Mobile6.2

Input

File

```
* Filename:  d:\Mobile62\Ky_M62\Christ\02Chris4.in

* This input file is a MOBILE6.2 run for the 8-hour ozone designations that EPA will be
* be considering.  This is for Christian County.  The years will be 2002, 2004, 2007, 2010,
* 2013, and 2016.

* This input file contains specific local VMT Fraction data, provided by TN, to better
* represent the Clarksvile-Hopkinsville area.  KYTC staff coordinated with the Clarksville
* MPO and Dr. Terry Miller, professor at University of Tennessee, to incorporate the appropriate
* VMT Fractions based on Road Classification and year.

* NOTE:  For some Road Classifications, there are no DVMT.  The lowest speed that the
* MOBILE6 model accepts is 2.5 mph.  For these Road Classifications, 2.5 mph is indicated
* simply to make the model run.  These corresponding emission factors will not influence
* the emission total because DVMT = 0 for that Road Classification.

* According to the EPA document, "Technical Guidance on the Use of MOBILE6.2 for Emission
* Inventory Preparation" (August 2004), Kentucky has amended the standard MOBILE6.2 input
* file to reflect three modifications relating to highway mobile source emission calculations.
* The modifications are:  (1) Do not include Ramp as a single Road Classification entry,
* (2) for Rural Local, change Local in the Average Speed line to Arterial and use KYTC's actual
* Rural Local speed and not 12.9 mph, and (3) replace the Diesel Sulfur value of 500 ppm with a
* state-specific value provided on an EPA web link.

******************************     Header Section     *******************************
MOBILE6 INPUT FILE :
REPORT FILE        : d:\Mobile62\Ky_M62\Christ\02Chris4.out
RUN DATA

*******************************     Run Section     ********************************

FUEL RVP           : 8.6
MIN/MAX TEMP       : 67.0 94.0


******************************    Scenario Section    *******************************

SCENARIO RECORD    : Christian              Rural Interstate 70.7 mph - CY2002
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
AVERAGE SPEED      : 70.7 Freeway 98.5 0.0 0.0 1.5
VMT FRACTIONS      :
 0.3283 0.0498 0.1660 0.0505 0.0242 0.0270 0.0050 0.0039
 0.0030 0.0111 0.0132 0.0680 0.2420 0.0026 0.0012 0.0042

SCENARIO RECORD    : Christian              Rural Principal Arterial 55.0 mph - CY2002
DIESEL SULFUR      : 323.00
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CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 55.0 Arterial
VMT FRACTIONS       :
 0.4768 0.0723 0.2411 0.0733 0.0352 0.0392 0.0038 0.0029
 0.0022 0.0084 0.0099 0.0057 0.0203 0.0019 0.0009 0.0061

SCENARIO RECORD     : Christian                Rural Minor Arterial 51.1 mph - CY2002
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 51.1 Arterial
VMT FRACTIONS       :
 0.4768 0.0723 0.2411 0.0733 0.0352 0.0392 0.0038 0.0029
 0.0022 0.0084 0.0099 0.0057 0.0203 0.0019 0.0009 0.0061

SCENARIO RECORD     : Christian                Rural Major Collector 54.1 mph - CY2002
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 54.1 Arterial
VMT FRACTIONS       :
 0.4798 0.0728 0.2426 0.0737 0.0354 0.0395 0.0049 0.0038
 0.0029 0.0109 0.0128 0.0024 0.0086 0.0025 0.0012 0.0062

SCENARIO RECORD     : Christian                Rural Minor Collector 47.1 mph - CY2002
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 47.1 Arterial
VMT FRACTIONS       :
 0.4798 0.0728 0.2426 0.0737 0.0354 0.0395 0.0049 0.0038
 0.0029 0.0109 0.0128 0.0024 0.0086 0.0025 0.0012 0.0062

SCENARIO RECORD     : Christian                Rural Local 36.1 mph Default - CY2002
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 36.1 Arterial
VMT FRACTIONS       :
 0.4798 0.0728 0.2426 0.0737 0.0354 0.0395 0.0049 0.0038
 0.0029 0.0109 0.0128 0.0024 0.0086 0.0025 0.0012 0.0062


* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.

SCENARIO RECORD     : Christian                Urban Interstate 72.0 mph - CY2002
DIESEL SULFUR       : 323.00
```

```
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 72.0 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS       :
 0.3697 0.0561 0.1869 0.0568 0.0273 0.0304 0.0040 0.0031
 0.0024 0.0089 0.0106 0.0517 0.1843 0.0020 0.0010 0.0048

SCENARIO RECORD     : Christian               Urban Freeway 72.8 mph - CY2002
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 72.8 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS       :
 0.4798 0.0728 0.2426 0.0737 0.0354 0.0395 0.0036 0.0028
 0.0022 0.0081 0.0096 0.0046 0.0164 0.0018 0.0009 0.0062

SCENARIO RECORD     : Christian               Urban Principal Arterial 35.7 mph - CY2002
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 35.7 Arterial
VMT FRACTIONS       :
 0.4798 0.0728 0.2426 0.0737 0.0354 0.0395 0.0036 0.0028
 0.0022 0.0081 0.0096 0.0046 0.0164 0.0018 0.0009 0.0062

SCENARIO RECORD     : Christian               Urban Minor Arterial 31.0 mph - CY2002
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 31.0 Arterial
VMT FRACTIONS       :
 0.4798 0.0728 0.2426 0.0737 0.0354 0.0395 0.0036 0.0028
 0.0022 0.0081 0.0096 0.0046 0.0164 0.0018 0.0009 0.0062

SCENARIO RECORD     : Christian               Urban Collector 28.8 mph - CY2002
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 28.8 Arterial
VMT FRACTIONS       :
 0.4833 0.0733 0.2444 0.0743 0.0357 0.0398 0.0040 0.0031
 0.0024 0.0089 0.0106 0.0024 0.0086 0.0020 0.0010 0.0062

SCENARIO RECORD     : Christian               Urban Local 12.9 mph Default - CY2002
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2002
EVALUATION MONTH    : 7
AVERAGE SPEED       : 12.9 Local
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VMT FRACTIONS       :
 0.4833 0.0733 0.2444 0.0743 0.0357 0.0398 0.0040 0.0031
 0.0024 0.0089 0.0106 0.0024 0.0086 0.0020 0.0010 0.0062

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.


SCENARIO RECORD     : Christian                Rural Interstate 70.7 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 70.7 Freeway 98.5 0.0 0.0 1.5
VMT FRACTIONS       :
 0.3087 0.0531 0.1771 0.0538 0.0258 0.0273 0.0050 0.0039
 0.0030 0.0112 0.0132 0.0680 0.2421 0.0025 0.0012 0.0041

SCENARIO RECORD     : Christian                Rural Principal Arterial 55.0 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 55.0 Arterial
VMT FRACTIONS       :
 0.4484 0.0772 0.2572 0.0781 0.0375 0.0396 0.0037 0.0030
 0.0023 0.0084 0.0099 0.0057 0.0203 0.0019 0.0009 0.0059

SCENARIO RECORD     : Christian                Rural Minor Arterial 51.1 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 51.1 Arterial
VMT FRACTIONS       :
 0.4484 0.0772 0.2572 0.0781 0.0375 0.0396 0.0037 0.0030
 0.0023 0.0084 0.0099 0.0057 0.0203 0.0019 0.0009 0.0059

SCENARIO RECORD     : Christian                Rural Major Collector 54.1 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 54.1 Arterial
VMT FRACTIONS       :
 0.4512 0.0777 0.2588 0.0786 0.0379 0.0399 0.0048 0.0038
 0.0029 0.0109 0.0128 0.0024 0.0086 0.0025 0.0012 0.0060

SCENARIO RECORD     : Christian                Rural Minor Collector 47.1 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 47.1 Arterial
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VMT FRACTIONS       :
 0.4512 0.0777 0.2588 0.0786 0.0379 0.0399 0.0048 0.0038
 0.0029 0.0109 0.0128 0.0024 0.0086 0.0025 0.0012 0.0060

SCENARIO RECORD     : Christian                Rural Local 36.1 mph Default - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 36.1 Arterial
VMT FRACTIONS       :
 0.4512 0.0777 0.2588 0.0786 0.0379 0.0399 0.0048 0.0038
 0.0029 0.0109 0.0128 0.0024 0.0086 0.0025 0.0012 0.0060

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.

SCENARIO RECORD     : Christian                Urban Interstate 72.0 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 72.0 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS       :
 0.3477 0.0599 0.1994 0.0606 0.0291 0.0307 0.0040 0.0032
 0.0024 0.0089 0.0105 0.0517 0.1843 0.0020 0.0010 0.0046

SCENARIO RECORD     : Christian                Urban Freeway 72.8 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 72.8 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS       :
 0.4512 0.0777 0.2588 0.0786 0.0378 0.0399 0.0036 0.0029
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0060

SCENARIO RECORD     : Christian                Urban Principal Arterial 35.7 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 35.7 Arterial
VMT FRACTIONS       :
 0.4512 0.0777 0.2588 0.0786 0.0378 0.0399 0.0036 0.0029
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0060

SCENARIO RECORD     : Christian                Urban Minor Arterial 31.0 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 31.0 Arterial
VMT FRACTIONS       :
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 0.4512 0.0777 0.2588 0.0786 0.0378 0.0399 0.0036 0.0029
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0060

SCENARIO RECORD     : Christian              Urban Collector 28.8 mph - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 28.8 Arterial
VMT FRACTIONS       :
 0.4545 0.0782 0.2607 0.0792 0.0381 0.0402 0.0040 0.0032
 0.0024 0.0089 0.0106 0.0024 0.0086 0.0020 0.0010 0.0060

SCENARIO RECORD     : Christian              Urban Local 12.9 mph Default - CY2004
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2004
EVALUATION MONTH    : 7
AVERAGE SPEED       : 12.9 Local
VMT FRACTIONS       :
 0.4545 0.0782 0.2607 0.0792 0.0381 0.0402 0.0040 0.0032
 0.0024 0.0089 0.0106 0.0024 0.0086 0.0020 0.0010 0.0060

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.


SCENARIO RECORD     : Christian              Rural Interstate 70.7 mph - CY2007
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2007
EVALUATION MONTH    : 7
AVERAGE SPEED       : 70.7 Freeway 98.5 0.0 0.0 1.5
VMT FRACTIONS       :
 0.2797 0.0581 0.1936 0.0588 0.0283 0.0274 0.0050 0.0040
 0.0030 0.0112 0.0132 0.0680 0.2421 0.0025 0.0012 0.0039

SCENARIO RECORD     : Christian              Rural Principal Arterial 55.0 mph - CY2007
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2007
EVALUATION MONTH    : 7
AVERAGE SPEED       : 55.0 Arterial
VMT FRACTIONS       :
 0.4063 0.0844 0.2812 0.0854 0.0411 0.0398 0.0037 0.0030
 0.0023 0.0084 0.0099 0.0057 0.0203 0.0019 0.0009 0.0057

SCENARIO RECORD     : Christian              Rural Minor Arterial 51.1 mph - CY2007
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2007
EVALUATION MONTH    : 7
AVERAGE SPEED       : 51.1 Arterial
VMT FRACTIONS       :
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```
 0.4063 0.0844 0.2812 0.0854 0.0411 0.0398 0.0037 0.0030
 0.0023 0.0084 0.0099 0.0057 0.0203 0.0019 0.0009 0.0057

SCENARIO RECORD    : Christian              Rural Major Collector 54.1 mph - CY2007
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2007
EVALUATION MONTH   : 7
AVERAGE SPEED      : 54.1 Arterial
VMT FRACTIONS      :
 0.4088 0.0850 0.2830 0.0859 0.0414 0.0401 0.0048 0.0039
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0025 0.0012 0.0057

SCENARIO RECORD    : Christian              Rural Minor Collector 47.1 mph - CY2007
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2007
EVALUATION MONTH   : 7
AVERAGE SPEED      : 47.1 Arterial
VMT FRACTIONS      :
 0.4088 0.0850 0.2830 0.0859 0.0414 0.0401 0.0048 0.0039
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0025 0.0012 0.0057

SCENARIO RECORD    : Christian              Rural Local 36.1 mph Default - CY2007
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2007
EVALUATION MONTH   : 7
AVERAGE SPEED      : 36.1 Arterial
VMT FRACTIONS      :
 0.4088 0.0850 0.2830 0.0859 0.0414 0.0401 0.0048 0.0039
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0025 0.0012 0.0057

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.


SCENARIO RECORD    : Christian              Urban Interstate 72.0 mph - CY2007
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2007
EVALUATION MONTH   : 7
AVERAGE SPEED      : 72.0 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS      :
 0.3150 0.0655 0.2181 0.0662 0.0319 0.0309 0.0039 0.0032
 0.0024 0.0090 0.0105 0.0517 0.1843 0.0020 0.0010 0.0044

SCENARIO RECORD    : Christian              Urban Freeway 72.8 mph - CY2007
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2007
EVALUATION MONTH   : 7
AVERAGE SPEED      : 72.8 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS      :
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```
 0.4088 0.0850 0.2830 0.0860 0.0414 0.0401 0.0036 0.0029
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0057

SCENARIO RECORD     : Christian              Urban Principal Arterial 35.7 mph - CY2007
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2007
EVALUATION MONTH    : 7
AVERAGE SPEED       : 35.7 Arterial
VMT FRACTIONS       :
 0.4088 0.0850 0.2830 0.0860 0.0414 0.0401 0.0036 0.0029
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0057

SCENARIO RECORD     : Christian              Urban Minor Arterial 31.0 mph - CY2007
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2007
EVALUATION MONTH    : 7
AVERAGE SPEED       : 31.0 Arterial
VMT FRACTIONS       :
 0.4088 0.0850 0.2830 0.0860 0.0414 0.0401 0.0036 0.0029
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0057

SCENARIO RECORD     : Christian              Urban Collector 28.8 mph - CY2007
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2007
EVALUATION MONTH    : 7
AVERAGE SPEED       : 28.8 Arterial
VMT FRACTIONS       :
 0.4119 0.0856 0.2851 0.0866 0.0417 0.0404 0.0039 0.0032
 0.0024 0.0089 0.0105 0.0024 0.0086 0.0020 0.0010 0.0058

SCENARIO RECORD     : Christian              Urban Local 12.9 mph Default - CY2007
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2007
EVALUATION MONTH    : 7
AVERAGE SPEED       : 12.9 Local
VMT FRACTIONS       :
 0.4119 0.0856 0.2851 0.0866 0.0417 0.0404 0.0039 0.0032
 0.0024 0.0089 0.0105 0.0024 0.0086 0.0020 0.0010 0.0058

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.


SCENARIO RECORD     : Christian              Rural Interstate 70.7 mph - CY2010
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2010
EVALUATION MONTH    : 7
AVERAGE SPEED       : 70.7 Freeway 98.5 0.0 0.0 1.5
VMT FRACTIONS       :
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 0.2510 0.0631 0.2100 0.0638 0.0307 0.0276 0.0049 0.0040
 0.0031 0.0112 0.0131 0.0679 0.2421 0.0025 0.0012 0.0038

SCENARIO RECORD    : Christian              Rural Principal Arterial 55.0 mph - CY2010
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
AVERAGE SPEED      : 55.0 Arterial
VMT FRACTIONS      :
 0.3645 0.0916 0.3050 0.0926 0.0446 0.0401 0.0037 0.0030
 0.0023 0.0084 0.0099 0.0057 0.0203 0.0019 0.0009 0.0055

SCENARIO RECORD    : Christian              Rural Minor Arterial 51.1 mph - CY2010
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
AVERAGE SPEED      : 51.1 Arterial
VMT FRACTIONS      :
 0.3645 0.0916 0.3050 0.0926 0.0446 0.0401 0.0037 0.0030
 0.0023 0.0084 0.0099 0.0057 0.0203 0.0019 0.0009 0.0055

SCENARIO RECORD    : Christian              Rural Major Collector 54.1 mph - CY2010
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
AVERAGE SPEED      : 54.1 Arterial
VMT FRACTIONS      :
 0.3669 0.0922 0.3070 0.0932 0.0449 0.0403 0.0047 0.0039
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0024 0.0012 0.0056

SCENARIO RECORD    : Christian              Rural Minor Collector 47.1 mph - CY2010
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
AVERAGE SPEED      : 47.1 Arterial
VMT FRACTIONS      :
 0.3669 0.0922 0.3070 0.0932 0.0449 0.0403 0.0047 0.0039
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0024 0.0012 0.0056

SCENARIO RECORD    : Christian              Rural Local 36.1 mph Default - CY2010
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
AVERAGE SPEED      : 36.1 Arterial
VMT FRACTIONS      :
 0.3669 0.0922 0.3070 0.0932 0.0449 0.0403 0.0047 0.0039
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0024 0.0012 0.0056
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```
* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.

SCENARIO RECORD     : Christian                Urban Interstate 72.0 mph - CY2010
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2010
EVALUATION MONTH    : 7
AVERAGE SPEED       : 72.0 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS       :
 0.2827 0.0711 0.2365 0.0718 0.0346 0.0311 0.0039 0.0032
 0.0024 0.0089 0.0105 0.0517 0.1843 0.0020 0.0010 0.0043

SCENARIO RECORD     : Christian                Urban Freeway 72.8 mph - CY2010
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2010
EVALUATION MONTH    : 7
AVERAGE SPEED       : 72.8 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS       :
 0.3669 0.0922 0.3070 0.0932 0.0449 0.0403 0.0035 0.0029
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0056

SCENARIO RECORD     : Christian                Urban Principal Arterial 35.7 mph - CY2010
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2010
EVALUATION MONTH    : 7
AVERAGE SPEED       : 35.7 Arterial
VMT FRACTIONS       :
 0.3669 0.0922 0.3070 0.0932 0.0449 0.0403 0.0035 0.0029
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0056

SCENARIO RECORD     : Christian                Urban Minor Arterial 31.0 mph - CY2010
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2010
EVALUATION MONTH    : 7
AVERAGE SPEED       : 31.0 Arterial
VMT FRACTIONS       :
 0.3669 0.0922 0.3070 0.0932 0.0449 0.0403 0.0035 0.0029
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0056

SCENARIO RECORD     : Christian                Urban Collector 28.8 mph - CY2010
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2010
EVALUATION MONTH    : 7
AVERAGE SPEED       : 28.8 Arterial
VMT FRACTIONS       :
 0.3696 0.0929 0.3092 0.0939 0.0452 0.0406 0.0039 0.0033
 0.0024 0.0089 0.0105 0.0024 0.0086 0.0020 0.0010 0.0056
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```
SCENARIO RECORD    : Christian              Urban Local 12.9 mph Default - CY2010
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2010
EVALUATION MONTH   : 7
AVERAGE SPEED      : 12.9 Local
VMT FRACTIONS      :
 0.3696 0.0929 0.3092 0.0939 0.0452 0.0406 0.0039 0.0033
 0.0024 0.0089 0.0105 0.0024 0.0086 0.0020 0.0010 0.0056
```

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.

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SCENARIO RECORD    : Christian              Rural Interstate 70.7 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 70.7 Freeway 98.5 0.0 0.0 1.5
VMT FRACTIONS      :
 0.2289 0.0669 0.2227 0.0676 0.0325 0.0276 0.0049 0.0041
 0.0031 0.0112 0.0131 0.0680 0.2420 0.0025 0.0012 0.0037

SCENARIO RECORD    : Christian              Rural Principal Arterial 55.0 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 55.0 Arterial
VMT FRACTIONS      :
 0.3324 0.0971 0.3234 0.0982 0.0473 0.0401 0.0037 0.0031
 0.0023 0.0084 0.0098 0.0057 0.0203 0.0019 0.0009 0.0054

SCENARIO RECORD    : Christian              Rural Minor Arterial 51.1 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 51.1 Arterial
VMT FRACTIONS      :
 0.3324 0.0971 0.3234 0.0982 0.0473 0.0401 0.0037 0.0031
 0.0023 0.0084 0.0098 0.0057 0.0203 0.0019 0.0009 0.0054

SCENARIO RECORD    : Christian              Rural Major Collector 54.1 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 54.1 Arterial
VMT FRACTIONS      :
 0.3345 0.0978 0.3255 0.0988 0.0476 0.0404 0.0047 0.0040
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0024 0.0012 0.0054
```

```
SCENARIO RECORD    : Christian              Rural Minor Collector 47.1 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 47.1 Arterial
VMT FRACTIONS      :
 0.3345 0.0978 0.3255 0.0988 0.0476 0.0404 0.0047 0.0040
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0024 0.0012 0.0054

SCENARIO RECORD    : Christian              Rural Local 36.1 mph Default - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 36.1 Arterial
VMT FRACTIONS      :
 0.3345 0.0978 0.3255 0.0988 0.0476 0.0404 0.0047 0.0040
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0024 0.0012 0.0054

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.


SCENARIO RECORD    : Christian              Urban Interstate 72.0 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 72.0 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS      :
 0.2577 0.0753 0.2507 0.0762 0.0367 0.0311 0.0039 0.0033
 0.0025 0.0089 0.0105 0.0517 0.1843 0.0020 0.0010 0.0042

SCENARIO RECORD    : Christian              Urban Freeway 72.8 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 72.8 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS      :
 0.3345 0.0978 0.3255 0.0988 0.0476 0.0404 0.0035 0.0030
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0054

SCENARIO RECORD    : Christian              Urban Principal Arterial 35.7 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 35.7 Arterial
VMT FRACTIONS      :
 0.3345 0.0978 0.3255 0.0988 0.0476 0.0404 0.0035 0.0030
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0054
```

```
SCENARIO RECORD    : Christian              Urban Minor Arterial 31.0 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 31.0 Arterial
VMT FRACTIONS      :
 0.3345 0.0978 0.3255 0.0988 0.0476 0.0404 0.0035 0.0030
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0054

SCENARIO RECORD    : Christian              Urban Collector 28.8 mph - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 28.8 Arterial
VMT FRACTIONS      :
 0.3370 0.0985 0.3278 0.0996 0.0479 0.0407 0.0039 0.0033
 0.0024 0.0089 0.0105 0.0024 0.0086 0.0020 0.0010 0.0055

SCENARIO RECORD    : Christian              Urban Local 12.9 mph Default - CY2013
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2013
EVALUATION MONTH   : 7
AVERAGE SPEED      : 12.9 Local
VMT FRACTIONS      :
 0.3370 0.0985 0.3278 0.0996 0.0479 0.0407 0.0039 0.0033
 0.0024 0.0089 0.0105 0.0024 0.0086 0.0020 0.0010 0.0055

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.


SCENARIO RECORD    : Christian              Rural Interstate 70.7 mph - CY2016
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
AVERAGE SPEED      : 70.7 Freeway 98.5 0.0 0.0 1.5
VMT FRACTIONS      :
 0.2129 0.0696 0.2318 0.0704 0.0339 0.0278 0.0049 0.0041
 0.0031 0.0111 0.0131 0.0680 0.2420 0.0025 0.0012 0.0036

SCENARIO RECORD    : Christian              Rural Principal Arterial 55.0 mph - CY2016
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
AVERAGE SPEED      : 55.0 Arterial
VMT FRACTIONS      :
 0.3092 0.1011 0.3366 0.1022 0.0492 0.0403 0.0037 0.0031
 0.0023 0.0084 0.0098 0.0057 0.0203 0.0019 0.0009 0.0053
```

```
SCENARIO RECORD    : Christian              Rural Minor Arterial 51.1 mph - CY2016
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
AVERAGE SPEED      : 51.1 Arterial
VMT FRACTIONS      :
 0.3092 0.1011 0.3366 0.1022 0.0492 0.0403 0.0037 0.0031
 0.0023 0.0084 0.0098 0.0057 0.0203 0.0019 0.0009 0.0053

SCENARIO RECORD    : Christian              Rural Major Collector 54.1 mph - CY2016
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
AVERAGE SPEED      : 54.1 Arterial
VMT FRACTIONS      :
 0.3112 0.1017 0.3388 0.1029 0.0495 0.0406 0.0047 0.0040
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0024 0.0012 0.0053

SCENARIO RECORD    : Christian              Rural Minor Collector 47.1 mph - CY2016
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
AVERAGE SPEED      : 47.1 Arterial
VMT FRACTIONS      :
 0.3112 0.1017 0.3388 0.1029 0.0495 0.0406 0.0047 0.0040
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0024 0.0012 0.0053

SCENARIO RECORD    : Christian              Rural Local 36.1 mph Default - CY2016
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
AVERAGE SPEED      : 36.1 Arterial
VMT FRACTIONS      :
 0.3112 0.1017 0.3388 0.1029 0.0495 0.0406 0.0047 0.0040
 0.0030 0.0109 0.0128 0.0024 0.0086 0.0024 0.0012 0.0053

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.

SCENARIO RECORD    : Christian              Urban Interstate 72.0 mph - CY2016
DIESEL SULFUR      : 323.00
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
AVERAGE SPEED      : 72.0 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS      :
 0.2398 0.0784 0.2610 0.0793 0.0381 0.0312 0.0039 0.0033
 0.0025 0.0089 0.0105 0.0517 0.1843 0.0020 0.0010 0.0041
```

```
SCENARIO RECORD     : Christian                Urban Freeway 72.8 mph - CY2016
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2016
EVALUATION MONTH    : 7
AVERAGE SPEED       : 72.8 Freeway 92.4 0.0 0.0 7.6
VMT FRACTIONS       :
 0.3112 0.1017 0.3388 0.1029 0.0495 0.0406 0.0035 0.0030
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0053

SCENARIO RECORD     : Christian                Urban Principal Arterial 35.7 mph - CY2016
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2016
EVALUATION MONTH    : 7
AVERAGE SPEED       : 35.7 Arterial
VMT FRACTIONS       :
 0.3112 0.1017 0.3388 0.1029 0.0495 0.0406 0.0035 0.0030
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0053

SCENARIO RECORD     : Christian                Urban Minor Arterial 31.0 mph - CY2016
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2016
EVALUATION MONTH    : 7
AVERAGE SPEED       : 31.0 Arterial
VMT FRACTIONS       :
 0.3112 0.1017 0.3388 0.1029 0.0495 0.0406 0.0035 0.0030
 0.0022 0.0081 0.0095 0.0046 0.0164 0.0018 0.0009 0.0053

SCENARIO RECORD     : Christian                Urban Collector 28.8 mph - CY2016
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2016
EVALUATION MONTH    : 7
AVERAGE SPEED       : 28.8 Arterial
VMT FRACTIONS       :
 0.3135 0.1025 0.3412 0.1036 0.0499 0.0408 0.0039 0.0033
 0.0025 0.0089 0.0105 0.0024 0.0086 0.0020 0.0010 0.0054

SCENARIO RECORD     : Christian                Urban Local 12.9 mph Default - CY2016
DIESEL SULFUR       : 323.00
CALENDAR YEAR       : 2016
EVALUATION MONTH    : 7
AVERAGE SPEED       : 12.9 Local
VMT FRACTIONS       :
 0.3135 0.1025 0.3412 0.1036 0.0499 0.0408 0.0039 0.0033
 0.0025 0.0089 0.0105 0.0024 0.0086 0.0020 0.0010 0.0054
```

* Unless a specific local speed is available, a default MOBILE6 average speed of 12.9 mph is used.

END OF RUN
********** End of Run **********

Mobile6.2

Output

File

```
*************************************************************************
* MOBILE6.1 (24-Sep-2003)                                               *
* Input file: D:\MOBILE62\KY_M62\CHRIST\02CHRIS4.IN (file 1, run 1).    *
*************************************************************************

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Interstate 70.7 mph - CY2002
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 70.7     speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 64.2 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 64.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  94.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3278    0.2157    0.0737              0.0294    0.0005    0.0012    0.3476    0.0042    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.361     1.559     2.467     1.790     2.003     0.574     0.771     0.512      2.91     1.214
     Composite CO  :     20.83     25.07     35.59     27.75     32.76     1.583     1.549     3.715     25.81    17.220
     Composite NOX :      1.249     1.480     1.830     1.569     6.214     2.582     2.671    31.468      1.63    11.996
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Principal Arterial 55.0 mph - CY2002
```

```
* File 1, R··· 1, Scenario 2.
* # # # # ;   # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  94.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:  279. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4760	0.3132	0.1070		0.0364	0.0008	0.0017	0.0588	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.397	1.608	2.555	1.849	1.822	0.579	0.777	0.413	2.32	1.549
Composite CO :	18.89	23.07	33.54	25.73	20.06	1.440	1.410	2.121	10.12	20.723
Composite NOX :	1.213	1.429	1.777	1.518	5.625	1.818	1.879	14.442	1.37	2.282

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Minor Arterial 51.1 mph - CY2002
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 51.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
```

```
                Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  94.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
           Weathered RVP:   8.2 psi
     Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4760    0.3132    0.1070              0.0364    0.0008    0.0017    0.0588    0.0061    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :     1.421     1.635     2.600     1.881     1.867     0.588     0.790     0.427      2.32     1.576
    Composite CO  :     18.18     22.32     32.77     24.98     18.78     1.422     1.393     2.061     10.12    20.022
    Composite NOX :     1.201     1.411     1.759     1.500     5.481     1.653     1.708    13.235      1.27     2.192
 ------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian             Rural Major Collector 54.1 mph - CY2002
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
           The user supplied arterial average speed of 54.1
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
 M615 Comment:
              User supplied VMT mix.
 M 48 Warning:
             there are no sales for vehicle class HDGV8b

           Calendar Year:  2002
                   Month:  July
                Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  94.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
           Weathered RVP:   8.2 psi
     Fuel Sulfur Content:  279. ppm

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

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

```
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.4790    0.3152    0.1076              0.0386    0.0008    0.0017    0.0509    0.0062    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :       1.402     1.614     2.565     1.856     1.905     0.581     0.780     0.370      2.32     1.565
    Composite CO  :       18.73     22.90     33.37     25.57     20.92     1.436     1.407     1.698     10.12    20.743
    Composite NOX :       1.210     1.425     1.773     1.514     5.666     1.782     1.842    11.832      1.35     2.053
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Minor Collector 47.1 mph - CY2002
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
           The user supplied arterial average speed of 47.1
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:       LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.4790    0.3152    0.1076              0.0386    0.0008    0.0017    0.0509    0.0062    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :       1.450     1.664     2.647     1.914     2.006     0.602     0.808     0.399      2.33     1.618
    Composite CO  :       17.45     21.55     31.98     24.20     19.09     1.420     1.391     1.653     10.30    19.482
    Composite NOX :       1.189     1.394     1.742     1.483     5.400     1.524     1.575    10.171      1.20     1.934
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Local 36.1 mph Default - CY2002
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
M583 Warning:
          The user supplied arterial average speed of 36.1
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M615 Comment:
            User supplied VMT mix.
M 48 Warning:
           there are no sales for vehicle class HDGV8b

                Calendar Year:  2002
                        Month:  July
                     Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  94.0 (F)
             Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:  279. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4790	0.3152	0.1076		0.0386	0.0008	0.0017	0.0509	0.0062	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.550	1.750	2.783	2.013	2.301	0.668	0.896	0.487	2.45	1.724
Composite CO :	15.42	19.40	29.78	22.04	20.42	1.503	1.472	1.886	12.17	17.669
Composite NOX :	1.164	1.352	1.703	1.441	4.978	1.353	1.398	9.072	1.12	1.831

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Interstate 72.0 mph - CY2002
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M 96 Warning:
               72.0     speed reduced to 65 mph maximum
M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
M615 Comment:
            User supplied VMT mix.
```

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

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:      0.3691    0.2428    0.0829              0.0302    0.0006    0.0013    0.2682    0.0048    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      1.388     1.587     2.505     1.821     1.915     0.581     0.780     0.520      2.88     1.318
    Composite CO  :     21.22     25.26     35.80     27.95     29.53     1.579     1.545     3.664     24.99    18.933
    Composite NOX :      1.259     1.492     1.842     1.581     6.015     2.506     2.591    29.987      1.60     9.218
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Freeway 72.8 mph - CY2002
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
               72.8     speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
```

```
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4790    0.3152    0.1076              0.0364    0.0008    0.0017    0.0531    0.0062    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.388     1.587     2.505     1.821     1.810     0.581     0.780     0.404      2.88     1.542
    Composite CO  :     21.22     25.26     35.80     27.95     27.29     1.579     1.545     2.491     24.99    23.264
    Composite NOX :      1.259     1.492     1.842     1.581     5.905     2.506     2.591    20.733      1.60     2.604
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Principal Arterial 35.7 mph - CY2002
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
           The user supplied arterial average speed of 35.7
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2002
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  279. ppm

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

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

VMT Distribution:	0.4790	0.3152	0.1076		0.0364	0.0008	0.0017	0.0531	0.0062	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.554	1.754	2.789	2.017	2.212	0.672	0.901	0.537	2.46	1.724
Composite CO :	15.34	19.31	29.69	21.95	19.25	1.509	1.477	2.256	12.28	17.531
Composite NOX :	1.164	1.350	1.702	1.440	4.888	1.350	1.395	10.557	1.12	1.915

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Minor Arterial 31.0 mph - CY2002
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  94.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:  279. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4790	0.3152	0.1076		0.0364	0.0008	0.0017	0.0531	0.0062	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.629	1.825	2.906	2.100	2.420	0.719	0.963	0.605	2.57	1.806
Composite CO :	14.97	18.86	29.37	21.53	21.62	1.602	1.567	2.565	13.86	17.289
Composite NOX :	1.189	1.367	1.721	1.457	4.713	1.354	1.399	10.584	1.08	1.930

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Collector 28.8 mph - CY2002
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.8
```

```
          will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  279. ppm

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

     Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:               <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4825    0.3175    0.1085              0.0373    0.0008    0.0017    0.0455    0.0062    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.671     1.864     2.968     2.145     2.578     0.745     0.998     0.591      2.63     1.862
    Composite CO  :     14.94     18.78     29.40     21.48     23.64     1.660     1.623     2.366     14.77    17.443
    Composite NOX :      1.210     1.384     1.741     1.475     4.650     1.369     1.414     9.282      1.06     1.818
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Urban Local 12.9 mph Default - CY2002
* File 1, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
 M585 Warning:
          100% of VMT has been assigned to the local roadway
          type for all hours of the day for all vehicle types
          with an average speed of 12.9 mph.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
```

```
              Weathered RVP:   8.2 psi
        Fuel Sulfur Content:  279. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4825	0.3175	0.1085		0.0373	0.0008	0.0017	0.0455	0.0062	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.478	2.601	4.028	2.965	4.814	1.095	1.463	1.059	3.55	2.711
Composite CO :	12.68	17.71	29.76	20.78	54.04	2.668	2.598	5.237	29.21	17.407
Composite NOX :	1.195	1.317	1.675	1.408	4.041	1.803	1.863	11.128	0.90	1.844

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Interstate 70.7 mph - CY2004
* File 1, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                70.7     speed reduced to 65 mph maximum
  M515 Warning:
           The combined freeway and ramp average speed entered
           cannot be greater than 64.2 miles per hour.
           The average speed will be reset to this value.
  M582 Warning:
           The user supplied freeway average speed of 64.2
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2004
                         Month:  July
                      Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  94.0 (F)
          Absolute Humidity:   75. grains/lb
           Nominal Fuel RVP:   8.6 psi
              Weathered RVP:   8.2 psi
        Fuel Sulfur Content:  121. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3083	0.2301	0.0785		0.0292	0.0004	0.0012	0.3482	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.105	1.271	2.039	1.467	1.704	0.473	0.769	0.416	2.91	1.001
Composite CO :	16.26	19.50	26.35	21.24	23.32	1.462	1.516	3.284	25.81	13.498
Composite NOX :	1.057	1.295	1.633	1.381	5.753	2.276	2.499	24.891	1.63	9.598

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Principal Arterial 55.0 mph - CY2004
* File 1, Run 1, Scenario 14.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2004
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  94.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:  121. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4478	0.3342	0.1140		0.0365	0.0006	0.0018	0.0592	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.142	1.315	2.116	1.519	1.582	0.476	0.774	0.351	2.32	1.286
Composite CO :	14.80	18.03	24.69	19.73	14.69	1.329	1.387	1.909	10.12	16.180
Composite NOX :	1.024	1.249	1.585	1.334	5.211	1.604	1.761	12.135	1.37	1.978

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Minor Arterial 51.1 mph - CY2004
```

```
* File 1, R··· 1, Scenario 15.
* # # # # ;   # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 51.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2004
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  94.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:  121. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4478	0.3342	0.1140		0.0365	0.0006	0.0018	0.0592	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.165	1.339	2.155	1.547	1.619	0.484	0.786	0.363	2.32	1.311
Composite CO :	14.27	17.48	24.08	19.16	13.75	1.313	1.372	1.855	10.12	15.652
Composite NOX :	1.013	1.232	1.569	1.318	5.077	1.459	1.601	11.038	1.27	1.895

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Major Collector 54.1 mph - CY2004
* File 1, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 54.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2004
                           Month:  July
```

```
                  Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  94.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:  121. ppm

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

     Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:     0.4506    0.3363    0.1149              0.0385    0.0006    0.0018    0.0513    0.0060    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite VOC :      1.147     1.321     2.124     1.525     1.642     0.478     0.776     0.325      2.32     1.300
   Composite CO  :      14.69     17.91     24.56     19.60     15.16     1.326     1.383     1.557     10.12    16.189
   Composite NOX :      1.022     1.245     1.582     1.331     5.247     1.573     1.726    10.305      1.35     1.804
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Minor Collector 47.1 mph - CY2004
* File 1, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 47.1
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

               Calendar Year:  2004
                       Month:  July
                  Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  94.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:  121. ppm

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

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

```
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    -----    ------    ------    ------    ------    -----
  VMT Distribution:    0.4506    0.3363    0.1149              0.0385    0.0006    0.0018    0.0513    0.0060    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.192     1.365     2.196     1.576     1.724     0.495     0.803     0.350      2.32     1.348
    Composite CO  :     13.72     16.92     23.43     18.58     13.83     1.310     1.369     1.515     10.30    15.238
    Composite NOX :      1.002     1.216     1.554     1.302     5.001     1.345     1.476     8.779      1.20     1.693
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Local 36.1 mph Default - CY2004
* File 1, Run 1, Scenario 18.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 36.1
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2004
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  121. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4506    0.3363    0.1149              0.0385    0.0006    0.0018    0.0513    0.0060    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.283     1.440     2.314     1.662     1.954     0.549     0.887     0.428      2.45     1.442
    Composite CO  :     12.19     15.34     21.65     16.94     14.79     1.388     1.444     1.729     12.17    13.872
    Composite NOX :      0.979     1.178     1.518     1.264     4.610     1.195     1.311     7.768      1.12     1.597
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Interstate 72.0 mph - CY2004
* File 1, Run 1, Scenario 19.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
M 96 Warning:
              72.0     speed reduced to 65 mph maximum
M515 Warning:
         The combined freeway and ramp average speed entered
         cannot be greater than 60.9 miles per hour.
         The average speed will be reset to this value.
M582 Warning:
         The user supplied freeway average speed of 60.9
         will be used for all hours of the day. 100% of VMT
         has been assigned to a fixed combination of freeways
         and freeway ramps for all hours of the day and all
          vehicle types.
M615 Comment:
            User supplied VMT mix.
M 48 Warning:
           there are no sales for vehicle class HDGV8b

                 Calendar Year:  2004
                         Month:  July
                      Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  94.0 (F)
             Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:  121. ppm

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

     Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:               <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3472    0.2592    0.0884              0.0301    0.0005    0.0014    0.2686    0.0046    1.0000
-------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :     1.126     1.292     2.069     1.490     1.644     0.478     0.777     0.424      2.88     1.087
    Composite CO  :    16.51     19.62     26.46     21.36     21.37     1.458     1.513     3.241     24.99    14.790
    Composite NOX :     1.064     1.303     1.644     1.390     5.570     2.209     2.425    23.813      1.60     7.428
-------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Freeway 72.8 mph - CY2004
* File 1, Run 1, Scenario 20.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M 96 Warning:
              72.8     speed reduced to 65 mph maximum
M515 Warning:
         The combined freeway and ramp average speed entered
         cannot be greater than 60.9 miles per hour.
         The average speed will be reset to this value.
M582 Warning:
```

```
          The user supplied freeway average speed of 60.9
           .ll be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
M615 Comment:
             User supplied VMT mix.
M 48 Warning:
           there are no sales for vehicle class HDGV8b

                 Calendar Year:  2004
                         Month:  July
                      Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  94.0 (F)
             Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:  121. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4506	0.3363	0.1148		0.0365	0.0006	0.0018	0.0534	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.126	1.292	2.069	1.490	1.568	0.478	0.777	0.345	2.88	1.274
Composite CO :	16.51	19.62	26.46	21.36	20.01	1.458	1.513	2.249	24.99	18.079
Composite NOX :	1.064	1.303	1.644	1.390	5.468	2.209	2.425	17.321	1.60	2.247

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Principal Arterial 35.7 mph - CY2004
* File 1, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 35.7
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M615 Comment:
             User supplied VMT mix.
M 48 Warning:
           there are no sales for vehicle class HDGV8b

                 Calendar Year:  2004
                         Month:  July
                      Altitude:  Low
           Minimum Temperature:  67.0 (F)
```

```
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  121. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4506    0.3363    0.1148              0.0365    0.0006    0.0018    0.0534    0.0060    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.287     1.443     2.319     1.666     1.893     0.551     0.892     0.458      2.46     1.441
    Composite CO  :     12.13     15.28     21.58     16.88     14.12     1.393     1.449     2.037     12.28    13.779
    Composite NOX :      0.978     1.176     1.517     1.263     4.527     1.193     1.308     8.708      1.12     1.651
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Minor Arterial 31.0 mph - CY2004
* File 1, Run 1, Scenario 22.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2004
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  121. ppm

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

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

```
 VMT Distribution:    0.4506    0.3363    0.1148              0.0365    0.0006    0.0018    0.0534    0.0060    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      1.350     1.500     2.413     1.732     2.055     0.589     0.951     0.517      2.56     1.510
    Composite CO  :      11.86     14.96     21.29     16.57     15.85     1.479     1.533     2.316     13.86    13.606
    Composite NOX :      1.000     1.191     1.533     1.278     4.364     1.196     1.312     8.733      1.08     1.663
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Collector 28.8 mph - CY2004
* File 1, Run 1, Scenario 23.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 28.8
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2004
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  121. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:    0.4539    0.3387    0.1157              0.0373    0.0006    0.0018    0.0460    0.0060    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      1.385     1.531     2.464     1.769     2.176     0.611     0.985     0.515      2.63     1.555
    Composite CO  :      11.84     14.92     21.30     16.54     17.28     1.533     1.586     2.161     14.77    13.726
    Composite NOX :      1.018     1.206     1.551     1.294     4.307     1.209     1.326     7.896      1.06     1.583
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Local 12.9 mph Default - CY2004
* File 1, Run 1, Scenario 24.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M585 Warning:
          100% of VMT has been assigned to the local roadway
```

```
          ^vpe for all hours of the day for all vehicle type^
           .th an average speed of 12.9 mph.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2004
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:  121. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4539	0.3387	0.1157		0.0373	0.0006	0.0018	0.0460	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.049	2.113	3.336	2.424	3.916	0.894	1.428	0.924	3.55	2.245
Composite CO :	10.36	14.43	21.67	16.27	39.50	2.467	2.495	4.784	29.21	13.973
Composite NOX :	1.011	1.158	1.500	1.245	3.743	1.591	1.746	9.917	0.90	1.629

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Interstate 70.7 mph - CY2007
* File 1, Run 1, Scenario 25.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                70.7     speed reduced to 65 mph maximum
  M515 Warning:
           The combined freeway and ramp average speed entered
           cannot be greater than 64.2 miles per hour.
           The average speed will be reset to this value.
  M582 Warning:
           The user supplied freeway average speed of 64.2
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
```

```
                Calendar Year:  2007
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  94.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   33. ppm

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

     Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:               <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2794    0.2517    0.0858              0.0288    0.0003    0.0013    0.3488    0.0039    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :     0.833     0.917     1.517     1.070     1.284     0.279     0.489     0.345      2.90     0.763
    Composite CO  :    11.68     13.39     18.11     14.59     16.44     1.099     0.967     2.699     25.81     9.704
    Composite NOX :     0.770     0.981     1.361     1.078     4.169     1.351     1.732    18.763      1.63     7.253
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Principal Arterial 55.0 mph - CY2007
* File 1, Run 1, Scenario 26.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                Calendar Year:  2007
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  94.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   33. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4059	0.3655	0.1247		0.0363	0.0004	0.0019	0.0596	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.864	0.949	1.577	1.108	1.187	0.281	0.494	0.288	2.30	0.969
Composite CO :	10.69	12.41	16.97	13.57	10.57	0.990	0.873	1.605	10.12	11.532
Composite NOX :	0.747	0.947	1.321	1.042	3.760	0.951	1.218	9.488	1.37	1.526

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Minor Arterial 51.1 mph - CY2007
* File 1, Run 1, Scenario 27.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 51.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2007
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  94.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   33. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4059	0.3655	0.1247		0.0363	0.0004	0.0019	0.0596	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.883	0.966	1.608	1.129	1.214	0.286	0.502	0.298	2.30	0.988
Composite CO :	10.33	12.05	16.55	13.19	9.90	0.977	0.862	1.560	10.12	11.170
Composite NOX :	0.739	0.935	1.307	1.029	3.663	0.865	1.107	8.620	1.27	1.461

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Major Collector 54.1 mph - CY2007
```

```
* File 1, R··· 1, Scenario 28.
* # # # # #   # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 54.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2007
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  94.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   33. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4084	0.3679	0.1255		0.0383	0.0004	0.0019	0.0519	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.868	0.953	1.584	1.113	1.235	0.282	0.495	0.265	2.30	0.979
Composite CO :	10.61	12.33	16.88	13.49	10.83	0.987	0.871	1.333	10.12	11.533
Composite NOX :	0.745	0.944	1.318	1.039	3.793	0.932	1.193	8.175	1.35	1.397

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Minor Collector 47.1 mph - CY2007
* File 1, Run 1, Scenario 29.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 47.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2007
                           Month:  July
```

```
                 Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  94.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:   33. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4084	0.3679	0.1255		0.0383	0.0004	0.0019	0.0519	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.905	0.984	1.640	1.151	1.294	0.293	0.515	0.286	2.31	1.016
Composite CO :	9.95	11.67	16.11	12.80	9.88	0.975	0.860	1.297	10.30	10.885
Composite NOX :	0.732	0.922	1.294	1.017	3.614	0.797	1.020	6.956	1.20	1.309

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian            Rural Local 36.1 mph Default - CY2007
* File 1, Run 1, Scenario 30.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 36.1
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

            Calendar Year:  2007
                    Month:  July
                 Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  94.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:   33. ppm

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

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

```
            GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4084    0.3679    0.1255              0.0383    0.0004    0.0019    0.0519    0.0057    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.976     1.039     1.733     1.215     1.456     0.327     0.577     0.349      2.44     1.087
    Composite CO  :      8.90     10.63     14.88     11.71     10.57     1.038     0.915     1.481     12.17     9.963
    Composite NOX :      0.715     0.893     1.264     0.987     3.332     0.707     0.904     6.149      1.12     1.235
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Interstate 72.0 mph - CY2007
* File 1, Run 1, Scenario 31.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
               72.0     speed reduced to 65 mph maximum
  M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
  M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2007
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
            GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3147    0.2836    0.0967              0.0299    0.0003    0.0015    0.2690    0.0044    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.848     0.930     1.539     1.085     1.233     0.282     0.496     0.351      2.87     0.824
    Composite CO  :     11.81     13.45     18.18     14.65     15.22     1.096     0.964     2.665     24.99    10.572
```

```
   Composite NOX :      0.774     0.986     1.368     1.083     4.026     1.311     1.681    17.979      1.60     5.623
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Urban Freeway 72.8 mph - CY2007
* File 1, Run 1, Scenario 32.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 72.8     speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 60.9 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 60.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2007
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  94.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4084    0.3679    0.1256              0.0363    0.0004    0.0019    0.0538    0.0057    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.848     0.930     1.539     1.085     1.172     0.282     0.496     0.283      2.87     0.957
    Composite CO  :     11.81     13.45     18.18     14.66     14.42     1.096     0.964     1.898     24.99    12.826
    Composite NOX :      0.774     0.986     1.368     1.083     3.944     1.311     1.680    13.406      1.60     1.728
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Urban Principal Arterial 35.7 mph - CY2007
* File 1, Run 1, Scenario 33.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
M583 Warning:
          The user supplied arterial average speed of 35.7
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M615 Comment:
            User supplied VMT mix.
M 48 Warning:
          there are no sales for vehicle class HDGV8b

                Calendar Year:  2007
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  94.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   33. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4084	0.3679	0.1256		0.0363	0.0004	0.0019	0.0538	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.979	1.041	1.737	1.218	1.407	0.328	0.580	0.376	2.44	1.087
Composite CO :	8.85	10.59	14.83	11.67	10.17	1.042	0.918	1.719	12.28	9.907
Composite NOX :	0.715	0.892	1.263	0.987	3.266	0.706	0.902	6.801	1.12	1.272

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Minor Arterial 31.0 mph - CY2007
* File 1, Run 1, Scenario 34.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
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.
M615 Comment:
            User supplied VMT mix.
M 48 Warning:
          there are no sales for vehicle class HDGV8b

                Calendar Year:  2007
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
```

```
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.4084    0.3679    0.1256              0.0363    0.0004    0.0019    0.0538    0.0057    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.027     1.082     1.806     1.266     1.519     0.352     0.623     0.424      2.55     1.138
    Composite CO  :      8.69     10.42     14.67     11.50     11.42     1.113     0.979     1.954     13.86     9.824
    Composite NOX :      0.731     0.903     1.278     0.998     3.148     0.708     0.905     6.821      1.08     1.281
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Collector 28.8 mph - CY2007
* File 1, Run 1, Scenario 35.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
           The user supplied arterial average speed of 28.8
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2007
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   33. ppm

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

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

```
 VMT Distribution:    0.4115    0.3706    0.1264              0.0371    0.0004    0.0019    0.0462    0.0058    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite VOC :      1.053     1.104     1.844     1.292     1.603     0.366     0.648     0.422      2.62     1.171
   Composite CO  :      8.69     10.42     14.70     11.50     12.41     1.158     1.017     1.850     14.77     9.929
   Composite NOX :      0.744     0.915     1.292     1.011     3.108     0.716     0.915     6.246      1.06     1.220
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Local 12.9 mph Default - CY2007
* File 1, Run 1, Scenario 36.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
 M585 Warning:
          100% of VMT has been assigned to the local roadway
          type for all hours of the day for all vehicle types
          with an average speed of 12.9 mph.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2007
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:    0.4115    0.3706    0.1264              0.0371    0.0004    0.0019    0.0462    0.0058    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite VOC :      1.551     1.520     2.501     1.769     2.807     0.543     0.972     0.756      3.54     1.679
   Composite CO  :      8.10     10.54     15.27     11.74     28.36     1.924     1.674     4.096     29.21    10.584
   Composite NOX :      0.745     0.890     1.263     0.985     2.700     0.943     1.207     7.969      0.90     1.272
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Interstate 70.7 mph - CY2010
* File 1, Run 1, Scenario 37.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
               70.7     speed reduced to 65 mph maximum
 M515 Warning:
```

```
          The combined freeway and ramp average speed entered
           cannot be greater than 64.2 miles per hour.
          The average speed will be reset to this value.
M582 Warning:
          The user supplied freeway average speed of 64.2
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
M615 Comment:
             User supplied VMT mix.
M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2010
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2508    0.2731    0.0931              0.0287    0.0002    0.0014    0.3489    0.0038    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.631     0.705     1.213     0.834     0.975     0.138     0.337     0.285      2.88     0.603
    Composite CO  :      9.66     10.74     14.56     11.71     10.32     0.816     0.686     1.766     25.81     7.725
    Composite NOX :      0.591     0.753     1.140     0.851     2.819     0.663     1.155    13.248      1.63     5.171
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Principal Arterial 55.0 mph - CY2010
* File 1, Run 1, Scenario 38.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
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.
M615 Comment:
             User supplied VMT mix.
M 48 Warning:
            there are no sales for vehicle class HDGV8b
```

```
              Calendar Year:  2010
                      Month:  July
                   Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  94.0 (F)
          Absolute Humidity:   75. grains/lb
           Nominal Fuel RVP:   8.6 psi
              Weathered RVP:   8.2 psi
        Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3642	0.3966	0.1352		0.0364	0.0003	0.0020	0.0598	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.653	0.726	1.258	0.861	0.904	0.139	0.339	0.236	2.29	0.756
Composite CO :	8.87	9.95	13.57	10.87	7.07	0.728	0.615	1.062	10.12	9.386
Composite NOX :	0.574	0.727	1.108	0.824	2.545	0.466	0.811	6.865	1.37	1.159

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Minor Arterial 51.1 mph - CY2010
* File 1, Run 1, Scenario 39.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 51.1
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

              Calendar Year:  2010
                      Month:  July
                   Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  94.0 (F)
          Absolute Humidity:   75. grains/lb
           Nominal Fuel RVP:   8.6 psi
              Weathered RVP:   8.2 psi
        Fuel Sulfur Content:   30. ppm

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

Veh. Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	1 Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3642	0.3966	0.1352		0.0364	0.0003	0.0020	0.0598	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.666	0.737	1.282	0.876	0.923	0.141	0.346	0.244	2.29	0.770
Composite CO :	8.57	9.65	13.20	10.55	6.62	0.717	0.606	1.032	10.12	9.092
Composite NOX :	0.568	0.717	1.097	0.814	2.479	0.423	0.737	6.233	1.27	1.111

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Major Collector 54.1 mph - CY2010
* File 1, Run 1, Scenario 40.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 54.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2010
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  94.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3666	0.3992	0.1361		0.0382	0.0003	0.0020	0.0520	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.656	0.728	1.264	0.864	0.938	0.139	0.341	0.216	2.29	0.764
Composite CO :	8.80	9.88	13.49	10.80	7.07	0.725	0.613	0.893	10.12	9.381
Composite NOX :	0.572	0.725	1.105	0.821	2.565	0.456	0.795	5.987	1.35	1.068

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Minor Collector 47.1 mph - CY2010
```

```
* File 1, R~~ 1, Scenario 41.
* # # # # \   # # # # # # # # # # # # # # # # # # #
  M583 Warning:
          The user supplied arterial average speed of 47.1
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2010
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3666	0.3992	0.1361		0.0382	0.0003	0.0020	0.0520	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.681	0.749	1.307	0.891	0.979	0.145	0.355	0.232	2.30	0.790
Composite CO :	8.27	9.34	12.81	10.22	6.46	0.715	0.605	0.869	10.30	8.853
Composite NOX :	0.562	0.708	1.087	0.804	2.445	0.390	0.679	5.091	1.20	1.003

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian             Rural Local 36.1 mph Default - CY2010
* File 1, Run 1, Scenario 42.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
          The user supplied arterial average speed of 36.1
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2010
                          Month:  July
```

```
               Altitude:  Low
    Minimum Temperature:  67.0 (F)
    Maximum Temperature:  94.0 (F)
      Absolute Humidity:   75. grains/lb
       Nominal Fuel RVP:   8.6 psi
          Weathered RVP:   8.2 psi
    Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3666	0.3992	0.1361		0.0382	0.0003	0.0020	0.0520	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.733	0.786	1.380	0.937	1.086	0.164	0.400	0.284	2.42	0.841
Composite CO :	7.42	8.48	11.75	9.31	6.90	0.767	0.646	0.992	12.17	8.090
Composite NOX :	0.549	0.686	1.063	0.782	2.253	0.345	0.602	4.498	1.12	0.947

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian            Urban Interstate 72.0 mph - CY2010
* File 1, Run 1, Scenario 43.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
          72.0     speed reduced to 65 mph maximum
 M515 Warning:
        The combined freeway and ramp average speed entered
        cannot be greater than 60.9 miles per hour.
        The average speed will be reset to this value.
 M582 Warning:
        The user supplied freeway average speed of 60.9
        will be used for all hours of the day. 100% of VMT
        has been assigned to a fixed combination of freeways
        and freeway ramps for all hours of the day and all
         vehicle types.
 M615 Comment:
           User supplied VMT mix.
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

          Calendar Year:  2010
                  Month:  July
               Altitude:  Low
    Minimum Temperature:  67.0 (F)
    Maximum Temperature:  94.0 (F)
      Absolute Humidity:   75. grains/lb
       Nominal Fuel RVP:   8.6 psi
          Weathered RVP:   8.2 psi
    Fuel Sulfur Content:   30. ppm
```

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2824    0.3076    0.1049              0.0298    0.0003    0.0015    0.2692    0.0043    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.641     0.714     1.229     0.845     0.934     0.139     0.341     0.290      2.86     0.648
    Composite CO  :      9.75     10.79     14.59     11.76      9.89     0.813     0.684     1.744     24.99     8.476
    Composite NOX :      0.594     0.755     1.145     0.854     2.723     0.643     1.121    12.704      1.60     4.030
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Freeway 72.8 mph - CY2010
* File 1, Run 1, Scenario 44.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                72.8     speed reduced to 65 mph maximum
  M515 Warning:
           The combined freeway and ramp average speed entered
           cannot be greater than 60.9 miles per hour.
           The average speed will be reset to this value.
  M582 Warning:
           The user supplied freeway average speed of 60.9
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2010
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

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

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

GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3666	0.3992	0.1361		0.0363	0.0003	0.0020	0.0539	0.0056	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.641	0.714	1.229	0.845	0.891	0.139	0.341	0.232	2.86	0.749
Composite CO :	9.75	10.79	14.59	11.76	9.68	0.813	0.684	1.258	24.99	10.429
Composite NOX :	0.594	0.755	1.145	0.854	2.670	0.643	1.121	9.656	1.60	1.304

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Principal Arterial 35.7 mph - CY2010
* File 1, Run 1, Scenario 45.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2010
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  94.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3666	0.3992	0.1361		0.0363	0.0003	0.0020	0.0539	0.0056	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.735	0.788	1.383	0.939	1.054	0.165	0.403	0.308	2.43	0.841
Composite CO :	7.38	8.45	11.71	9.28	6.83	0.770	0.649	1.140	12.28	8.053
Composite NOX :	0.549	0.685	1.062	0.781	2.211	0.345	0.600	4.925	1.12	0.973

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Minor Arterial 31.0 mph - CY2010
* File 1, Run 1, Scenario 46.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
M583 Warn' -g:
            ıe 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.
M615 Comment:
             User supplied VMT mix.
M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2010
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3666	0.3992	0.1361		0.0363	0.0003	0.0020	0.0539	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.770	0.816	1.436	0.974	1.127	0.178	0.434	0.347	2.54	0.878
Composite CO :	7.27	8.33	11.56	9.15	7.67	0.827	0.695	1.296	13.86	7.989
Composite NOX :	0.561	0.693	1.074	0.790	2.131	0.346	0.602	4.939	1.08	0.980

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Urban Collector 28.8 mph - CY2010
* File 1, Run 1, Scenario 47.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 28.8
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M615 Comment:
             User supplied VMT mix.
M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2010
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
```

```
          Maximum Temperature:  94.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3693	0.4021	0.1371		0.0371	0.0003	0.0020	0.0465	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.789	0.832	1.466	0.993	1.182	0.185	0.453	0.343	2.60	0.902
Composite CO :	7.28	8.34	11.57	9.16	8.27	0.863	0.725	1.235	14.77	8.075
Composite NOX :	0.571	0.702	1.086	0.800	2.104	0.350	0.609	4.557	1.06	0.939

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Local 12.9 mph Default - CY2010
* File 1, Run 1, Scenario 48.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M585 Warning:
          100% of VMT has been assigned to the local roadway
          type for all hours of the day for all vehicle types
          with an average speed of 12.9 mph.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                Calendar Year:  2010
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  94.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3693	0.4021	0.1371		0.0371	0.0003	0.0020	0.0465	0.0056	1.0000

```
 --------  ------------------------------------------------  ------------------------------------------------  -----
Composite   .ssion Factors (g/mi):
    Composite VOC :      1.155     1.140     1.990     1.356     1.968     0.283     0.690     0.616      3.52     1.280
    Composite CO  :      7.14      8.69     12.19      9.58     18.91      1.482     1.227     2.733     29.21     8.798
    Composite NOX :      0.579     0.693     1.067     0.788     1.828     0.462     0.804     5.865      0.90     0.986
 ------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Interstate 70.7 mph - CY2013
* File 1, Run 1, Scenario 49.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 70.7     speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 64.2 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 64.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2013
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  94.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2287    0.2896    0.0987              0.0286    0.0002    0.0014    0.3491    0.0037    1.0000
 ------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.476     0.563     1.005     0.675     0.786     0.089     0.258     0.239      2.88     0.488
    Composite CO  :      8.15      9.07     12.25      9.88      9.04      0.697     0.558     1.002     25.81     6.402
    Composite NOX :      0.447     0.577     0.960     0.674     1.866     0.353     0.802     8.453      1.63     3.376
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Principal Arterial 55.0 mph - CY2013
* File 1, Run 1, Scenario 50.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2013
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  94.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

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

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3321	0.4205	0.1434		0.0363	0.0003	0.0021	0.0599	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.490	0.576	1.039	0.694	0.724	0.090	0.260	0.199	2.29	0.605
Composite CO :	7.48	8.39	11.39	9.15	6.25	0.621	0.499	0.632	10.12	7.967
Composite NOX :	0.434	0.557	0.934	0.653	1.690	0.248	0.563	4.433	1.37	0.848

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Minor Arterial 51.1 mph - CY2013
* File 1, Run 1, Scenario 51.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 51.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
```

```
              User supplied VMT mix.
 M 48 Warı   ȷ:
             there are no sales for vehicle class HDGV8b
 M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2013
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  94.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3321    0.4205    0.1434              0.0363    0.0003    0.0021    0.0599    0.0054    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.499     0.584     1.057     0.704     0.738     0.092     0.265     0.206      2.29     0.615
    Composite CO  :      7.24      8.13     11.07      8.88      5.85     0.612     0.492     0.614     10.12     7.717
    Composite NOX :      0.429     0.550     0.925     0.645     1.647     0.225     0.512     4.025      1.27     0.815
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Major Collector 54.1 mph - CY2013
* File 1, Run 1, Scenario 52.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
           The user supplied arterial average speed of 54.1
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
 M615 Comment:
              User supplied VMT mix.
 M 48 Warning:
             there are no sales for vehicle class HDGV8b
 M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2013
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  94.0 (F)
               Absolute Humidity:   75. grains/lb
```

```
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3342    0.4233    0.1443              0.0382    0.0003    0.0021    0.0522    0.0054    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.492     0.578     1.043     0.696     0.753     0.090     0.261     0.182      2.29     0.611
    Composite CO  :      7.43      8.33     11.32      9.09      6.23     0.619     0.498     0.552     10.12     7.967
    Composite NOX :      0.433     0.556     0.932     0.651     1.701     0.243     0.552     3.898      1.35     0.791
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Minor Collector 47.1 mph - CY2013
* File 1, Run 1, Scenario 53.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
           The user supplied arterial average speed of 47.1
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                 Calendar Year:  2013
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:   30. ppm

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

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

```
  VMT Distribution:    0.3342    0.4233    0.1443              0.0382    0.0003    0.0021    0.0522    0.0054    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.510     0.593     1.076     0.716     0.784     0.094     0.272     0.196      2.30     0.630
    Composite CO  :      6.99      7.87     10.73      8.60      5.69     0.610     0.491     0.537     10.30     7.519
    Composite NOX :      0.425     0.543     0.917     0.638     1.621     0.207     0.471     3.314      1.20     0.747
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Local 36.1 mph Default - CY2013
* File 1, Run 1, Scenario 54.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
           The user supplied arterial average speed of 36.1
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                 Calendar Year:  2013
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:               <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3342    0.4233    0.1443              0.0382    0.0003    0.0021    0.0522    0.0054    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.549     0.620     1.130     0.749     0.865     0.106     0.306     0.240      2.42     0.668
    Composite CO  :      6.29      7.15      9.80      7.82      6.08     0.654     0.525     0.613     12.17     6.873
    Composite NOX :      0.415     0.526     0.897     0.621     1.495     0.184     0.418     2.927      1.12     0.708
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Interstate 72.0 mph - CY2013
* File 1, Run 1, Scenario 55.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
M 96 Warning:
              72.0     speed reduced to 65 mph maximum
M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
M615 Comment:
            User supplied VMT mix.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2013
                        Month:  July
                     Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  94.0 (F)
             Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2575	0.3260	0.1113		0.0298	0.0002	0.0016	0.2694	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.483	0.569	1.018	0.683	0.752	0.090	0.261	0.244	2.86	0.524
Composite CO :	8.21	9.10	12.28	9.91	8.71	0.695	0.556	0.990	24.99	7.078
Composite NOX :	0.448	0.578	0.965	0.676	1.807	0.342	0.778	8.106	1.60	2.657

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Freeway 72.8 mph - CY2013
* File 1, Run 1, Scenario 56.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M 96 Warning:
              72.8     speed reduced to 65 mph maximum
M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
```

```
          The average speed will be reset to this value.
M582 Warn   g:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
M615 Comment:
            User supplied VMT mix.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2013
                        Month:  July
                     Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  94.0 (F)
             Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3342	0.4233	0.1443		0.0364	0.0003	0.0021	0.0540	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.483	0.569	1.018	0.683	0.714	0.090	0.261	0.196	2.86	0.602
Composite CO :	8.21	9.10	12.28	9.91	8.57	0.695	0.556	0.753	24.99	8.855
Composite NOX :	0.448	0.578	0.965	0.676	1.774	0.342	0.778	6.221	1.60	0.945

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Principal Arterial 35.7 mph - CY2013
* File 1, Run 1, Scenario 57.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 35.7
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M615 Comment:
            User supplied VMT mix.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
```

```
there are no sales for vehicle class LDDT12

      Calendar Year:  2013
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  94.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3342	0.4233	0.1443		0.0364	0.0003	0.0021	0.0540	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.551	0.621	1.133	0.751	0.837	0.107	0.308	0.260	2.43	0.669
Composite CO :	6.26	7.12	9.77	7.79	6.04	0.657	0.528	0.682	12.28	6.839
Composite NOX :	0.415	0.526	0.897	0.620	1.469	0.183	0.417	3.182	1.12	0.723

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Minor Arterial 31.0 mph - CY2013
* File 1, Run 1, Scenario 58.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

      Calendar Year:  2013
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  94.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm
```

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3342    0.4233    0.1443              0.0364    0.0003    0.0021    0.0540    0.0054    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.577     0.642     1.174     0.777     0.892     0.116     0.332     0.293      2.54     0.697
    Composite CO  :      6.18      7.03      9.64      7.69      6.79      0.707     0.566     0.775     13.86     6.797
    Composite NOX :      0.424     0.532     0.907     0.627     1.416     0.184     0.418     3.192      1.08     0.728
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Collector 28.8 mph - CY2013
* File 1, Run 1, Scenario 59.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 28.8
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
 M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2013
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3367    0.4263    0.1454              0.0371    0.0003    0.0021    0.0466    0.0055    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.591     0.654     1.196     0.792     0.933     0.121     0.346     0.290      2.60     0.715
```

```
    Composite CO  :      6.20      7.05      9.66      7.71      7.31     0.738     0.590     0.759     14.77     6.883
    Composite NOX :      0.431     0.538     0.917     0.634     1.397     0.186     0.423     2.962      1.06     0.704
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Urban Local 12.9 mph Default - CY2013
* File 1, Run 1, Scenario 60.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2013
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  94.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.3367    0.4263    0.1454              0.0371    0.0003    0.0021    0.0466    0.0055    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.875     0.900     1.615     1.082     1.522     0.185     0.525     0.520      3.52     1.014
    Composite CO  :      6.40      7.52     10.27      8.22     16.71     1.270     1.001     1.680     29.21     7.719
    Composite NOX :      0.445     0.537     0.902     0.629     1.214     0.246     0.558     3.817      0.90     0.739
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Rural Interstate 70.7 mph - CY2016
* File 1, Run 1, Scenario 61.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                70.7      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 64.2 miles per hour.
```

```
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 64.2
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
 M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2016
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

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

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2127	0.3014	0.1028		0.0286	0.0002	0.0015	0.3492	0.0036	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.375	0.480	0.842	0.572	0.624	0.066	0.214	0.211	2.88	0.413
Composite CO :	7.22	8.18	11.00	8.90	8.60	0.619	0.495	0.694	25.81	5.714
Composite NOX :	0.347	0.458	0.808	0.547	1.197	0.192	0.598	5.524	1.63	2.265

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian             Rural Principal Arterial 55.0 mph - CY2016
* File 1, Run 1, Scenario 62.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 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.
 M615 Comment:
             User supplied VMT mix.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
 M 48 Warning:
```

```
there are no sales for vehicle class LDDT12

      Calendar Year:  2016
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  94.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

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

     Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.3089    0.4377    0.1492              0.0364    0.0003    0.0022    0.0600    0.0053    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite VOC :      0.386     0.491     0.869     0.587     0.568     0.066     0.216     0.175      2.29     0.508
   Composite CO  :      6.65      7.57     10.22      8.24      5.94     0.551     0.444     0.438     10.12     7.186
   Composite NOX :      0.337     0.442     0.786     0.529     1.089     0.135     0.421     2.899      1.37     0.637
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Minor Arterial 51.1 mph - CY2016
* File 1, Run 1, Scenario 63.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 51.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

      Calendar Year:  2016
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  94.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm
```

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3089    0.4377    0.1492              0.0364    0.0003    0.0022    0.0600    0.0053    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.393     0.497     0.883     0.595     0.579     0.068     0.220     0.181      2.29     0.515
    Composite CO  :      6.43      7.34      9.92      7.99      5.56     0.543     0.437     0.426     10.12     6.962
    Composite NOX :      0.334     0.436     0.778     0.523     1.061     0.123     0.382     2.634      1.27     0.614
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Major Collector 54.1 mph - CY2016
* File 1, Run 1, Scenario 64.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
           The user supplied arterial average speed of 54.1
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
             User supplied VMT mix.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2016
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3109    0.4405    0.1502              0.0382    0.0003    0.0022    0.0524    0.0053    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.388     0.492     0.872     0.589     0.593     0.067     0.217     0.160      2.29     0.512
```

Composite CO :	6.60	7.52	10.15	8.19	5.93	0.549	0.442	0.384	10.12	7.189
Composite NOX :	0.337	0.441	0.784	0.528	1.095	0.132	0.412	2.570	1.35	0.601

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Minor Collector 47.1 mph - CY2016
* File 1, Run 1, Scenario 65.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 47.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  94.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3109	0.4405	0.1502		0.0382	0.0003	0.0022	0.0524	0.0053	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.402	0.504	0.897	0.604	0.617	0.069	0.225	0.173	2.30	0.527
Composite CO :	6.21	7.10	9.62	7.74	5.41	0.542	0.436	0.374	10.30	6.786
Composite NOX :	0.331	0.431	0.771	0.517	1.043	0.113	0.352	2.186	1.20	0.570

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Rural Local 36.1 mph Default - CY2016
* File 1, Run 1, Scenario 66.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
```

```
         ~vpe for all hours of the day and all vehicle type~
M615 Comm  :
            User supplied VMT mix.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12

                 Calendar Year:  2016
                         Month:  July
                      Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  94.0 (F)
             Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:   30. ppm

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

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3109	0.4405	0.1502		0.0382	0.0003	0.0022	0.0524	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.435	0.527	0.941	0.632	0.682	0.078	0.252	0.211	2.42	0.559
Composite CO :	5.60	6.45	8.78	7.04	5.78	0.581	0.466	0.427	12.17	6.209
Composite NOX :	0.323	0.417	0.754	0.503	0.962	0.100	0.313	1.932	1.12	0.542

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Interstate 72.0 mph - CY2016
* File 1, Run 1, Scenario 67.
* # # # # # # # # # # # # # # # # # # # # # # # # #
M 96 Warning:
              72.0    speed reduced to 65 mph maximum
M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
M615 Comment:
            User supplied VMT mix.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
```

```
M 48 Warning:
            there are no sales for vehicle class LDDT12

                 Calendar Year:  2016
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  94.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:      0.2396    0.3394    0.1157              0.0298    0.0002    0.0017    0.2695    0.0041    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.381     0.485     0.852     0.578     0.594     0.067     0.217     0.215      2.86     0.442
    Composite CO  :      7.27      8.21     11.02      8.92      8.28     0.617     0.493     0.685     24.99     6.338
    Composite NOX :      0.348     0.459     0.812     0.549     1.162     0.186     0.580     5.294      1.60     1.802
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Freeway 72.8 mph - CY2016
* File 1, Run 1, Scenario 68.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
M 96 Warning:
                72.8     speed reduced to 65 mph maximum
M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
M615 Comment:
             User supplied VMT mix.
M 48 Warning:
            there are no sales for vehicle class HDGV8b
M 48 Warning:
            there are no sales for vehicle class LDDT12

                 Calendar Year:  2016
                         Month:  July
```

```
                 Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  94.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
           Weathered RVP:   8.2 psi
     Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3109    0.4405    0.1502              0.0364    0.0003    0.0022    0.0542    0.0053    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.381     0.485     0.852     0.578     0.560     0.067     0.217     0.172      2.86     0.505
    Composite CO  :      7.27      8.21     11.02      8.92      8.14     0.617     0.493     0.522     24.99     7.990
    Composite NOX :      0.348     0.459     0.812     0.549     1.143     0.186     0.580     4.091      1.60     0.705
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian              Urban Principal Arterial 35.7 mph - CY2016
* File 1, Run 1, Scenario 69.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

           Calendar Year:  2016
                   Month:  July
                 Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  94.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
           Weathered RVP:   8.2 psi
     Fuel Sulfur Content:   30. ppm

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

Veh. Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3109	0.4405	0.1502		0.0364	0.0003	0.0022	0.0542	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.436	0.528	0.943	0.634	0.658	0.079	0.254	0.229	2.43	0.560
Composite CO :	5.58	6.42	8.75	7.01	5.74	0.584	0.468	0.473	12.28	6.178
Composite NOX :	0.323	0.417	0.754	0.503	0.946	0.100	0.312	2.088	1.12	0.552

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Urban Minor Arterial 31.0 mph - CY2016
* File 1, Run 1, Scenario 70.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  94.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3109	0.4405	0.1502		0.0364	0.0003	0.0022	0.0542	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.458	0.546	0.977	0.656	0.701	0.085	0.273	0.258	2.54	0.583
Composite CO :	5.51	6.35	8.64	6.93	6.45	0.627	0.501	0.538	13.86	6.149
Composite NOX :	0.330	0.422	0.762	0.508	0.912	0.100	0.313	2.094	1.08	0.556

```
* # # # # # " # # # # # # # # # # # # # # # # # # # #
* Christian                Urban Collector 28.8 mph - CY2016
* File 1, Run 1, Scenario 71.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  94.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

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

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3132	0.4437	0.1513		0.0372	0.0003	0.0022	0.0467	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.470	0.557	0.995	0.668	0.735	0.089	0.284	0.255	2.60	0.599
Composite CO :	5.54	6.37	8.66	6.95	6.95	0.655	0.522	0.527	14.77	6.235
Composite NOX :	0.336	0.427	0.771	0.514	0.900	0.102	0.316	1.952	1.06	0.542

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Christian                Urban Local 12.9 mph Default - CY2016
* File 1, Run 1, Scenario 72.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M615 Comment:
               User supplied VMT mix.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

M 48 Warr' 'g:
there are no sales for vehicle class LDDT12

```
      Calendar Year:  2016
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  94.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3132	0.4437	0.1513		0.0372	0.0003	0.0022	0.0467	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.714	0.775	1.345	0.920	1.204	0.136	0.426	0.458	3.52	0.857
Composite CO :	5.94	6.91	9.33	7.52	15.88	1.129	0.882	1.168	29.21	7.141
Composite NOX :	0.352	0.427	0.757	0.511	0.782	0.134	0.417	2.504	0.90	0.566

```
*********************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                        *
* Input file: D:\MOBILE62\KY_M62\CHRIST\02CHRIS4.IN (file 1, run 2). *
*********************************************************************
```