APPENDIX D

Mobile Input/Output and Calculation Files, Greene County Indiana
MOBILE6 input & output - Greene.txt

INPUT FILE

**Header Section**

MOBILE6 INPUT FILE : Greene County Emissions

DATABASE OUTPUT

WITH FIELDNAMES

AGGREGATED OUTPUT

REPORT FILE

EMISSIONS TABLE

RUN DATA

* These min/max temperatures are July averages from Greene County*

**Run Section**

MIN/MAX TEMP : 65.0 86.3

ABSOLUTE HUMIDITY : 93.7

CLOUD COVER : 0.34

SUNRISE/SUNSET : 6.8

FUEL RVP : 9.0

NO REFUELING

REG DIST : 28-reg.d

**Scenario Section**

SCENARIO RECORD : Scenario 1: HPMS Rural Interstate (M6 Freeway/Freeway Ramp)

CALENDAR YEAR : 2002

EVALUATION MONTH : 7

AVERAGE SPEED : XX.X FREEWAY 97.0 0.0 0.0 3.0

VMT FRACTIONS

0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084

0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047

SCENARIO RECORD : Scenario 2: HPMS Rural OPA (M6 Non-Ramp)

CALENDAR YEAR : 2002

EVALUATION MONTH : 7

AVERAGE SPEED : 51.7 NON-RAMP

VMT FRACTIONS

0.4333 0.0558 0.2190 0.0675 0.0311 0.0573 0.0057 0.0045

0.0033 0.0126 0.0150 0.0164 0.0585 0.0033 0.0015 0.0052

SCENARIO RECORD : Scenario 3: HPMS Rural Minor Arterial (M6 Arterial/Collector)

CALENDAR YEAR : 2002

EVALUATION MONTH : 7

AVERAGE SPEED : 47.3 ARTERIAL

VMT FRACTIONS

0.4662 0.0708 0.2357 0.0726 0.0334 0.0374 0.0037 0.0029

0.0022 0.0082 0.0098 0.0107 0.0382 0.0026 0.0013 0.0043

SCENARIO RECORD : Scenario 4: HPMS Rural Major Collector (M6 Arterial/Collector)

CALENDAR YEAR : 2002

EVALUATION MONTH : 7

AVERAGE SPEED : 38.3 ARTERIAL

VMT FRACTIONS

0.4821 0.0732 0.2437 0.0751 0.0345 0.0275 0.0027 0.0022

0.0016 0.0060 0.0072 0.0078 0.0280 0.0024 0.0011 0.0049

SCENARIO RECORD : Scenario 5: HPMS Rural Minor Collector (M6 Arterial/Collector)

CALENDAR YEAR : 2002

Page 1
EVALUATION MONTH : 7\par
AVERAGE SPEED : 33.9 ARTERIAL\par
VMT FRACTIONS : \par
0.4532 0.0689 0.2292 0.0706 0.0325 0.0399 0.0040 0.0031\par
0.0023 0.0088 0.0104 0.0114 0.0407 0.0026 0.0013 0.0211\par
************************************************************************ Scenario Section **************************\par
SCENARIO RECORD : Scenario 6: HPMS Rural Local (M6 Arterial/Collector)\par
CALENDAR YEAR : 2002\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : 29.3 ARTERIAL\par
VMT FRACTIONS : \par
0.4789 0.0728 0.2421 0.0746 0.0343 0.0294 0.0029 0.0023\par
0.0017 0.0065 0.0077 0.0084 0.0300 0.0026 0.0013 0.0045\par
************************************************************************ Scenario Section **************************\par
SCENARIO RECORD : Scenario 7: HPMS Urban Interstate (M6 Freeway/Freeway Ramp)\par
CALENDAR YEAR : 2002\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : XX.X FREEWAY 92.0 0.0 0.0 8.0\par
VMT FRACTIONS : \par
0.4155 0.0631 0.2101 0.0647 0.0298 0.0688 0.0068 0.0054\par
0.0040 0.0151 0.0180 0.0196 0.0702 0.0043 0.0021 0.0025\par
************************************************************************ Scenario Section **************************\par
SCENARIO RECORD : Scenario 8: HPMS Urban Freeway/Expressway (M6 Freeway/Freeway Ramp)\par
CALENDAR YEAR : 2002\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : XX.X FREEWAY 92.0 0.0 0.0 8.0\par
VMT FRACTIONS : \par
0.4554 0.0692 0.2303 0.0710 0.0326 0.0446 0.0044 0.0035\par
0.0026 0.0098 0.0117 0.0127 0.0456 0.0022 0.0011 0.0033\par
************************************************************************ Scenario Section **************************\par
SCENARIO RECORD : Scenario 9: HPMS Urban OPA (M6 Arterial/Collector)\par
CALENDAR YEAR : 2002\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : 39.2 ARTERIAL\par
VMT FRACTIONS : \par
0.4868 0.0740 0.2462 0.0759 0.0349 0.0251 0.0025 0.0020\par
0.0014 0.0055 0.0066 0.0072 0.0257 0.0015 0.0007 0.0040\par
************************************************************************ Scenario Section **************************\par
SCENARIO RECORD : Scenario 10: HPMS Urban Minor Arterial (M6 Arterial/Collector)\par
CALENDAR YEAR : 2002\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : 34.0 ARTERIAL\par
VMT FRACTIONS : \par
0.5024 0.0763 0.2540 0.0783 0.0360 0.0152 0.0015 0.0012\par
0.0009 0.0033 0.0040 0.0043 0.0155 0.0010 0.0005 0.0056\par
************************************************************************ Scenario Section **************************\par
SCENARIO RECORD : Scenario 11: HPMS Urban Collector (M6 Arterial/Collector)\par
CALENDAR YEAR : 2002\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : 38.0 ARTERIAL\par
VMT FRACTIONS : \par
0.4944 0.0751 0.2499 0.0770 0.0354 0.0203 0.0020 0.0016\par
0.0012 0.0045 0.0053 0.0058 0.0207 0.0018 0.0008 0.0042\par
************************************************************************ Scenario Section **************************\par
SCENARIO RECORD : Scenario 12: HPMS Urban Local (M6 Local Road) - 12.9\par
CALENDAR YEAR : 2002\par
EVALUATION MONTH : 7\par
VMT BY FACILITY : fvmloc1.def\par
VMT FRACTIONS : \par
0.5099 0.0773 0.2579 0.0795 0.0366 0.0106 0.0010 0.0008\par
0.0006 0.0023 0.0028 0.0030 0.0108 0.0028 0.0013 0.0026
<table>
<thead>
<tr>
<th>Scenario Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCENARIO RECORD</td>
</tr>
<tr>
<td>Scenario 13: HPMS Rural Interstate (M6 Freeway/Freeway Ramp)</td>
</tr>
<tr>
<td>CALENDAR YEAR    : 2010</td>
</tr>
<tr>
<td>EVALUATION MONTH : 7</td>
</tr>
<tr>
<td>AVERAGE SPEED    : xx.X FREEWAY 97.0 0.0 0.0 3.0</td>
</tr>
</tbody>
</table>
| VMT FRACTIONS    :
| 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084 |
| 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047 |

| Scenario 14: HPMS Rural OPA (M6 Non-Ramp) |
| CALENDAR YEAR    : 2010 |
| EVALUATION MONTH : 7 |
| AVERAGE SPEED    : 51.5 NON-RAMP |
| VMT FRACTIONS    :
| 0.4333 0.0658 0.2190 0.0675 0.0311 0.0573 0.0057 0.0045 |
| 0.0033 0.0126 0.0150 0.0164 0.0585 0.0033 0.0015 0.0052 |

| Scenario 15: HPMS Rural Minor Arterial (M6 Arterial/Collector) |
| CALENDAR YEAR    : 2010 |
| EVALUATION MONTH : 7 |
| AVERAGE SPEED    : 47.2 ARTERIAL |
| VMT FRACTIONS    :
| 0.4662 0.0708 0.2357 0.0726 0.0334 0.0374 0.0037 0.0029 |
| 0.0022 0.0082 0.0098 0.0107 0.0382 0.0026 0.0013 0.0043 |

| Scenario 16: HPMS Rural Major Collector (M6 Arterial/Collector) |
| CALENDAR YEAR    : 2010 |
| EVALUATION MONTH : 7 |
| AVERAGE SPEED    : 38.2 ARTERIAL |
| VMT FRACTIONS    :
| 0.4821 0.0732 0.2437 0.0751 0.0345 0.0275 0.0027 0.0022 |
| 0.0016 0.0060 0.0072 0.0078 0.0280 0.0024 0.0011 0.0049 |

| Scenario 17: HPMS Rural Minor Collector (M6 Arterial/Collector) |
| CALENDAR YEAR    : 2010 |
| EVALUATION MONTH : 7 |
| AVERAGE SPEED    : 33.9 ARTERIAL |
| VMT FRACTIONS    :
| 0.4532 0.0689 0.2292 0.0706 0.0325 0.0399 0.0040 0.0031 |
| 0.0023 0.0088 0.0104 0.0114 0.0407 0.0026 0.0013 0.0021 |

| Scenario 18: HPMS Rural Local (M6 Arterial/Collector) |
| CALENDAR YEAR    : 2010 |
| EVALUATION MONTH : 7 |
| AVERAGE SPEED    : 29.2 ARTERIAL |
| VMT FRACTIONS    :
| 0.4789 0.0728 0.2421 0.0746 0.0343 0.0294 0.0029 0.0023 |
| 0.0017 0.0065 0.0077 0.0084 0.0300 0.0026 0.0013 0.0045 |
SCENARIO RECORD : Scenario 19: HPMS Urban Interstate (M6 Freeway/Freeway Ramp)\par

CALENDAR YEAR : 2010\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : \par
VMT FRACTIONS : \par
0.4155 0.0631 0.2101 0.0647 0.0298 0.0688 0.0068 0.0054\par
0.0040 0.0151 0.0180 0.0196 0.0702 0.0043 0.0021 0.0025\par

SCENARIO RECORD : Scenario 20: HPMS Urban Freeway/Expressway (M6 Freeway/Freeway Ramp)\par

CALENDAR YEAR : 2010\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : \par
VMT FRACTIONS : \par
0.4554 0.0692 0.2303 0.0710 0.0326 0.0446 0.0044 0.0035\par
0.0026 0.0098 0.0117 0.0127 0.0456 0.0022 0.0011 0.0033\par

SCENARIO RECORD : Scenario 21: HPMS Urban OPA (M6 Arterial/Collector)\par

CALENDAR YEAR : 2010\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : 36.3 ARTERIAL\par
VMT FRACTIONS : \par
0.4868 0.0740 0.2462 0.0759 0.0349 0.0251 0.0025 0.0020\par
0.0014 0.0055 0.0066 0.0072 0.0257 0.0015 0.0007 0.0040\par

SCENARIO RECORD : Scenario 22: HPMS Urban Minor Arterial (M6 Arterial/Collector)\par

CALENDAR YEAR : 2010\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : 37.7 ARTERIAL\par
VMT FRACTIONS : \par
0.4944 0.0751 0.2499 0.0770 0.0354 0.0203 0.0020 0.0016\par
0.0012 0.0045 0.0053 0.0058 0.0207 0.0018 0.0008 0.0042\par

SCENARIO RECORD : Scenario 23: HPMS Urban Collector (M6 Arterial/Collector)\par

CALENDAR YEAR : 2010\par
EVALUATION MONTH : 7\par
AVERAGE SPEED : 33.9 ARTERIAL\par
VMT FRACTIONS : \par
0.5024 0.0763 0.2540 0.0783 0.0360 0.0152 0.0015 0.0012\par
0.0043 0.0033 0.0040 0.0043 0.0155 0.0009 0.0005 0.0056\par

SCENARIO RECORD : Scenario 24: HPMS Urban Local (M6 Local Road) - 12.9\par

CALENDAR YEAR : 2010\par
EVALUATION MONTH : 7\par
VMT BY FACILITY : fvmloc1.def\par
VMT FRACTIONS : \par
0.5099 0.0775 0.2579 0.0795 0.0366 0.0106 0.0010 0.0008\par
0.0006 0.0023 0.0028 0.0030 0.0108 0.0028 0.0013 0.0026\par

END OF RUN \par

* These min/max temperatures are July averages from Greene County\par
MIN/MAX TEMP : 65.0 86.3\par
ABSO LUTE HUMIDITY : 93.7\par
CLOUD COVER : 0.34\par
SUNRISE/SUNSET : 6 8\par
FUEL RVP : 9.0\par
NO REFUELING : \par
REG DIST : 28-reg.d\par

SCENARIO RECORD : Scenario 25: HPMS Rural Interstate (M6 Freeway/Freeway Ramp)\par
MOBILE6 input & output - Greene.txt

| CALENDAR YEAR | 2015\par |
| EVALUATION MONTH | 7\par |
| AVERAGE SPEED | XX.X FREEWAY 97.0 0.0 0.0 3.0\par |
| VMT FRACTIONS | \par |
| 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084\par |
| 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047\par |
| *************** Scenario Section ***********************\par |
| SCENARIO RECORD | Scenario 26: HPMS Rural OPA (M6 Non-Ramp)\par |
| CALENDAR YEAR | 2015\par |
| EVALUATION MONTH | 7\par |
| AVERAGE SPEED | 51.4 NON-RAMP\par |
| VMT FRACTIONS | \par |
| 0.4333 0.0658 0.2190 0.0675 0.0311 0.0573 0.0057 0.0045\par |
| 0.0033 0.0126 0.0150 0.0164 0.0585 0.0033 0.0015 0.0052\par |
| *************** Scenario Section ***********************\par |
| SCENARIO RECORD | Scenario 27: HPMS Rural Minor Arterial (M6 Arterial/collector)\par |
| CALENDAR YEAR | 2015\par |
| EVALUATION MONTH | 7\par |
| AVERAGE SPEED | 47.1 ARTERIAL\par |
| VMT FRACTIONS | \par |
| 0.4662 0.0708 0.2357 0.0726 0.0334 0.0374 0.0037 0.0029\par |
| 0.0022 0.0082 0.0098 0.0107 0.0382 0.0026 0.0013 0.0043\par |
| *************** Scenario Section ***********************\par |
| SCENARIO RECORD | Scenario 28: HPMS Rural Major Collector (M6 Arterial/collector)\par |
| CALENDAR YEAR | 2015\par |
| EVALUATION MONTH | 7\par |
| AVERAGE SPEED | 38.1 ARTERIAL\par |
| VMT FRACTIONS | \par |
| 0.4821 0.0732 0.2437 0.0751 0.0345 0.0275 0.0027 0.0022\par |
| 0.0016 0.0060 0.0072 0.0078 0.0280 0.0024 0.0011 0.0049\par |
| *************** Scenario Section ***********************\par |
| SCENARIO RECORD | Scenario 29: HPMS Rural Minor Collector (M6 Arterial/collector)\par |
| CALENDAR YEAR | 2015\par |
| EVALUATION MONTH | 7\par |
| AVERAGE SPEED | 33.9 ARTERIAL\par |
| VMT FRACTIONS | \par |
| 0.4532 0.0689 0.2292 0.0706 0.0325 0.0399 0.0040 0.0031\par |
| 0.0023 0.0088 0.0104 0.0114 0.0407 0.0026 0.0013 0.0211\par |
| *************** Scenario Section ***********************\par |
| SCENARIO RECORD | Scenario 30: HPMS Rural Local (M6 Arterial/Collector)\par |
| CALENDAR YEAR | 2015\par |
| EVALUATION MONTH | 7\par |
| AVERAGE SPEED | 29.2 ARTERIAL\par |
| VMT FRACTIONS | \par |
| 0.4789 0.0728 0.2421 0.0746 0.0343 0.0294 0.0029 0.0023\par |
| 0.0017 0.0065 0.0077 0.0084 0.0300 0.0026 0.0013 0.0045\par |
| *************** Scenario Section ***********************\par |
| SCENARIO RECORD | Scenario 31: HPMS Urban Interstate (M6 Freeway/Freeway Ramp)\par |
| CALENDAR YEAR | 2015\par |
| EVALUATION MONTH | 7\par |
| AVERAGE SPEED | XX.X FREEWAY 92.0 0.0 0.0 8.0\par |
| VMT FRACTIONS | \par |
| 0.4155 0.0631 0.2101 0.0647 0.0298 0.0688 0.0068 0.0054\par |
| 0.0045 0.0151 0.0180 0.0196 0.0702 0.0043 0.0021 0.0025\par |
| *************** Scenario Section ***********************\par |
| SCENARIO RECORD | Scenario 32: HPMS Urban Freeway/Expressway (M6 Freeway/Freeway Ramp)\par |
| CALENDAR YEAR | 2015\par |
| EVALUATION MONTH | 7\par |
AVERAGE SPEED : 33.9 ARTERIAL  
par
VMT FRACTIONS :  
par
0.4944 0.2499 0.0770 0.0354 0.0203 0.0020 0.0016  
par
0.0012 0.0045 0.0053 0.0058 0.0207 0.0018 0.0008 0.0042  
par
Scenario Section  
par
SCENARIO RECORD : Scenario 36: HPMS Urban Local (M6 Local Road) - 12.9  
par
CALENDAR YEAR : 2015  
par
EVALUATION MONTH : 7  
par
AVERAGE SPEED : 33.9 ARTERIAL  
par
VMT FRACTIONS :  
par
0.5024 0.2540 0.0783 0.0360 0.0152 0.0015 0.0012  
par
0.0006 0.0033 0.0040 0.0043 0.0155 0.0010 0.0005 0.0056  
par
Scenario Section  
par
SCENARIO RECORD : Scenario 36: HPMS Urban Local (M6 Local Road) - 12.9  
par
CALENDAR YEAR : 2015  
par
EVALUATION MONTH : 7  
par
VMT BY FACILITY : fvmtloc1.def  
par
VMT FRACTIONS :  
par
0.5099 0.2579 0.0795 0.0366 0.0106 0.0010 0.0008  
par
0.0006 0.0023 0.0028 0.0030 0.0108 0.0028 0.0013 0.0026  
par
END OF RUN  
par
par
MOBILE6 OUTPUT FILE  
par
par
**CFL\f1\%s14**  
par
* MOBILE6.2.03 (24-Sep-2003)  
par
* Input file: GREENE.IN (file 2, run 1).  
par
**  
par
MOBILE6 input & output - Greene.txt  
par
AVERAGE SPEED : XX.X FREEWAY 92.0 0.0 0.0 8.0  
par
VMT FRACTIONS :  
par
0.4554 0.0692 0.2303 0.0710 0.0326 0.0446 0.0044 0.0035  
par
0.0026 0.0098 0.0117 0.0127 0.0456 0.0022 0.0011 0.0033  
par
Scenario Section  
par
SCENARIO RECORD : Scenario 33: HPMS Urban OPA (M6 Arterial/Collector)  
par
CALENDAR YEAR : 2015  
par
EVALUATION MONTH : 7  
par
AVERAGE SPEED : 34.0 ARTERIAL  
par
VMT FRACTIONS :  
par
0.4868 0.0740 0.2462 0.0759 0.0349 0.0251 0.0025 0.0020  
par
0.0014 0.0055 0.0066 0.0072 0.0257 0.0015 0.0007 0.0040  
par
Scenario Section  
par
SCENARIO RECORD : Scenario 34: HPMS Urban Minor Arterial (M6 Arterial/Collector)  
par
CALENDAR YEAR : 2015  
par
EVALUATION MONTH : 7  
par
AVERAGE SPEED : 34.0 ARTERIAL  
par
VMT FRACTIONS :  
par
0.4868 0.0740 0.2462 0.0759 0.0349 0.0251 0.0025 0.0020  
par
0.0014 0.0055 0.0066 0.0072 0.0257 0.0015 0.0007 0.0040  
par
Scenario Section  
par
SCENARIO RECORD : Scenario 35: HPMS Urban Collector (M6 Arterial/Collector)  
par
CALENDAR YEAR : 2015  
par
EVALUATION MONTH : 7  
par
AVERAGE SPEED : 34.0 ARTERIAL  
par
VMT FRACTIONS :  
par
0.4868 0.0740 0.2462 0.0759 0.0349 0.0251 0.0025 0.0020  
par
0.0014 0.0055 0.0066 0.0072 0.0257 0.0015 0.0007 0.0040  
par
Scenario Section  
par
SCENARIO RECORD : Scenario 34: HPMS Urban Minor Arterial (M6 Arterial/Collector)  
par
CALENDAR YEAR : 2015  
par
EVALUATION MONTH : 7  
par
AVERAGE SPEED : 34.0 ARTERIAL  
par
VMT FRACTIONS :  
par
0.4868 0.0740 0.2462 0.0759 0.0349 0.0251 0.0025 0.0020  
par
0.0014 0.0055 0.0066 0.0072 0.0257 0.0015 0.0007 0.0040  
par
Scenario Section  
par
SCENARIO RECORD : Scenario 35: HPMS Urban Collector (M6 Arterial/Collector)  
par
CALENDAR YEAR : 2015  
par
EVALUATION MONTH : 7  
par
AVERAGE SPEED : 34.0 ARTERIAL  
par
VMT FRACTIONS :  
par
0.4868 0.0740 0.2462 0.0759 0.0349 0.0251 0.0025 0.0020  
par
0.0014 0.0055 0.0066 0.0072 0.0257 0.0015 0.0007 0.0040  
par
Scenario Section  
par
SCENARIO RECORD : Scenario 36: HPMS Urban Local (M6 Local Road) - 12.9  
par
CALENDAR YEAR : 2015  
par
EVALUATION MONTH : 7  
par
VMT BY FACILITY : fvmtloc1.def  
par
VMT FRACTIONS :  
par
0.5099 0.2579 0.0795 0.0366 0.0106 0.0010 0.0008  
par
0.0006 0.0023 0.0028 0.0030 0.0108 0.0028 0.0013 0.0026  
par
END OF RUN  
par
par
MOBILE6 OUTPUT FILE  
par
par
**CFL\f1\%s14**  
par
* MOBILE6.2.03 (24-Sep-2003)  
par
* Input file: GREENE.IN (file 2, run 1).  
par
**  
par
M617 Comment:  
par
User supplied alternate AC input: Cloud Cover Fraction set to 0.34.  
par
M618 Comment:  
par
User supplied alternate AC input: Sunrise at 6 AM, Sunset at 8 PM.  
par
M603 Comment:  
par
User has disabled the calculation of REFUELING emissions.  
par
par
* Reading Registration Distributions from the following external  
par
* data file: 28-REG.D  
par
M 49 Warning:  
par
1.00  
par
M 49 Warning:  
par
1.00  
par
MYR sum not = 1. (will normalize)
MOBILE6 input & output - Greene.txt

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

M 52 Warning: speed increased to 2.5 mph minimum

M514 Warning: The combined freeway and ramp average speed entered cannot be less than 2.6 miles per hour. The average speed will be reset to this value.

M582 Warning: The user supplied freeway average speed of 2.6 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: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 279. ppm

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

<table>
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<tr>
<th>LDDT</th>
<th>Vehicle Type: LDGV</th>
<th>LDGT12</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
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<td>HDDV</td>
<td>GVRW: MC All Veh</td>
<td>&lt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>0.0014</td>
<td>0.3516</td>
<td>0.2316</td>
<td>0.0791</td>
<td>0.0995</td>
<td>0.0009</td>
<td></td>
</tr>
</tbody>
</table>

Composite Emission Factors (g/mi): CO:
Composite VOC: 18.425 15.899 18.608 16.588 18.228 1.884
2.211 2.099 8.47 13.976
Composite NOX: 2.649 2.654 3.070 2.760 3.684 2.887
2.751 25.546 0.99 8.073

Page 7
* Scenario 2: HPMS Rural OPA (M6 Non-Ramp)

* File 2, Run 1, Scenario 2.

M581 Warning:
The user supplied freeway average speed of 51.7 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

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: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 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 <6000 >6000 (All)

<table>
<thead>
<tr>
<th>VMT Distribution:</th>
<th>0.4322</th>
<th>0.2845</th>
<th>0.0972</th>
<th>0.0536</th>
<th>0.0011</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0017</td>
<td>0.1245</td>
<td>0.0052</td>
<td>1.0000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Composite Emission Factors (g/mi):

Composite VOC: 1.807 1.741 2.397 1.908 1.324 0.710
Composite NOX: 1.357 1.457 1.748 1.531 5.521 1.886

M583 Warning:
The user supplied arterial average speed of 47.3 will be used for all hours of 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.  

there are no sales for vehicle class HDGV8b

Calendar Year: 2002  
Month: July  
Altitude: Low  
Minimum Temperature: 65.0 (F)  
Maximum Temperature: 86.3 (F)  
Absolute Humidity: 94. grains/lb  
Nominal Fuel RVP: 9.0 psi  
Weathered RVP: 8.7 psi  
Fuel Sulfur Content: 279. ppm

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

<table>
<thead>
<tr>
<th>LDDT</th>
<th>Vehicle Type:</th>
<th>LDGV</th>
<th>LDGT12</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDDV</td>
<td>MC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All Veh</td>
<td>&lt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VMT Distribution: 0.4650 0.3062 0.1045 0.0351 0.0012

Composite Emission Factors (g/mi):

<table>
<thead>
<tr>
<th>VOC</th>
<th>NOx</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.853</td>
<td>1.343</td>
</tr>
<tr>
<td>1.635</td>
<td>14.026</td>
</tr>
</tbody>
</table>

File 2, Run 1, Scenario 4.

M583 Warning:
The user supplied arterial average speed of 38.3 will be used for all hours of 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.

there are no sales for vehicle class HDGV8b
**MOBILE6 input & output - Greene.txt**

**Exhaust I/M Program:** No

**Evap I/M Program:** No

**ATP Program:** No

**Reformulated Gas:** No

<table>
<thead>
<tr>
<th>LDDT</th>
<th>Vehicle Type:</th>
<th>LDGV</th>
<th>LDGT12</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDDV</td>
<td>MC All Veh</td>
<td>&lt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>GVWR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**VMT Distribution:**

<table>
<thead>
<tr>
<th></th>
<th>0.4520</th>
<th>0.2978</th>
<th>0.1017</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMT</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Composite Emission Factors (g/mi):**

<table>
<thead>
<tr>
<th></th>
<th>1.961</th>
<th>1.881</th>
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</thead>
<tbody>
<tr>
<td>VOC</td>
<td>2.565</td>
<td>2.055</td>
</tr>
<tr>
<td>0.922</td>
<td>1.905</td>
<td></td>
</tr>
<tr>
<td>NOX</td>
<td>1.318</td>
<td>1.399</td>
</tr>
<tr>
<td>1.462</td>
<td>12.707</td>
<td></td>
</tr>
</tbody>
</table>

---

**File 2, Run 1, Scenario 5.**

**M583 Warning:** The user supplied arterial average speed of 33.9 will be used for all hours of 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:** 65.0 (F)

**Maximum Temperature:** 86.3 (F)

**Absolute Humidity:** 94. grains/lb

**Nominal Fuel RVP:** 9.0 psi

**Weathered RVP:** 8.7 psi

**Fuel Sulfur Content:** 279. ppm
**Composite Emission Factors (g/mi):**

<table>
<thead>
<tr>
<th>Factor</th>
<th>Value1</th>
<th>Value2</th>
<th>Value3</th>
<th>Value4</th>
<th>Value5</th>
<th>Value6</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>2.030</td>
<td>1.943</td>
<td>2.640</td>
<td>2.121</td>
<td>1.755</td>
<td>0.830</td>
</tr>
<tr>
<td>NOX</td>
<td>1.318</td>
<td>1.393</td>
<td>1.688</td>
<td>1.468</td>
<td>4.852</td>
<td>1.514</td>
</tr>
</tbody>
</table>

**File 2, Run 1, Scenario 6:**

* **Scenario 6:** HPMS Rural Local (MG Arterial/Collector)

**M583 Warning:**

The user supplied arterial average speed of 29.3 will be used for all hours of 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:** 65.0 (F)

**Maximum Temperature:** 86.3 (F)

**Absolute Humidity:** 94. grains/lb

**Nominal Fuel RVP:** 9.0 psi

**Weathered RVP:** 8.7 psi

**Fuel Sulfur Content:** 279. ppm

**Exhaust I/M Program:** No

**Evap I/M Program:** No

**ATP Program:** No

**Reformulated Gas:** No

**VMT Distribution:**

<table>
<thead>
<tr>
<th>VMT Distribution</th>
<th>&lt;6000</th>
<th>&gt;6000</th>
<th>(All)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0018</td>
<td>0.3146</td>
<td>0.1074</td>
<td>0.0277</td>
</tr>
<tr>
<td>0.0651</td>
<td></td>
<td></td>
<td>0.0012</td>
</tr>
</tbody>
</table>

**Composite Emission Factors (g/mi):**

<table>
<thead>
<tr>
<th>Factor</th>
<th>Value1</th>
<th>Value2</th>
<th>Value3</th>
<th>Value4</th>
<th>Value5</th>
<th>Value6</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>2.140</td>
<td>2.046</td>
<td>2.771</td>
<td>2.231</td>
<td>2.020</td>
<td>0.890</td>
</tr>
<tr>
<td>NOX</td>
<td>1.349</td>
<td>1.416</td>
<td>1.714</td>
<td>1.492</td>
<td>4.696</td>
<td>1.532</td>
</tr>
</tbody>
</table>

Page 11
Scenario 7: HPMS Urban Interstate (M6 Freeway/Freeway Ramp)

File 2, Run 1, Scenario 7.

M 52 Warning:

0.000 speed increased to 2.5 mph minimum

M514 Warning:

The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour. The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 2.7 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: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 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 LDGT LDGT12 LDGT34 LDGT HDGV LDDV
GVWR: <6000 >6000 (All)

VMT Distribution: 0.4144 0.2729 0.0932 0.0644 0.0011

Composite Emission Factors (g/mi): Composite VOC: 17.592 15.190 17.798 15.854 17.495 1.829
Composite NOX: 2.594 2.606 3.015 2.710 3.750 2.816

File 2, Run 1, Scenario 8.
MOBILE6 input & output - Greene.txt

0.000 speed increased to 2.5 mph minimum

M514 Warning:

The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour. The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 2.7 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: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 279. ppm

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

VMT Distribution: 0.4542 0.2992 0.1022 0.0416 0.0012

Composite Emission Factors (g/mi):

Composite VOC: 17.592 15.191 17.800 15.855 17.300 1.829
Composite NOX: 2.594 2.606 3.015 2.710 3.741 2.816

File 2, Run 1, Scenario 9.

M583 Warning:

The user supplied arterial average speed of 39.2 will be used for all hours of 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.
there are no sales for vehicle class HDGV8b

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 279. ppm

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

VMT Distribution: 0.4856 0.3199 0.1093 0.0235 0.0012

Composite Emission Factors (g/mi):
Composite VOC : 1.949 1.872 2.553 2.045 1.566 0.778
Composite NOx : 0.559 2.03 1.902

1.468 12.755 1.11 2.100

---

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2002
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 279. ppm
### MOBILE6 Input & Output - Greene.txt

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

<table>
<thead>
<tr>
<th>LDDT</th>
<th>Vehicle Type:</th>
<th>LDGV</th>
<th>LDGT12</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
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</thead>
<tbody>
<tr>
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<td>HDDV</td>
<td>MC</td>
<td>All Veh</td>
<td></td>
<td></td>
<td>(All)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GVWR:</td>
<td>&lt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**VMT Distribution:**  
0.0019  
0.0448  
0.0042  
1.0000

---

**Composite Emission Factors (g/mi):**  
**Composite VOC:**  
0.925  
0.575  
2.05  
1.934

**Composite NOX:**  
1.318  
1.398  
1.692  
1.966

---

**Scenario 11:** HPMS Urban Collector (M6 Arterial/Collector)  
**File 2, Run 1, Scenario 11.**

**M583 Warning:**  
The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

**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:** 65.0 (F)  
**Maximum Temperature:** 86.3 (F)  
**Absolute Humidity:** 94. grains/lb  
**Nominal Fuel RVP:** 9.0 psi  
**Weathered RVP:** 8.7 psi  
**Fuel Sulfur Content:** 279. ppm

---

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

<table>
<thead>
<tr>
<th>LDDT</th>
<th>Vehicle Type:</th>
<th>LDGV</th>
<th>LDGT12</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HDDV</td>
<td>MC</td>
<td>All Veh</td>
<td></td>
<td></td>
<td>(All)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GVWR:</td>
<td>&lt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**VMT Distribution:**  
0.5011  
0.3299  
0.1127  
0.0142  
0.0013
Composite Emission Factors (g/mi):

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>2.028</td>
<td>1.941</td>
<td>2.637</td>
<td>2.118</td>
</tr>
<tr>
<td>NOX</td>
<td>0.972</td>
<td>0.630</td>
<td>2.12</td>
<td>2.015</td>
</tr>
<tr>
<td></td>
<td>1.317</td>
<td>1.392</td>
<td>1.687</td>
<td>1.468</td>
</tr>
<tr>
<td></td>
<td>1.440</td>
<td>12.536</td>
<td>1.08</td>
<td>1.805</td>
</tr>
</tbody>
</table>

* Scenario 12: HPMS Urban Local (M6 Local Road) - 12.9

Reading Hourly Roadway VMT distribution from the following external:
data file: FVMTLOC1.DEF

Reading User Supplied ROADWAY VMT Factors:
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: 65.0°F
Maximum Temperature: 86.3°F
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 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

VMT Distribution:

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>0.5086</td>
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<td>0.1145</td>
<td></td>
</tr>
<tr>
<td>0.0020</td>
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<td>0.0026</td>
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</tr>
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</table>

Composite Emission Factors (g/mi):

<p>| | | | | |</p>
<table>
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<tr>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>VOC</td>
<td>3.103</td>
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<tr>
<td>NOX</td>
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<td>1.320</td>
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<tr>
<td></td>
<td>1.647</td>
<td>1.421</td>
<td>4.184</td>
<td>2.024</td>
</tr>
<tr>
<td></td>
<td>14.421</td>
<td>0.87</td>
<td>1.731</td>
<td></td>
</tr>
</tbody>
</table>

* MOBILE6.2.03 (24-Sep-2003)
* Input file: GREENE.IN (file 2, run 2)
User supplied alternate AC input: Cloud Cover Fraction set to 0.34.

User supplied alternate AC input: Sunrise at 6 AM, Sunset at 8 PM.

User has disabled the calculation of REFUELING emissions.

* Reading Registration Distributions from the following external
* data file: 28-REG.D

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

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

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

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

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

* Scenario 13: HPMS Rural Interstate (M6 Freeway/Freeway Ramp)

* File 2, Run 2, Scenario 1.

M 52 Warning:
0.000 speed increased to 2.5 mph minimum

M514 Warning:
The combined freeway and ramp average speed entered cannot be less than 2.6 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.6
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: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type: LDG V LDGT12 LDGT34 LDGT HDGV LDDV
MOBILE6 input & output - Greene.txt

<table>
<thead>
<tr>
<th>LDDT</th>
<th>HDDV</th>
<th>MC</th>
<th>All Veh\par</th>
<th>(All)\par</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>&lt;6000</td>
<td>&gt;6000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.3522</td>
<td>0.2319</td>
</tr>
<tr>
<td>0.0012</td>
<td>0.2333</td>
<td>0.0047</td>
<td>1.0000\par</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

---

---

VMT Distribution:  0.3522  0.2319  0.0790  0.0974  0.0003

---

Composite Emission Factors (g/mi):

- Composite VOC: 10.158  8.120  9.519  8.476  8.255  0.596
- Composite NOX: 1.446  1.508  1.941  1.618  1.655  0.939

---

---

**Scenario 14: HPMS Rural OPA (M6 Non-Ramp)**

---

**File 2, Run 2, Scenario 2.**

---

**M581 Warning:**

The user supplied freeway average speed of 51.5 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

**M615 Comment:**

User supplied VMT mix.

**M 48 Warning:**

there are no sales for vehicle class HDGVB

---

**Calendar Year:**  2010

**Month:**  July

**Altitude:**  Low

**Minimum Temperature:**  65.0 °F

**Maximum Temperature:**  86.3 °F

**Absolute Humidity:**  94. grains/1b

**Nominal Fuel RVP:**  9.0 psi

**Weathered RVP:**  8.7 psi

**Fuel Sulfur Content:**  30. ppm

---

**Exhaust I/M Program:**  No

**Evap I/M Program:**  No

**ATP Program:**  No

**Refurbished Gas:**  No

---

**Vehicle Type:**

<table>
<thead>
<tr>
<th>LDDT</th>
<th>HDDV</th>
<th>MC</th>
<th>All Veh\par</th>
<th>(All)\par</th>
</tr>
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<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.4329</td>
<td>0.2848</td>
</tr>
<tr>
<td>0.0014</td>
<td>0.1257</td>
<td>0.0052</td>
<td>1.0000\par</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

---

Composite Emission Factors (g/mi):

- Composite VOC: 1.003  0.933  1.153  0.989  0.636  0.209
- Composite NOX: 0.713  0.833  1.067  0.893  2.476  0.609

---
Scenario 15: HPMS Rural Minor Arterial (M6 Arterial/Collector)

File 2, Run 2, Scenario 3.

M615 Warning: User supplied VMT mix.

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

Calendar Year: 2010
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

<table>
<thead>
<tr>
<th>LDDT</th>
<th>Vehicle Type: LDGV</th>
<th>LDGT12</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HDDV</td>
<td>MC</td>
<td>All Veh</td>
<td>&lt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
</tr>
<tr>
<td>------</td>
<td>------</td>
<td>----</td>
<td>---------</td>
<td>-------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>VMT Distribution:</td>
<td>0.4658</td>
<td>0.3065</td>
<td>0.1045</td>
<td>0.0343</td>
<td>0.0004</td>
<td></td>
</tr>
<tr>
<td>0.0015</td>
<td>0.0827</td>
<td>0.0043</td>
<td>1.0000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Composite Emission Factors (g/mi):

Composite VOC : 1.030  0.953  1.179  1.011  0.664  0.214
Composite NOX : 0.705  0.822  1.054  0.881  2.410  0.556

Scenario 16: HPMS Rural Major Collector (M6 Arterial/Collector)

File 2, Run 2, Scenario 4.

M615 Warning: User supplied arterial average speed of 38.2
MOBILE6 input & output - Greene.txt
will be used for all hours of the day. 100% of VMT\par
has been assigned to the arterial/collector roadway\par
type for all hours of the day and all vehicle types.\par

M615 Comment: \par
User supplied VMT mix. \par
M 48 Warning: \par
there are no sales for vehicle class HDGV8b \par
\par
Calendar Year: 2010 \par
Month: July \par
Altitude: Low \par
Minimum Temperature: 65.0 (F) \par
Maximum Temperature: 86.3 (F) \par
Absolute Humidity: 94. grains/lb \par
Nominal Fuel RVP: 9.0 psi \par
Weathered RVP: 8.7 psi \par
Fuel Sulfur Content: 30. ppm \par
\par
Exhaust I/M Program: No \par
Evap I/M Program: No \par
ATP Program: No \par
Reformulated Gas: No \par
\par
Vehicle Type: LDGV LDGT12 LDGT34 LDGT LDGV LDDV
LDDT HDDV MC All Veh <6000 >6000 (All) \par
GVWR: \par
----- ----- ----- ----- ----- ----- \par
VMT Distribution: 0.4817 0.3169 0.1080 0.0252 0.0004 \par
0.0016 0.0613 0.0449 1.0000 \par
\par
Composite Emission Factors (g/mi): \par
Composite VOC : 1.090 0.997 1.236 1.058 0.744 0.234 \par
0.408 0.325 2.02 1.024 \par
Composite NOX : 0.689 0.799 1.031 0.858 2.264 0.497 \par
0.651 5.715 1.11 1.110 \par
\par
* Scenario 17: HPMS Rural Minor Collector (M6 Arterial/Collector) \par
* File 2, Run 2, Scenario 5. \par
\par
M583 Warning: \par
The user supplied arterial average speed of 33.9 \par
will be used for all hours of the day. 100% of VMT \par
has been assigned to the arterial/collector roadway \par
type for all hours of the day and all vehicle types. \par

M615 Comment: \par
User supplied VMT mix. \par
M 48 Warning: \par
there are no sales for vehicle class HDGV8b \par
\par
Calendar Year: 2010 \par
Month: July \par
Altitude: Low \par
Minimum Temperature: 65.0 (F) \par
Maximum Temperature: 86.3 (F)
**MOBILE6 input & output - Greene.txt**

**Absolute Humidity:** 94. grains/lb

**Nominal Fuel RVP:** 9.0 psi

**Weathered RVP:** 8.7 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

**HDDV**

**GVWR:**

<table>
<thead>
<tr>
<th></th>
<th>&lt;6000</th>
<th>&gt;6000</th>
<th>(All)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMT Distribution:</td>
<td>0.0015</td>
<td>0.0880</td>
<td>0.0211</td>
</tr>
</tbody>
</table>

**Composite Emission Factors (g/mi):**

**Composite VOC:**

<table>
<thead>
<tr>
<th></th>
<th>1.127</th>
<th>1.025</th>
<th>1.271</th>
<th>1.087</th>
<th>0.794</th>
<th>0.248</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.434</td>
<td>0.358</td>
<td>2.10</td>
<td>1.050</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Composite NOx:**

<table>
<thead>
<tr>
<th></th>
<th>0.689</th>
<th>0.795</th>
<th>1.027</th>
<th>0.854</th>
<th>2.180</th>
<th>0.490</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.642</td>
<td>5.596</td>
<td>1.08</td>
<td>1.249</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Scenario 18:** HPMS Rural Local (M6 Arterial/Collector)

**File 2, Run 2, Scenario 6.**

**M583 Warning:**

The user supplied arterial average speed of 29.2 will be used for all hours of 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:** 65.0 (F)

**Maximum Temperature:** 86.3 (F)

**Absolute Humidity:** 94. grains/lb

**Nominal Fuel RVP:** 9.0 psi

**Weathered RVP:** 8.7 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

**HDDV**

**GVWR:**

<table>
<thead>
<tr>
<th></th>
<th>&lt;6000</th>
<th>&gt;6000</th>
<th>(All)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.0015</td>
<td>0.0880</td>
<td>0.0211</td>
</tr>
</tbody>
</table>

Page 21
VMT Distribution: 0.4785 0.3149 0.1073 0.0270 0.0004
0.0016 0.0658 0.0045 1.0000

Composite Emission Factors (g/mi):

<table>
<thead>
<tr>
<th></th>
<th>Composite VOC</th>
<th>Composite NOx</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.471</td>
<td>1.184</td>
<td>1.331</td>
</tr>
<tr>
<td>0.408</td>
<td>1.071</td>
<td>1.137</td>
</tr>
<tr>
<td>0.222</td>
<td>2.22</td>
<td>0.880</td>
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<tr>
<td>1.108</td>
<td>1.108</td>
<td>0.268</td>
</tr>
<tr>
<td>0.650</td>
<td>0.706</td>
<td>1.045</td>
</tr>
<tr>
<td>5.715</td>
<td>1.04</td>
<td>2.110</td>
</tr>
<tr>
<td>1.144</td>
<td>1.144</td>
<td>0.496</td>
</tr>
</tbody>
</table>

* Scenario 19: HPMS Urban Interstate (M6 Freeway/Freeway Ramp)

File 2, Run 2, Scenario 7.

M 52 Warning:

0.000 speed increased to 2.5 mph minimum

M514 Warning:
The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour. The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7 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: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

LDDT Vehicle Type: LDGV LDGT LDGT12 LDGT34 LDGT HDGV LDDV
HDDV GWR: MC A1L Van <6000 >6000 (A1L)

VMT Distribution: 0.4151 0.2732 0.0931 0.0630 0.0004
0.0014 0.1513 0.0025 1.0000
**MOBILE6 input & output - Greene.txt**

**Composite Emission Factors (g/mi):**

<table>
<thead>
<tr>
<th></th>
<th>1.039</th>
<th>1.147</th>
<th>8.11</th>
<th>7.684</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composite VOC:</td>
<td>9.696</td>
<td>7.756</td>
<td>9.099</td>
<td>8.098</td>
</tr>
<tr>
<td>1.203</td>
<td>11.048</td>
<td>1.00</td>
<td>2.950</td>
<td></td>
</tr>
<tr>
<td>Composite NOX:</td>
<td>1.413</td>
<td>1.478</td>
<td>1.903</td>
<td>1.586</td>
</tr>
</tbody>
</table>

**Scenario 20: HPMS Urban Freeway/Expressway (M6 Freeway/Freeway Ramp)**

**File 2, Run 2, Scenario 8.**

**M 52 Warning:**

- Speed increased to 2.5 mph minimum

**M514 Warning:**

- Combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour.
- The average speed will be reset to this value.

**M582 Warning:**

- User supplied freeway average speed of 2.7
- 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:** 65.0 (F)

**Maximum Temperature:** 86.3 (F)

**Absolute Humidity:** 94. grains/lb

**Nominal Fuel RVP:** 9.0 psi

**Weathered RVP:** 8.7 psi

**Fuel Sulfur Content:** 30. ppm

**Exhaust I/M Program:** No

**Evap I/M Program:** No

**ATP Program:** No

**Reformulated Gas:** No

**VMT Distribution:**

- 0.4550
- 0.2995
- 0.0015
- 0.0974
- 0.0033
- 1.0000
- 0.1021
- 0.0408
- 0.0004

**Composite Emission Factors (g/mi):**

<table>
<thead>
<tr>
<th></th>
<th>1.039</th>
<th>1.145</th>
<th>8.1125</th>
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</thead>
<tbody>
<tr>
<td>Composite VOC:</td>
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<td>9.100</td>
</tr>
<tr>
<td>1.203</td>
<td>11.005</td>
<td>1.00</td>
<td>2.426</td>
</tr>
<tr>
<td>Composite NOX:</td>
<td>1.413</td>
<td>1.478</td>
<td>1.903</td>
</tr>
<tr>
<td>1.203</td>
<td>11.005</td>
<td>1.00</td>
<td>2.426</td>
</tr>
</tbody>
</table>
* Scenario 21: HPMS Urban OPA (M6 Arterial/Collector)

* File 2, Run 2, Scenario 9.

**M583 Warning:**
The user supplied arterial average speed of 36.3 will be used for all hours of 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 HDG8b

----

Calendar Year: 2010
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

---

Vehicle Type: LDGT34 LDGT LDGTV HDGV LDDV

<table>
<thead>
<tr>
<th>LDDT</th>
<th>HDDV</th>
<th>LDGV</th>
<th>LDGT12</th>
<th>VHR</th>
<th>&lt;6000</th>
<th>&gt;6000</th>
<th>(All)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VMT Distribution: 0.4864 0.3202 0.1092 0.0229 0.0004

---

Composite Emission Factors (g/ml):

| Composite VOC | 1.104 | 1.008 | 1.249 | 1.069 | 0.760 | 0.240 |
| Composite NOX | 2.05  | 1.041 | 0.687 | 0.795 | 1.027 | 0.854 | 2.218 | 0.493 |

-------

* Scenario 22: HPMS Urban Minor Arterial (M6 Arterial/Collector)

* File 2, Run 2, Scenario 10.

**M583 Warning:**
The user supplied arterial average speed of 37.7 will be used for all hours of the day. 100% of VMT
MOBILE6 input & output - Greene.txt
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: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution: 0.4940 0.3250 0.1108 0.0186 0.0004
0.0016 0.0454 0.0042 1.0000

Composite Emission Factors (g/mi):

Composite VOC: 1.093 1.000 1.239 1.061 0.750 0.235
0.411 0.329 2.02 1.040
Composite NOX: 0.689 0.798 1.030 0.857 2.257 0.496
0.650 5.701 1.10 1.020

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

* Scenario 23: HPMS Urban Collector (M6 Arterial/Collector)

* File 2, Run 2, Scenario 11.

* 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: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
MOBILE6 input & output - Greene.txt

Nominal Fuel RVP: 9.0 psi/par
Weathered RVP: 8.7 psi/par
Fuel Sulfur Content: 30. ppm/par

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

VMT Distribution: 0.5020 0.3303 0.1127 0.0139 0.0004

Composite Emission Factors (g/mi):

<table>
<thead>
<tr>
<th></th>
<th>LDGV</th>
<th>LDGT12</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MC</td>
<td>(All)</td>
<td>(All)</td>
<td>(All)</td>
<td>(All)</td>
<td>(All)</td>
</tr>
<tr>
<td>LDDT HDDV</td>
<td>VWR:</td>
<td>&lt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
<td>(All)</td>
<td>(All)</td>
</tr>
</tbody>
</table>

File 2, Run 2, Scenario 12.
Reading Hourly Roadway VMT distribution from the following external data file: FVMTOCL.DEF
Reading User Supplied ROADWAY VMT Factors
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: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm
MOBILE6 input & output - Greene.txt

VMT Distribution: 0.5094 0.3354 0.1144 0.0099 0.0005

Composite Emission Factors (g/mi):

<table>
<thead>
<tr>
<th>Factor</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Composite VOC</td>
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<td>Composite NOX</td>
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<td></td>
<td>0.959</td>
</tr>
<tr>
<td></td>
<td>0.87</td>
</tr>
</tbody>
</table>

* MOBILE6.20 (24-Sep-2003)
* Input file: GREENE.IN (File 2, run 3).
* User supplied alternate AC input: Cloud Cover Fraction set to 0.34.
* User supplied alternate AC input: Sunrise at 6 AM, Sunset at 8 PM.
* User has disabled the calculation of REFueling emissions.

* Reading Registration Distributions from the following external data file: 28-REG.D

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

* Scenario 25: HPMS Rural Interstate (M6 Freeway/Freeway Ramp)

* File 2, Run 3, Scenario 1.

M 52 Warning: 0.000 speed increased to 2.5 mph minimum
M 514 Warning: The combined freeway and ramp average speed entered cannot be less than 2.6 miles per hour. The average speed will be reset to this value.
M 582 Warning: The user supplied freeway average speed of 2.6 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.
M 615 Comment: User supplied VMT mix.
M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

VMT Distribution: 0.3522 0.2319 0.0790 0.0970 0.0003

Composite Emission Factors (g/mi):

Composite VOC : 5.657 4.738 6.770 5.255 5.226 0.346
Composite NOX : 0.910 8.44 4.386 0.989 1.016 1.318 0.806 0.448

M581 Warning: The user supplied freeway average speed of 51.4 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12
MOBILE6 input & output – Greene.txt

Fuel Sulfur Content: 30 ppm

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

<table>
<thead>
<tr>
<th>LDDT</th>
<th>Vehicle Type: LDG V</th>
<th>LDGT</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDDV</td>
<td>MC All Veh &lt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VMT Distribution: 0.4329 0.2848 0.0972 0.0522 0.0004

---

Composite Emission Factors (g/mi):

* Composite VOC: 0.629
* Composite NOX: 0.485

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0.236</td>
<td>0.202</td>
<td>1.92</td>
<td>0.592</td>
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</tr>
<tr>
<td>0.407</td>
<td>3.618</td>
<td>1.24</td>
<td>0.968</td>
<td></td>
</tr>
</tbody>
</table>

---

* Scenario 27: HPMS Rural Minor Arterial (M6 Arterial/Collector)
* File 2, Run 3, Scenario 3.

---

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: 2015
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

<table>
<thead>
<tr>
<th>LDDT</th>
<th>Vehicle Type: LDG V</th>
<th>LDGT</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDDV</td>
<td>MC All Veh &lt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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VMT Distribution:  0.4658  0.3065  0.1045  0.0341  0.0004
 0.0015  0.0829  0.0043  1.0000  

Composite Emission Factors (g/mi):

  Composite VOC:  0.644  0.631  0.894  0.698  0.441  0.124
  0.242  0.213  1.93  0.628

  Composite NOX:  0.479  0.556  0.732  0.601  1.172  0.265
  0.372  3.053  1.17  0.769

* Scenario 28: HPMS Rural Major Collector (M6 Arterial/Collector)

* File 2, Run 3, Scenario 4.

M583 Warning:
The user supplied arterial average speed of 38.1 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: 2015
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type: LDG V LDGTV LDGTV34 LDGTV (All)
LDDT HDDV MC ALL Veh<6000 >6000 (All)
GVWR: ------- ------- ------- ------- -------

VMT Distribution:  0.4817  0.3169  0.1080  0.0251  0.0004
  0.0016  0.0614  0.0049  1.0000

Composite Emission Factors (g/mi):

  Composite VOC:  0.678  0.655  0.931  0.725  0.492  0.136
  0.264  0.249  2.02  0.673

  Composite NOX:  0.468  0.541  0.715  0.585  1.100  0.237
  0.333  2.761  1.10  0.677

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* Scenario 29: HPMS Rural Minor Collector (M6 Arterial/Collector) 

* File 2, Run 3, Scenario 5.

* M583 Warning: The user supplied arterial average speed of 33.9 will be used for all hours of 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 HDGVb

* M 48 Warning: there are no sales for vehicle class LDGT12

---

Calendar Year: 2015
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 90. psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

---

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

---

LDDT HDDV LDGV LDGT12 LDGT34 LDGT HDGV LDDV

GVWR: <6000 >6000 (All)

---

VMT Distribution: 0.4528 0.2981 0.1016 0.0364 0.0004

---

Composite Emission Factors (g/mi):

<table>
<thead>
<tr>
<th>Vehicle Type</th>
<th>Composite VOC</th>
<th>Composite NOx</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDGV</td>
<td>0.699</td>
<td>0.468</td>
</tr>
<tr>
<td>LDGT12</td>
<td>0.671</td>
<td>0.538</td>
</tr>
<tr>
<td>LDGT34</td>
<td>0.954</td>
<td>0.713</td>
</tr>
<tr>
<td>LDGT</td>
<td>0.743</td>
<td>0.583</td>
</tr>
<tr>
<td>HDGV</td>
<td>0.524</td>
<td>1.061</td>
</tr>
<tr>
<td>LDDV</td>
<td>0.144</td>
<td>0.234</td>
</tr>
</tbody>
</table>

---

* Scenario 30: HPMS Rural Local (M6 Arterial/Collector)

* File 2, Run 3, Scenario 6.
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The user supplied arterial average speed of 29.2 is will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

User supplied VMT mix.
there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDGT12

Calendar Year: 2015
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 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
HDDV MC All Veh
GVWR <6000 >6000 (All)

VMT Distribution: 0.4785 0.3149 0.1073 0.0268 0.0004

Composite Emission Factors (g/mi):

| Composite VOC | 0.733 | 0.698 | 0.994 | 0.774 | 0.575 | 0.156 |
| Composite NOX | 0.480 | 0.548 | 0.725 | 0.593 | 1.026 | 0.237 |

Scenario 31: HPMS Urban Interstate (M6 Freeway/Freeway Ramp)

File 2, Run 3, Scenario 7.

0.000 speed increased to 2.5 mph minimum
The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour. The average speed will be reset to this value.
The user supplied freeway average speed of 2.7 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: 2015
Month: July
Altitude: Low
Minimum Temperature: 65.0 (F)
Maximum Temperature: 86.3 (F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

<table>
<thead>
<tr>
<th>LDDT</th>
<th>Vehicle Type</th>
<th>LDGV</th>
<th>LDGT12</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDDV</td>
<td></td>
<td>&lt;6000</td>
<td>(All)</td>
<td>(All)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MC</td>
<td>All Veh</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>VMT Distribution: 0.4151</td>
<td>0.2732</td>
<td>0.0931</td>
<td>0.0627</td>
<td>0.0004</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.0014</td>
<td>0.1516</td>
<td>0.0025</td>
<td>1.0000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Composite Emission Factors (g/mi):

Composite VOC : 5.404 4.530 6.473 5.024 4.990 0.335
Composite NOX : 0.966 0.996 1.293 1.071 0.820 0.437

---

* Scenario 32: HPMS Urban Freeway/Expressway (M6 Freeway/Freeway Ramp)

File 2, Run 3, Scenario 8.

M 52 Warning:
speed increased to 2.5 mph minimum

M514 Warning:
The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour. The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7 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: 2015

Month: July

Altitude: Low

Minimum Temperature: 65.0 (F)

Maximum Temperature: 86.3 (F)

Absolute Humidity: 94. grains/lb

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: No

Reformulated Gas: No

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

VMT Distribution:  0.4550  0.2995  0.1021  0.0406  0.0004

0.0015  0.0976  0.0033

Composite Emission Factors (g/mi):

Composite VOC:  5.404  4.530  6.473  5.024  4.980  0.335

Composite NOX:  0.876  8.11  4.792  0.966  0.996  1.293  1.071  0.819  0.437

* Scenario 33: HPMS Urban OPA (M6 Arterial/Collector)

* File 2, Run 3, Scenario 9.

* M583 Warning:

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

M615 Comment:

User supplied VMT mix.

M 48 Warning:

there are no sales for vehicle class LDDT12
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Fuel Sulfur Content: 30. ppm

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

Vehicle Type: LDGV, LDGTV12, LDGTV34, LDGT, HDGV, LDDV

VMT Distribution:

<table>
<thead>
<tr>
<th>VMT</th>
<th>LDGV</th>
<th>LDGTV12</th>
<th>LDGTV34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0016</td>
<td>0.4864</td>
<td>0.3202</td>
<td>0.1092</td>
<td>0.0229</td>
<td>0.0004</td>
<td></td>
</tr>
</tbody>
</table>

Composite Emission Factors (g/mi):

- Composite VOC: 0.699, 0.670, 0.953, 0.742, 0.522, 0.144
- Composite NOX: 0.468, 0.538, 0.713, 0.582, 1.061, 0.234

* Scenario 34: HPMS Urban Minor Arterial (M6 Arterial/Collector)

* File 2, Run 3, Scenario 10.

M583 Warning:
The user supplied arterial average speed of 37.5 mi/h will be used for all hours of 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 LDDTV12.

Calendar Year: 2015
Month: July
Altitude: Low
Minimum Temperature: 65.0°F
Maximum Temperature: 86.3°F
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm
VMT Distribution: 0.4940 0.3250 0.1108 0.0185 0.0004
0.0016 0.0455 0.0042 1.0000

Composite Emission Factors (g/mi):
Composite VOC : 0.681 0.657 0.934 0.727 0.496 0.137
0.266 0.253 2.03 0.683
Composite NOx : 0.468 0.540 0.714 0.584 1.096 0.237
0.332 2.753 1.10 0.636

Scenario 35: HPMS Urban Collector (MG Arterial/Collector)
File 2, Run 3, Scenario 11.

M583 Warning:
The user supplied arterial average speed of 33.9 will be used for all hours of 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.

M48 Warning:
there are no sales for vehicle class HDGV8B

M48 Warning:
there are no sales for vehicle class LDGT12

Calendar Year: 2015
Month: July
Altitude: Low
Minimum Temperature: 65.0 (°F)
Maximum Temperature: 86.3 (°F)
Absolute Humidity: 94. grains/lb
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.7 psi
Fuel Sulfur Content: 30. ppm

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

LDDT Vehicle Type: LDGV LDGT12 LDGT34 LDGT LDGV LDVV
HDDV GWR: MC All Veh<6000 >6000 (All)

VMT Distribution: 0.5019 0.3303 0.1126 0.0139 0.0005
0.0017 0.0335 0.0056 1.0000

Composite Emission Factors (g/mi):
Composite VOC : 0.699 0.670 0.954 0.743 0.524 0.144
0.279 0.274 2.10 0.709
Composite NOx : 0.468 0.538 0.713 0.583 1.061 0.234
0.328 2.691 1.08 0.605
Scenario 36: HPMS Urban Local (M6 Local Road) - 12.9

File 2, Run 3, Scenario 12.

Reading Hourly Roadway VMT distribution from the following external

data file: FVMTLOC1.DEF

Reading User Supplied ROADWAY VMT Factors

M615 Comment: \par
User supplied VMT mix. \par
M 48 Warning: \par
there are no sales for vehicle class HDGV8b \par
M 48 Warning: \par
there are no sales for vehicle class LDVT12 \par

Calendar Year: 2015 \par
Month: July \par
Altitude: Low \par
Minimum Temperature: 65.0 (F) \par
Maximum Temperature: 86.3 (F) \par
Absolute Humidity: 94. grains/lb \par
Nominal Fuel RVP: 9.0 psi \par
Weathered RVP: 8.7 psi \par
Fuel Sulfur Content: 30. ppm \par

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

<table>
<thead>
<tr>
<th>LDDT</th>
<th>Vehicle Type:</th>
<th>LDGV</th>
<th>LDGT12</th>
<th>LDGT34</th>
<th>LDGT</th>
<th>HDGV</th>
<th>LDDV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HDDV</td>
<td>MC</td>
<td>All Veh</td>
<td>&gt;6000</td>
<td>&gt;6000</td>
<td>(All)</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>------</td>
<td>----</td>
<td>--------</td>
<td>-------</td>
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</tr>
<tr>
<td>LDDT</td>
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</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VMT Distribution: 0.5094 0.3354 0.1144 0.0097 0.0005

Composite Emission Factors (g/mi):

<table>
<thead>
<tr>
<th>VOC</th>
<th>Composite VOC</th>
<th>1.039</th>
<th>0.985</th>
<th>1.380</th>
<th>1.086</th>
<th>1.065</th>
<th>0.236</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOX</td>
<td>Composite NOX</td>
<td>0.455</td>
<td>0.583</td>
<td>3.13</td>
<td>1.052</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>---------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td></td>
<td>NOX</td>
<td>0.484</td>
<td>0.540</td>
<td>0.707</td>
<td>0.583</td>
<td>0.911</td>
<td>0.313</td>
</tr>
<tr>
<td>-----</td>
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<td>-------</td>
</tr>
<tr>
<td></td>
<td>NOX</td>
<td>0.440</td>
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<td>0.621</td>
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</tr>
</tbody>
</table>