.3760  0.1301        0.0259  0.0004  0.0020  0.0630  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.484   0.777   0.686   0.754   0.598  0.127   0.242   0.253    2.31   0.614
   Composite NOX :    0.409   0.649   0.728   0.670   1.759  0.278   0.427   4.260    1.24   0.821
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 42, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.495   0.790   0.697   0.766   0.624  0.134   0.255   0.274    2.37   0.635
   Composite NOX :    0.405   0.642   0.721   0.663   1.707  0.268   0.412   4.107    1.22   0.743
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 42, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4126  0.3890  0.1350        0.0169  0.0004  0.0020  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.486   0.781   0.688   0.757   0.603  0.129   0.245   0.258    2.33   0.626
   Composite NOX :    0.408   0.647   0.726   0.668   1.744  0.274   0.421   4.198    1.24   0.724
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 42, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4016  0.3790  0.1320        0.0230  0.0004  0.0020  0.0560  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.502   0.798   0.703   0.773   0.640  0.137   0.262   0.286    2.41   0.642
   Composite NOX :    0.403   0.640   0.718   0.660   1.680  0.266   0.408   4.065    1.21   0.774
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 42, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3462  0.3611  0.1484        0.0373  0.0003  0.0022  0.1002  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.551   0.856   0.763   0.829   0.659  0.140   0.266   0.299    2.44   0.679
   Composite NOX :    0.467   0.741   0.834   0.768   1.664  0.264   0.404   3.922    1.20   1.014
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM10.IN (file 39, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 39, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3067  0.2890  0.1005        0.0866  0.0003  0.0015  0.2103  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.404   0.668   0.583   0.646   0.560  0.119   0.226   0.225    2.26   0.483
   Composite NOX :    0.343   0.553   0.637   0.575   1.860  0.315   0.485   5.218    1.33   1.595
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 39, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3827  0.3630  0.1261        0.0353  0.0003  0.0019  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.401   0.663   0.579   0.642   0.555  0.118   0.223   0.221    2.26   0.518
   Composite NOX :    0.346   0.557   0.642   0.579   1.888  0.333   0.513   5.116    1.39   0.929
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 39, 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 50.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0280  0.0004  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.404   0.668   0.583   0.646   0.561  0.119   0.226   0.225    2.26   0.525
   Composite NOX :    0.343   0.553   0.637   0.575   1.860  0.315   0.485   4.836    1.33   0.811
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 39, 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.408   0.672   0.587   0.650   0.568  0.121   0.229   0.231    2.27   0.531
   Composite NOX :    0.341   0.549   0.633   0.571   1.836  0.305   0.468   4.669    1.30   0.794
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 39, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.416   0.682   0.595   0.659   0.587  0.125   0.237   0.244    2.29   0.543
   Composite NOX :    0.336   0.541   0.624   0.563   1.784  0.284   0.437   4.355    1.25   0.754
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 39, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.3370  0.1173        0.0539  0.0003  0.0018  0.1310  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.403   0.666   0.581   0.644   0.557  0.119   0.224   0.223    2.26   0.504
   Composite NOX :    0.344   0.555   0.640   0.577   1.874  0.325   0.499   5.365    1.36   1.194
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 39, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.404   0.668   0.583   0.646   0.561  0.119   0.226   0.225    2.26   0.519
   Composite NOX :    0.343   0.553   0.637   0.575   1.860  0.315   0.485   5.220    1.33   0.905
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 39, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3996  0.3760  0.1301        0.0259  0.0004  0.0020  0.0630  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.433   0.699   0.609   0.676   0.632  0.135   0.258   0.280    2.39   0.557
   Composite NOX :    0.329   0.529   0.611   0.550   1.694  0.267   0.410   4.092    1.22   0.716
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 39, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.443   0.710   0.619   0.686   0.658  0.141   0.271   0.300    2.46   0.574
   Composite NOX :    0.329   0.527   0.610   0.549   1.654  0.265   0.406   4.048    1.20   0.649
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 39, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4126  0.3890  0.1350        0.0169  0.0004  0.0020  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.431   0.697   0.607   0.674   0.623  0.134   0.255   0.274    2.37   0.560
   Composite NOX :    0.329   0.530   0.613   0.552   1.706  0.268   0.412   4.104    1.22   0.626
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 39, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4016  0.3790  0.1320        0.0230  0.0004  0.0020  0.0560  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.439   0.706   0.614   0.682   0.648  0.139   0.266   0.293    2.43   0.571
   Composite NOX :    0.327   0.526   0.608   0.547   1.666  0.264   0.406   4.042    1.21   0.684
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 39, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3462  0.3611  0.1484        0.0373  0.0003  0.0022  0.1002  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.480   0.751   0.661   0.725   0.659  0.140   0.266   0.299    2.44   0.601
   Composite NOX :    0.384   0.614   0.712   0.643   1.664  0.264   0.404   3.922    1.20   0.922
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM10N.IN (file 40, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 40, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3067  0.2890  0.1005        0.0866  0.0003  0.0015  0.2103  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.463   0.754   0.665   0.731   0.560  0.119   0.226   0.225    2.26   0.535
   Composite NOX :    0.418   0.666   0.745   0.686   1.860  0.315   0.485   5.218    1.33   1.662
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 40, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3827  0.3630  0.1261        0.0353  0.0003  0.0019  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.459   0.748   0.660   0.725   0.555  0.118   0.223   0.221    2.26   0.581
   Composite NOX :    0.421   0.670   0.750   0.691   1.888  0.333   0.513   5.116    1.39   1.012
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 40, 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 50.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0280  0.0004  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.463   0.754   0.665   0.731   0.561  0.119   0.226   0.225    2.26   0.591
   Composite NOX :    0.418   0.666   0.745   0.686   1.860  0.315   0.485   4.836    1.33   0.897
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 40, 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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.468   0.759   0.670   0.736   0.568  0.121   0.229   0.231    2.27   0.598
   Composite NOX :    0.416   0.662   0.741   0.682   1.836  0.305   0.468   4.669    1.30   0.880
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 40, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

         Calendar Year:  2010
             Month:  July
            Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.478   0.772   0.680   0.748   0.587  0.125   0.237   0.244    2.29   0.612
   Composite NOX :    0.411   0.654   0.732   0.674   1.784  0.284   0.437   4.355    1.25   0.840
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
```

```
* File 40, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.3370  0.1173        0.0539  0.0003  0.0018  0.1310  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.461   0.751   0.662   0.728   0.557  0.119   0.224   0.223    2.26   0.563
   Composite NOX :    0.420   0.668   0.748   0.689   1.874  0.325   0.499   5.365    1.36   1.272
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 40, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.463   0.754   0.665   0.731   0.561  0.119   0.226   0.225    2.26   0.584
   Composite NOX :    0.418   0.666   0.745   0.686   1.860  0.315   0.485   5.220    1.33   0.989
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 40, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3996  0.3760  0.1301        0.0259  0.0004  0.0020  0.0630  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.498   0.794   0.700   0.770   0.632  0.135   0.258   0.280    2.39   0.631
   Composite NOX :    0.404   0.641   0.720   0.661   1.694  0.267   0.410   4.092    1.22   0.802
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 40, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.509   0.807   0.712   0.782   0.658  0.141   0.271   0.300    2.46   0.651
   Composite NOX :    0.405   0.640   0.718   0.660   1.654  0.265   0.406   4.048    1.20   0.738
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 40, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4126  0.3890  0.1350        0.0169  0.0004  0.0020  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.495   0.790   0.697   0.766   0.623  0.134   0.255   0.274    2.37   0.636
   Composite NOX :    0.405   0.642   0.721   0.663   1.706  0.268   0.412   4.104    1.22   0.716
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 40, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4016  0.3790  0.1320        0.0230  0.0004  0.0020  0.0560  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.505   0.801   0.706   0.777   0.648  0.139   0.266   0.293    2.43   0.646
   Composite NOX :    0.403   0.638   0.716   0.658   1.666  0.264   0.406   4.042    1.21   0.771
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 40, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3462  0.3611  0.1484        0.0373  0.0003  0.0022  0.1002  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.551   0.856   0.763   0.829   0.659  0.140   0.266   0.299    2.44   0.679
   Composite NOX :    0.467   0.741   0.834   0.768   1.664  0.264   0.404   3.922    1.20   1.014
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM12.IN (file 43, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 43, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2907  0.3010  0.1044        0.0867  0.0003  0.0016  0.2103  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.318   0.553   0.484   0.535   0.486  0.078   0.170   0.202    2.26   0.406
   Composite NOX :    0.264   0.467   0.521   0.481   1.433  0.196   0.356   3.718    1.36   1.185
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 43, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3627  0.3780  0.1310        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.316   0.550   0.482   0.532   0.482  0.077   0.168   0.198    2.26   0.431
   Composite NOX :    0.266   0.470   0.525   0.484   1.454  0.206   0.375   3.671    1.41   0.717
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 43, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0280  0.0003  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.321   0.556   0.487   0.538   0.492  0.079   0.172   0.207    2.27   0.439
   Composite NOX :    0.262   0.463   0.518   0.477   1.414  0.187   0.340   3.323    1.31   0.619
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 43, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.322   0.557   0.489   0.540   0.495  0.080   0.174   0.209    2.27   0.442
   Composite NOX :    0.261   0.462   0.516   0.476   1.404  0.184   0.334   3.261    1.30   0.612
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 43, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.330   0.566   0.496   0.548   0.515  0.083   0.182   0.225    2.30   0.454
   Composite NOX :    0.257   0.454   0.507   0.467   1.355  0.169   0.308   3.006    1.25   0.580
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 43, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3377  0.3501  0.1212        0.0540  0.0003  0.0018  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.316   0.550   0.482   0.532   0.481  0.077   0.168   0.198    2.26   0.419
   Composite NOX :    0.266   0.470   0.525   0.484   1.454  0.206   0.375   3.911    1.41   0.915
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 43, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3677  0.3810  0.1320        0.0333  0.0003  0.0020  0.0807  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.324   0.559   0.490   0.541   0.498  0.080   0.175   0.212    2.27   0.438
   Composite NOX :    0.260   0.460   0.514   0.474   1.394  0.180   0.328   3.442    1.29   0.668
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 43, 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 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.344   0.579   0.508   0.561   0.555  0.091   0.199   0.259    2.41   0.464
   Composite NOX :    0.251   0.444   0.497   0.458   1.285  0.160   0.291   2.833    1.21   0.553
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 43, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3867  0.4010  0.1389        0.0195  0.0003  0.0021  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.352   0.588   0.517   0.570   0.578  0.096   0.209   0.279    2.48   0.479
   Composite NOX :    0.254   0.446   0.499   0.459   1.256  0.160   0.290   2.829    1.19   0.510
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 43, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3907  0.4050  0.1409        0.0169  0.0003  0.0021  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.344   0.579   0.508   0.561   0.554  0.091   0.199   0.259    2.41   0.469
   Composite NOX :    0.251   0.444   0.497   0.458   1.285  0.160   0.291   2.832    1.21   0.490
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 43, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.352   0.588   0.517   0.570   0.578  0.096   0.209   0.279    2.48   0.481
   Composite NOX :    0.254   0.446   0.499   0.459   1.256  0.160   0.290   2.827    1.19   0.536
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 43, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3257  0.3754  0.1543        0.0374  0.0003  0.0023  0.1003  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.376   0.616   0.547   0.596   0.571  0.093   0.204   0.270    2.44   0.498
   Composite NOX :    0.292   0.513   0.584   0.533   1.271  0.159   0.289   2.765    1.20   0.709
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM12N.IN (file 44, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 44, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2907  0.3010  0.1044        0.0867  0.0003  0.0016  0.2103  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.380   0.645   0.569   0.625   0.486  0.078   0.170   0.202    2.26   0.460
   Composite NOX :    0.345   0.590   0.633   0.601   1.433  0.196   0.356   3.718    1.36   1.258
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 44, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3627  0.3780  0.1310        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.377   0.641   0.565   0.621   0.482  0.077   0.168   0.198    2.26   0.499
   Composite NOX :    0.347   0.594   0.637   0.605   1.454  0.206   0.375   3.671    1.41   0.808
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 44, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0280  0.0003  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.384   0.650   0.573   0.630   0.492  0.079   0.172   0.207    2.27   0.511
   Composite NOX :    0.343   0.586   0.630   0.598   1.414  0.187   0.340   3.323    1.31   0.712
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 44, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.385   0.652   0.575   0.632   0.495  0.080   0.174   0.209    2.27   0.514
   Composite NOX :    0.342   0.585   0.628   0.596   1.404  0.184   0.334   3.261    1.30   0.705
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 44, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.396   0.664   0.586   0.644   0.515  0.083   0.182   0.225    2.30   0.529
   Composite NOX :    0.337   0.576   0.619   0.587   1.355  0.169   0.308   3.006    1.25   0.673
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 44, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3377  0.3501  0.1212        0.0540  0.0003  0.0018  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.377   0.641   0.565   0.621   0.481  0.077   0.168   0.198    2.26   0.481
   Composite NOX :    0.347   0.594   0.637   0.605   1.454  0.206   0.375   3.911    1.41   0.999
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 44, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3677  0.3810  0.1320        0.0333  0.0003  0.0020  0.0807  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.387   0.654   0.577   0.634   0.498  0.080   0.175   0.212    2.27   0.509
   Composite NOX :    0.341   0.583   0.626   0.594   1.394  0.180   0.328   3.442    1.29   0.759
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 44, 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 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.413   0.682   0.602   0.661   0.555  0.091   0.199   0.259    2.41   0.543
   Composite NOX :    0.332   0.566   0.609   0.577   1.285  0.160   0.291   2.833    1.21   0.646
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 44, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3867  0.4010  0.1389        0.0195  0.0003  0.0021  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.423   0.694   0.614   0.674   0.578  0.096   0.209   0.279    2.48   0.562
   Composite NOX :    0.335   0.568   0.611   0.579   1.256  0.160   0.290   2.829    1.19   0.606
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 44, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3907  0.4050  0.1409        0.0169  0.0003  0.0021  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.413   0.682   0.602   0.661   0.554  0.091   0.199   0.259    2.41   0.551
   Composite NOX :    0.332   0.566   0.609   0.577   1.285  0.160   0.291   2.832    1.21   0.587
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 44, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.423   0.694   0.614   0.674   0.578  0.096   0.209   0.279    2.48   0.563
   Composite NOX :    0.335   0.568   0.611   0.579   1.256  0.160   0.290   2.827    1.19   0.630
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 44, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
     100% of VMT has been assigned to the freeway ramp
     roadway type for all hours of the day for all
     vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3257  0.3754  0.1543        0.0374  0.0003  0.0023  0.1003  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.452   0.730   0.652   0.707   0.571  0.093   0.204   0.270    2.44   0.581
   Composite NOX :    0.381   0.652   0.711   0.669   1.271  0.159   0.289   2.765    1.20   0.809
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP12.IN (file 47, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 47, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2907  0.3010  0.1044        0.0867  0.0003  0.0016  0.2103  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.312   0.544   0.476   0.526   0.473  0.076   0.165   0.192    2.47   0.398
   Composite NOX :    0.271   0.479   0.534   0.493   1.503  0.240   0.437   4.516    1.55   1.367
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 47, 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 55.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3627  0.3780  0.1310        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.314   0.547   0.479   0.530   0.477  0.077   0.166   0.195    2.26   0.429
   Composite NOX :    0.268   0.473   0.528   0.488   1.473  0.216   0.393   3.848    1.46   0.735
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 47, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0280  0.0003  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.318   0.553   0.484   0.535   0.486  0.078   0.170   0.202    2.26   0.436
   Composite NOX :    0.264   0.467   0.521   0.481   1.434  0.196   0.356   3.481    1.36   0.633
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 47, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.322   0.557   0.489   0.540   0.495  0.080   0.174   0.209    2.27   0.442
   Composite NOX :    0.261   0.462   0.516   0.476   1.404  0.184   0.334   3.261    1.30   0.612
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 47, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.328   0.564   0.495   0.546   0.510  0.083   0.180   0.221    2.29   0.452
   Composite NOX :    0.258   0.455   0.509   0.469   1.364  0.171   0.312   3.040    1.25   0.583
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 47, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3377  0.3501  0.1212        0.0540  0.0003  0.0018  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.309   0.539   0.472   0.522   0.469  0.076   0.164   0.191    2.80   0.412
   Composite NOX :    0.276   0.487   0.544   0.502   1.552  0.289   0.526   5.406    1.68   1.129
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 47, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3677  0.3810  0.1320        0.0333  0.0003  0.0020  0.0807  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.311   0.542   0.475   0.525   0.472  0.076   0.165   0.192    2.53   0.423
   Composite NOX :    0.272   0.480   0.536   0.495   1.512  0.247   0.450   4.651    1.57   0.785
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 47, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.332   0.567   0.498   0.549   0.520  0.084   0.184   0.229    2.31   0.451
   Composite NOX :    0.256   0.452   0.506   0.466   1.345  0.167   0.305   2.967    1.24   0.569
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 47, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3867  0.4010  0.1389        0.0195  0.0003  0.0021  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.340   0.575   0.504   0.557   0.542  0.089   0.194   0.248    2.37   0.464
   Composite NOX :    0.253   0.446   0.500   0.460   1.306  0.162   0.294   2.865    1.22   0.513
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 47, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3907  0.4050  0.1409        0.0169  0.0003  0.0021  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.334   0.569   0.499   0.551   0.524  0.085   0.186   0.233    2.33   0.458
   Composite NOX :    0.255   0.450   0.504   0.464   1.334  0.165   0.301   2.928    1.24   0.500
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 47, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
```

```
      The user supplied arterial average speed of 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.344   0.579   0.508   0.561   0.555  0.091   0.199   0.259    2.41   0.471
   Composite NOX :    0.251   0.444   0.497   0.458   1.285  0.160   0.291   2.834    1.21   0.535
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 47, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3257  0.3754  0.1543        0.0374  0.0003  0.0023  0.1003  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.376   0.616   0.547   0.596   0.571  0.093   0.204   0.270    2.44   0.498
   Composite NOX :    0.292   0.513   0.584   0.533   1.271  0.159   0.289   2.765    1.20   0.709
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP12N.IN (file 48, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 48, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2907  0.3010  0.1044        0.0867  0.0003  0.0016  0.2103  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.370   0.631   0.556   0.612   0.473  0.076   0.165   0.192    2.47   0.450
   Composite NOX :    0.353   0.604   0.647   0.615   1.503  0.240   0.437   4.516    1.55   1.440
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 48, 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 55.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3627  0.3780  0.1310        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.374   0.637   0.561   0.617   0.477  0.077   0.166   0.195    2.26   0.495
   Composite NOX :    0.349   0.597   0.641   0.609   1.473  0.216   0.393   3.848    1.46   0.826
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 48, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0280  0.0003  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.380   0.645   0.569   0.625   0.486  0.078   0.170   0.202    2.26   0.506
   Composite NOX :    0.345   0.590   0.633   0.601   1.434  0.196   0.356   3.481    1.36   0.727
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 48, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.385   0.652   0.575   0.632   0.495  0.080   0.174   0.209    2.27   0.514
   Composite NOX :    0.342   0.585   0.628   0.596   1.404  0.184   0.334   3.261    1.30   0.705
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 48, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.394   0.661   0.584   0.641   0.510  0.083   0.180   0.221    2.29   0.526
   Composite NOX :    0.338   0.578   0.621   0.589   1.364  0.171   0.312   3.040    1.25   0.677
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 48, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3377  0.3501  0.1212        0.0540  0.0003  0.0018  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.365   0.623   0.548   0.604   0.469  0.076   0.164   0.191    2.80   0.470
   Composite NOX :    0.358   0.613   0.658   0.625   1.552  0.289   0.526   5.406    1.68   1.215
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 48, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3677  0.3810  0.1320        0.0333  0.0003  0.0020  0.0807  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.369   0.629   0.554   0.610   0.472  0.076   0.165   0.192    2.53   0.488
   Composite NOX :    0.354   0.605   0.649   0.617   1.512  0.247   0.450   4.651    1.57   0.878
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 48, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.398   0.666   0.588   0.646   0.520  0.084   0.184   0.229    2.31   0.526
   Composite NOX :    0.336   0.574   0.617   0.585   1.345  0.167   0.305   2.967    1.24   0.662
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 48, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3867  0.4010  0.1389        0.0195  0.0003  0.0021  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.408   0.676   0.597   0.656   0.542  0.089   0.194   0.248    2.37   0.544
   Composite NOX :    0.333   0.568   0.611   0.580   1.306  0.162   0.294   2.865    1.22   0.609
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 48, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3907  0.4050  0.1409        0.0169  0.0003  0.0021  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.401   0.669   0.590   0.648   0.524  0.085   0.186   0.233    2.33   0.537
   Composite NOX :    0.335   0.573   0.615   0.584   1.334  0.165   0.301   2.928    1.24   0.596
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 48, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.413   0.682   0.602   0.661   0.555  0.091   0.199   0.259    2.41   0.551
   Composite NOX :    0.332   0.566   0.609   0.577   1.285  0.160   0.291   2.834    1.21   0.629
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 48, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
     100% of VMT has been assigned to the freeway ramp
     roadway type for all hours of the day for all
     vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3257  0.3754  0.1543        0.0374  0.0003  0.0023  0.1003  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.452   0.730   0.652   0.707   0.571  0.093   0.204   0.270    2.44   0.581
   Composite NOX :    0.381   0.652   0.711   0.669   1.271  0.159   0.289   2.765    1.20   0.809
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM12.IN (file 45, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 45, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2907  0.3010  0.1044        0.0867  0.0003  0.0016  0.2103  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.319   0.554   0.486   0.537   0.489  0.079   0.171   0.204    2.26   0.407
   Composite NOX :    0.263   0.465   0.519   0.479   1.423  0.190   0.346   3.617    1.33   1.162
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 45, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3627  0.3780  0.1310        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.317   0.551   0.483   0.534   0.484  0.078   0.169   0.200    2.26   0.433
   Composite NOX :    0.265   0.468   0.523   0.483   1.444  0.201   0.366   3.577    1.39   0.707
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 45, 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 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0280  0.0003  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.319   0.554   0.486   0.537   0.489  0.079   0.171   0.204    2.26   0.437
   Composite NOX :    0.263   0.465   0.519   0.479   1.423  0.190   0.346   3.380    1.33   0.625
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 45, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.322   0.557   0.489   0.540   0.495  0.080   0.174   0.209    2.27   0.442
   Composite NOX :    0.261   0.462   0.516   0.476   1.404  0.184   0.334   3.261    1.30   0.612
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 45, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.328   0.564   0.495   0.546   0.510  0.083   0.180   0.221    2.29   0.452
   Composite NOX :    0.258   0.455   0.509   0.469   1.364  0.171   0.312   3.040    1.25   0.583
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 45, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3377  0.3501  0.1212        0.0540  0.0003  0.0018  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.318   0.553   0.484   0.535   0.486  0.078   0.170   0.202    2.26   0.422
   Composite NOX :    0.264   0.467   0.521   0.481   1.433  0.196   0.356   3.720    1.36   0.886
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 45, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3677  0.3810  0.1320        0.0333  0.0003  0.0020  0.0807  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.319   0.554   0.486   0.537   0.488  0.079   0.171   0.204    2.26   0.433
   Composite NOX :    0.263   0.465   0.519   0.479   1.422  0.190   0.346   3.618    1.33   0.687
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 45, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.342   0.577   0.506   0.559   0.548  0.090   0.196   0.253    2.39   0.462
   Composite NOX :    0.252   0.445   0.499   0.459   1.295  0.161   0.293   2.849    1.22   0.555
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 45, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3867  0.4010  0.1389        0.0195  0.0003  0.0021  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.349   0.585   0.513   0.566   0.570  0.094   0.206   0.272    2.46   0.475
   Composite NOX :    0.252   0.444   0.498   0.458   1.266  0.159   0.290   2.824    1.20   0.509
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 45, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3907  0.4050  0.1409        0.0169  0.0003  0.0021  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.340   0.575   0.504   0.557   0.541  0.089   0.194   0.248    2.37   0.464
   Composite NOX :    0.253   0.446   0.500   0.460   1.305  0.162   0.294   2.862    1.22   0.493
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 45, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.347   0.581   0.510   0.563   0.562  0.093   0.202   0.265    2.43   0.474
   Composite NOX :    0.251   0.443   0.496   0.457   1.274  0.159   0.289   2.818    1.21   0.533
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 45, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3257  0.3754  0.1543        0.0374  0.0003  0.0023  0.1003  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.376   0.616   0.547   0.596   0.571  0.093   0.204   0.270    2.44   0.498
   Composite NOX :    0.292   0.513   0.584   0.533   1.271  0.159   0.289   2.765    1.20   0.709
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM12N.IN (file 46, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 46, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2907  0.3010  0.1044        0.0867  0.0003  0.0016  0.2103  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.382   0.647   0.571   0.628   0.489  0.079   0.171   0.204    2.26   0.462
   Composite NOX :    0.344   0.588   0.631   0.599   1.423  0.190   0.346   3.617    1.33   1.234
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 46, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3627  0.3780  0.1310        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.379   0.643   0.567   0.623   0.484  0.078   0.169   0.200    2.26   0.500
   Composite NOX :    0.346   0.592   0.635   0.603   1.444  0.201   0.366   3.577    1.39   0.798
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 46, 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 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0280  0.0003  0.0020  0.0679  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.382   0.647   0.571   0.628   0.489  0.079   0.171   0.204    2.26   0.508
   Composite NOX :    0.344   0.588   0.631   0.599   1.423  0.190   0.346   3.380    1.33   0.718
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 46, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.385   0.652   0.575   0.632   0.495  0.080   0.174   0.209    2.27   0.514
   Composite NOX :    0.342   0.585   0.628   0.596   1.404  0.184   0.334   3.261    1.30   0.705
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 46, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.394   0.661   0.584   0.641   0.510  0.083   0.180   0.221    2.29   0.526
   Composite NOX :    0.338   0.578   0.621   0.589   1.364  0.171   0.312   3.040    1.25   0.677
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 46, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3377  0.3501  0.1212        0.0540  0.0003  0.0018  0.1309  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.380   0.645   0.569   0.625   0.486  0.078   0.170   0.202    2.26   0.485
   Composite NOX :    0.345   0.590   0.633   0.601   1.433  0.196   0.356   3.720    1.36   0.970
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 46, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3677  0.3810  0.1320        0.0333  0.0003  0.0020  0.0807  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.382   0.647   0.571   0.628   0.488  0.079   0.171   0.204    2.26   0.502
   Composite NOX :    0.344   0.588   0.631   0.599   1.422  0.190   0.346   3.618    1.33   0.778
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 46, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.410   0.679   0.600   0.659   0.548  0.090   0.196   0.253    2.39   0.540
   Composite NOX :    0.332   0.567   0.610   0.578   1.295  0.161   0.293   2.849    1.22   0.648
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 46, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3867  0.4010  0.1389        0.0195  0.0003  0.0021  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.420   0.689   0.610   0.669   0.570  0.094   0.206   0.272    2.46   0.558
   Composite NOX :    0.333   0.566   0.609   0.577   1.266  0.159   0.290   2.824    1.20   0.605
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 46, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3907  0.4050  0.1409        0.0169  0.0003  0.0021  0.0409  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.408   0.676   0.597   0.656   0.541  0.089   0.194   0.248    2.37   0.545
   Composite NOX :    0.333   0.568   0.611   0.580   1.305  0.162   0.294   2.862    1.22   0.590
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 46, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.416   0.685   0.605   0.664   0.562  0.093   0.202   0.265    2.43   0.554
   Composite NOX :    0.331   0.565   0.608   0.576   1.274  0.159   0.289   2.818    1.21   0.627
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 46, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
     100% of VMT has been assigned to the freeway ramp
     roadway type for all hours of the day for all
     vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3257  0.3754  0.1543        0.0374  0.0003  0.0023  0.1003  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.452   0.730   0.652   0.707   0.571  0.093   0.204   0.270    2.44   0.581
   Composite NOX :    0.381   0.652   0.711   0.669   1.271  0.159   0.289   2.765    1.20   0.809
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM15.IN (file 49, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 49, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2728  0.3140  0.1094        0.0866  0.0002  0.0016  0.2105  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.249   0.445   0.401   0.434   0.393  0.063   0.137   0.183    2.26   0.335
   Composite NOX :    0.183   0.344   0.389   0.356   0.890  0.114   0.255   2.112    1.36   0.729
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 49, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3407  0.3940  0.1370        0.0352  0.0003  0.0020  0.0858  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.247   0.443   0.399   0.432   0.389  0.063   0.135   0.180    2.26   0.354
   Composite NOX :    0.185   0.347   0.392   0.359   0.903  0.120   0.268   2.113    1.41   0.474
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 49, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.251   0.447   0.403   0.436   0.398  0.064   0.139   0.187    2.27   0.359
   Composite NOX :    0.182   0.342   0.386   0.353   0.878  0.109   0.243   1.911    1.31   0.417
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 49, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0276  0.0003  0.0021  0.0673  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.252   0.448   0.405   0.437   0.401  0.065   0.140   0.189    2.27   0.363
   Composite NOX :    0.181   0.341   0.384   0.352   0.872  0.107   0.239   1.875    1.30   0.413
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 49, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.259   0.454   0.411   0.443   0.417  0.067   0.146   0.204    2.30   0.372
   Composite NOX :    0.178   0.334   0.377   0.345   0.842  0.099   0.220   1.728    1.25   0.394
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 49, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3157  0.3660  0.1271        0.0539  0.0003  0.0019  0.1311  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.247   0.443   0.399   0.432   0.389  0.063   0.135   0.180    2.26   0.345
   Composite NOX :    0.185   0.347   0.391   0.359   0.903  0.120   0.268   2.224    1.41   0.581
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 49, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3447  0.3980  0.1379        0.0332  0.0003  0.0021  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.253   0.449   0.406   0.438   0.404  0.065   0.141   0.192    2.27   0.358
   Composite NOX :    0.181   0.339   0.383   0.351   0.866  0.105   0.235   1.954    1.29   0.441
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 49, 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 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.4090  0.1419        0.0259  0.0003  0.0021  0.0632  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.271   0.464   0.420   0.453   0.450  0.073   0.160   0.235    2.41   0.379
   Composite NOX :    0.174   0.327   0.369   0.338   0.798  0.093   0.208   1.630    1.21   0.375
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 49, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.278   0.471   0.428   0.460   0.468  0.077   0.168   0.253    2.48   0.391
   Composite NOX :    0.176   0.328   0.371   0.339   0.780  0.093   0.208   1.625    1.19   0.353
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 49, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3657  0.4240  0.1468        0.0168  0.0003  0.0022  0.0409  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.271   0.464   0.420   0.453   0.449  0.073   0.160   0.235    2.41   0.383
   Composite NOX :    0.174   0.327   0.369   0.338   0.798  0.093   0.208   1.627    1.21   0.341
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 49, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3577  0.4120  0.1429        0.0230  0.0003  0.0021  0.0561  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.278   0.471   0.428   0.460   0.468  0.077   0.168   0.253    2.48   0.394
   Composite NOX :    0.176   0.328   0.371   0.339   0.780  0.093   0.208   1.624    1.19   0.367
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 49, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3019  0.3918  0.1611        0.0374  0.0003  0.0024  0.1009  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.293   0.489   0.450   0.478   0.464  0.075   0.163   0.245    2.44   0.405
   Composite NOX :    0.200   0.372   0.438   0.391   0.789  0.093   0.207   1.597    1.20   0.473
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURAM15N.IN (file 50, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 50, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2728  0.3140  0.1094        0.0866  0.0002  0.0016  0.2105  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.311   0.538   0.484   0.525   0.393  0.063   0.137   0.183    2.26   0.391
   Composite NOX :    0.266   0.475   0.505   0.482   0.890  0.114   0.255   2.112    1.36   0.806
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 50, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3407  0.3940  0.1370        0.0352  0.0003  0.0020  0.0858  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.308   0.535   0.481   0.521   0.389  0.063   0.135   0.180    2.26   0.422
   Composite NOX :    0.268   0.478   0.508   0.486   0.903  0.120   0.268   2.113    1.41   0.570
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 50, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.313   0.542   0.488   0.528   0.398  0.064   0.139   0.187    2.27   0.432
   Composite NOX :    0.265   0.472   0.501   0.479   0.878  0.109   0.243   1.911    1.31   0.515
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 50, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0276  0.0003  0.0021  0.0673  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.315   0.544   0.489   0.530   0.401  0.065   0.140   0.189    2.27   0.436
   Composite NOX :    0.264   0.470   0.500   0.478   0.872  0.107   0.239   1.875    1.30   0.511
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 50, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.324   0.553   0.499   0.539   0.417  0.067   0.146   0.204    2.30   0.448
   Composite NOX :    0.261   0.463   0.492   0.471   0.842  0.099   0.220   1.728    1.25   0.492
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 50, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3157  0.3660  0.1271        0.0539  0.0003  0.0019  0.1311  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.308   0.535   0.481   0.521   0.389  0.063   0.135   0.180    2.26   0.408
   Composite NOX :    0.268   0.478   0.508   0.486   0.903  0.120   0.268   2.224    1.41   0.670
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 50, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 47.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3447  0.3980  0.1379        0.0332  0.0003  0.0021  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.317   0.546   0.491   0.532   0.404  0.065   0.141   0.192    2.27   0.430
   Composite NOX :    0.263   0.469   0.498   0.477   0.866  0.105   0.235   1.954    1.29   0.537
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 50, 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 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.4090  0.1419        0.0259  0.0003  0.0021  0.0632  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.339   0.567   0.513   0.553   0.450  0.073   0.160   0.235    2.41   0.459
   Composite NOX :    0.257   0.455   0.484   0.462   0.798  0.093   0.208   1.630    1.21   0.473
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 50, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.348   0.577   0.523   0.563   0.468  0.077   0.168   0.253    2.48   0.475
   Composite NOX :    0.259   0.456   0.486   0.464   0.780  0.093   0.208   1.625    1.19   0.453
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 50, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3657  0.4240  0.1468        0.0168  0.0003  0.0022  0.0409  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.339   0.567   0.513   0.553   0.449  0.073   0.160   0.235    2.41   0.465
   Composite NOX :    0.257   0.455   0.484   0.462   0.798  0.093   0.208   1.627    1.21   0.442
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 50, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3577  0.4120  0.1429        0.0230  0.0003  0.0021  0.0561  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.348   0.577   0.523   0.563   0.468  0.077   0.168   0.253    2.48   0.477
   Composite NOX :    0.259   0.456   0.486   0.464   0.780  0.093   0.208   1.624    1.19   0.467
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 50, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
     100% of VMT has been assigned to the freeway ramp
     roadway type for all hours of the day for all
     vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3019  0.3918  0.1611        0.0374  0.0003  0.0024  0.1009  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.368   0.604   0.554   0.589   0.464  0.075   0.163   0.245    2.44   0.490
   Composite NOX :    0.292   0.521   0.570   0.535   0.789  0.093   0.207   1.597    1.20   0.580
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP15.IN (file 53, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 53, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2728  0.3140  0.1094        0.0866  0.0002  0.0016  0.2105  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.244   0.439   0.395   0.428   0.383  0.062   0.133   0.174    2.47   0.330
   Composite NOX :    0.188   0.354   0.399   0.365   0.934  0.139   0.312   2.574    1.55   0.837
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 53, 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 55.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3407  0.3940  0.1370        0.0352  0.0003  0.0020  0.0858  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.246   0.441   0.398   0.430   0.386  0.062   0.134   0.177    2.26   0.352
   Composite NOX :    0.186   0.350   0.394   0.361   0.915  0.126   0.281   2.216    1.46   0.485
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 53, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.249   0.445   0.401   0.434   0.393  0.063   0.137   0.183    2.26   0.357
   Composite NOX :    0.183   0.344   0.388   0.356   0.890  0.114   0.255   2.002    1.36   0.426
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 53, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0276  0.0003  0.0021  0.0673  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.252   0.448   0.405   0.437   0.401  0.065   0.140   0.189    2.27   0.363
   Composite NOX :    0.181   0.341   0.384   0.352   0.872  0.107   0.239   1.875    1.30   0.413
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 53, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.257   0.453   0.409   0.442   0.413  0.067   0.145   0.201    2.29   0.371
   Composite NOX :    0.178   0.335   0.379   0.347   0.847  0.100   0.223   1.747    1.25   0.396
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 53, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3157  0.3660  0.1271        0.0539  0.0003  0.0019  0.1311  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.242   0.436   0.392   0.425   0.380  0.061   0.132   0.173    2.80   0.341
   Composite NOX :    0.192   0.361   0.406   0.372   0.964  0.168   0.376   3.089    1.68   0.709
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 53, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3447  0.3980  0.1379        0.0332  0.0003  0.0021  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.244   0.438   0.395   0.427   0.382  0.061   0.133   0.174    2.53   0.347
   Composite NOX :    0.189   0.355   0.400   0.367   0.940  0.144   0.322   2.655    1.57   0.513
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 53, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.4090  0.1419        0.0259  0.0003  0.0021  0.0632  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.260   0.455   0.412   0.444   0.421  0.068   0.148   0.208    2.31   0.368
   Composite NOX :    0.177   0.333   0.376   0.344   0.836  0.098   0.218   1.708    1.24   0.386
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 53, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.267   0.461   0.417   0.449   0.438  0.071   0.155   0.225    2.37   0.379
   Composite NOX :    0.175   0.329   0.371   0.340   0.811  0.094   0.210   1.647    1.22   0.355
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 53, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3657  0.4240  0.1468        0.0168  0.0003  0.0022  0.0409  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.262   0.456   0.413   0.445   0.424  0.069   0.149   0.211    2.33   0.374
   Composite NOX :    0.176   0.332   0.375   0.343   0.829  0.096   0.215   1.683    1.24   0.347
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 53, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
```

```
      The user supplied arterial average speed of 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3577  0.4120  0.1429        0.0230  0.0003  0.0021  0.0561  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.271   0.464   0.420   0.453   0.450  0.073   0.160   0.235    2.41   0.386
   Composite NOX :    0.174   0.327   0.369   0.338   0.798  0.093   0.208   1.629    1.21   0.367
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 53, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3019  0.3918  0.1611        0.0374  0.0003  0.0024  0.1009  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.293   0.489   0.450   0.478   0.464  0.075   0.163   0.245    2.44   0.405
   Composite NOX :    0.200   0.372   0.438   0.391   0.789  0.093   0.207   1.597    1.20   0.473
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DUROP15N.IN (file 54, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 54, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2728  0.3140  0.1094        0.0866  0.0002  0.0016  0.2105  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.303   0.528   0.474   0.514   0.383  0.062   0.133   0.174    2.47   0.382
   Composite NOX :    0.272   0.486   0.516   0.494   0.934  0.139   0.312   2.574    1.55   0.914
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 54, 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 55.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3407  0.3940  0.1370        0.0352  0.0003  0.0020  0.0858  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.306   0.532   0.478   0.518   0.386  0.062   0.134   0.177    2.26   0.420
   Composite NOX :    0.270   0.481   0.511   0.489   0.915  0.126   0.281   2.216    1.46   0.581
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 54, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.311   0.538   0.484   0.525   0.393  0.063   0.137   0.183    2.26   0.428
   Composite NOX :    0.266   0.475   0.504   0.482   0.890  0.114   0.255   2.002    1.36   0.524
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 54, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0276  0.0003  0.0021  0.0673  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.315   0.544   0.489   0.530   0.401  0.065   0.140   0.189    2.27   0.436
   Composite NOX :    0.264   0.470   0.500   0.478   0.872  0.107   0.239   1.875    1.30   0.511
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 54, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.322   0.551   0.497   0.537   0.413  0.067   0.145   0.201    2.29   0.446
   Composite NOX :    0.261   0.465   0.494   0.472   0.847  0.100   0.223   1.747    1.25   0.494
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 54, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 63.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3157  0.3660  0.1271        0.0539  0.0003  0.0019  0.1311  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.299   0.522   0.468   0.508   0.380  0.061   0.132   0.173    2.80   0.399
   Composite NOX :    0.276   0.494   0.525   0.502   0.964  0.168   0.376   3.089    1.68   0.799
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 54, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3447  0.3980  0.1379        0.0332  0.0003  0.0021  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.302   0.527   0.473   0.513   0.382  0.061   0.133   0.174    2.53   0.413
   Composite NOX :    0.273   0.487   0.518   0.495   0.940  0.144   0.322   2.655    1.57   0.611
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 54, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.4090  0.1419        0.0259  0.0003  0.0021  0.0632  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.326   0.555   0.500   0.541   0.421  0.068   0.148   0.208    2.31   0.445
   Composite NOX :    0.260   0.462   0.491   0.469   0.836  0.098   0.218   1.708    1.24   0.484
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 54, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.334   0.563   0.508   0.549   0.438  0.071   0.155   0.225    2.37   0.460
   Composite NOX :    0.258   0.457   0.486   0.464   0.811  0.094   0.210   1.647    1.22   0.455
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 54, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3657  0.4240  0.1468        0.0168  0.0003  0.0022  0.0409  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.328   0.557   0.502   0.543   0.424  0.069   0.149   0.211    2.33   0.454
   Composite NOX :    0.259   0.460   0.489   0.468   0.829  0.096   0.215   1.683    1.24   0.449
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 54, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 36.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3577  0.4120  0.1429        0.0230  0.0003  0.0021  0.0561  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.339   0.567   0.513   0.553   0.450  0.073   0.160   0.235    2.41   0.466
   Composite NOX :    0.257   0.455   0.484   0.462   0.798  0.093   0.208   1.629    1.21   0.466
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 54, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
     100% of VMT has been assigned to the freeway ramp
     roadway type for all hours of the day for all
     vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3019  0.3918  0.1611        0.0374  0.0003  0.0024  0.1009  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.368   0.604   0.554   0.589   0.464  0.075   0.163   0.245    2.44   0.490
   Composite NOX :    0.292   0.521   0.570   0.535   0.789  0.093   0.207   1.597    1.20   0.580
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM15.IN (file 51, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 51, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2728  0.3140  0.1094        0.0866  0.0002  0.0016  0.2105  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.250   0.446   0.402   0.435   0.395  0.064   0.138   0.185    2.26   0.337
   Composite NOX :    0.182   0.343   0.387   0.354   0.884  0.111   0.247   2.053    1.33   0.716
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 51, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3407  0.3940  0.1370        0.0352  0.0003  0.0020  0.0858  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.248   0.444   0.400   0.433   0.391  0.063   0.136   0.181    2.26   0.355
   Composite NOX :    0.184   0.346   0.390   0.357   0.897  0.117   0.262   2.059    1.39   0.468
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 51, 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 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.250   0.446   0.402   0.435   0.395  0.064   0.138   0.185    2.26   0.358
   Composite NOX :    0.182   0.343   0.387   0.354   0.884  0.111   0.247   1.943    1.33   0.420
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 51, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0276  0.0003  0.0021  0.0673  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.252   0.448   0.405   0.437   0.401  0.065   0.140   0.189    2.27   0.363
   Composite NOX :    0.181   0.341   0.384   0.352   0.872  0.107   0.239   1.875    1.30   0.413
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 51, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.257   0.453   0.409   0.442   0.413  0.067   0.145   0.201    2.29   0.371
   Composite NOX :    0.178   0.335   0.379   0.347   0.847  0.100   0.223   1.747    1.25   0.396
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 51, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3157  0.3660  0.1271        0.0539  0.0003  0.0019  0.1311  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.249   0.445   0.401   0.434   0.393  0.063   0.137   0.183    2.26   0.347
   Composite NOX :    0.183   0.344   0.388   0.356   0.890  0.114   0.255   2.113    1.36   0.564
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 51, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3447  0.3980  0.1379        0.0332  0.0003  0.0021  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.250   0.446   0.402   0.435   0.395  0.064   0.138   0.185    2.26   0.354
   Composite NOX :    0.182   0.343   0.387   0.354   0.884  0.111   0.247   2.056    1.33   0.453
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 51, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.4090  0.1419        0.0259  0.0003  0.0021  0.0632  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.269   0.462   0.419   0.451   0.444  0.072   0.157   0.230    2.39   0.377
   Composite NOX :    0.174   0.328   0.370   0.339   0.805  0.094   0.209   1.639    1.22   0.377
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 51, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.275   0.468   0.425   0.457   0.461  0.076   0.165   0.247    2.46   0.388
   Composite NOX :    0.175   0.327   0.370   0.338   0.786  0.093   0.207   1.622    1.20   0.352
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 51, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3657  0.4240  0.1468        0.0168  0.0003  0.0022  0.0409  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.267   0.461   0.417   0.449   0.438  0.071   0.155   0.225    2.37   0.379
   Composite NOX :    0.175   0.329   0.371   0.340   0.811  0.094   0.210   1.644    1.22   0.343
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 51, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3577  0.4120  0.1429        0.0230  0.0003  0.0021  0.0561  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.273   0.465   0.422   0.454   0.455  0.075   0.162   0.240    2.43   0.388
   Composite NOX :    0.173   0.326   0.368   0.337   0.791  0.093   0.207   1.619    1.21   0.365
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 51, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3019  0.3918  0.1611        0.0374  0.0003  0.0024  0.1009  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.293   0.489   0.450   0.478   0.464  0.075   0.163   0.245    2.44   0.405
   Composite NOX :    0.200   0.372   0.438   0.391   0.789  0.093   0.207   1.597    1.20   0.473
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: DURPM15N.IN (file 52, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 52, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2728  0.3140  0.1094        0.0866  0.0002  0.0016  0.2105  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.312   0.540   0.486   0.526   0.395  0.064   0.138   0.185    2.26   0.392
   Composite NOX :    0.266   0.473   0.503   0.481   0.884  0.111   0.247   2.053    1.33   0.792
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 52, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3407  0.3940  0.1370        0.0352  0.0003  0.0020  0.0858  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.309   0.537   0.483   0.523   0.391  0.063   0.136   0.181    2.26   0.424
   Composite NOX :    0.267   0.476   0.506   0.484   0.897  0.117   0.262   2.059    1.39   0.564
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 52, 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 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.312   0.540   0.486   0.526   0.395  0.064   0.138   0.185    2.26   0.430
   Composite NOX :    0.266   0.473   0.503   0.481   0.884  0.111   0.247   1.943    1.33   0.519
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 52, 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0276  0.0003  0.0021  0.0673  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.315   0.544   0.489   0.530   0.401  0.065   0.140   0.189    2.27   0.436
   Composite NOX :    0.264   0.470   0.500   0.478   0.872  0.107   0.239   1.875    1.30   0.511
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 52, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.322   0.551   0.497   0.537   0.413  0.067   0.145   0.201    2.29   0.446
   Composite NOX :    0.261   0.465   0.494   0.472   0.847  0.100   0.223   1.747    1.25   0.494
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 52, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3157  0.3660  0.1271        0.0539  0.0003  0.0019  0.1311  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.311   0.538   0.484   0.525   0.393  0.063   0.137   0.183    2.26   0.411
   Composite NOX :    0.266   0.475   0.504   0.482   0.890  0.114   0.255   2.113    1.36   0.653
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 52, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3447  0.3980  0.1379        0.0332  0.0003  0.0021  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.312   0.540   0.486   0.526   0.395  0.064   0.138   0.185    2.26   0.425
   Composite NOX :    0.266   0.473   0.503   0.481   0.884  0.111   0.247   2.056    1.33   0.549
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 52, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.4090  0.1419        0.0259  0.0003  0.0021  0.0632  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.337   0.565   0.511   0.551   0.444  0.072   0.157   0.230    2.39   0.456
   Composite NOX :    0.257   0.456   0.485   0.463   0.805  0.094   0.209   1.639    1.22   0.475
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 52, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.344   0.574   0.519   0.559   0.461  0.076   0.165   0.247    2.46   0.471
   Composite NOX :    0.258   0.455   0.484   0.463   0.786  0.093   0.207   1.622    1.20   0.452
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 52, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3657  0.4240  0.1468        0.0168  0.0003  0.0022  0.0409  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.334   0.563   0.508   0.549   0.438  0.071   0.155   0.225    2.37   0.460
   Composite NOX :    0.258   0.457   0.486   0.464   0.811  0.094   0.210   1.644    1.22   0.445
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 52, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3577  0.4120  0.1429        0.0230  0.0003  0.0021  0.0561  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.341   0.570   0.515   0.556   0.455  0.075   0.162   0.240    2.43   0.469
   Composite NOX :    0.256   0.454   0.483   0.461   0.791  0.093   0.207   1.619    1.21   0.464
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 52, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
     100% of VMT has been assigned to the freeway ramp
     roadway type for all hours of the day for all
     vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3019  0.3918  0.1611        0.0374  0.0003  0.0024  0.1009  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.368   0.604   0.554   0.589   0.464  0.075   0.163   0.245    2.44   0.490
   Composite NOX :    0.292   0.521   0.570   0.535   0.789  0.093   0.207   1.597    1.20   0.580
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR00.IN (file 55, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)
* IDLE Annual I/M program no exemption

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 55, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4053  0.2157  0.0750        0.0885  0.0007  0.0014  0.2085  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.254   1.935   1.840   1.910   1.363  0.644   0.934   0.415    2.32   1.284
   Composite NOX :    1.154   1.428   1.503   1.447   5.607  1.921   2.075  21.782    1.49   5.938
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 55, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4911  0.2616  0.0917        0.0444  0.0009  0.0017  0.1047  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.254   1.935   1.840   1.910   1.363  0.644   0.931   0.415    2.32   1.406
   Composite NOX :    1.154   1.428   1.503   1.447   5.607  1.921   2.072  21.785    1.49   3.619
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 55, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5051  0.2716  0.0947        0.0360  0.0009  0.0017  0.0850  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.295   2.003   1.912   1.980   1.486  0.686   0.987   0.472    2.35   1.487
   Composite NOX :    1.122   1.381   1.457   1.401   5.195  1.527   1.651  14.187    1.27   2.483
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 55, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5211  0.2786  0.0976        0.0287  0.0009  0.0018  0.0674  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.309   2.023   1.932   1.999   1.541  0.705   1.010   0.497    2.39   1.524
   Composite NOX :    1.114   1.369   1.445   1.389   5.083  1.474   1.593  13.778    1.26   2.187
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 55, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5221  0.2786  0.0967        0.0283  0.0009  0.0018  0.0667  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.315   2.030   1.940   2.007   1.559  0.712   1.023   0.506    2.40   1.532
   Composite NOX :    1.111   1.364   1.441   1.384   5.041  1.455   1.576  13.642    1.26   2.162
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 55, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5211  0.2816  0.0976        0.0271  0.0009  0.0018  0.0639  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.365   2.098   2.010   2.076   1.755  0.777   1.109   0.594    2.54   1.602
   Composite NOX :    1.114   1.358   1.436   1.378   4.784  1.424   1.543  13.410    1.21   2.101
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 55, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4722  0.2497  0.0868        0.0551  0.0008  0.0016  0.1299  0.0039  1.0000
            ------------------
```

```
 Composite Emission Factors (g/mi):
   Composite VOC :    1.254   1.935   1.840   1.910   1.363  0.644   0.934   0.415    2.32   1.375
   Composite NOX :    1.154   1.428   1.503   1.447   5.606  1.921   2.075  21.782    1.49   4.180
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 55, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5141  0.2716  0.0947        0.0340  0.0009  0.0017  0.0801  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.266   1.959   1.865   1.934   1.397  0.655   0.947   0.430    2.32   1.450
   Composite NOX :    1.142   1.411   1.486   1.430   5.460  1.741   1.881  20.434    1.38   2.943
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 55, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5291  0.2786  0.0976        0.0265  0.0009  0.0018  0.0626  0.0029  1.0000
           ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.377   2.115   2.027   2.092   1.792  0.789   1.120   0.610    2.57   1.611
   Composite NOX :    1.120   1.362   1.440   1.383   4.747  1.427   1.542  13.419    1.20   2.086
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 55, 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 21.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5410  0.2856  0.0996        0.0199  0.0010  0.0018  0.0470  0.0041  1.0000
           ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.576   2.376   2.291   2.354   2.442  0.977   1.368   0.863    2.99   1.864
   Composite NOX :    1.245   1.479   1.565   1.501   4.331  1.584   1.712  14.627    1.08   2.035
           ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 55, 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5480  0.2876  0.1006        0.0173  0.0010  0.0018  0.0407  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.446   2.206   2.120   2.184   2.016  0.860   1.213   0.704    2.73   1.715
   Composite NOX :    1.162   1.400   1.480   1.420   4.559  1.466   1.585  13.722    1.15   1.834
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 55, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 21.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5311  0.2826  0.0986        0.0235  0.0009  0.0018  0.0555  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.576   2.376   2.291   2.354   2.444  0.977   1.368   0.862    2.99   1.861
   Composite NOX :    1.245   1.479   1.565   1.501   4.333  1.584   1.712  14.607    1.08   2.157
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 55, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
```

```
        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:  0.4899  0.2612  0.1065        0.0374  0.0009  0.0019  0.0971  0.0051  1.0000
           ------------------
Composite Emission Factors (g/mi):
  Composite VOC :    1.585   2.334   2.233   2.305   1.712  0.760   1.023   0.576    2.50   1.759
  Composite NOX :    1.341   1.663   1.740   1.686   4.857  1.419   1.491  10.198    1.22   2.459
           ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR00N.IN (file 56, run 1).                  *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 56, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4053  0.2157  0.0750        0.0885  0.0007  0.0014  0.2085  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.370   2.138   1.943   2.087   1.403  0.644   0.934   0.415    2.32   1.386
   Composite NOX :    1.170   1.454   1.524   1.472   5.662  1.921   2.075  21.782    1.49   5.956
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 56, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4911  0.2616  0.0917        0.0444  0.0009  0.0017  0.1047  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.370   2.138   1.943   2.087   1.403  0.644   0.931   0.415    2.32   1.527
   Composite NOX :    1.170   1.454   1.524   1.472   5.663  1.921   2.072  21.785    1.49   3.637
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 56, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5051  0.2716  0.0947        0.0360  0.0009  0.0017  0.0850  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.419   2.216   2.022   2.166   1.533  0.686   0.987   0.472    2.35   1.619
   Composite NOX :    1.137   1.407   1.478   1.426   5.247  1.527   1.651  14.187    1.27   2.502
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 56, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5211  0.2786  0.0976        0.0287  0.0009  0.0018  0.0674  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.436   2.239   2.044   2.188   1.592  0.705   1.010   0.497    2.39   1.662
   Composite NOX :    1.129   1.395   1.466   1.414   5.134  1.474   1.593  13.778    1.26   2.206
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 56, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5221  0.2786  0.0967        0.0283  0.0009  0.0018  0.0667  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.442   2.247   2.053   2.197   1.611  0.712   1.023   0.506    2.40   1.671
   Composite NOX :    1.126   1.391   1.462   1.409   5.091  1.455   1.576  13.642    1.26   2.181
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
```

```
* File 56, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5211  0.2816  0.0976        0.0271  0.0009  0.0018  0.0639  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.500   2.324   2.129   2.274   1.822  0.777   1.109   0.594    2.54   1.749
   Composite NOX :    1.129   1.385   1.457   1.403   4.832  1.424   1.543  13.410    1.21   2.120
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 56, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4722  0.2497  0.0868        0.0551  0.0008  0.0016  0.1299  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.370   2.138   1.943   2.087   1.403  0.644   0.934   0.415    2.32   1.491
   Composite NOX :    1.170   1.454   1.524   1.472   5.662  1.921   2.075  21.782    1.49   4.199
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 56, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5141  0.2716  0.0947        0.0340  0.0009  0.0017  0.0801  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.384   2.165   1.971   2.115   1.438  0.655   0.947   0.430    2.32   1.579
   Composite NOX :    1.157   1.436   1.507   1.455   5.514  1.741   1.881  20.434    1.38   2.961
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 56, 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 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5291  0.2786  0.0976        0.0265  0.0009  0.0018  0.0626  0.0029  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.514   2.343   2.148   2.293   1.862  0.789   1.120   0.610    2.57   1.761
   Composite NOX :    1.135   1.389   1.462   1.408   4.795  1.427   1.542  13.419    1.20   2.105
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 56, 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 21.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5410  0.2856  0.0996        0.0199  0.0010  0.0018  0.0470  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.737   2.633   2.433   2.581   2.567  0.977   1.368   0.863    2.99   2.041
   Composite NOX :    1.262   1.507   1.588   1.528   4.374  1.584   1.712  14.627    1.08   2.055
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 56, 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5480  0.2876  0.1006        0.0173  0.0010  0.0018  0.0407  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.593   2.446   2.249   2.395   2.105  0.860   1.213   0.704    2.73   1.879
   Composite NOX :    1.178   1.427   1.502   1.446   4.604  1.466   1.585  13.722    1.15   1.853
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 56, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 21.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5311  0.2826  0.0986        0.0235  0.0009  0.0018  0.0555  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.737   2.633   2.433   2.581   2.569  0.977   1.368   0.862    2.99   2.036
   Composite NOX :    1.262   1.507   1.588   1.528   4.376  1.584   1.712  14.607    1.08   2.177
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 56, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         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:	0.4899	0.2612	0.1065		0.0374	0.0009	0.0019	0.0971	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.728	2.567	2.357	2.506	1.776	0.760	1.023	0.576	2.50	1.906
Composite NOX :	1.358	1.692	1.763	1.713	4.905	1.419	1.491	10.198	1.22	2.479

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR04.IN (file 57, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 57, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3664  0.2447  0.0848        0.0876  0.0006  0.0015  0.2094  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.870   1.411   1.351   1.395   1.116  0.504   1.006   0.319    2.32   0.956
   Composite NOX :    0.860   1.150   1.318   1.193   4.929  1.691   1.927  13.267    1.49   3.930
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 57, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4443  0.2967  0.1035        0.0439  0.0007  0.0018  0.1050  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.870   1.411   1.351   1.395   1.115  0.504   1.002   0.319    2.32   1.039
   Composite NOX :    0.860   1.150   1.318   1.194   4.928  1.691   1.924  13.265    1.49   2.480
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 57, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4553  0.3086  0.1074        0.0357  0.0007  0.0019  0.0854  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.907   1.471   1.408   1.455   1.205  0.535   1.055   0.362    2.35   1.106
   Composite NOX :    0.829   1.108   1.274   1.151   4.567  1.348   1.537   9.325    1.27   1.826
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 57, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4713  0.3156  0.1104        0.0283  0.0007  0.0020  0.0678  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.919   1.488   1.424   1.472   1.243  0.549   1.076   0.382    2.38   1.133
   Composite NOX :    0.821   1.096   1.263   1.139   4.469  1.302   1.484   9.008    1.26   1.618
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 57, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4713  0.3156  0.1104        0.0280  0.0007  0.0020  0.0669  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.924   1.494   1.430   1.478   1.255  0.554   1.084   0.389    2.39   1.141
   Composite NOX :    0.818   1.092   1.259   1.135   4.430  1.285   1.465   8.890    1.26   1.598
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 57, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4713  0.3186  0.1104        0.0268  0.0007  0.0020  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.964   1.548   1.482   1.531   1.392  0.602   1.170   0.457    2.54   1.196
   Composite NOX :    0.818   1.085   1.254   1.129   4.205  1.258   1.438   8.702    1.21   1.552
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 57, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4254  0.2847  0.0986        0.0545  0.0006  0.0018  0.1305  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.870   1.411   1.351   1.395   1.116  0.504   1.006   0.319    2.32   1.018
   Composite NOX :    0.860   1.150   1.318   1.193   4.929  1.691   1.927  13.268    1.49   2.834
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 57, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4643  0.3086  0.1074        0.0336  0.0007  0.0019  0.0804  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.881   1.432   1.371   1.417   1.141  0.512   1.017   0.331    2.32   1.073
   Composite NOX :    0.849   1.134   1.302   1.178   4.800  1.535   1.748  12.179    1.38   2.033
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 57, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4773  0.3176  0.1104        0.0262  0.0007  0.0020  0.0629  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.972   1.560   1.494   1.543   1.419  0.611   1.183   0.469    2.57   1.201
   Composite NOX :    0.823   1.089   1.258   1.132   4.174  1.260   1.439   8.719    1.20   1.542
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 57, 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 21.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4873  0.3256  0.1134        0.0197  0.0007  0.0020  0.0473  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.114   1.744   1.679   1.727   1.875  0.749   1.414   0.663    2.99   1.385
   Composite NOX :    0.924   1.186   1.372   1.234   3.809  1.397   1.593   9.675    1.08   1.533
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 57, 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4943  0.3276  0.1143        0.0171  0.0007  0.0020  0.0408  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.022   1.624   1.558   1.607   1.575  0.663   1.267   0.541    2.73   1.276
   Composite NOX :    0.857   1.120   1.294   1.165   4.007  1.295   1.477   8.950    1.15   1.380
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 57, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 21.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4803  0.3206  0.1114        0.0233  0.0007  0.0020  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.114   1.744   1.679   1.727   1.874  0.749   1.415   0.663    2.99   1.383
   Composite NOX :    0.924   1.186   1.372   1.234   3.808  1.397   1.594   9.680    1.08   1.616
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 57, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
```

```
          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:  0.4348  0.2982  0.1214        0.0379  0.0007  0.0021  0.1001  0.0047  1.0000
           ------------------
Composite Emission Factors (g/mi):
  Composite VOC :    1.077   1.672   1.614   1.655   1.360  0.589   1.069   0.442    2.49   1.273
  Composite NOX :    0.990   1.312   1.508   1.368   4.265  1.253   1.382   8.244    1.22   2.001
           ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR04N.IN (file 58, run 1).                  *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 58, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.3664  0.2447  0.0848        0.0876  0.0006  0.0015  0.2094  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.955   1.589   1.492   1.564   1.131  0.504   1.006   0.319    2.32   1.045
   Composite NOX :    0.910   1.233   1.406   1.277   4.963  1.691   1.927  13.267    1.49   3.979
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 58, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4443  0.2967  0.1035        0.0439  0.0007  0.0018  0.1050  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.955   1.589   1.492   1.564   1.131  0.504   1.002   0.319    2.32   1.145
   Composite NOX :    0.910   1.233   1.406   1.277   4.962  1.691   1.924  13.265    1.49   2.537
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 58, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4553  0.3086  0.1074        0.0357  0.0007  0.0019  0.0854  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.000   1.659   1.559   1.633   1.223  0.535   1.055   0.362    2.35   1.223
   Composite NOX :    0.879   1.190   1.362   1.234   4.599  1.348   1.537   9.325    1.27   1.884
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 58, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4713  0.3156  0.1104        0.0283  0.0007  0.0020  0.0678  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.014   1.678   1.578   1.652   1.263  0.549   1.076   0.382    2.38   1.255
   Composite NOX :    0.871   1.178   1.351   1.223   4.499  1.302   1.484   9.008    1.26   1.678
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 58, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4713  0.3156  0.1104        0.0280  0.0007  0.0020  0.0669  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.019   1.685   1.585   1.659   1.275  0.554   1.084   0.389    2.39   1.264
   Composite NOX :    0.868   1.174   1.347   1.219   4.460  1.285   1.465   8.890    1.26   1.658
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
```

```
* File 58, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4713  0.3186  0.1104        0.0268  0.0007  0.0020  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.065   1.747   1.645   1.721   1.419  0.602   1.170   0.457    2.54   1.325
   Composite NOX :    0.869   1.168   1.343   1.213   4.234  1.258   1.438   8.702    1.21   1.613
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 58, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4254  0.2847  0.0986        0.0545  0.0006  0.0018  0.1305  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.955   1.589   1.492   1.564   1.131  0.504   1.006   0.319    2.32   1.120
   Composite NOX :    0.910   1.233   1.406   1.277   4.963  1.691   1.927  13.268    1.49   2.889
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 58, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4643  0.3086  0.1074        0.0336  0.0007  0.0019  0.0804  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.970   1.613   1.516   1.588   1.157  0.512   1.017   0.331    2.32   1.186
   Composite NOX :    0.898   1.217   1.389   1.261   4.832  1.535   1.748  12.179    1.38   2.092
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 58, 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 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4773  0.3176  0.1104        0.0262  0.0007  0.0020  0.0629  0.0029  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.074   1.761   1.658   1.734   1.447  0.611   1.183   0.469    2.57   1.333
   Composite NOX :    0.874   1.172   1.347   1.217   4.202  1.260   1.439   8.719    1.20   1.603
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 58, 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 21.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4873  0.3256  0.1134        0.0197  0.0007  0.0020  0.0473  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.234   1.969   1.868   1.943   1.924  0.749   1.414   0.663    2.99   1.539
   Composite NOX :    0.980   1.275   1.467   1.324   3.835  1.397   1.593   9.675    1.08   1.600
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 58, 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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4943  0.3276  0.1143        0.0171  0.0007  0.0020  0.0408  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.130   1.834   1.732   1.808   1.611  0.663   1.267   0.541    2.73   1.419
   Composite NOX :    0.910   1.205   1.385   1.251   4.034  1.295   1.477   8.950    1.15   1.444
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 58, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 21.0
      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

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:  0.4803  0.3206  0.1114        0.0233  0.0007  0.0020  0.0557  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.234   1.969   1.868   1.943   1.924  0.749   1.415   0.663    2.99   1.535
   Composite NOX :    0.980   1.275   1.467   1.324   3.834  1.397   1.594   9.680    1.08   1.682
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 58, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2004
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  121. 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:	0.4348	0.2982	0.1214		0.0379	0.0007	0.0021	0.1001	0.0047	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.183	1.879	1.784	1.852	1.385	0.589	1.069	0.442	2.49	1.403
Composite NOX :	1.044	1.401	1.603	1.460	4.294	1.253	1.382	8.244	1.22	2.064

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR07.IN (file 59, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 59, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3356  0.2679  0.0926        0.0868  0.0004  0.0015  0.2102  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.650   1.095   1.039   1.081   0.825  0.333   0.505   0.265    2.29   0.747
   Composite NOX :    0.572   0.850   1.037   0.898   3.303  1.039   1.180   9.432    1.49   2.795
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 59, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4075  0.3249  0.1123        0.0436  0.0005  0.0018  0.1054  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.650   1.095   1.039   1.081   0.825  0.333   0.505   0.264    2.29   0.812
   Composite NOX :    0.572   0.850   1.037   0.898   3.303  1.039   1.180   9.431    1.49   1.773
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 59, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4195  0.3359  0.1163        0.0354  0.0005  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.686   1.143   1.087   1.129   0.891  0.353   0.537   0.300    2.32   0.868
   Composite NOX :    0.551   0.818   1.002   0.865   3.061  0.828   0.939   6.878    1.27   1.328
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 59, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0281  0.0005  0.0019  0.0679  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.697   1.157   1.100   1.142   0.920  0.363   0.551   0.317    2.35   0.890
   Composite NOX :    0.546   0.809   0.993   0.856   2.995  0.800   0.906   6.633    1.26   1.176
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 59, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.701   1.162   1.105   1.147   0.929  0.366   0.557   0.322    2.36   0.897
   Composite NOX :    0.544   0.806   0.989   0.853   2.969  0.789   0.894   6.544    1.26   1.162
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 59, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.735   1.205   1.147   1.190   1.030  0.399   0.609   0.378    2.51   0.942
   Composite NOX :    0.544   0.800   0.985   0.848   2.819  0.772   0.876   6.401    1.21   1.129
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 59, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3896  0.3109  0.1085        0.0541  0.0004  0.0017  0.1311  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.650   1.095   1.039   1.080   0.825  0.333   0.503   0.264    2.29   0.795
   Composite NOX :    0.572   0.850   1.037   0.899   3.303  1.039   1.179   9.431    1.49   2.023
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 59, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4255  0.3379  0.1173        0.0333  0.0005  0.0019  0.0809  0.0028  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.662   1.112   1.056   1.098   0.844  0.338   0.513   0.274    2.29   0.839
   Composite NOX :    0.564   0.838   1.024   0.886   3.217  0.943   1.070   8.610    1.38   1.453
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 59, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.742   1.214   1.156   1.199   1.048  0.405   0.618   0.389    2.54   0.946
   Composite NOX :    0.547   0.803   0.988   0.851   2.797  0.774   0.877   6.417    1.20   1.120
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 59, 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 21.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4475  0.3559  0.1232        0.0196  0.0005  0.0020  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.855   1.359   1.301   1.344   1.379  0.499   0.766   0.550    2.96   1.093
   Composite NOX :    0.616   0.877   1.079   0.929   2.552  0.858   0.974   7.138    1.08   1.115
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 59, 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4525  0.3589  0.1251        0.0170  0.0005  0.0020  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.782   1.265   1.207   1.250   1.162  0.440   0.672   0.449    2.70   1.007
   Composite NOX :    0.571   0.827   1.017   0.876   2.685  0.795   0.901   6.595    1.15   1.004
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 59, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 21.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4405  0.3500  0.1222        0.0231  0.0005  0.0020  0.0559  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.855   1.359   1.301   1.344   1.379  0.499   0.764   0.550    2.96   1.093
   Composite NOX :    0.616   0.877   1.079   0.929   2.552  0.858   0.973   7.141    1.08   1.177
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 59, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
```

```
          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:  0.3939  0.3270  0.1330        0.0379  0.0004  0.0021  0.1011  0.0046  1.0000
           ------------------
Composite Emission Factors (g/mi):
  Composite VOC :    0.795   1.274   1.222   1.259   1.009  0.390   0.575   0.366    2.46   0.980
  Composite NOX :    0.645   0.947   1.159   1.008   2.858  0.770   0.857   6.199    1.22   1.460
           ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR07N.IN (file 60, run 1).                  *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 60, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3356  0.2679  0.0926        0.0868  0.0004  0.0015  0.2102  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.698   1.161   1.112   1.149   0.825  0.333   0.505   0.265    2.29   0.788
   Composite NOX :    0.635   0.944   1.137   0.993   3.303  1.039   1.180   9.432    1.49   2.850
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 60, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4075  0.3249  0.1123        0.0436  0.0005  0.0018  0.1054  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.698   1.161   1.112   1.149   0.825  0.333   0.505   0.264    2.29   0.861
   Composite NOX :    0.635   0.943   1.137   0.993   3.303  1.039   1.180   9.431    1.49   1.840
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 60, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4195  0.3359  0.1163        0.0354  0.0005  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.738   1.216   1.166   1.203   0.891  0.353   0.537   0.300    2.32   0.924
   Composite NOX :    0.614   0.910   1.102   0.960   3.061  0.828   0.939   6.878    1.27   1.397
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 60, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0281  0.0005  0.0019  0.0679  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.750   1.231   1.181   1.218   0.920  0.363   0.551   0.317    2.35   0.949
   Composite NOX :    0.609   0.902   1.093   0.951   2.995  0.800   0.906   6.633    1.26   1.247
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 60, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4325  0.3449  0.1202        0.0277  0.0005  0.0019  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.755   1.237   1.187   1.224   0.929  0.366   0.557   0.322    2.36   0.956
   Composite NOX :    0.607   0.898   1.090   0.948   2.969  0.789   0.894   6.544    1.26   1.234
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
```

```
* File 60, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4335  0.3469  0.1202        0.0266  0.0005  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.792   1.285   1.234   1.272   1.030  0.399   0.609   0.378    2.51   1.005
   Composite NOX :    0.608   0.894   1.086   0.943   2.819  0.772   0.876   6.401    1.21   1.201
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 60, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.3896  0.3109  0.1085        0.0541  0.0004  0.0017  0.1311  0.0037  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.698   1.161   1.112   1.148   0.825  0.333   0.503   0.264    2.29   0.843
   Composite NOX :    0.635   0.944   1.137   0.994   3.303  1.039   1.179   9.431    1.49   2.087
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 60, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4255  0.3379  0.1173        0.0333  0.0005  0.0019  0.0809  0.0028  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.712   1.181   1.131   1.168   0.844  0.338   0.513   0.274    2.29   0.892
   Composite NOX :    0.627   0.931   1.124   0.981   3.217  0.943   1.070   8.610    1.38   1.523
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 60, 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 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4385  0.3469  0.1202        0.0260  0.0005  0.0019  0.0630  0.0030  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.800   1.295   1.244   1.282   1.048  0.405   0.618   0.389    2.54   1.010
   Composite NOX :    0.611   0.897   1.090   0.946   2.797  0.774   0.877   6.417    1.20   1.192
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 60, 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 21.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4475  0.3559  0.1232        0.0196  0.0005  0.0020  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.923   1.455   1.406   1.442   1.379  0.499   0.766   0.550    2.96   1.171
   Composite NOX :    0.685   0.977   1.187   1.031   2.552  0.858   0.974   7.138    1.08   1.196
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 60, 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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4525  0.3589  0.1251        0.0170  0.0005  0.0020  0.0409  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.843   1.351   1.301   1.338   1.162  0.440   0.672   0.449    2.70   1.077
   Composite NOX :    0.636   0.922   1.121   0.974   2.685  0.795   0.901   6.595    1.15   1.080
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 60, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 21.0
      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

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:  0.4405  0.3500  0.1222        0.0231  0.0005  0.0020  0.0559  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.923   1.455   1.406   1.442   1.379  0.499   0.764   0.550    2.96   1.169
   Composite NOX :    0.685   0.977   1.187   1.031   2.552  0.858   0.973   7.141    1.08   1.256
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 60, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2007
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   33. 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:	0.3939	0.3270	0.1330		0.0379	0.0004	0.0021	0.1011	0.0046	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.855	1.359	1.315	1.346	1.009	0.390	0.575	0.366	2.46	1.044
Composite NOX :	0.713	1.050	1.269	1.113	2.858	0.770	0.857	6.199	1.22	1.536

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR10.IN (file 61, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 61, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3067  0.2890  0.1005        0.0868  0.0003  0.0015  0.2101  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.473   0.833   0.773   0.818   0.612  0.136   0.284   0.221    2.23   0.575
   Composite NOX :    0.402   0.659   0.791   0.693   2.059  0.421   0.685   6.079    1.49   1.858
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 61, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3717  0.3510  0.1222        0.0435  0.0003  0.0018  0.1053  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.473   0.833   0.773   0.818   0.612  0.136   0.284   0.221    2.23   0.622
   Composite NOX :    0.402   0.659   0.791   0.693   2.059  0.421   0.685   6.079    1.49   1.215
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 61, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3827  0.3630  0.1261        0.0354  0.0003  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.496   0.865   0.805   0.850   0.657  0.145   0.306   0.251    2.26   0.662
   Composite NOX :    0.387   0.634   0.764   0.668   1.909  0.335   0.544   4.498    1.27   0.935
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 61, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0281  0.0004  0.0019  0.0678  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.504   0.874   0.814   0.858   0.675  0.150   0.315   0.264    2.29   0.678
   Composite NOX :    0.383   0.628   0.757   0.661   1.867  0.323   0.525   4.342    1.26   0.837
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 61, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0019  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.507   0.877   0.817   0.862   0.682  0.151   0.319   0.269    2.30   0.683
   Composite NOX :    0.382   0.625   0.755   0.659   1.851  0.319   0.518   4.280    1.26   0.829
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 61, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.536   0.912   0.853   0.897   0.757  0.170   0.358   0.324    2.48   0.722
   Composite NOX :    0.384   0.624   0.754   0.657   1.743  0.313   0.508   4.198    1.20   0.809
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 61, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.3370  0.1173        0.0540  0.0003  0.0017  0.1309  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
```

```
   Composite VOC :    0.473   0.833   0.773   0.818   0.612  0.136   0.284   0.221    2.23   0.611
   Composite NOX :    0.402   0.659   0.791   0.693   2.059  0.421   0.685   6.082    1.49   1.372
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 61, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.482   0.848   0.787   0.832   0.628  0.139   0.291   0.231    2.23   0.644
   Composite NOX :    0.395   0.647   0.778   0.681   1.990  0.371   0.603   5.393    1.35   0.996
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 61, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3996  0.3760  0.1301        0.0260  0.0004  0.0019  0.0629  0.0031  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.564   0.948   0.889   0.933   0.829  0.186   0.394   0.375    2.63   0.752
   Composite NOX :    0.400   0.641   0.775   0.676   1.675  0.321   0.522   4.322    1.15   0.822
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 61, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.660   1.076   1.021   1.062   1.066  0.231   0.492   0.512    3.08   0.879
   Composite NOX :    0.456   0.707   0.855   0.745   1.551  0.367   0.597   4.943    1.04   0.843
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 61, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4126  0.3890  0.1350        0.0170  0.0004  0.0020  0.0408  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.586   0.977   0.918   0.962   0.887  0.199   0.422   0.413    2.75   0.787
   Composite NOX :    0.415   0.658   0.796   0.694   1.631  0.332   0.539   4.455    1.11   0.749
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 61, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.4016  0.3790  0.1321        0.0231  0.0004  0.0020  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.626   1.031   0.975   1.016   0.992  0.220   0.467   0.477    2.95   0.839
   Composite NOX :    0.440   0.688   0.832   0.725   1.575  0.353   0.574   4.755    1.06   0.857
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 61, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
```

```
          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:  0.3547  0.3543  0.1441        0.0382  0.0003  0.0021  0.1018  0.0045  1.0000
           ------------------
Composite Emission Factors (g/mi):
  Composite VOC :    0.569   0.950   0.895   0.934   0.735  0.163   0.340   0.306    2.40   0.738
  Composite NOX :    0.445   0.722   0.875   0.766   1.780  0.311   0.502   4.060    1.22   1.028
           ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR10N.IN (file 62, run 1).                  *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 62, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3067  0.2890  0.1005        0.0868  0.0003  0.0015  0.2101  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.535   0.923   0.863   0.908   0.612  0.136   0.284   0.221    2.23   0.629
   Composite NOX :    0.484   0.782   0.911   0.816   2.059  0.421   0.685   6.079    1.49   1.931
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 62, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3717  0.3510  0.1222        0.0435  0.0003  0.0018  0.1053  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.535   0.923   0.863   0.908   0.612  0.136   0.284   0.221    2.23   0.688
   Composite NOX :    0.484   0.782   0.911   0.816   2.059  0.421   0.685   6.079    1.49   1.303
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 62, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3827  0.3630  0.1261        0.0354  0.0003  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.564   0.963   0.903   0.948   0.657  0.145   0.306   0.251    2.26   0.736
   Composite NOX :    0.469   0.757   0.884   0.789   1.909  0.335   0.544   4.498    1.27   1.026
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 62, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0281  0.0004  0.0019  0.0678  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.573   0.974   0.914   0.959   0.675  0.150   0.315   0.264    2.29   0.755
   Composite NOX :    0.465   0.750   0.877   0.783   1.867  0.323   0.525   4.342    1.26   0.930
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 62, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3946  0.3730  0.1301        0.0278  0.0004  0.0019  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.576   0.978   0.919   0.963   0.682  0.151   0.319   0.269    2.30   0.761
   Composite NOX :    0.463   0.747   0.875   0.780   1.851  0.319   0.518   4.280    1.26   0.922
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
```

```
* File 62, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3956  0.3750  0.1301        0.0266  0.0004  0.0019  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.610   1.021   0.962   1.006   0.757  0.170   0.358   0.324    2.48   0.806
   Composite NOX :    0.467   0.746   0.875   0.779   1.743  0.313   0.508   4.198    1.20   0.903
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 62, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.3370  0.1173        0.0540  0.0003  0.0017  0.1309  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.535   0.923   0.863   0.908   0.612  0.136   0.284   0.221    2.23   0.674
   Composite NOX :    0.484   0.782   0.911   0.816   2.059  0.421   0.685   6.082    1.49   1.457
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 62, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3876  0.3660  0.1271        0.0333  0.0004  0.0019  0.0808  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.547   0.941   0.881   0.926   0.628  0.139   0.291   0.231    2.23   0.715
   Composite NOX :    0.477   0.770   0.898   0.803   1.990  0.371   0.603   5.393    1.35   1.088
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 62, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3996  0.3760  0.1301        0.0260  0.0004  0.0019  0.0629  0.0031  1.0000
```

```
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.642   1.063   1.006   1.048   0.829  0.186   0.394   0.375    2.63   0.841
   Composite NOX :    0.486   0.767   0.899   0.801   1.675  0.321   0.522   4.322    1.15   0.920
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 62, 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 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4076  0.3850  0.1340        0.0196  0.0004  0.0020  0.0475  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.754   1.213   1.160   1.200   1.066  0.231   0.492   0.512    3.08   0.988
   Composite NOX :    0.550   0.843   0.989   0.881   1.551  0.367   0.597   4.943    1.04   0.952
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 62, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4126  0.3890  0.1350        0.0170  0.0004  0.0020  0.0408  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.668   1.097   1.040   1.082   0.887  0.199   0.422   0.413    2.75   0.884
   Composite NOX :    0.502   0.786   0.922   0.821   1.631  0.332   0.539   4.455    1.11   0.852
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 62, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.4016  0.3790  0.1321        0.0231  0.0004  0.0020  0.0559  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.715   1.161   1.107   1.147   0.992  0.220   0.467   0.477    2.95   0.942
   Composite NOX :    0.531   0.821   0.962   0.857   1.575  0.353   0.574   4.755    1.06   0.961
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 62, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:	0.3547	0.3543	0.1441		0.0382	0.0003	0.0021	0.1018	0.0045	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.647	1.064	1.011	1.049	0.735	0.163	0.340	0.306	2.40	0.823
Composite NOX :	0.534	0.859	1.009	0.903	1.780	0.311	0.502	4.060	1.22	1.127

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR12.IN (file 63, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 63, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2907  0.3010  0.1045        0.0869  0.0003  0.0015  0.2101  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.375   0.702   0.649   0.688   0.537  0.088   0.218   0.199    2.23   0.488
   Composite NOX :    0.313   0.567   0.680   0.596   1.549  0.258   0.509   4.311    1.49   1.381
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 63, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3527  0.3650  0.1271        0.0436  0.0003  0.0019  0.1052  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.375   0.702   0.649   0.688   0.537  0.088   0.218   0.199    2.23   0.525
   Composite NOX :    0.313   0.567   0.679   0.596   1.549  0.258   0.509   4.314    1.49   0.933
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 63, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3627  0.3780  0.1311        0.0354  0.0003  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.392   0.725   0.672   0.711   0.574  0.094   0.235   0.225    2.26   0.556
   Composite NOX :    0.301   0.547   0.657   0.575   1.436  0.205   0.404   3.198    1.27   0.734
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 63, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0281  0.0003  0.0020  0.0678  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.398   0.731   0.679   0.718   0.589  0.097   0.243   0.238    2.29   0.567
   Composite NOX :    0.298   0.542   0.652   0.570   1.405  0.198   0.390   3.088    1.26   0.665
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 63, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.400   0.734   0.681   0.720   0.594  0.099   0.246   0.242    2.30   0.571
   Composite NOX :    0.297   0.540   0.650   0.568   1.393  0.195   0.385   3.044    1.26   0.659
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 63, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.422   0.760   0.709   0.747   0.654  0.111   0.277   0.292    2.48   0.602
   Composite NOX :    0.298   0.538   0.649   0.566   1.312  0.191   0.377   2.986    1.20   0.645
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 63, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3377  0.3501  0.1212        0.0541  0.0003  0.0018  0.1308  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.375   0.702   0.649   0.688   0.537  0.088   0.218   0.199    2.23   0.515
   Composite NOX :    0.313   0.567   0.679   0.596   1.549  0.258   0.509   4.314    1.49   1.042
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 63, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3677  0.3810  0.1321        0.0334  0.0003  0.0019  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.381   0.712   0.659   0.698   0.550  0.090   0.224   0.207    2.23   0.541
   Composite NOX :    0.307   0.558   0.669   0.586   1.497  0.227   0.448   3.827    1.35   0.777
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 63, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.444   0.787   0.737   0.774   0.712  0.122   0.306   0.337    2.63   0.624
   Composite NOX :    0.312   0.553   0.667   0.582   1.260  0.197   0.388   3.068    1.15   0.655
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 63, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3867  0.4010  0.1390        0.0196  0.0003  0.0020  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.520   0.888   0.844   0.877   0.901  0.154   0.384   0.460    3.08   0.727
   Composite NOX :    0.355   0.607   0.734   0.639   1.167  0.225   0.443   3.512    1.04   0.677
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 63, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3907  0.4050  0.1409        0.0170  0.0003  0.0021  0.0408  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.461   0.809   0.761   0.797   0.758  0.131   0.328   0.371    2.75   0.653
   Composite NOX :    0.323   0.566   0.684   0.597   1.227  0.203   0.400   3.167    1.11   0.606
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 63, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.492   0.851   0.805   0.840   0.842  0.146   0.364   0.429    2.95   0.695
   Composite NOX :    0.343   0.591   0.714   0.622   1.185  0.216   0.427   3.377    1.06   0.685
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 63, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3340  0.3687  0.1500        0.0383  0.0003  0.0022  0.1021  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.446   0.788   0.742   0.775   0.637  0.106   0.265   0.275    2.40   0.615
   Composite NOX :    0.343   0.616   0.753   0.656   1.338  0.190   0.375   2.856    1.22   0.804
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR12N.IN (file 64, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   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 interstate
* File 64, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2907  0.3010  0.1045        0.0869  0.0003  0.0015  0.2101  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.441   0.801   0.747   0.787   0.537  0.088   0.218   0.199    2.23   0.547
   Composite NOX :    0.402   0.704   0.811   0.731   1.549  0.258   0.509   4.311    1.49   1.462
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 64, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3527  0.3650  0.1271        0.0436  0.0003  0.0019  0.1052  0.0042  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.441   0.801   0.747   0.787   0.537  0.088   0.218   0.199    2.23   0.597
   Composite NOX :    0.402   0.704   0.811   0.732   1.549  0.258   0.509   4.314    1.49   1.031
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 64, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3627  0.3780  0.1311        0.0354  0.0003  0.0019  0.0856  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.464   0.832   0.779   0.819   0.574  0.094   0.235   0.225    2.26   0.636
   Composite NOX :    0.390   0.682   0.788   0.709   1.436  0.205   0.404   3.198    1.27   0.834
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 64, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0281  0.0003  0.0020  0.0678  0.0041  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.471   0.841   0.789   0.828   0.589  0.097   0.243   0.238    2.29   0.652
   Composite NOX :    0.387   0.676   0.783   0.704   1.405  0.198   0.390   3.088    1.26   0.768
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 64, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3747  0.3880  0.1350        0.0278  0.0003  0.0020  0.0672  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.474   0.844   0.792   0.831   0.594  0.099   0.246   0.242    2.30   0.657
   Composite NOX :    0.385   0.674   0.781   0.701   1.393  0.195   0.385   3.044    1.26   0.762
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 64, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3757  0.3900  0.1350        0.0266  0.0003  0.0020  0.0645  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.502   0.878   0.828   0.865   0.654  0.111   0.277   0.292    2.48   0.694
   Composite NOX :    0.388   0.673   0.781   0.701   1.312  0.191   0.377   2.986    1.20   0.749
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 64, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3377  0.3501  0.1212        0.0541  0.0003  0.0018  0.1308  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.441   0.801   0.747   0.787   0.537  0.088   0.218   0.199    2.23   0.584
   Composite NOX :    0.402   0.704   0.811   0.731   1.549  0.258   0.509   4.314    1.49   1.136
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 64, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3677  0.3810  0.1321        0.0334  0.0003  0.0019  0.0806  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.450   0.815   0.762   0.801   0.550  0.090   0.224   0.207    2.23   0.619
   Composite NOX :    0.396   0.693   0.800   0.721   1.497  0.227   0.448   3.827    1.35   0.879
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 64, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3787  0.3910  0.1360        0.0260  0.0003  0.0020  0.0630  0.0030  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.528   0.913   0.864   0.900   0.712  0.122   0.306   0.337    2.63   0.723
   Composite NOX :    0.404   0.691   0.802   0.720   1.260  0.197   0.388   3.068    1.15   0.762
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 64, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3867  0.4010  0.1390        0.0196  0.0003  0.0020  0.0474  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.619   1.037   0.995   1.026   0.901  0.154   0.384   0.460    3.08   0.846
   Composite NOX :    0.458   0.757   0.880   0.788   1.167  0.225   0.443   3.512    1.04   0.797
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 64, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3907  0.4050  0.1409        0.0170  0.0003  0.0021  0.0408  0.0032  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.548   0.940   0.893   0.928   0.758  0.131   0.328   0.371    2.75   0.758
   Composite NOX :    0.418   0.708   0.822   0.737   1.227  0.203   0.400   3.167    1.11   0.720
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 64, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3817  0.3940  0.1370        0.0231  0.0003  0.0020  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.587   0.993   0.949   0.982   0.842  0.146   0.364   0.429    2.95   0.807
   Composite NOX :    0.442   0.737   0.857   0.768   1.185  0.216   0.427   3.377    1.06   0.800
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
```

```
* File 64, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2012
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3340  0.3687  0.1500        0.0383  0.0003  0.0022  0.1021  0.0044  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.530   0.914   0.869   0.901   0.637  0.106   0.265   0.275    2.40   0.708
   Composite NOX :    0.441   0.769   0.901   0.807   1.338  0.190   0.375   2.856    1.22   0.915
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR15.IN (file 65, run 1).                    *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 65, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.2728  0.3140  0.1094        0.0867  0.0002  0.0016  0.2104  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.292   0.573   0.536   0.563   0.439  0.071   0.182   0.179    2.23   0.405
   Composite NOX :    0.220   0.425   0.527   0.451   1.016  0.153   0.377   2.544    1.49   0.882
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 65, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3317  0.3810  0.1320        0.0435  0.0003  0.0020  0.1055  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.292   0.573   0.536   0.563   0.439  0.071   0.182   0.179    2.23   0.433
   Composite NOX :    0.220   0.425   0.526   0.451   1.016  0.153   0.377   2.544    1.49   0.624
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 65, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3407  0.3940  0.1370        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.305   0.588   0.554   0.579   0.469  0.077   0.195   0.203    2.26   0.457
   Composite NOX :    0.211   0.409   0.509   0.435   0.942  0.122   0.299   1.896    1.27   0.506
```

```
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 65, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.310   0.593   0.559   0.584   0.481  0.079   0.202   0.214    2.29   0.466
   Composite NOX :    0.209   0.405   0.504   0.431   0.921  0.118   0.289   1.829    1.26   0.464
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 65, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3517  0.4050  0.1409        0.0277  0.0003  0.0021  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.312   0.595   0.561   0.586   0.486  0.080   0.204   0.218    2.30   0.470
   Composite NOX :    0.208   0.403   0.502   0.429   0.914  0.116   0.285   1.803    1.26   0.461
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 65, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.330   0.614   0.583   0.606   0.535  0.090   0.229   0.263    2.48   0.495
   Composite NOX :    0.209   0.402   0.501   0.428   0.860  0.114   0.279   1.768    1.20   0.453
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 65, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
```

```
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3157  0.3660  0.1271        0.0540  0.0003  0.0019  0.1310  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.292   0.573   0.536   0.563   0.439  0.071   0.182   0.179    2.23   0.426
   Composite NOX :    0.220   0.425   0.526   0.451   1.016  0.153   0.377   2.545    1.49   0.687
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 65, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3447  0.3980  0.1380        0.0332  0.0003  0.0020  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.297   0.579   0.544   0.570   0.450  0.073   0.187   0.187    2.23   0.445
   Composite NOX :    0.216   0.418   0.518   0.444   0.982  0.135   0.332   2.255    1.35   0.532
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 65, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3547  0.4090  0.1419        0.0260  0.0003  0.0021  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.348   0.636   0.606   0.628   0.582  0.099   0.251   0.304    2.63   0.512
   Composite NOX :    0.219   0.413   0.516   0.439   0.827  0.117   0.287   1.820    1.15   0.460
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 65, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.409   0.716   0.694   0.711   0.734  0.123   0.313   0.415    3.08   0.596
   Composite NOX :    0.251   0.453   0.567   0.482   0.766  0.134   0.328   2.084    1.04   0.482
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 65, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3657  0.4240  0.1468        0.0169  0.0003  0.0022  0.0408  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.361   0.654   0.625   0.646   0.619  0.105   0.269   0.335    2.75   0.535
   Composite NOX :    0.227   0.423   0.529   0.450   0.805  0.121   0.296   1.876    1.11   0.435
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 65, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3577  0.4120  0.1429        0.0231  0.0003  0.0021  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.386   0.686   0.661   0.680   0.686  0.117   0.298   0.387    2.95   0.571
   Composite NOX :    0.241   0.441   0.552   0.470   0.777  0.129   0.316   2.003    1.06   0.484
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 65, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            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:  0.3100  0.3852  0.1567        0.0384  0.0003  0.0023  0.1028  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.344   0.633   0.607   0.625   0.522  0.086   0.219   0.248    2.40   0.502
   Composite NOX :    0.236   0.454   0.583   0.491   0.877  0.113   0.278   1.714    1.22   0.555
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: FOR15N.IN (file 66, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: TRIADAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 66, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.2728  0.3140  0.1094        0.0867  0.0002  0.0016  0.2104  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.359   0.675   0.636   0.665   0.439  0.071   0.182   0.179    2.23   0.466
   Composite NOX :    0.313   0.571   0.667   0.596   1.016  0.153   0.377   2.544    1.49   0.969
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial
* File 66, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3317  0.3810  0.1320        0.0435  0.0003  0.0020  0.1055  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.359   0.675   0.636   0.665   0.439  0.071   0.182   0.179    2.23   0.507
   Composite NOX :    0.313   0.571   0.667   0.596   1.016  0.153   0.377   2.544    1.49   0.729
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial
* File 66, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3407  0.3940  0.1370        0.0353  0.0003  0.0020  0.0857  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.377   0.699   0.663   0.689   0.469  0.077   0.195   0.203    2.26   0.540
   Composite NOX :    0.303   0.553   0.648   0.578   0.942  0.122   0.299   1.896    1.27   0.613
            ------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 66, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0280  0.0003  0.0021  0.0680  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.383   0.705   0.670   0.696   0.481  0.079   0.202   0.214    2.29   0.553
   Composite NOX :    0.301   0.548   0.643   0.573   0.921  0.118   0.289   1.829    1.26   0.574
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 66, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3517  0.4050  0.1409        0.0277  0.0003  0.0021  0.0672  0.0051  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.386   0.708   0.673   0.699   0.486  0.080   0.204   0.218    2.30   0.558
   Composite NOX :    0.300   0.547   0.641   0.571   0.914  0.116   0.285   1.803    1.26   0.571
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 66, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3527  0.4070  0.1409        0.0265  0.0003  0.0021  0.0644  0.0061  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.409   0.735   0.703   0.727   0.535  0.090   0.229   0.263    2.48   0.589
   Composite NOX :    0.302   0.546   0.641   0.570   0.860  0.114   0.279   1.768    1.20   0.564
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate
* File 66, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban interstate 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3157  0.3660  0.1271        0.0540  0.0003  0.0019  0.1310  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.359   0.675   0.636   0.665   0.439  0.071   0.182   0.179    2.23   0.498
   Composite NOX :    0.313   0.571   0.667   0.596   1.016  0.153   0.377   2.545    1.49   0.788
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway
* File 66, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 50.0
      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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3447  0.3980  0.1380        0.0332  0.0003  0.0020  0.0809  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.366   0.685   0.648   0.676   0.450  0.073   0.187   0.187    2.23   0.525
   Composite NOX :    0.308   0.563   0.658   0.587   0.982  0.135   0.332   2.255    1.35   0.641
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial
* File 66, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
```

```
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3547  0.4090  0.1419        0.0260  0.0003  0.0021  0.0631  0.0029  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.431   0.763   0.734   0.756   0.582  0.099   0.251   0.304    2.63   0.612
   Composite NOX :    0.315   0.560   0.659   0.586   0.827  0.117   0.287   1.820    1.15   0.575
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial
* File 66, 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 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3617  0.4190  0.1458        0.0195  0.0003  0.0022  0.0475  0.0040  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.508   0.868   0.846   0.862   0.734  0.123   0.313   0.415    3.08   0.718
   Composite NOX :    0.357   0.614   0.723   0.642   0.766  0.134   0.328   2.084    1.04   0.611
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector
* File 66, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3657  0.4240  0.1468        0.0169  0.0003  0.0022  0.0408  0.0033  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.448   0.786   0.758   0.779   0.619  0.105   0.269   0.335    2.75   0.642
   Composite NOX :    0.326   0.574   0.675   0.600   0.805  0.121   0.296   1.876    1.11   0.556
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local
* File 66, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3577  0.4120  0.1429        0.0231  0.0003  0.0021  0.0560  0.0059  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.480   0.830   0.806   0.824   0.686  0.117   0.298   0.387    2.95   0.685
   Composite NOX :    0.345   0.598   0.704   0.625   0.777  0.129   0.316   2.003    1.06   0.607
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
```

```
* File 66, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b
  M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2015
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  89.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:   30. 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:  0.3100  0.3852  0.1567        0.0384  0.0003  0.0023  0.1028  0.0043  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    0.427   0.761   0.736   0.754   0.522  0.086   0.219   0.248    2.40   0.598
   Composite NOX :    0.339   0.619   0.742   0.655   0.877  0.113   0.278   1.714    1.22   0.676
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: GRAM00.IN (file 67, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)
* IDLE Annual I/M program no exemption

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 67, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 64.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4054  0.2158  0.0749        0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.126   1.610   1.462   1.572   1.213  0.573   0.750   0.387    2.96   1.117
   Composite NOX :    1.098   1.360   1.408   1.372   5.860  2.522   2.599  27.120    1.71   7.048
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 67, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
```

```
  M583 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.174   1.703   1.544   1.661   1.374  0.629   0.818   0.464    2.40   1.319
   Composite NOX :    1.030   1.263   1.314   1.276   5.047  1.415   1.457  13.799    1.24   2.103
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 67, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.159   1.683   1.526   1.642   1.313  0.608   0.795   0.435    2.37   1.301
   Composite NOX :    1.041   1.280   1.330   1.293   5.193  1.494   1.540  14.420    1.27   2.150
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 67, Run 1, Scenario 4.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.152   1.672   1.517   1.632   1.291  0.599   0.784   0.424    2.36   1.297
   Composite NOX :    1.047   1.288   1.338   1.301   5.269  1.552   1.600  14.875    1.30   2.147
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 67, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.450   2.004   1.827   1.953   1.541  0.685   0.841   0.548    2.53   1.560
   Composite NOX :    1.249   1.550   1.605   1.566   4.783  1.345   1.349  10.050    1.20   2.347
            ------------------
```

```
*************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: GRAM00N.IN (file 68, run 1).                 *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 68, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 64.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4054  0.2158  0.0749        0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.210   1.748   1.531   1.692   1.247  0.573   0.750   0.387    2.96   1.189
   Composite NOX :    1.111   1.382   1.422   1.392   5.920  2.522   2.599  27.120    1.71   7.065
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 68, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.274   1.856   1.624   1.796   1.415  0.629   0.818   0.464    2.40   1.422
   Composite NOX :    1.044   1.285   1.327   1.296   5.099  1.415   1.457  13.799    1.24   2.119
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 68, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.255   1.833   1.604   1.774   1.351  0.608   0.795   0.435    2.37   1.402
   Composite NOX :    1.055   1.301   1.344   1.312   5.246  1.494   1.540  14.420    1.27   2.166
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 68, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.247   1.821   1.594   1.763   1.327  0.599   0.784   0.424    2.36   1.397
   Composite NOX :    1.061   1.310   1.352   1.321   5.323  1.552   1.600  14.875    1.30   2.163
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 68, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.563   2.172   1.917   2.098   1.595  0.685   0.841   0.548    2.53   1.671
   Composite NOX :    1.264   1.574   1.620   1.587   4.832  1.345   1.349  10.050    1.20   2.364
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: GROP00.IN (file 71, run 1).                  *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)
* IDLE Annual I/M program no exemption

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 71, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 64.0
      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.
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4054  0.2158  0.0749        0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.126   1.610   1.462   1.572   1.213  0.573   0.750   0.387    2.96   1.117
   Composite NOX :    1.098   1.360   1.408   1.372   5.860  2.522   2.599  27.120    1.71   7.048
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 71, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
```

```
  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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.170   1.698   1.539   1.656   1.357  0.623   0.811   0.456    2.39   1.314
   Composite NOX :    1.033   1.267   1.318   1.280   5.084  1.432   1.474  13.928    1.25   2.116
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 71, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.159   1.683   1.526   1.642   1.313  0.608   0.795   0.435    2.37   1.301
   Composite NOX :    1.041   1.280   1.330   1.293   5.193  1.494   1.540  14.420    1.27   2.150
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 71, Run 1, Scenario 4.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 47.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.155   1.677   1.521   1.637   1.302  0.603   0.790   0.429    2.37   1.302
   Composite NOX :    1.044   1.284   1.334   1.297   5.232  1.523   1.571  14.654    1.29   2.128
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 71, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   7.8 psi
          Weathered RVP:   7.5 psi
        Fuel Sulfur Content:  300. ppm

        Exhaust I/M Program:  Yes
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.450   2.004   1.827   1.953   1.541  0.685   0.841   0.548    2.53   1.560
   Composite NOX :    1.249   1.550   1.605   1.566   4.783  1.345   1.349  10.050    1.20   2.347
            ------------------
```

```
*****************************************************************************
* MOBILE6.2.01 (31-Oct-2002)                          *
* Input file: GROP00N.IN (file 72, run 1).                *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: WAKEAGE.PRN
  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:
         1.00   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)
  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:
         1.00   MYR sum not = 1. (will normalize)
  M 49 Warning:
         1.00   MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate
* File 72, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
  M615 Comment:
         User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 64.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4054  0.2158  0.0749        0.0877  0.0006  0.0013  0.2093  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.210   1.748   1.531   1.692   1.247  0.573   0.750   0.387    2.96   1.189
   Composite NOX :    1.111   1.382   1.422   1.392   5.920  2.522   2.599  27.120    1.71   7.065
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector
* File 72, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds
  M615 Comment:
         User supplied VMT mix.
  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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2787  0.0976        0.0284  0.0008  0.0017  0.0677  0.0039  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.269   1.850   1.619   1.790   1.398  0.623   0.811   0.456    2.39   1.417
   Composite NOX :    1.047   1.289   1.332   1.300   5.136  1.432   1.474  13.928    1.25   2.132
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector
* File 72, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5222  0.2787  0.0966        0.0280  0.0008  0.0017  0.0670  0.0050  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.255   1.833   1.604   1.774   1.351  0.608   0.795   0.435    2.37   1.402
   Composite NOX :    1.055   1.301   1.344   1.312   5.246  1.494   1.540  14.420    1.27   2.166
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local
* File 72, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
  M615 Comment:
```

```
        User supplied VMT mix.
  M583 Warning:
      The user supplied arterial average speed of 47.0
      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

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.5212  0.2817  0.0976        0.0268  0.0008  0.0017  0.0642  0.0060  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.251   1.827   1.599   1.768   1.339  0.603   0.790   0.429    2.37   1.402
   Composite NOX :    1.058   1.306   1.348   1.317   5.285  1.523   1.571  14.654    1.29   2.144
            ------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps
* File 72, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Ramps using default data
  M586 Warning:
      100% of VMT has been assigned to the freeway ramp
      roadway type for all hours of the day for all
      vehicle types with an average speed of 34.6 mph.
  M 48 Warning:
        there are no sales for vehicle class HDGV8b

          Calendar Year:  2000
              Month:  July
             Altitude:  Low
        Minimum Temperature:  66.0 (F)
        Maximum Temperature:  91.0 (F)
        Absolute Humidity:   75. grains/lb
         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:  0.4812  0.2680  0.1104        0.0365  0.0007  0.0019  0.0964  0.0049  1.0000
            ------------------
 Composite Emission Factors (g/mi):
   Composite VOC :    1.563   2.172   1.917   2.098   1.595  0.685   0.841   0.548    2.53   1.671
   Composite NOX :    1.264   1.574   1.620   1.587   4.832  1.345   1.349  10.050    1.20   2.364
            ------------------
```