

VTM Distribution:0.2960 0.4322 0.1473 0.0341 0.0003 0.0022 0.0828 0.0051 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.242 0.417 0.337 0.396 0.406 0.059 0.136 0.226 2.59 0.347
Composite NOX: 0.134 0.253 0.271 0.258 0.625 0.062 0.168 1.329 1.06 0.326

* * * * *
* Rural major collector-Wake County-AM Peak
* File 29, Run 1, Scenario 4.
* * * * *
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

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

VTM Distribution:0.3052 0.4459 0.1520 0.0259 0.0003 0.0023 0.0631 0.0053 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.232 0.409 0.330 0.389 0.379 0.055 0.126 0.200 2.49 0.339
Composite NOX: 0.136 0.259 0.277 0.263 0.655 0.065 0.176 1.392 1.09 0.310

* * * * *
* Rural minor collector-Wake County-AM Peak
* File 29, Run 1, Scenario 5.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

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

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

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

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.242	0.417	0.337	0.396	0.406	0.059	0.136	0.226	2.59	0.350
Composite NOX:	0.134	0.253	0.271	0.258	0.625	0.062	0.168	1.328	1.06	0.295

* #

* Urban minor arterial-Wake County-AM Peak

* File 29, Run 1, Scenario 10.

* #

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 36.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

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

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.242	0.417	0.337	0.396	0.406	0.059	0.136	0.226	2.59	0.352
Composite NOX:	0.134	0.253	0.271	0.258	0.626	0.062	0.168	1.329	1.06	0.274

* #

* Urban collector-Wake County-AM Peak

* File 29, Run 1, Scenario 11.

* #

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

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

there are no sales for vehicle class LDPT12

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.246	0.420	0.341	0.400	0.417	0.061	0.140	0.237	2.64	0.357
Composite NOx:	0.134	0.253	0.271	0.258	0.616	0.062	0.167	1.320	1.05	0.266

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVMR:	<6000	>6000	(All)							
VMT Distribution:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.246	0.420	0.341	0.400	0.416	0.061	0.140	0.237	2.64	0.355
Composite NOX:	0.134	0.253	0.271	0.258	0.616	0.062	0.167	1.323	1.05	0.286

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.220	0.398	0.321	0.379	0.350	0.050	0.115	0.173	2.44	0.301
Composite NOX:	0.141	0.271	0.290	0.275	0.707	0.080	0.216	1.829	1.23	0.638

* * * * *
 * Rural principle arterial-Wake County-PM Peak
 * File 29, Run 1, Scenario 14.
 * * * * *
 * Rural other principle arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 54.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2865	0.4185	0.1427		0.0422	0.0003	0.0021	0.1027	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.220	0.397	0.320	0.378	0.349	0.050	0.115	0.171	2.44	0.320
Composite NOX:	0.141	0.272	0.291	0.277	0.712	0.082	0.221	1.873	1.26	0.425

* * * * *
 * Rural minor arterial-Wake County-PM Peak
 * File 29, Run 1, Scenario 15.
 * * * * *
 * Rural minor arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 37.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.240	0.415	0.336	0.395	0.401	0.059	0.134	0.221	2.57	0.345
Composite NOX:	0.134	0.254	0.272	0.259	0.630	0.062	0.169	1.336	1.06	0.328

* #
 * Rural major collector-Wake County-PM Peak
 * File 29, Run 1, Scenario 16.
 * #
 * Rural major collector mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.232	0.409	0.330	0.389	0.379	0.055	0.126	0.200	2.49	0.339
Composite NOX:	0.136	0.259	0.277	0.263	0.655	0.065	0.176	1.392	1.09	0.310

* #
 * Rural minor collector-Wake County-PM Peak

Composite NOX: 0.135 0.258 0.276 0.262 0.649 0.064 0.173 1.372 1.08 0.307

* #

* Urban interstate-Wake County-PM Peak

* File 29, Run 1, Scenario 19.

* #

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* Urban interstate mix and speeds
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M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 52.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

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

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there are no sales for vehicle class LDDT12
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Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

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

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

VMT Distribution:0.2742 0.4007 0.1367 0.0529 0.0002 0.0020 0.1285 0.0048 1.0000

Composite Emission Factors (g/mi):

Composite VOC: 0.221 0.399 0.322 0.379 0.352 0.051 0.116 0.174 2.44 0.317

Composite VOC:	0.221	0.399	0.322	0.379	0.332	0.691	0.116	0.171	2.11	0.317
Composite NOX:	0.140	0.269	0.289	0.274	0.703	0.078	0.211	1.786	1.21	0.459

* #

* Urban freeway-Wake County-PM Peak

* File 29, Run 1, Scenario 20.

* #

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

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

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
MT Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.242	0.417	0.337	0.396	0.406	0.059	0.136	0.226	2.59	0.352
Composite NOX:	0.134	0.253	0.271	0.258	0.626	0.062	0.168	1.329	1.06	0.274

```

M583 Warning:
    The user supplied arterial average speed of 34.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.246	0.420	0.341	0.400	0.417	0.061	0.140	0.237	2.64	0.357
Composite NOX:	0.134	0.253	0.271	0.258	0.616	0.062	0.167	1.320	1.05	0.266

```

M583 Warning:
    The user supplied arterial average speed of 34.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

```

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

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* #####
* Rural interstate-Wake County-OP Peak
* File 29, Run 1, Scenario 25.
* #####
* Rural interstate mix and speeds
M615 Comment:
      User supplied VMT mix.
M581 Warning:
      The user supplied freeway average speed of 57.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
      there are no sales for vehicle class LDDT12

```

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

```
* #####  
* Rural principle arterial-Wake County-OP Peak  
* File 29, Run 1, Scenario 26.  
* #####  
* Rural other principle arterial mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
M581 Warning:  
    The user supplied freeway average speed of 58.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the freeway roadway type for  
    all hours of the day and all vehicle types.  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b  
M 48 Warning:  
    there are no sales for vehicle class LDDT12
```

5-1087
Appendix C.3
June 7, 2007

Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2865	0.4185	0.1427		0.0422	0.0003	0.0021	0.1027	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.218	0.395	0.318	0.375	0.344	0.050	0.113	0.168	2.65	0.318
Composite NOX:	0.143	0.276	0.296	0.281	0.731	0.093	0.251	2.113	1.35	0.454

* #
 * Rural minor arterial-Wake County-OP Peak
 * File 29, Run 1, Scenario 27.
 * #
 * Rural minor arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.231	0.408	0.329	0.388	0.376	0.054	0.124	0.196	2.48	0.335
Composite NOX:	0.136	0.260	0.278	0.264	0.659	0.066	0.178	1.408	1.09	0.339

* #
 * Rural major collector-Wake County-OP Peak
 * File 29, Run 1, Scenario 28.
 * #
 * Rural major collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.229	0.407	0.329	0.387	0.372	0.054	0.123	0.193	2.47	0.337
Composite NOX:	0.137	0.261	0.279	0.266	0.664	0.066	0.180	1.424	1.10	0.314

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.232	0.409	0.330	0.389	0.379	0.055	0.126	0.200	2.49	0.339
Composite NOX:	0.136	0.259	0.277	0.263	0.655	0.065	0.176	1.390	1.09	0.311

5-1089
Appendix C.3
June 7, 2007

type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.232	0.409	0.330	0.389	0.379	0.055	0.126	0.200	2.49	0.339
Composite NOX:	0.136	0.259	0.277	0.263	0.654	0.065	0.176	1.389	1.09	0.309

* * * * *
* Urban interstate-Wake County-OP Peak
* File 29, Run 1, Scenario 31.
* * * * *
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

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

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2742	0.4007	0.1367		0.0529	0.0002	0.0020	0.1285	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.218	0.395	0.318	0.375	0.344	0.050	0.113	0.168	2.65	0.314
Composite NOX:	0.143	0.276	0.296	0.281	0.731	0.093	0.251	2.112	1.35	0.507

* * * * *
* Urban freeway-Wake County-OP Peak
* File 29, Run 1, Scenario 32.
* * * * *
* Urban freeway mix and speeds
M615 Comment:

```

M581 Warning:
    The user supplied freeway average speed of 58.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.218	0.395	0.318	0.375	0.344	0.050	0.113	0.168	2.65	0.322
Composite NOX:	0.143	0.276	0.296	0.281	0.731	0.093	0.251	2.112	1.35	0.402

```
* #####
* Urban principle arterial-Wake County-OP Peak
* File 29, Run 1, Scenario 33.
* #####
* Urban principle arterial mix and speeds
```

```

M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 41.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.234	0.410	0.332	0.390	0.383	0.056	0.127	0.203	2.50	0.341
Composite NOX:	0.135	0.258	0.276	0.262	0.649	0.064	0.173	1.373	1.08	0.301

* ##

* Urban minor arterial mix and speeds

M583 Warning:

type for all hours of the day and all vehicle types.

```
there are no sales for vehicle class HDGV8b
```

```

there are no sales for vehicle class LDDT12

```

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

GVWR: <6000 >6000 (All)

VMT Distribution:0.3153 0.4607 0.1570 0.0171 0.0003 0.0024 0.0417 0.0055 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.235	0.411	0.333	0.391	0.388	0.056	0.129	0.207	2.52	0.345
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOx: 0.135 0.256 0.275 0.261 0.644 0.063 0.171 1.356 1.08 0.278

* ##

* Urban collector-Wake County-OP Peak

* File 29, Run 1, Scenario 35.

* #

* Urban collector mix and speeds

User supplied VMT mix.

The user supplied arterial average speed of 37.0

```

there are no sales for vehicle class HDGV8b

```

```

there are no sales for vehicle class LDDT12

```

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

Vehicle type:	EDGV	EDG112	EDG194	EDG1	EDGV	EDDV	EDD1	EDDV	MC	All	veh
GVWB:	<6000	>6000	(All)								

VMT Distribution:0.3181 0.4646 0.1583 0.0148 0.0003 0.0024 0.0360 0.0055 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.240	0.415	0.336	0.395	0.401	0.059	0.134	0.221	2.57	0.351
Composite NOX:	0.134	0.254	0.272	0.259	0.630	0.062	0.169	1.333	1.06	0.267

* * * * *

* Urban local-Wake County-OP Peak

* File 29, Run 1, Scenario 36.

* * * * *

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

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

VMT Distribution:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.242	0.417	0.337	0.396	0.405	0.059	0.136	0.226	2.59	0.351
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX:	0.134	0.253	0.271	0.258	0.625	0.062	0.168	1.329	1.06	0.286
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural interstate-Durham County-AM Peak

* File 29, Run 1, Scenario 37.

* * * * *

* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

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

Mobile Source Inventory

Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone

Redesignation Demonstration and Maintenance Plan

5-1093

Appendix C.3

June 7, 2007

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

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

VMT Distribution:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.224	0.403	0.325	0.383	0.361	0.052	0.119	0.182	2.45	0.328
Composite NOX:	0.138	0.265	0.284	0.270	0.683	0.071	0.193	1.528	1.14	0.354

* #

* Rural major collector-Durham County-AM Peak

* File 29, Run 1, Scenario 40.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.227	0.405	0.327	0.385	0.366	0.053	0.121	0.187	2.46	0.334
Composite NOX:	0.138	0.263	0.282	0.268	0.674	0.068	0.185	1.471	1.11	0.319

* #

* Rural minor collector-Durham County-AM Peak

* File 29, Run 1, Scenario 41.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.234	0.410	0.332	0.390	0.383	0.056	0.127	0.203	2.50	0.341
Composite NOX:	0.135	0.258	0.276	0.262	0.649	0.064	0.173	1.373	1.08	0.309

```
* #####
* Rural local-Durham County-AM Peak
* File 29, Run 1, Scenario 42.
* #####
* Rural local mix and speeds
* M615 Comment:
```

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.232	0.409	0.330	0.389	0.379	0.055	0.126	0.200	2.49	0.339
Composite NOX:	0.136	0.259	0.277	0.263	0.654	0.065	0.176	1.389	1.09	0.309

```
* * * * *
* Urban interstate-Durham County-AM Peak
* File 29, Run 1, Scenario 43.
* * * * *
* Urban interstate mix and speeds
* M615 Comment:
      User supplied VMT mix.
```

M581 Warning:
The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

```
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July
Altitude: Low

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

```

* #####
* Urban freeway-Durham County-AM Peak
* File 29, Run 1, Scenario 44.
* #####
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

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

```
* #####
* Urban principle arterial-Durham County-AM Peak
* File 29, Run 1, Scenario 45.
* #####
* Urban principle arterial mix and speeds
  M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 36.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
```



```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTMT Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.242	0.417	0.337	0.396	0.406	0.059	0.136	0.226	2.59	0.350
Composite NOX:	0.134	0.253	0.271	0.258	0.625	0.062	0.168	1.328	1.06	0.299

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.246	0.420	0.341	0.400	0.417	0.061	0.140	0.237	2.64	0.357
Composite NOX:	0.134	0.253	0.271	0.258	0.616	0.062	0.167	1.324	1.05	0.274

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.243	0.418	0.339	0.398	0.411	0.060	0.138	0.231	2.62	0.354
Composite NOX:	0.133	0.252	0.270	0.257	0.620	0.062	0.167	1.318	1.05	0.265

* #

* Urban local-Durham County-AM Peak

* File 29, Run 1, Scenario 48.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.246	0.420	0.341	0.400	0.416	0.061	0.140	0.237	2.64	0.355
Composite NOX:	0.134	0.253	0.271	0.258	0.616	0.062	0.167	1.323	1.05	0.286

* #

* Rural interstate-Durham County-PM Peak

* File 29, Run 1, Scenario 49.

* #

* Rural interstate mix and speeds

M615 Comment:
 User supplied VMT mix.

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

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.219	0.397	0.320	0.377	0.347	0.050	0.114	0.170	2.44	0.299
Composite NOX:	0.142	0.273	0.292	0.278	0.716	0.083	0.226	1.912	1.28	0.659

* * * * *

* Rural principle arterial-Durham County-PM Peak

* File 29, Run 1, Scenario 50.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 51.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2865	0.4185	0.1427		0.0422	0.0003	0.0021	0.1027	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.222	0.400	0.322	0.380	0.354	0.051	0.117	0.176	2.44	0.322
Composite NOX:	0.140	0.268	0.287	0.273	0.698	0.076	0.205	1.742	1.19	0.408

there are no sales for vehicle class LDDT12

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

```
there are no sales for vehicle class LDDT12
```

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

5-1101
Appendix C.3
June 7, 2007

Composite Emission Factors (g/mi):
 Composite VOC: 0.226 0.404 0.326 0.384 0.363 0.052 0.120 0.185 2.45 0.333
 Composite NOX: 0.138 0.264 0.283 0.269 0.679 0.070 0.189 1.500 1.13 0.321

* * * * *
 * Rural minor collector-Durham County-PM Peak
 * File 29, Run 1, Scenario 53.
 * * * * *
 * Rural minor collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.229 0.407 0.329 0.387 0.372 0.054 0.123 0.193 2.47 0.336
 Composite NOX: 0.137 0.261 0.279 0.266 0.664 0.066 0.180 1.423 1.10 0.315

* * * * *
 * Rural local-Durham County-PM Peak
 * File 29, Run 1, Scenario 54.
 * * * * *
 * Rural local mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Composite Emission Factors (g/mi):										
Composite VOC:	0.231	0.408	0.329	0.388	0.375	0.054	0.124	0.196	2.48	0.338
Composite NOX:	0.136	0.260	0.278	0.264	0.659	0.066	0.178	1.406	1.09	0.311

```
* #####
* Urban interstate-Durham County-PM Peak
* File 29, Run 1, Scenario 55.
* #####
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.2742	0.4007	0.1367		0.0529	0.0002	0.0020	0.1285	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.220	0.398	0.321	0.379	0.351	0.050	0.115	0.173	2.44	0.317
Composite NOX:	0.141	0.271	0.290	0.275	0.707	0.080	0.216	1.830	1.23	0.466

```

* #####
* Urban freeway-Durham County-PM Peak
* File 29, Run 1, Scenario 56.
* #####
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 47.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.226	0.404	0.326	0.384	0.363	0.052	0.120	0.185	2.45	0.331
Composite NOX:	0.138	0.264	0.283	0.269	0.679	0.070	0.189	1.612	1.13	0.351

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.240	0.415	0.336	0.395	0.401	0.059	0.134	0.221	2.57	0.348
Composite NOX:	0.134	0.254	0.272	0.259	0.630	0.062	0.169	1.335	1.06	0.299

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.243	0.418	0.339	0.398	0.411	0.060	0.138	0.231	2.62	0.354
Composite NOX:	0.133	0.252	0.270	0.257	0.620	0.062	0.167	1.322	1.05	0.273

```

* #####
* Urban collector-Durham County-PM Peak
* File 29, Run 1, Scenario 59.
* #####
* Urban collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 35.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.243	0.418	0.339	0.398	0.411	0.060	0.138	0.231	2.62	0.354
Composite NOX:	0.133	0.252	0.270	0.257	0.620	0.062	0.167	1.318	1.05	0.265

```

* #####
* Urban local-Durham County-PM Peak
* File 29, Run 1, Scenario 60.
* #####
* Urban local mix and speeds
* M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 33.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
      there are no sales for vehicle class LDDT12

```

Calendar Year: 2017
Month: July

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

```
* #####
* Rural interstate-Durham County-OP Peak
* File 29, Run 1, Scenario 61.
* #####
* Rural interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 63.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural principle arterial-Durham County-OP Peak
* File 29, Run 1, Scenario 62.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

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

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2865	0.4185	0.1427		0.0422	0.0003	0.0021	0.1027	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.220	0.398	0.321	0.379	0.350	0.050	0.115	0.173	2.44	0.321
Composite NOX:	0.141	0.271	0.290	0.275	0.707	0.080	0.216	1.831	1.23	0.419

* #
* Rural minor arterial-Durham County-OP Peak
* File 29, Run 1, Scenario 63.
* #
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.221	0.399	0.322	0.379	0.352	0.051	0.116	0.174	2.44	0.324
Composite NOX:	0.140	0.269	0.289	0.274	0.702	0.078	0.211	1.674	1.21	0.370

* #
* Rural major collector-Durham County-OP Peak
* File 29, Run 1, Scenario 64.
* #
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.224	0.403	0.325	0.383	0.361	0.052	0.119	0.182	2.45	0.332
Composite NOX:	0.138	0.265	0.284	0.270	0.683	0.071	0.193	1.529	1.14	0.324

* #

* Rural minor collector-Durham County-OP Peak

* File 29, Run 1, Scenario 65.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.227	0.405	0.327	0.385	0.366	0.053	0.121	0.187	2.46	0.334
Composite NOX:	0.138	0.263	0.282	0.268	0.674	0.068	0.185	1.469	1.11	0.320

* #

* Rural local-Durham County-OP Peak

* File 29, Run 1, Scenario 66.

* #


```
* Urban freeway-Durham County-OP Peak
* File 29, Run 1, Scenario 68.
* #####
```

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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

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

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.221	0.399	0.322	0.379	0.352	0.051	0.116	0.174	2.44	0.325
Composite NOX:	0.140	0.269	0.289	0.274	0.703	0.078	0.211	1.786	1.21	0.379

```
* #####
* Urban principle arterial-Durham County-OP Peak
* File 29, Run 1, Scenario 69.
```

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

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

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

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000

```
* #####
* Urban minor arterial-Durham County-OP Peak
* File 29, Run 1, Scenario 70.
* #####
* Urban minor arterial mix and speeds
M615 Comment:
```

```

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

```

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

```
M 48 Warning: there are no sales for vehicle class LDPT12
```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

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

Composite Emission Factors (g/mi):										
Composite VOC:	0.238	0.414	0.335	0.394	0.396	0.058	0.132	0.216	2.55	0.348
Composite NOX:	0.134	0.255	0.273	0.260	0.635	0.063	0.169	1.343	1.07	0.276

```
* #####
* Urban collector-Durham County-OP Peak
* File 29, Run 1, Scenario 71.
* #####
* Urban collector mix and speeds
* M615 Comment:
```

```

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

```

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

```
M 48 Warning:
      there are no sales for vehicle class LDPT12
```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.235	0.411	0.333	0.391	0.387	0.056	0.129	0.207	2.52	0.346
Composite NOX:	0.135	0.256	0.275	0.261	0.644	0.063	0.171	1.352	1.08	0.270

* * * * *

* Urban local-Durham County-OP Peak

* File 29, Run 1, Scenario 72.

* * * * *

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.243	0.418	0.339	0.398	0.411	0.060	0.138	0.231	2.62	0.353
Composite NOX:	0.133	0.253	0.270	0.257	0.620	0.062	0.167	1.321	1.05	0.285

Composite VOC:	0.314	0.532	0.432	0.506	0.406	0.059	0.136	0.226	2.59	0.433
Composite NOX:	0.216	0.383	0.380	0.382	0.625	0.062	0.168	1.329	1.06	0.422

* * * * *

* Rural major collector-Wake County-AM Peak

* File 30, Run 1, Scenario 4.

* * * * *

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

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

VMT Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.302	0.520	0.421	0.495	0.379	0.055	0.126	0.200	2.49	0.424
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX:	0.217	0.389	0.386	0.388	0.655	0.065	0.176	1.392	1.09	0.409
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural minor collector-Wake County-AM Peak

* File 30, Run 1, Scenario 5.

* * * * *

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

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

Mobile Source Inventory

Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone

Redesignation Demonstration and Maintenance Plan

5-1115

Appendix C.3

June 7, 2007

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2742	0.4007	0.1367		0.0529	0.0002	0.0020	0.1285	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.287	0.504	0.408	0.480	0.354	0.051	0.117	0.176	2.44	0.390
Composite NOX:	0.222	0.400	0.398	0.400	0.698	0.076	0.205	1.741	1.19	0.542

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.287	0.504	0.408	0.480	0.354	0.051	0.117	0.176	2.44	0.404
Composite NOX:	0.222	0.400	0.398	0.400	0.698	0.076	0.205	1.741	1.19	0.464

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.314	0.532	0.432	0.506	0.406	0.059	0.136	0.226	2.59	0.439
Composite NOX:	0.216	0.383	0.380	0.382	0.625	0.062	0.168	1.328	1.06	0.395

* #
* Urban minor arterial-Wake County-AM Peak
* File 30, Run 1, Scenario 10.
* #
* Urban minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.314	0.532	0.432	0.506	0.406	0.059	0.136	0.226	2.59	0.443
Composite NOX:	0.216	0.383	0.380	0.382	0.626	0.062	0.168	1.329	1.06	0.376

* #
* Urban collector-Wake County-AM Peak
* File 30, Run 1, Scenario 11.
* #
* Urban collector mix and speeds
M615 Comment:
User supplied VMT mix.

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

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

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

Calendar Year: 2017
Month: July
Altitude: Low

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

```

* #####
* Urban local-Wake County-AM Peak
* File 30, Run 1, Scenario 12.
* #####
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 34.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

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

```
* #####
* Rural interstate-Wake County-PM Peak
* File 30, Run 1, Scenario 13.
* #####
* Rural interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
```

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

```
* #####
* Rural principle arterial-Wake County-PM Peak
* File 30, Run 1, Scenario 14.
* #####
* Rural other principle arterial mix and speeds
```

```

M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 54.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2865	0.4185	0.1427		0.0422	0.0003	0.0021	0.1027	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.284	0.500	0.404	0.475	0.349	0.050	0.115	0.171	2.44	0.393
Composite NOX:	0.224	0.404	0.402	0.404	0.712	0.082	0.221	1.873	1.26	0.520

```
* #####
* Rural minor arterial-Wake County-PM Peak
* File 30, Run 1, Scenario 15.
* #####
* Rural minor arterial mix and speeds
```

```

Main minor arterial mix and speeds
M615 Comment:
        User supplied VMT mix.
M583 Warning:
        The user supplied arterial average speed of 37.0
        will be used for all hours of the day. 100% of VMT

```

```

M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12

```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.312	0.530	0.430	0.504	0.401	0.059	0.134	0.221	2.57	0.430
Composite NOX:	0.216	0.384	0.381	0.383	0.630	0.062	0.169	1.336	1.06	0.424

```

* #####
* Rural major collector-Wake County-PM Peak
* File 30, Run 1, Scenario 16.
* #####
* Rural major collector mix and speeds
M615 Comment:
      User supplied VMT mix.

```

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.302	0.520	0.421	0.495	0.379	0.055	0.126	0.200	2.49	0.424
Composite NOX:	0.217	0.389	0.386	0.388	0.655	0.065	0.176	1.392	1.09	0.400

```
* #####
* Rural minor collector-Wake County-PM Peak
* File 30, Run 1, Scenario 17.
* #####
* Rural minor collector mix and speeds
```


M615 Comment:
 User supplied VMT mix.

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

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.522	0.423	0.497	0.383	0.056	0.127	0.203	2.50	0.426
Composite NOX:	0.217	0.388	0.384	0.387	0.649	0.064	0.173	1.373	1.08	0.408

* * * * *
 * Rural local-Wake County-PM Peak
 * File 30, Run 1, Scenario 18.
 * * * * *
 * Rural local mix and speeds
 M615 Comment:
 User supplied VMT mix.

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

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.522	0.423	0.497	0.383	0.056	0.127	0.203	2.50	0.426
Composite NOX:	0.217	0.388	0.384	0.387	0.649	0.064	0.173	1.372	1.08	0.407

there are no sales for vehicle class LDDT12

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

```
there are no sales for vehicle class LDDT12
```

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

5-1123
Appendix C.3
June 7, 2007

Composite Emission Factors (g/mi):
 Composite VOC: 0.285 0.501 0.405 0.477 0.350 0.050 0.115 0.173 2.44 0.401
 Composite NOX: 0.223 0.403 0.400 0.402 0.707 0.080 0.216 1.830 1.23 0.473

* * * * *
 * Urban principle arterial-Wake County-PM Peak
 * File 30, Run 1, Scenario 21.
 * * * * *
 * Urban principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 36.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.314 0.532 0.432 0.506 0.406 0.059 0.136 0.226 2.59 0.439
 Composite NOX: 0.216 0.383 0.380 0.382 0.625 0.062 0.168 1.328 1.06 0.395

* * * * *
 * Urban minor arterial-Wake County-PM Peak
 * File 30, Run 1, Scenario 22.
 * * * * *
 * Urban minor arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 36.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Composite Emission Factors (g/mi):										
Composite VOC:	0.314	0.532	0.432	0.506	0.406	0.059	0.136	0.226	2.59	0.443
Composite NOX:	0.216	0.383	0.380	0.382	0.626	0.062	0.168	1.329	1.06	0.376

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.319	0.538	0.437	0.512	0.417	0.061	0.140	0.237	2.64	0.450
Composite NOX:	0.217	0.383	0.380	0.382	0.616	0.062	0.167	1.320	1.05	0.370

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.319	0.538	0.437	0.512	0.416	0.061	0.140	0.237	2.64	0.447
Composite NOX:	0.217	0.383	0.380	0.382	0.616	0.062	0.167	1.323	1.05	0.387

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.281	0.495	0.400	0.471	0.345	0.050	0.114	0.168	2.59	0.356
Composite NOx:	0.226	0.409	0.406	0.408	0.727	0.090	0.243	2.048	1.33	0.768

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

```

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2865	0.4185	0.1427		0.0422	0.0003	0.0021	0.1027	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.280	0.494	0.399	0.470	0.344	0.050	0.113	0.168	2.65	0.389
Composite NOX:	0.226	0.410	0.407	0.409	0.731	0.093	0.251	2.113	1.35	0.550

* #
* Rural minor arterial-Wake County-OP Peak
* File 30, Run 1, Scenario 27.
* #
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.300	0.518	0.420	0.493	0.376	0.054	0.124	0.196	2.48	0.417
Composite NOX:	0.218	0.390	0.387	0.389	0.659	0.066	0.178	1.408	1.09	0.435

* #
* Rural major collector-Wake County-OP Peak
* File 30, Run 1, Scenario 28.
* #
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.298	0.516	0.418	0.491	0.372	0.054	0.123	0.193	2.47	0.420
Composite NOX:	0.218	0.391	0.388	0.391	0.664	0.066	0.180	1.424	1.10	0.414

* * * * *
 * Rural minor collector-Wake County-OP Peak
 * File 30, Run 1, Scenario 29.
 * * * * *
 * Rural minor collector mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.302	0.520	0.421	0.495	0.379	0.055	0.126	0.200	2.49	0.424
Composite NOX:	0.217	0.389	0.386	0.388	0.655	0.065	0.176	1.390	1.09	0.410

* * * * *
 * Rural local-Wake County-OP Peak
 * File 30, Run 1, Scenario 30.
 * * * * *
 * Rural local mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.302	0.520	0.421	0.495	0.379	0.055	0.126	0.200	2.49	0.424
Composite NOX:	0.217	0.389	0.386	0.388	0.654	0.065	0.176	1.389	1.09	0.409

* * * * *
* Urban interstate-Wake County-OP Peak
* File 30, Run 1, Scenario 31.
* * * * *
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

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

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

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

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2742	0.4007	0.1367		0.0529	0.0002	0.0020	0.1285	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.280	0.494	0.399	0.470	0.344	0.050	0.113	0.168	2.65	0.382
Composite NOX:	0.226	0.410	0.407	0.409	0.731	0.093	0.251	2.112	1.35	0.599

* * * * *
* Urban freeway-Wake County-OP Peak
* File 30, Run 1, Scenario 32.
* * * * *
* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.280	0.494	0.399	0.470	0.344	0.050	0.113	0.168	2.65	0.396
Composite NOX:	0.226	0.410	0.407	0.409	0.731	0.093	0.251	2.112	1.35	0.501

* * * * *

* Urban principle arterial-Wake County-OP Peak

* File 30, Run 1, Scenario 33.

* * * * *

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.522	0.423	0.497	0.383	0.056	0.127	0.203	2.50	0.427
Composite NOX:	0.217	0.388	0.384	0.387	0.649	0.064	0.173	1.373	1.08	0.401

* * * * *

* Urban minor arterial-Wake County-OP Peak

* File 30, Run 1, Scenario 34.

* * * * *

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.306	0.524	0.425	0.499	0.388	0.056	0.129	0.207	2.52	0.434
Composite NOX:	0.216	0.386	0.383	0.385	0.644	0.063	0.171	1.356	1.08	0.380

* #

* Urban collector-Wake County-OP Peak

* File 30, Run 1, Scenario 35.

* #

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.312	0.530	0.430	0.504	0.401	0.059	0.134	0.221	2.57	0.442
Composite NOX:	0.216	0.384	0.381	0.383	0.630	0.062	0.169	1.333	1.06	0.371


```
* #####
* Rural major collector-Durham County-AM Peak
*   File 30, Run 1, Scenario 40.
* #####
* Rural major collector mix and speeds
* M615 Comment:
```

M615 Comment: User supplied VMT mix.

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

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

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

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

```
* #####
* Rural minor collector-Durham County-AM Peak
* File 30, Run 1, Scenario 41.
* #####
* Rural minor collector mix and speeds
* M615 Comment:
```

```

M583 Warning:
    User supplied VMT mix.
    The user supplied arterial average speed of 41.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.522	0.423	0.497	0.383	0.056	0.127	0.203	2.50	0.426
Composite NOX:	0.217	0.388	0.384	0.387	0.649	0.064	0.173	1.373	1.08	0.408

* #
* Rural local-Durham County-AM Peak
* File 30, Run 1, Scenario 42.
* #
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.302	0.520	0.421	0.495	0.379	0.055	0.126	0.200	2.49	0.424
Composite NOX:	0.217	0.389	0.386	0.388	0.654	0.065	0.176	1.389	1.09	0.409

* #
* Urban interstate-Durham County-AM Peak
* File 30, Run 1, Scenario 43.
* #
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

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

```
* #####
* Urban freeway-Durham County-AM Peak
* File 30, Run 1, Scenario 44.
* #####
* Urban freeway mix and speeds
* M615 Comment:
      User supplied VMT mix.
M581 Warning:
      The user supplied freeway average speed of 46.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
      there are no sales for vehicle class LDDT12
```

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

```

* #####
* Urban principle arterial-Durham County-AM Peak
* File 30, Run 1, Scenario 45.
* #####
* Urban principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 36.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.314	0.532	0.432	0.506	0.406	0.059	0.136	0.226	2.59	0.439
Composite NOX:	0.216	0.383	0.380	0.382	0.625	0.062	0.168	1.328	1.06	0.395

* #
 * Urban minor arterial-Durham County-AM Peak
 * File 30, Run 1, Scenario 46.
 * #
 * Urban minor arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.319	0.538	0.437	0.512	0.417	0.061	0.140	0.237	2.64	0.449
Composite NOX:	0.217	0.383	0.380	0.382	0.616	0.062	0.167	1.324	1.05	0.376

* #
 * Urban collector-Durham County-AM Peak
 * File 30, Run 1, Scenario 47.
 * #
 * Urban collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.316	0.534	0.434	0.509	0.411	0.060	0.138	0.231	2.62	0.447
Composite NOX:	0.215	0.382	0.379	0.381	0.620	0.062	0.167	1.318	1.05	0.369

* * * * *
* Urban local-Durham County-AM Peak
* File 30, Run 1, Scenario 48.
* * * * *
* Urban local mix and speeds
M615 Comment:
User supplied VMT mix.

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

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.319	0.538	0.437	0.512	0.416	0.061	0.140	0.237	2.64	0.447
Composite NOX:	0.217	0.383	0.380	0.382	0.616	0.062	0.167	1.323	1.05	0.387

* * * * *
* Rural interstate-Durham County-PM Peak
* File 30, Run 1, Scenario 49.
* * * * *
* Rural interstate mix and speeds
M615 Comment:
User supplied VMT mix.
M581 Warning:

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

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.283	0.498	0.402	0.474	0.347	0.050	0.114	0.170	2.44	0.357
Composite NOX:	0.224	0.406	0.403	0.405	0.716	0.083	0.226	1.912	1.28	0.735

* * * * *
* Rural principle arterial-Durham County-PM Peak
* File 30, Run 1, Scenario 50.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2865	0.4185	0.1427		0.0422	0.0003	0.0021	0.1027	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.287	0.504	0.408	0.480	0.354	0.051	0.117	0.176	2.44	0.397
Composite NOX:	0.222	0.400	0.398	0.400	0.698	0.076	0.205	1.742	1.19	0.503

* * * * *
* Rural minor arterial-Durham County-PM Peak
* File 30, Run 1, Scenario 51.

VTM Distribution:0.3055 0.4460 0.1520 0.0258 0.0003 0.0023 0.0628 0.0053 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.300 0.518 0.420 0.493 0.375 0.054 0.124 0.196 2.48 0.422
Composite NOX: 0.218 0.390 0.387 0.389 0.659 0.066 0.178 1.406 1.09 0.411

* * * * *
* Urban interstate-Durham County-PM Peak
* File 30, Run 1, Scenario 55.
* * * * *
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

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

VTM Distribution:0.2742 0.4007 0.1367 0.0529 0.0002 0.0020 0.1285 0.0048 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.285 0.501 0.405 0.477 0.351 0.050 0.115 0.173 2.44 0.387
Composite NOX: 0.223 0.403 0.400 0.402 0.707 0.080 0.216 1.830 1.23 0.556

* * * * *
* Urban freeway-Durham County-PM Peak
* File 30, Run 1, Scenario 56.
* * * * *
* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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

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

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.293	0.511	0.414	0.486	0.363	0.052	0.120	0.185	2.45	0.411
Composite NOX:	0.220	0.395	0.392	0.395	0.679	0.070	0.189	1.612	1.13	0.449

* * * * *

* Urban principle arterial-Durham County-PM Peak

* File 30, Run 1, Scenario 57.

* * * * *

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.312	0.530	0.430	0.504	0.401	0.059	0.134	0.221	2.57	0.436
Composite NOX:	0.216	0.384	0.381	0.383	0.630	0.062	0.169	1.335	1.06	0.396

* * * * *

* Urban minor arterial-Durham County-PM Peak

* File 30, Run 1, Scenario 58.

* * * * *

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.316	0.534	0.434	0.509	0.411	0.060	0.138	0.231	2.62	0.445
Composite NOX:	0.215	0.382	0.379	0.381	0.620	0.062	0.167	1.322	1.05	0.375

```
* #####
* Urban collector-Durham County-PM Peak
* File 30, Run 1, Scenario 59.
* #####
* Urban collector mix and speeds
* M615 Comment:
```

```

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

```

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.316	0.534	0.434	0.509	0.411	0.060	0.138	0.231	2.62	0.447
Composite NOX:	0.215	0.382	0.379	0.381	0.620	0.062	0.167	1.318	1.05	0.369

```
* #####
* Urban local-Durham County-PM Peak
* File 30, Run 1, Scenario 60.
* #####
* Urban local mix and speeds
M615 Comment:
```

User supplied VMT mix.

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

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.323	0.542	0.441	0.516	0.422	0.062	0.143	0.243	2.67	0.450
Composite NOX:	0.218	0.385	0.381	0.384	0.611	0.062	0.167	1.325	1.04	0.389

* #

* Rural interstate-Durham County-OP Peak

* File 30, Run 1, Scenario 61.

* #

* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.276	0.488	0.394	0.464	0.341	0.049	0.113	0.166	2.99	0.352
Composite HAP:	0.229	0.417	0.415	0.416	0.755	0.111	0.303	2.525	1.47	0.884

* #

* Rural principle arterial-Durham County-OP Peak

* File 30, Run 1, Scenario 62.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

there are no sales for vehicle class LDDT12

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.2865	0.4185	0.1427		0.0422	0.0003	0.0021	0.1027	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.285	0.501	0.405	0.477	0.350	0.050	0.115	0.173	2.44	0.394
Composite NOX:	0.223	0.403	0.400	0.402	0.707	0.080	0.216	1.831	1.23	0.514

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTMT Distribution:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.286	0.503	0.406	0.478	0.352	0.051	0.116	0.174	2.44	0.401
Composite NOX:	0.223	0.402	0.399	0.401	0.702	0.078	0.211	1.674	1.21	0.468

5-1146
Appendix C.3
June 7, 2007

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.292	0.509	0.412	0.484	0.361	0.052	0.119	0.182	2.45	0.413
Composite NOX:	0.221	0.397	0.394	0.396	0.683	0.071	0.193	1.529	1.14	0.425

* * * * *
 * Rural minor collector-Durham County-OP Peak
 * File 30, Run 1, Scenario 65.
 * * * * *
 * Rural minor collector mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.295	0.513	0.415	0.488	0.366	0.053	0.121	0.187	2.46	0.416
Composite NOX:	0.219	0.394	0.391	0.393	0.674	0.068	0.185	1.469	1.11	0.420

* * * * *
 * Rural local-Durham County-OP Peak
 * File 30, Run 1, Scenario 66.
 * * * * *
 * Rural local mix and speeds
 M615 Comment:
 User supplied VMT mix.

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.275	0.487	0.393	0.463	0.341	0.049	0.113	0.166	3.06	0.352
Composite NOX:	0.230	0.418	0.416	0.418	0.760	0.116	0.314	2.616	1.49	0.905

```

M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12

```

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.310	0.528	0.428	0.502	0.396	0.058	0.132	0.216	2.55	0.433
Composite NOX:	0.216	0.385	0.381	0.384	0.635	0.063	0.169	1.343	1.07	0.403

```

M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12

```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.300	0.518	0.420	0.493	0.376	0.054	0.124	0.196	2.48	0.422
Composite NOX:	0.218	0.390	0.387	0.389	0.659	0.066	0.178	1.407	1.09	0.413

```
* #####
* Rural local-Granville(Modeled)-AM Peak
* File 30, Run 1, Scenario 76.
* #####
* Rural local mix and speeds
* M615 Comment:
```

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.295	0.513	0.415	0.488	0.366	0.053	0.121	0.187	2.46	0.416
Composite NOX:	0.219	0.394	0.391	0.393	0.673	0.068	0.185	1.468	1.11	0.418

```
* #####
* Rural interstate-Granville(Modeled)-PM Peak
* File 30, Run 1, Scenario 77.
* #####
* Rural interstate mix and speeds
* M615 Comment:
```

Notes: Comments: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```


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

```
* #####
* Rural major collector-Granville(Modeled)-PM Peak
* File 30, Run 1, Scenario 78.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 40.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

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

```

* #####
* Rural minor collector-Granville(Modeled)-PM Peak
* File 30, Run 1, Scenario 79.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 45.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTMT Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.297	0.515	0.417	0.490	0.369	0.053	0.122	0.190	2.46	0.418
Composite NOX:	0.219	0.393	0.390	0.392	0.668	0.067	0.181	1.438	1.10	0.417

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVMR:	<6000	>6000	(All)							
VMT Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.293	0.511	0.414	0.486	0.363	0.052	0.120	0.185	2.45	0.415
Composite NOX:	0.220	0.395	0.392	0.395	0.678	0.070	0.189	1.498	1.13	0.421

5-1155
Appendix C.3
June 7, 2007

M615 Comment: User supplied VMT mix.

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

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

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

Composite Emission Factors (g/mi):										
Composite VOC:	0.295	0.513	0.415	0.488	0.366	0.053	0.121	0.187	2.46	0.416
Composite HAP:	0.219	0.394	0.391	0.393	0.674	0.068	0.185	1.469	1.11	0.420

[illegible]

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

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

Composite Emission Factors (g/mi):										
Composite VOC:	0.293	0.511	0.414	0.486	0.363	0.052	0.120	0.185	2.45	0.415
Composite NOX:	0.220	0.395	0.392	0.395	0.678	0.070	0.189	1.498	1.13	0.421

* Rural minor collector-Chatham County-AM Peak

* File 31, Run 1, Scenario 4.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.120	1.717	1.772	1.731	1.747	0.638	0.881	0.391	2.98	1.385
Composite NOX:	0.781	1.036	1.159	1.067	4.553	1.446	1.372	10.000	1.10	1.602

* #

* Rural local-Chatham County-AM Peak

* File 31, Run 1, Scenario 5.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.120	1.717	1.772	1.731	1.748	0.638	0.881	0.390	2.98	1.386
Composite NOX:	0.781	1.036	1.159	1.067	4.553	1.446	1.372	10.002	1.10	1.590


```
M615 Comment:      User supplied VMT mix.
M581 Warning:      The user supplied freeway average speed of 53.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the freeway roadway type for
                    all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.071	1.652	1.706	1.666	1.640	0.612	0.848	0.356	2.96	1.292
Composite NOX:	0.800	1.065	1.188	1.097	4.819	1.715	1.625	13.382	1.24	2.384

```

M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 45.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.120	1.717	1.772	1.731	1.746	0.638	0.881	0.391	2.98	1.368
Composite NOX:	0.781	1.036	1.159	1.067	4.551	1.446	1.372	10.003	1.10	1.799

* Rural major collector mix and speeds

M583 Warning:

type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

Fuel Sulfur Content: 92. ppm

Reformulated Gas: No

GVWR

VMT Distribution:0.4371 0.3464 0.1183 0.0269 0.0009 0.0021 0.0623 0.0059 1.0000

Composite NOX:	0.788	1.047	1.170	1.078	4.656	1.532	1.453	10.591	1.14	1.642
----------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

* Rural minor collector mix and speeds

M583 Warning:

type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

Fuel Sulfur Content: 92. ppm

Reformulated Gas: No

GVWR

VMT Distribution:0.4366 0.3459 0.1181 0.0272 0.0009 0.0021 0.0632 0.0059 1.0000

Composite NOx:	0.781	1.036	1.159	1.067	4.553	1.446	1.372	10.000	1.10	1.602
----------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

Composite NOX: 0.805 1.072 1.195 1.104 4.881 1.794 1.699 13.926 1.28 2.448

* * * * *

* Rural minor arterial-Chatham County-OP Peak

* File 31, Run 1, Scenario 12.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

VMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	1.113	1.708	1.763	1.722	1.730	0.634	0.876	0.385	2.97	1.360
Composite NOX:	0.783	1.040	1.163	1.071	4.587	1.476	1.400	10.207	1.11	1.820

* * * * *

* Rural major collector-Chatham County-OP Peak

* File 31, Run 1, Scenario 13.

* * * * *

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

VMT Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

User supplied VMT mix.

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

```
there are no sales for vehicle class HDGV8b
```

Fuel Sulfur Content: 92. ppm

Reformulated Gas: No

VMT Distribution:	0.4366	0.3459	0.1181	0.0272	0.0009	0.0021	0.0632	0.0059	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite NOX: 0.779 1.033 1.156 1.064 4.523 1.431 1.358 9.900 1.10 1.593

User supplied VMT mix.

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

```
there are no sales for vehicle class HDGV8b
```

Fuel Sulfur Content: 92. ppm

Reformulated Gas: No

VMT Distribution:	0.4374	0.3466	0.1183	0.0267	0.0009	0.0021	0.0620	0.0059	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite VOC: 1.113 1.708 1.763 1.722 1.732 0.634 0.876 0.385 2.97 1.378
 Composite NOX: 0.783 1.040 1.163 1.071 4.588 1.476 1.400 10.207 1.11 1.606

* * * * *
 * Rural interstate-Johnston County-AM Peak
 * File 31, Run 1, Scenario 16.
 * * * * *
 * Rural interstate mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 64.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3276	0.2594	0.0886		0.0957	0.0006	0.0016	0.2220	0.0044	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 1.026 1.581 1.632 1.594 1.582 0.602 0.835 0.342 3.62 1.136
 Composite NOX: 0.829 1.107 1.231 1.139 5.179 2.474 2.337 18.570 1.50 5.298

* * * * *
 * Rural principle arterial-Johnston County-AM Peak
 * File 31, Run 1, Scenario 17.
 * * * * *
 * Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial-Johnston County-AM Peak
* File 31, Run 1, Scenario 18.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds
M615 Comment:
```

```

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

```

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

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000

```
* #####
* Rural major collector-Johnston County-AM Peak
* File 31, Run 1, Scenario 19.
* #####
* Rural major collector mix and speeds
M615 Comment:
```

```

M583 Warning:      User supplied VMT mix.
                   The user supplied arterial average speed of 47.0
                   will be used for all hours of the day. 100% of VMT
                   has been assigned to the arterial/collector roadway
                   type for all hours of the day and all vehicle types.

```

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

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

```

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

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

VTM Distribution:0.4371 0.3464 0.1183 0.0269 0.0009 0.0021 0.0623 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 1.106 1.700 1.755 1.714 1.717 0.630 0.871 0.380 2.97 1.370
Composite NOX: 0.785 1.043 1.167 1.075 4.623 1.504 1.427 10.403 1.13 1.627

* * * * *
* Rural minor collector-Johnston County-AM Peak
* File 31, Run 1, Scenario 20.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

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

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

VTM Distribution:0.4366 0.3459 0.1181 0.0272 0.0009 0.0021 0.0632 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 1.126 1.724 1.779 1.738 1.765 0.643 0.887 0.397 2.99 1.392
Composite NOX: 0.779 1.033 1.156 1.064 4.523 1.431 1.358 9.900 1.10 1.593

* * * * *
* Rural local-Johnston County-AM Peak
* File 31, Run 1, Scenario 21.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

Composite Emission Factors (g/mi):										
Composite VOC:	1.169	1.774	1.830	1.788	1.893	0.678	0.932	0.445	3.08	1.407
Composite NOX:	0.767	1.014	1.138	1.045	4.328	1.353	1.285	10.911	1.07	2.075

Composite Emission Factors (g/mi):										
Composite VOC:	1.106	1.700	1.755	1.714	1.715	0.630	0.871	0.380	2.97	1.352
Composite NOX:	0.785	1.043	1.167	1.075	4.621	1.504	1.427	10.403	1.13	1.840

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.120	1.717	1.772	1.731	1.748	0.638	0.881	0.391	2.98	1.385
Composite NOX:	0.781	1.036	1.159	1.067	4.553	1.446	1.372	10.003	1.10	1.594

* * * * *

* Rural minor collector-Johnston County-PM Peak

* File 31, Run 1, Scenario 26.

* * * * *

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.133	1.732	1.787	1.746	1.783	0.648	0.894	0.404	3.00	1.399
Composite NOX:	0.776	1.029	1.153	1.061	4.491	1.416	1.344	9.795	1.09	1.583

* * * * *

* Rural local-Johnston County-PM Peak

* File 31, Run 1, Scenario 27.

* * * * *

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.139	1.740	1.795	1.754	1.803	0.653	0.901	0.411	3.01	1.408
Composite NOX:	0.774	1.026	1.149	1.057	4.459	1.400	1.329	9.687	1.09	1.560

* * * * *

* Rural interstate-Johnston County-OP Peak

* File 31, Run 1, Scenario 28.

* * * * *

* Rural interstate mix and speeds

M615 Comment:
User supplied VMT mix.

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

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3276	0.2594	0.0886		0.0957	0.0006	0.0016	0.2220	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.022	1.576	1.626	1.589	1.580	0.602	0.835	0.342	3.68	1.133
Composite NOX:	0.831	1.111	1.234	1.142	5.209	2.559	2.417	19.151	1.52	5.432

* * * * *

* Rural principle arterial-Johnston County-OP Peak

* File 31, Run 1, Scenario 29.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.154	1.757	1.813	1.771	1.843	0.665	0.915	0.426	3.04	1.389
Composite NOX:	0.769	1.018	1.142	1.050	4.388	1.365	1.296	10.993	1.08	2.089

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.082	1.668	1.722	1.682	1.661	0.617	0.855	0.362	2.96	1.324
Composite NOX:	0.795	1.058	1.181	1.089	4.751	1.629	1.544	11.254	1.19	1.925

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.100	1.692	1.746	1.706	1.702	0.626	0.866	0.375	2.97	1.363
Composite NOX:	0.788	1.047	1.170	1.078	4.656	1.532	1.453	10.591	1.14	1.642

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.133	1.732	1.787	1.746	1.783	0.648	0.894	0.404	3.00	1.399
Composite NOx:	0.776	1.029	1.153	1.061	4.491	1.416	1.344	9.795	1.09	1.583

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

```

5-1175
Appendix C.3
June 7, 2007

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.139	1.740	1.795	1.754	1.803	0.653	0.901	0.411	3.01	1.408
Composite NOX:	0.774	1.026	1.149	1.057	4.459	1.400	1.329	9.687	1.09	1.560

* #
* Rural interstate-Johnston County-Rural
* File 31, Run 1, Scenario 34.
* #
* Rural interstate mix and speeds

M615 Comment:
User supplied VMT mix.

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

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3276	0.2594	0.0886		0.0957	0.0006	0.0016	0.2220	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.022	1.576	1.626	1.589	1.580	0.602	0.835	0.342	3.68	1.133
Composite NOX:	0.831	1.111	1.234	1.142	5.209	2.559	2.417	19.151	1.52	5.432

* #
* Rural principle arterial-Johnston County-Rural
* File 31, Run 1, Scenario 35.
* #
* Rural other principle arterial mix and speeds

M615 Comment:
User supplied VMT mix.

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

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.120	1.717	1.772	1.731	1.747	0.638	0.881	0.390	2.98	1.350
Composite NOX:	0.781	1.036	1.159	1.067	4.552	1.446	1.372	11.545	1.10	2.164

* #

* Rural minor arterial-Johnston County-Rural

* File 31, Run 1, Scenario 36.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.126	1.724	1.779	1.738	1.764	0.643	0.888	0.397	2.99	1.375
Composite NOX:	0.779	1.033	1.156	1.064	4.522	1.431	1.358	9.903	1.10	1.787

* #

* Rural major collector-Johnston County-Rural

* File 31, Run 1, Scenario 37.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.133	1.732	1.787	1.746	1.784	0.648	0.894	0.404	3.00	1.400
Composite NOX:	0.776	1.029	1.153	1.061	4.492	1.416	1.344	9.798	1.09	1.574

M583 Warning: The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.139	1.740	1.795	1.754	1.802	0.653	0.901	0.411	3.01	1.407
Composite NOX:	0.774	1.026	1.149	1.057	4.459	1.400	1.329	9.685	1.09	1.572

```

M583 Warning:      User supplied VMT mix.
                   The user supplied arterial average speed of 42.0
                   will be used for all hours of the day. 100% of VMT
                   has been assigned to the arterial/collector roadway
                   type for all hours of the day and all vehicle types.

```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.139	1.740	1.795	1.754	1.803	0.653	0.901	0.411	3.01	1.408
Composite NOX:	0.774	1.026	1.149	1.057	4.459	1.400	1.329	9.687	1.09	1.560

```
* #####  
* Urban interstate-Johnston County-Rural  
* File 31, Run 1, Scenario 40.  
* #####  
* Urban interstate mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
M581 Warning:  
    The user supplied freeway average speed of 62.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the freeway roadway type for  
    all hours of the day and all vehicle types.  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3928	0.3114	0.1064		0.0546	0.0008	0.0019	0.1268	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.032	1.592	1.643	1.605	1.586	0.602	0.835	0.342	3.47	1.227
Composite NOX:	0.823	1.100	1.223	1.131	5.114	2.296	2.170	17.350	1.45	3.288

```
* #####
* Urban principle arterial-Johnston County-Rural
* File 31, Run 1, Scenario 41.
* #####
* Urban principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 29.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

```

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4405	0.3492	0.1193		0.0247	0.0009	0.0022	0.0573	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.272	1.898	1.960	1.914	2.220	0.764	1.040	0.559	3.33	1.567
Composite NOX:	0.796	1.031	1.158	1.064	4.033	1.354	1.285	9.367	1.01	1.495

```
* #####
* Urban minor arterial-Johnston County-Rural
* File 31, Run 1, Scenario 42.
* #####
* Urban minor arterial mix and speeds
M615 Comment:
```

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4517	0.3580	0.1224		0.0177	0.0009	0.0022	0.0410	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.230	1.848	1.906	1.863	2.088	0.730	0.998	0.514	3.23	1.531
Composite NOX:	0.777	1.016	1.142	1.048	4.133	1.339	1.271	9.263	1.03	1.318

```
* #####
* Urban collector-Johnston County-Rural
* File 31, Run 1, Scenario 43.
* #####
* Urban collector mix and speeds
M615 Comment:
```

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4556	0.3610	0.1234		0.0153	0.0009	0.0022	0.0355	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.258	1.882	1.943	1.897	2.166	0.752	1.025	0.543	3.29	1.568
Composite NOX:	0.789	1.024	1.150	1.056	4.057	1.344	1.276	9.306	1.02	1.274

* #
* Urban local-Johnston County-Rural
* File 31, Run 1, Scenario 44.
* #
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4450	0.3527	0.1205		0.0219	0.0009	0.0022	0.0508	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.272	1.898	1.960	1.914	2.218	0.764	1.040	0.559	3.33	1.572
Composite NOX:	0.796	1.032	1.158	1.064	4.032	1.354	1.285	9.363	1.01	1.432

* #
* Rural principle arterial-Franklin County-AM Peak
* File 31, Run 1, Scenario 45.
* #
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.071	1.652	1.706	1.666	1.640	0.612	0.848	0.356	2.96	1.292
Composite NOX:	0.800	1.065	1.188	1.097	4.819	1.715	1.625	13.382	1.24	2.384

```

# # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial-Franklin County-AM Peak
* File 31, Run 1, Scenario 46.
* # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 54.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.066	1.644	1.698	1.658	1.629	0.609	0.846	0.353	2.96	1.304
Composite NOX:	0.802	1.069	1.192	1.100	4.849	1.755	1.663	12.118	1.26	2.008

```
* #####
* Rural major collector-Franklin County-AM Peak
* File 31, Run 1, Scenario 47.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

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

```
* #####
* Rural minor collector-Franklin County-AM Peak
* File 31, Run 1, Scenario 48.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural local-Franklin County-AM Peak
* File 31, Run 1, Scenario 49.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 44.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.126	1.724	1.779	1.738	1.765	0.643	0.888	0.397	2.99	1.393
Composite NOX:	0.779	1.033	1.156	1.064	4.523	1.431	1.358	9.902	1.10	1.580

* #

* Rural principle arterial-Franklin County-PM Peak

* File 31, Run 1, Scenario 50.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 52.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.076	1.660	1.714	1.674	1.651	0.614	0.851	0.359	2.96	1.299
Composite NOX:	0.797	1.062	1.185	1.093	4.786	1.673	1.585	13.094	1.21	2.351

* #

* Rural minor arterial-Franklin County-PM Peak

* File 31, Run 1, Scenario 51.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 54.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```

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

```
* #####
* Rural major collector-Franklin County-PM Peak
* File 31, Run 1, Scenario 52.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural minor collector-Franklin County-PM Peak
* File 31, Run 1, Scenario 53.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

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

```
* #####
* Rural local-Franklin County-PM Peak
* File 31, Run 1, Scenario 54.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 44.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural principle arterial-Franklin County-OP Peak
* File 31, Run 1, Scenario 55.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 55.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

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

```
* #####
* Rural minor arterial-Franklin County-OP Peak
* File 31, Run 1, Scenario 56.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 55.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural major collector-Franklin County-OP Peak
* File 31, Run 1, Scenario 57.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

5-1187
Appendix C.3
June 7, 2007

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

```

* #####
* Rural minor collector-Franklin County-OP Peak
* File 31, Run 1, Scenario 58.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed
    will be used for all hours of the day.
    has been assigned to the arterial/collector
    type for all hours of the day and all v
M 48 Warning:
    there are no sales for vehicle class

```

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

```
* #####
* Rural local-Franklin County-OP Peak
* File 31, Run 1, Scenario 59.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed
    will be used for all hours of the day.
    has been assigned to the arterial/colle
    type for all hours of the day and all v
M 48 Warning:
    there are no sales for vehicle class
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.133	1.732	1.787	1.746	1.784	0.648	0.894	0.404	3.00	1.400
Composite NOx:	0.776	1.029	1.153	1.061	4.492	1.416	1.344	9.797	1.09	1.570

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.113	1.708	1.763	1.722	1.731	0.634	0.876	0.385	2.97	1.342
Composite NOX:	0.783	1.040	1.163	1.071	4.588	1.476	1.400	11.749	1.11	2.190

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.139	1.740	1.795	1.754	1.802	0.653	0.901	0.411	3.01	1.407
Composite NOX:	0.774	1.026	1.149	1.057	4.459	1.400	1.329	9.685	1.09	1.572

* * * * *
* Rural local-Franklin County-Rural
* File 31, Run 1, Scenario 64.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.139	1.740	1.795	1.754	1.803	0.653	0.901	0.411	3.01	1.408
Composite NOX:	0.774	1.026	1.149	1.057	4.459	1.400	1.329	9.687	1.09	1.560

* * * * *
* Urban principle arterial-Franklin County-Rural
* File 31, Run 1, Scenario 65.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4405	0.3492	0.1193		0.0247	0.0009	0.0022	0.0573	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.287	1.916	1.978	1.932	2.271	0.776	1.056	0.575	3.36	1.584
Composite NOX:	0.805	1.039	1.167	1.072	4.003	1.364	1.295	9.439	1.00	1.506

* * * * *
* Urban minor arterial-Franklin County-Rural
* File 31, Run 1, Scenario 66.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4517	0.3580	0.1224		0.0177	0.0009	0.0022	0.0410	0.0061	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.244	1.864	1.924	1.879	2.128	0.741	1.011	0.528	3.26	1.547
Composite NOX:	0.783	1.020	1.146	1.052	4.098	1.341	1.274	9.279	1.03	1.322

* * * * *
* Urban collector-Franklin County-Rural
* File 31, Run 1, Scenario 67.
* * * * *
* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

```

there are no sales for vehicle class HDGV8b

```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4556	0.3610	0.1234		0.0153	0.0009	0.0022	0.0355	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.244	1.864	1.924	1.879	2.123	0.741	1.011	0.528	3.26	1.551
Composite NOX:	0.783	1.020	1.146	1.052	4.094	1.341	1.274	9.289	1.03	1.269

```
* #####
* Urban local-Franklin County-Rural
* File 31, Run 1, Scenario 68.
* #####
* Urban local mix and speeds
M615 Comment:
                User supplied VMT mix.
```

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

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

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4450	0.3527	0.1205		0.0219	0.0009	0.0022	0.0508	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.258	1.882	1.943	1.897	2.170	0.752	1.026	0.543	3.29	1.556
Composite NOX:	0.789	1.024	1.150	1.056	4.060	1.344	1.276	9.296	1.02	1.422

User supplied VMT mix.

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

there are no sales for vehicle class HDGV8b

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

```

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.159	1.775	1.831	1.789	1.730	0.634	0.876	0.385	2.97	1.409
Composite NOX:	0.833	1.120	1.242	1.151	4.587	1.476	1.400	10.207	1.11	1.877

```
* #####
* Rural major collector-Chatham County-AM Peak
* File 32, Run 1, Scenario 3.
* #####
* Rural major collector mix and speeds
* M615 Comment:
```

M615 Comment:

User supplied VMT mix.

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

there are no sales for vehicle class HDGV8b

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VT Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.145	1.757	1.813	1.771	1.702	0.626	0.866	0.375	2.97	1.413
Composite NOX:	0.838	1.127	1.250	1.158	4.656	1.532	1.453	10.591	1.14	1.701

```
* #####
* Rural minor collector-Chatham County-AM Peak
* File 32, Run 1, Scenario 4.
* #####
```

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.166	1.784	1.841	1.799	1.747	0.638	0.881	0.391	2.98	1.436
Composite NOX:	0.831	1.116	1.239	1.147	4.553	1.446	1.372	10.000	1.10	1.661

* #

* Rural local-Chatham County-AM Peak

* File 32, Run 1, Scenario 5.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.166	1.784	1.841	1.799	1.748	0.638	0.881	0.390	2.98	1.437
Composite NOX:	0.831	1.116	1.239	1.147	4.553	1.446	1.372	10.002	1.10	1.649

* #

* Rural principle arterial-Chatham County-PM Peak

* File 32, Run 1, Scenario 6.

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Chatham County-PM Peak
* File 32, Run 1, Scenario 9.
* #####
* Rural minor collector mix and speeds
M615 Comment:
      User supplied VMT mix.
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	49.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

Reformulated Gas: No

Composite NOX: 0.829 1.112 1.236 1.144 4.523 1.431 1.358 9.900 1.10 1.652

ATP Program: Yes

Composite NOX:	0.833	1.120	1.243	1.151	4.588	1.476	1.400	10.207	1.11	1.666
----------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

Composite NOX: 0.819 1.096 1.220 1.127 4.359 1.359 1.291 10.953 1.08 2.138

* * * * *

* Rural minor arterial-Johnston County-AM Peak

* File 32, Run 1, Scenario 18.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

VMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	1.138	1.749	1.804	1.763	1.686	0.623	0.862	0.370	2.96	1.386
Composite NOX:	0.840	1.130	1.253	1.162	4.685	1.558	1.478	10.771	1.15	1.935

* * * * *

* Rural major collector-Johnston County-AM Peak

* File 32, Run 1, Scenario 19.

* * * * *

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

VMT Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	1.152	1.766	1.822	1.780	1.717	0.630	0.871	0.380	2.97	1.420
Composite NOX:	0.836	1.123	1.246	1.155	4.623	1.504	1.427	10.403	1.13	1.686

* * * * *

* Rural minor collector-Johnston County-AM Peak

* File 32, Run 1, Scenario 20.

* * * * *

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000

Composite Emission Factors (g/mi):

Composite VOC:	1.173	1.792	1.849	1.806	1.765	0.643	0.887	0.397	2.99	1.443
Composite NOX:	0.829	1.112	1.236	1.144	4.523	1.431	1.358	9.900	1.10	1.652

* * * * *

* Rural local-Johnston County-AM Peak

* File 32, Run 1, Scenario 21.

* * * * *

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 1.187 1.809 1.865 1.823 1.803 0.653 0.901 0.411 3.01 1.461
 Composite NOX: 0.825 1.105 1.229 1.137 4.459 1.400 1.329 9.687 1.09 1.619

* * * * *
 * Rural interstate-Johnston County-PM Peak
 * File 32, Run 1, Scenario 22.
 * * * * *
 * Rural interstate mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 63.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3276	0.2594	0.0886		0.0957	0.0006	0.0016	0.2220	0.0044	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 1.068 1.643 1.695 1.656 1.584 0.602 0.835 0.342 3.55 1.171
 Composite NOX: 0.876 1.185 1.307 1.216 5.147 2.386 2.255 17.970 1.47 5.204

* * * * *
 * Rural principle arterial-Johnston County-PM Peak
 * File 32, Run 1, Scenario 23.
 * * * * *
 * Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000

```

* #####
* Rural minor arterial-Johnston County-PM Peak
* File 32, Run 1, Scenario 24.
* #####
* Rural minor arterial mix and speeds
* M615 Comment:

```

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000

```

* #####
* Rural major collector-Johnston County-PM Peak
* File 32, Run 1, Scenario 25.
* #####
* Rural major collector mix and speeds
* M615 Comment:

```

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

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

VTM Distribution:0.4371 0.3464 0.1183 0.0269 0.0009 0.0021 0.0623 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 1.166 1.784 1.841 1.799 1.748 0.638 0.881 0.391 2.98 1.437
Composite NOX: 0.831 1.116 1.239 1.147 4.553 1.446 1.372 10.003 1.10 1.653

* * * * *
* Rural minor collector-Johnston County-PM Peak
* File 32, Run 1, Scenario 26.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

VTM Distribution:0.4366 0.3459 0.1181 0.0272 0.0009 0.0021 0.0632 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 1.179 1.800 1.857 1.815 1.783 0.648 0.894 0.404 3.00 1.451
Composite NOX: 0.827 1.109 1.232 1.140 4.491 1.416 1.344 9.795 1.09 1.642

* * * * *
* Rural local-Johnston County-PM Peak
* File 32, Run 1, Scenario 27.
* * * * *
* Rural local mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.145	1.757	1.813	1.771	1.702	0.626	0.866	0.375	2.97	1.413
Composite NOX:	0.838	1.127	1.250	1.158	4.656	1.532	1.453	10.591	1.14	1.701

* * * * *

* Rural minor collector-Johnston County-OP Peak

* File 32, Run 1, Scenario 32.

* * * * *

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.179	1.800	1.857	1.815	1.783	0.648	0.894	0.404	3.00	1.451
Composite NOX:	0.827	1.109	1.232	1.140	4.491	1.416	1.344	9.795	1.09	1.642

* * * * *

* Rural local-Johnston County-OP Peak

* File 32, Run 1, Scenario 33.

* * * * *

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.187	1.809	1.865	1.823	1.803	0.653	0.901	0.411	3.01	1.461
Composite NOX:	0.825	1.105	1.229	1.137	4.459	1.400	1.329	9.687	1.09	1.619

* * * * *

* Rural interstate-Johnston County-Rural

* File 32, Run 1, Scenario 34.

* * * * *

* Rural interstate mix and speeds

M615 Comment:

 User supplied VMT mix.

M581 Warning:

 The user supplied freeway average speed of 65.0

 will be used for all hours of the day. 100% of VMT

 has been assigned to the freeway roadway type for

 all hours of the day and all vehicle types.

M 48 Warning:

 there are no sales for vehicle class HDGV8b

 Calendar Year: 2005

 Month: July

 Altitude: Low

 Minimum Temperature: 73.0 (F)

 Maximum Temperature: 89.0 (F)

 Minimum Rel. Hum.: 49.0 (%)

 Maximum Rel. Hum.: 96.0 (%)

 Barometric Pressure: 30.00 (inches Hg)

 Nominal Fuel RVP: 9.0 psi

 Weathered RVP: 8.6 psi

 Fuel Sulfur Content: 92. ppm

 Exhaust I/M Program: No

 Evap I/M Program: No

 ATP Program: Yes

 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3276	0.2594	0.0886		0.0957	0.0006	0.0016	0.2220	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.060	1.631	1.682	1.644	1.580	0.602	0.835	0.342	3.68	1.165
Composite NOX:	0.881	1.192	1.315	1.223	5.209	2.559	2.417	19.151	1.52	5.477

* * * * *

* Rural principle arterial-Johnston County-Rural

* File 32, Run 1, Scenario 35.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:

 User supplied VMT mix.

M581 Warning:

 The user supplied freeway average speed of 45.0

 will be used for all hours of the day. 100% of VMT

 has been assigned to the freeway roadway type for

 all hours of the day and all vehicle types.

M 48 Warning:

 there are no sales for vehicle class HDGV8b

 Calendar Year: 2005

 Month: July

 Altitude: Low

 Minimum Temperature: 73.0 (F)

 Maximum Temperature: 89.0 (F)

 Minimum Rel. Hum.: 49.0 (%)

 Maximum Rel. Hum.: 96.0 (%)

 Barometric Pressure: 30.00 (inches Hg)

 Nominal Fuel RVP: 9.0 psi

 Weathered RVP: 8.6 psi

 Fuel Sulfur Content: 92. ppm

 Exhaust I/M Program: No

 Evap I/M Program: No

 ATP Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.166	1.784	1.841	1.799	1.747	0.638	0.881	0.390	2.98	1.398
Composite NOX:	0.831	1.116	1.239	1.147	4.552	1.446	1.372	11.545	1.10	2.220

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.173	1.792	1.849	1.806	1.764	0.643	0.888	0.397	2.99	1.425
Composite NOX:	0.829	1.112	1.236	1.144	4.522	1.431	1.358	9.903	1.10	1.845

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.179	1.800	1.857	1.815	1.784	0.648	0.894	0.404	3.00	1.452
Composite NOX:	0.827	1.109	1.232	1.140	4.492	1.416	1.344	9.798	1.09	1.634

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.187	1.809	1.865	1.823	1.802	0.653	0.901	0.411	3.01	1.459
Composite NOX:	0.825	1.105	1.229	1.137	4.459	1.400	1.329	9.685	1.09	1.631

Exhaust I/M Program: No

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

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

VMT Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.187	1.809	1.865	1.823	1.803	0.653	0.901	0.411	3.01	1.461
Composite NOX:	0.825	1.105	1.229	1.137	4.459	1.400	1.329	9.687	1.09	1.619

* #
* Urban interstate-Johnston County-Rural
* File 32, Run 1, Scenario 40.
* #
* Urban interstate mix and speeds

M615 Comment:
User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

VMT Distribution:	0.3928	0.3114	0.1064		0.0546	0.0008	0.0019	0.1268	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.071	1.649	1.701	1.662	1.586	0.602	0.835	0.342	3.47	1.266
Composite NOX:	0.873	1.181	1.303	1.212	5.114	2.296	2.170	17.350	1.45	3.342

* #
* Urban principle arterial-Johnston County-Rural
* File 32, Run 1, Scenario 41.
* #
* Urban principle arterial mix and speeds

M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.4405	0.3492	0.1193		0.0247	0.0009	0.0022	0.0573	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.327	1.978	2.041	1.994	2.220	0.764	1.040	0.559	3.33	1.628
Composite NOX:	0.849	1.113	1.240	1.145	4.033	1.354	1.285	9.367	1.01	1.557

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4517	0.3580	0.1224		0.0177	0.0009	0.0022	0.0410	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.283	1.924	1.985	1.939	2.088	0.730	0.998	0.514	3.23	1.592
Composite NOX:	0.829	1.097	1.222	1.129	4.133	1.339	1.271	9.263	1.03	1.380

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4556	0.3610	0.1234		0.0153	0.0009	0.0022	0.0355	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.312	1.961	2.024	1.977	2.166	0.752	1.025	0.543	3.29	1.631
Composite NOX:	0.841	1.105	1.231	1.137	4.057	1.344	1.276	9.306	1.02	1.337

* #
* Urban local-Johnston County-Rural
* File 32, Run 1, Scenario 44.
* #
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4450	0.3527	0.1205		0.0219	0.0009	0.0022	0.0508	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.327	1.978	2.041	1.994	2.218	0.764	1.040	0.559	3.33	1.634
Composite NOX:	0.849	1.113	1.240	1.145	4.032	1.354	1.285	9.363	1.01	1.494

* #
* Rural principle arterial-Franklin County-AM Peak
* File 32, Run 1, Scenario 45.
* #
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

Fuel Sulfur Content: 92. ppm

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

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

VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.114	1.714	1.769	1.728	1.640	0.612	0.848	0.356	2.96	1.337
Composite NOX:	0.850	1.145	1.268	1.177	4.819	1.715	1.625	13.382	1.24	2.440

* #

* Rural minor arterial-Franklin County-AM Peak

* File 32, Run 1, Scenario 46.

* #

* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

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

VMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.108	1.706	1.760	1.720	1.629	0.609	0.846	0.353	2.96	1.350
Composite NOX:	0.852	1.149	1.272	1.180	4.849	1.755	1.663	12.118	1.26	2.065

* #

* Rural major collector-Franklin County-AM Peak

* File 32, Run 1, Scenario 47.

* #

* Rural major collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.179	1.800	1.857	1.815	1.784	0.648	0.894	0.404	3.00	1.452
Composite NOX:	0.827	1.109	1.232	1.140	4.492	1.416	1.344	9.798	1.09	1.634

* #
* Rural minor collector-Franklin County-AM Peak
* File 32, Run 1, Scenario 48.
* #
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.145	1.757	1.813	1.771	1.701	0.626	0.867	0.375	2.97	1.412
Composite NOX:	0.838	1.127	1.250	1.158	4.655	1.532	1.453	10.588	1.14	1.710

* #
* Rural local-Franklin County-AM Peak
* File 32, Run 1, Scenario 49.
* #
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.173	1.792	1.849	1.806	1.765	0.643	0.888	0.397	2.99	1.445
Composite NOX:	0.829	1.112	1.236	1.144	4.523	1.431	1.358	9.902	1.10	1.644

```
* #####
* Rural principle arterial-Franklin County-PM Peak
* File 32, Run 1, Scenario 50.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
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M581 Warning:
The user supplied freeway average speed of 52.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

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

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.120	1.723	1.778	1.737	1.651	0.614	0.851	0.359	2.96	1.344
Composite NOX:	0.848	1.142	1.264	1.173	4.786	1.673	1.585	13.094	1.21	2.406

```
* #####
* Rural minor arterial-Franklin County-PM Peak
* File 32, Run 1, Scenario 51.
* #####
* Rural minor arterial mix and speeds
* M615 Comment:
```

M583 Warning: The user supplied arterial average speed of 54.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```

type for all hours of the day and all vehicle
M 48 Warning:
      there are no sales for vehicle class HDGV8b

```

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Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.108	1.706	1.760	1.720	1.629	0.609	0.846	0.353	2.96	1.350
Composite NOX:	0.852	1.149	1.272	1.180	4.849	1.755	1.663	12.118	1.26	2.062

```
* #####  
* Rural major collector-Franklin County-PM Peak  
* File 32, Run 1, Scenario 52.  
* #####  
* Rural major collector mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
M583 Warning:  
    The user supplied arterial average speed of 42.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the arterial/collector roadway  
    type for all hours of the day and all vehicle types.  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.187	1.809	1.865	1.823	1.803	0.653	0.901	0.411	3.01	1.460
Composite NOx:	0.825	1.105	1.229	1.137	4.459	1.400	1.329	9.688	1.09	1.623

```
* #####
* Rural minor collector-Franklin County-PM Peak
* File 32, Run 1, Scenario 53.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.145	1.757	1.813	1.771	1.701	0.626	0.867	0.375	2.97	1.412
Composite NOX:	0.838	1.127	1.250	1.158	4.655	1.532	1.453	10.588	1.14	1.710

* #

* Rural local-Franklin County-PM Peak

* File 32, Run 1, Scenario 54.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.173	1.792	1.849	1.806	1.765	0.643	0.888	0.397	2.99	1.445
Composite NOX:	0.829	1.112	1.236	1.144	4.523	1.431	1.358	9.902	1.10	1.640

* #

* Rural principle arterial-Franklin County-OP Peak

* File 32, Run 1, Scenario 55.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.102	1.698	1.752	1.712	1.620	0.607	0.843	0.350	2.96	1.324
Composite NOX:	0.855	1.153	1.275	1.184	4.881	1.794	1.699	13.926	1.28	2.503

* #

* Rural minor arterial-Franklin County-OP Peak

* File 32, Run 1, Scenario 56.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.102	1.698	1.752	1.712	1.619	0.607	0.843	0.350	2.96	1.343
Composite NOX:	0.855	1.153	1.275	1.184	4.880	1.794	1.700	12.385	1.28	2.091

* #

* Rural major collector-Franklin County-OP Peak

* File 32, Run 1, Scenario 57.

* #

* Rural major collector mix and speeds

M615 Comment:

1015 COMMENTS: User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```

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

```
* #####
* Rural minor collector-Franklin County-OP Peak
* File 32, Run 1, Scenario 58.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural local-Franklin County-OP Peak
* File 32, Run 1, Scenario 59.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

5-1223
Appendix C.3
June 7, 2007

Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.179	1.800	1.857	1.815	1.784	0.648	0.894	0.404	3.00	1.453
Composite NOX:	0.827	1.109	1.232	1.140	4.492	1.416	1.344	9.797	1.09	1.630

* #
* Rural principle arterial-Franklin County-Rural
* File 32, Run 1, Scenario 60.
* #
* Rural other principle arterial mix and speeds

M615 Comment:
User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.159	1.775	1.831	1.789	1.731	0.634	0.876	0.385	2.97	1.389
Composite NOX:	0.833	1.120	1.243	1.151	4.588	1.476	1.400	11.749	1.11	2.245

* #
* Rural minor arterial-Franklin County-Rural
* File 32, Run 1, Scenario 61.
* #
* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July

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

```
* #####
* Rural major collector-Franklin County-Rural
* File 32, Run 1, Scenario 62.
* #####
* Rural major collector mix and speeds
* M615 Comment:
      User supplied VMT mix.
```

```

M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.

```

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

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

```
* #####
* Rural minor collector-Franklin County-Rural
* File 32, Run 1, Scenario 63.
* #####
* Rural minor collector mix and speeds
M615 Comment:
      User supplied VMT mix.
```

```

M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.

```

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

Calendar Year: 2005

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

[illegible]

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

```
* #####
* Urban principle arterial-Franklin County-Rural
* File 32, Run 1, Scenario 65.
* #####
* Urban principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed
    will be used for all hours of the day.
    has been assigned to the arterial/collector
    type for all hours of the day and all v
M 48 Warning:
    there are no sales for vehicle class
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4405	0.3492	0.1193		0.0247	0.0009	0.0022	0.0573	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.343	1.996	2.060	2.013	2.271	0.776	1.056	0.575	3.36	1.646
Composite NOx:	0.858	1.121	1.249	1.154	4.003	1.364	1.295	9.439	1.00	1.568

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4517	0.3580	0.1224		0.0177	0.0009	0.0022	0.0410	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.297	1.942	2.003	1.957	2.128	0.741	1.011	0.528	3.26	1.608
Composite NOx:	0.835	1.101	1.227	1.133	4.098	1.341	1.274	9.279	1.03	1.388

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4556	0.3610	0.1234		0.0153	0.0009	0.0022	0.0355	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.297	1.942	2.003	1.957	2.123	0.741	1.011	0.528	3.26	1.613
Composite NOX:	0.835	1.101	1.227	1.133	4.094	1.341	1.274	9.289	1.03	1.332

```

* #####
* Urban local-Franklin County-Rural
* File 32, Run 1, Scenario 68.
* #####
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 30.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4450	0.3527	0.1205		0.0219	0.0009	0.0022	0.0508	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.312	1.961	2.024	1.977	2.170	0.752	1.026	0.543	3.29	1.617
Composite NOX:	0.841	1.105	1.231	1.137	4.060	1.344	1.276	9.296	1.02	1.484

```
* #####
* Rural principle arterial-Person County
* File 32, Run 1, Scenario 69.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
```

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4103	0.3253	0.1111		0.0437	0.0008	0.0020	0.1013	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.159	1.775	1.831	1.789	1.731	0.634	0.876	0.385	2.97	1.389
Composite NOX:	0.833	1.120	1.243	1.151	4.588	1.476	1.400	11.749	1.11	2.245

* #
* Rural minor arterial-Person County
* File 32, Run 1, Scenario 70.
* #
* Rural minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4240	0.3359	0.1147		0.0352	0.0008	0.0021	0.0816	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.179	1.800	1.857	1.815	1.782	0.648	0.894	0.404	3.00	1.433
Composite NOX:	0.827	1.109	1.232	1.140	4.490	1.416	1.344	9.798	1.09	1.832

* #
* Rural major collector-Person County
* File 32, Run 1, Scenario 71.
* #
* Rural major collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4371	0.3464	0.1183		0.0269	0.0009	0.0021	0.0623	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.179	1.800	1.857	1.815	1.784	0.648	0.894	0.404	3.00	1.452
Composite NOX:	0.827	1.109	1.232	1.140	4.492	1.416	1.344	9.798	1.09	1.634

* * * * *
* Rural minor collector-Person County
* File 32, Run 1, Scenario 72.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4366	0.3459	0.1181		0.0272	0.0009	0.0021	0.0632	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.187	1.809	1.865	1.823	1.802	0.653	0.901	0.411	3.01	1.459
Composite NOX:	0.825	1.105	1.229	1.137	4.459	1.400	1.329	9.685	1.09	1.631

* * * * *
* Rural local-Person County
* File 32, Run 1, Scenario 73.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4374	0.3466	0.1183		0.0267	0.0009	0.0021	0.0620	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.187	1.809	1.865	1.823	1.803	0.653	0.901	0.411	3.01	1.461
Composite NOX:	0.825	1.105	1.229	1.137	4.459	1.400	1.329	9.687	1.09	1.619

* * * * *
* Urban principle arterial-Person County
* File 32, Run 1, Scenario 74.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4405	0.3492	0.1193		0.0247	0.0009	0.0022	0.0573	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.343	1.996	2.060	2.013	2.271	0.776	1.056	0.575	3.36	1.646
Composite NOX:	0.858	1.121	1.249	1.154	4.003	1.364	1.295	9.439	1.00	1.568

* * * * *
* Urban minor arterial-Person County
* File 32, Run 1, Scenario 75.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4517	0.3580	0.1224		0.0177	0.0009	0.0022	0.0410	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.297	1.942	2.003	1.957	2.128	0.741	1.011	0.528	3.26	1.608
Composite NOX:	0.835	1.101	1.227	1.133	4.098	1.341	1.274	9.279	1.03	1.385

* #
* Urban collector-Person County
* File 32, Run 1, Scenario 76.
* #
* Urban collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4556	0.3610	0.1234		0.0153	0.0009	0.0022	0.0355	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.297	1.942	2.003	1.957	2.123	0.741	1.011	0.528	3.26	1.613
Composite NOX:	0.835	1.101	1.227	1.133	4.094	1.341	1.274	9.289	1.03	1.332

* #
* Urban local-Person County
* File 32, Run 1, Scenario 77.
* #
* Urban local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 92. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4450	0.3527	0.1205		0.0219	0.0009	0.0022	0.0508	0.0060	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.312	1.961	2.024	1.977	2.170	0.752	1.026	0.543	3.29	1.617
Composite NOX:	0.841	1.105	1.231	1.137	4.060	1.344	1.276	9.296	1.02	1.484

Calendar Year: 2008										
Month: July										
Altitude: Low										
Minimum Temperature: 73.0 (F)										
Maximum Temperature: 89.0 (F)										
Minimum Rel. Hum.: 49.0 (%)										
Maximum Rel. Hum.: 96.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.6 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3819	0.3678	0.1255	-----	0.0346	0.0004	0.0019	0.0824	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.839	1.315	1.330	1.319	1.357	0.330	0.505	0.315	2.89	1.061
Composite NOX:	0.555	0.820	0.969	0.858	3.419	0.856	0.964	7.864	1.14	1.410

Calendar Year: 2008										
Month: July										
Altitude: Low										
Minimum Temperature: 73.0 (F)										
Maximum Temperature: 89.0 (F)										
Minimum Rel. Hum.: 49.0 (%)										
Maximum Rel. Hum.: 96.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.6 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3940	0.3795	0.1293	-----	0.0264	0.0004	0.0020	0.0627	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.844	1.321	1.336	1.325	1.370	0.332	0.509	0.319	2.89	1.081
Composite NOX:	0.554	0.818	0.966	0.855	3.397	0.840	0.947	7.722	1.13	1.236

* Rural minor collector-Chatham County-AM Peak

* File 33, Run 1, Scenario 4.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.844	1.321	1.336	1.325	1.368	0.332	0.509	0.319	2.89	1.080
Composite NOX:	0.554	0.818	0.966	0.855	3.396	0.840	0.947	7.722	1.13	1.243

* #

* Rural local-Chatham County-AM Peak

* File 33, Run 1, Scenario 5.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.855	1.334	1.349	1.338	1.394	0.337	0.516	0.328	2.90	1.093
Composite NOX:	0.550	0.812	0.960	0.849	3.346	0.807	0.909	7.413	1.10	1.210

```
M615 Comment:      User supplied VMT mix.
M581 Warning:      The user supplied freeway average speed of 55.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the freeway roadway type for
                    all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b
```

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

Composite Emission Factors (g/mi):										
Composite VOC:	0.809	1.275	1.287	1.278	1.296	0.319	0.488	0.293	2.88	1.011
Composite NOx:	0.567	0.840	0.989	0.878	3.586	1.004	1.132	10.157	1.28	1.828

```

M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 48.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

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

Composite Emission Factors (g/mi):										
Composite VOC:	0.839	1.315	1.330	1.319	1.357	0.330	0.505	0.315	2.89	1.061
Composite NOX:	0.555	0.820	0.969	0.858	3.419	0.856	0.964	7.864	1.14	1.410

```

M583 Warning:
    User supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.839	1.315	1.330	1.319	1.359	0.330	0.505	0.315	2.89	1.075
Composite NOX:	0.555	0.820	0.969	0.858	3.421	0.856	0.964	7.866	1.14	1.248

```

User supplied VMT mix.
M583 Warning:
  The user supplied arterial average speed of 45.0
  will be used for all hours of the day. 100% of VMT
  has been assigned to the arterial/collector roadway
  type for all hours of the day and all vehicle types.
M 48 Warning:
  there are no sales for vehicle class HDGV8b

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.855	1.334	1.349	1.338	1.392	0.337	0.516	0.328	2.90	1.092
Composite NOx:	0.550	0.812	0.960	0.849	3.344	0.807	0.909	7.415	1.10	1.217

Composite VOC:	0.839	1.315	1.330	1.319	1.359	0.330	0.505	0.315	2.89	1.075
Composite NOX:	0.555	0.820	0.969	0.858	3.421	0.856	0.964	7.866	1.14	1.248

* * * * *

* Rural minor collector-Chatham County-OP Peak

* File 33, Run 1, Scenario 14.

* * * * *

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.860	1.339	1.355	1.343	1.405	0.339	0.521	0.333	2.91	1.097
Composite NOX:	0.549	0.809	0.957	0.847	3.322	0.799	0.900	7.338	1.10	1.210

* * * * *

* Rural local-Chatham County-OP Peak

* File 33, Run 1, Scenario 15.

* * * * *

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite VOC: 0.850 1.327 1.342 1.331 1.382 0.334 0.512 0.323 2.89 1.086
 Composite NOX: 0.552 0.815 0.963 0.852 3.372 0.824 0.928 7.570 1.11 1.223

* * * * *
 * Rural interstate-Johnston County-AM Peak
 * File 33, Run 1, Scenario 16.
 * * * * *
 * Rural interstate mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2949	0.2841	0.0970		0.0942	0.0003	0.0015	0.2237	0.0043	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.779 1.232 1.239 1.234 1.264 0.316 0.483 0.287 3.58 0.899
 Composite NOX: 0.585 0.870 1.021 0.909 3.828 1.434 1.620 14.165 1.52 4.058

* * * * *
 * Rural principle arterial-Johnston County-AM Peak
 * File 33, Run 1, Scenario 17.
 * * * * *
 * Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000

```
* #####
* Rural minor arterial-Johnston County-AM Peak
* File 33, Run 1, Scenario 18.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
```

```

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

```

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

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	3.0 ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
MT Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000

```
* #####  
* Rural major collector-Johnston County-AM Peak  
* File 33, Run 1, Scenario 19.  
* #####  
* Rural major collector mix and speeds  
M615 Comment:
```

```

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

```

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

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

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

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

VTM Distribution:0.3940 0.3795 0.1293 0.0264 0.0004 0.0020 0.0627 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.850 1.327 1.342 1.331 1.382 0.334 0.512 0.323 2.89 1.086
Composite NOX: 0.552 0.815 0.963 0.852 3.372 0.824 0.929 7.571 1.11 1.224

* * * * *
* Rural minor collector-Johnston County-AM Peak
* File 33, Run 1, Scenario 20.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VTM Distribution:0.3936 0.3788 0.1292 0.0268 0.0004 0.0020 0.0635 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.865 1.344 1.360 1.348 1.419 0.342 0.525 0.339 2.92 1.103
Composite NOX: 0.547 0.806 0.955 0.844 3.299 0.790 0.890 7.257 1.09 1.202

* * * * *
* Rural local-Johnston County-AM Peak
* File 33, Run 1, Scenario 21.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.865	1.344	1.360	1.348	1.421	0.342	0.525	0.339	2.92	1.104
Composite NOX:	0.547	0.806	0.955	0.844	3.301	0.790	0.890	7.255	1.09	1.195

* * * * *

* Rural interstate-Johnston County-OP Peak

* File 33, Run 1, Scenario 28.

* * * * *

* Rural interstate mix and speeds

M615 Comment:

 User supplied VMT mix.

M 96 Warning:

 66.0 speed reduced to 65 mph maximum

M581 Warning:

 The user supplied freeway average speed of 65.0

 will be used for all hours of the day. 100% of VMT

 has been assigned to the freeway roadway type for

 all hours of the day and all vehicle types.

M 48 Warning:

 there are no sales for vehicle class HDGV8b

 Calendar Year: 2008

 Month: July

 Altitude: Low

 Minimum Temperature: 73.0 (F)

 Maximum Temperature: 89.0 (F)

 Minimum Rel. Hum.: 49.0 (%)

 Maximum Rel. Hum.: 96.0 (%)

 Barometric Pressure: 30.00 (inches Hg)

 Nominal Fuel RVP: 9.0 psi

 Weathered RVP: 8.6 psi

 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes

 Evap I/M Program: Yes

 ATP Program: Yes

 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2949	0.2841	0.0970		0.0942	0.0003	0.0015	0.2237	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.779	1.232	1.239	1.234	1.264	0.316	0.483	0.287	3.58	0.899
Composite NOX:	0.585	0.870	1.021	0.909	3.828	1.434	1.620	14.165	1.52	4.058

* * * * *

* Rural principle arterial-Johnston County-OP Peak

* File 33, Run 1, Scenario 29.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:

 User supplied VMT mix.

M581 Warning:

 The user supplied freeway average speed of 40.0

 will be used for all hours of the day. 100% of VMT

 has been assigned to the freeway roadway type for

 all hours of the day and all vehicle types.

M 48 Warning:

 there are no sales for vehicle class HDGV8b

 Calendar Year: 2008

 Month: July

 Altitude: Low

 Minimum Temperature: 73.0 (F)

 Maximum Temperature: 89.0 (F)

 Minimum Rel. Hum.: 49.0 (%)

 Maximum Rel. Hum.: 96.0 (%)

 Barometric Pressure: 30.00 (inches Hg)

 Nominal Fuel RVP: 9.0 psi

 Weathered RVP: 8.6 psi

 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes

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

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

VMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.881	1.362	1.380	1.367	1.464	0.352	0.541	0.358	2.96	1.095
Composite NOX:	0.543	0.798	0.946	0.835	3.224	0.762	0.858	7.904	1.08	1.552

* #
* Rural minor arterial-Johnston County-OP Peak
* File 33, Run 1, Scenario 30.
* #
* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.826	1.298	1.311	1.301	1.327	0.324	0.496	0.304	2.88	1.045
Composite NOX:	0.560	0.829	0.978	0.867	3.491	0.910	1.026	8.374	1.19	1.461

* #
* Rural major collector-Johnston County-OP Peak
* File 33, Run 1, Scenario 31.
* #
* Rural major collector mix and speeds

M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.839	1.315	1.330	1.319	1.359	0.330	0.505	0.315	2.89	1.075
Composite NOX:	0.555	0.820	0.969	0.858	3.421	0.856	0.964	7.866	1.14	1.248

* #

* Rural minor collector-Johnston County-OP Peak

* File 33, Run 1, Scenario 32.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.870	1.350	1.367	1.354	1.433	0.345	0.530	0.345	2.93	1.109
Composite NOX:	0.546	0.804	0.952	0.841	3.275	0.781	0.880	7.173	1.09	1.194

* #

* Rural local-Johnston County-OP Peak

* File 33, Run 1, Scenario 33.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.870	1.350	1.367	1.354	1.435	0.345	0.530	0.345	2.93	1.109
Composite NOX:	0.546	0.804	0.952	0.841	3.277	0.781	0.880	7.171	1.09	1.187

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

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2949	0.2841	0.0970		0.0942	0.0003	0.0015	0.2237	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.779	1.232	1.239	1.234	1.264	0.316	0.483	0.287	3.58	0.899
Composite NOX:	0.585	0.870	1.021	0.909	3.828	1.434	1.620	14.165	1.52	4.058

M581 Warning: The user supplied freeway average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi

Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.860	1.339	1.355	1.343	1.406	0.339	0.521	0.333	2.91	1.070
Composite NOX:	0.549	0.809	0.957	0.847	3.323	0.799	0.900	8.250	1.10	1.599

* #

* Rural minor arterial-Johnston County-Rural

* File 33, Run 1, Scenario 36.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.860	1.339	1.355	1.343	1.405	0.339	0.521	0.333	2.91	1.084
Composite NOX:	0.549	0.809	0.957	0.847	3.322	0.799	0.900	7.336	1.10	1.355

* #

* Rural major collector-Johnston County-Rural

* File 33, Run 1, Scenario 37.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.865	1.344	1.360	1.348	1.420	0.342	0.525	0.339	2.92	1.103
Composite NOX:	0.547	0.806	0.955	0.844	3.301	0.790	0.890	7.256	1.09	1.196

* * * * *
* Rural minor collector-Johnston County-Rural
* File 33, Run 1, Scenario 38.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.870	1.350	1.367	1.354	1.433	0.345	0.530	0.345	2.93	1.109
Composite NOX:	0.546	0.804	0.952	0.841	3.275	0.781	0.880	7.173	1.09	1.194

* * * * *
* Rural local-Johnston County-Rural
* File 33, Run 1, Scenario 39.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.870	1.350	1.367	1.354	1.435	0.345	0.530	0.345	2.93	1.109
Composite NOX:	0.546	0.804	0.952	0.841	3.277	0.781	0.880	7.171	1.09	1.187

```
* #####
* Urban interstate-Johnston County-Rural
* File 33, Run 1, Scenario 40.
* #####
* Urban interstate mix and speeds
M615 Comment:
```

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3540	0.3410	0.1163		0.0537	0.0004	0.0018	0.1277	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.786	1.243	1.252	1.245	1.269	0.316	0.483	0.287	3.38	0.971
Composite NOX:	0.580	0.862	1.012	0.900	3.757	1.286	1.452	12.783	1.45	2.461

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial-Johnston County-Rural
* File 33, Run 1, Scenario 41.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial mix and speeds
M615 Comment:
```

M583 Warning:
The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3973	0.3824	0.1304		0.0242	0.0004	0.0020	0.0576	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.981	1.478	1.502	1.484	1.781	0.416	0.644	0.483	3.27	1.242
Composite NOX:	0.567	0.814	0.966	0.852	2.941	0.761	0.857	6.982	1.00	1.143

```
* #####  
* Urban minor arterial-Johnston County-Rural  
* File 33, Run 1, Scenario 42.  
* #####  
* Urban minor arterial mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
M583 Warning:  
    The user supplied arterial average speed of 32.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the arterial/collector roadway  
    type for all hours of the day and all vehicle types.  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4072	0.3921	0.1336		0.0174	0.0004	0.0021	0.0413	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.939	1.428	1.450	1.434	1.645	0.389	0.601	0.431	3.14	1.202
Composite NOx:	0.548	0.796	0.946	0.834	3.037	0.747	0.841	6.848	1.03	1.006

```
* #####
* Urban collector-Johnston County-Rural
* File 33, Run 1, Scenario 43.
* #####
* Urban collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 29.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4107	0.3953	0.1348		0.0150	0.0004	0.0021	0.0358	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.970	1.465	1.489	1.471	1.740	0.409	0.632	0.469	3.23	1.242
Composite NOX:	0.561	0.808	0.959	0.846	2.961	0.755	0.850	6.927	1.01	0.980

* #

* Urban local-Johnston County-Rural

* File 33, Run 1, Scenario 44.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4013	0.3862	0.1318		0.0215	0.0004	0.0020	0.0510	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.981	1.478	1.502	1.484	1.779	0.416	0.644	0.483	3.27	1.246
Composite NOX:	0.567	0.814	0.966	0.852	2.939	0.761	0.857	6.980	1.00	1.096

* #

* Rural principle arterial-Franklin County-AM Peak

* File 33, Run 1, Scenario 45.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.821	1.292	1.305	1.295	1.320	0.323	0.494	0.301	2.88	1.026
Composite NOX:	0.562	0.832	0.981	0.870	3.516	0.935	1.054	9.518	1.21	1.754

* #

* Rural minor arterial-Franklin County-AM Peak

* File 33, Run 1, Scenario 46.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 54.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.813	1.280	1.292	1.283	1.303	0.320	0.490	0.296	2.88	1.030
Composite NOX:	0.566	0.838	0.987	0.876	3.563	0.982	1.107	9.037	1.26	1.525

* #

* Rural major collector-Franklin County-AM Peak

* File 33, Run 1, Scenario 47.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```


Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.870	1.350	1.367	1.354	1.435	0.345	0.530	0.345	2.93	1.109
Composite NOX:	0.546	0.804	0.952	0.841	3.277	0.781	0.880	7.172	1.09	1.188

* #
* Rural minor collector-Franklin County-AM Peak
* File 33, Run 1, Scenario 48.
* #
* Rural minor collector mix and speeds

M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.839	1.315	1.330	1.319	1.357	0.330	0.505	0.315	2.89	1.074
Composite NOX:	0.555	0.820	0.969	0.858	3.420	0.856	0.964	7.867	1.14	1.255

* #
* Rural local-Franklin County-AM Peak
* File 33, Run 1, Scenario 49.
* #
* Rural local mix and speeds

M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.865	1.344	1.360	1.348	1.421	0.342	0.525	0.339	2.92	1.104
Composite NOX:	0.547	0.806	0.955	0.844	3.301	0.790	0.890	7.255	1.09	1.195

* * * * *
* Rural principle arterial-Franklin County-PM Peak
* File 33, Run 1, Scenario 50.
* * * * *
* Rural other principle arterial mix and speeds

M615 Comment:
User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.826	1.298	1.311	1.301	1.328	0.324	0.497	0.304	2.88	1.031
Composite NOX:	0.560	0.829	0.978	0.867	3.491	0.910	1.026	9.288	1.19	1.727

* * * * *
* Rural minor arterial-Franklin County-PM Peak
* File 33, Run 1, Scenario 51.
* * * * *
* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July

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

VMT Distribution:0.3819 0.3678 0.1255 0.0346 0.0004 0.0019 0.0824 0.0055 1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.817	1.286	1.298	1.289	1.311	0.322	0.492	0.298	2.88	1.035
Composite NOX:	0.564	0.835	0.984	0.873	3.540	0.959	1.081	8.825	1.24	1.505

```
* #####
* Rural major collector-Franklin County-PM Peak
* File 33, Run 1, Scenario 52.
* #####
* Rural major collector mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 41.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
```

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

VMT Distribution:	0.3940	0.3795	0.1293	0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite VOC:	0.876	1.356	1.373	1.360	1.450	0.349	0.536	0.351	2.94	1.115
Composite NOX:	0.544	0.801	0.949	0.838	3.252	0.772	0.869	7.083	1.09	1.179

```
* #####
* Rural minor collector-Franklin County-PM Peak
* File 33, Run 1, Scenario 53.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year: 2008

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

```
# # # # #
* Rural local-Franklin County-PM Peak
* File 33, Run 1, Scenario 54.
# # # # #
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed
will be used for all hours of the day.
      has been assigned to the arterial/collection
type for all hours of the day and all vehicle classes.
M 48 Warning:
      there are no sales for vehicle class
```

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

```
* #####
* Rural principle arterial-Franklin County-OP Peak
* File 33, Run 1, Scenario 55.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed
    will be used for all hours of the day.
    has been assigned to the freeway roadway
    all hours of the day and all vehicle type
M 48 Warning:
    there are no sales for vehicle class
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.809	1.275	1.287	1.278	1.296	0.319	0.488	0.293	2.88	1.011
Composite NOX:	0.567	0.840	0.989	0.878	3.586	1.004	1.132	10.157	1.28	1.828

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.809	1.275	1.287	1.278	1.295	0.319	0.488	0.293	2.88	1.025
Composite NOX:	0.567	0.840	0.989	0.878	3.585	1.004	1.132	9.242	1.28	1.544

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.865	1.344	1.360	1.348	1.421	0.342	0.525	0.339	2.92	1.104
Composite NOX:	0.547	0.806	0.955	0.844	3.301	0.790	0.890	7.255	1.09	1.195

* * * * *
* Rural principle arterial-Franklin County-Rural
* File 33, Run 1, Scenario 60.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.850	1.327	1.342	1.331	1.380	0.334	0.512	0.323	2.89	1.059
Composite NOX:	0.552	0.815	0.963	0.852	3.371	0.824	0.929	8.484	1.11	1.629

* * * * *
* Rural minor arterial-Franklin County-Rural
* File 33, Run 1, Scenario 61.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.865	1.344	1.360	1.348	1.419	0.342	0.525	0.339	2.92	1.090
Composite NOX:	0.547	0.806	0.955	0.844	3.299	0.790	0.890	7.255	1.09	1.345

* #
* Rural major collector-Franklin County-Rural
* File 33, Run 1, Scenario 62.
* #
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.870	1.350	1.367	1.354	1.435	0.345	0.530	0.345	2.93	1.109
Composite NOX:	0.546	0.804	0.952	0.841	3.277	0.781	0.880	7.172	1.09	1.188

* #
* Rural minor collector-Franklin County-Rural
* File 33, Run 1, Scenario 63.
* #
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway


```
there are no sales for vehicle class HDGV8b
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.870	1.350	1.367	1.354	1.433	0.345	0.530	0.345	2.93	1.109
Composite NOX:	0.546	0.804	0.952	0.841	3.275	0.781	0.880	7.173	1.09	1.194

* #

* Rural local-Franklin County-Rural

* File 33, Run 1, Scenario 64.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
MT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.870	1.350	1.367	1.354	1.435	0.345	0.530	0.345	2.93	1.109
Composite NOX:	0.546	0.804	0.952	0.841	3.277	0.781	0.880	7.171	1.09	1.187

* #

* Urban principle arterial-Franklin County-Rural

* File 33, Run 1, Scenario 65.

* #

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0 will be used for all hours of the day. 100% of VMT

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4107	0.3953	0.1348		0.0150	0.0004	0.0021	0.0358	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.949	1.440	1.462	1.446	1.673	0.395	0.611	0.443	3.17	1.217
Composite NOX:	0.552	0.799	0.949	0.837	3.009	0.748	0.843	6.862	1.03	0.969

* #

* Urban local-Franklin County-Rural

* File 33, Run 1, Scenario 68.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4013	0.3862	0.1318		0.0215	0.0004	0.0020	0.0510	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.960	1.452	1.476	1.458	1.706	0.402	0.622	0.456	3.20	1.220
Composite NOX:	0.556	0.802	0.953	0.840	2.982	0.750	0.844	6.874	1.02	1.081

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.913	1.416	1.429	1.419	1.368	0.332	0.509	0.319	2.89	1.155
Composite NOX:	0.625	0.923	1.068	0.960	3.396	0.840	0.947	7.722	1.13	1.324

* #

* Rural local-Chatham County-AM Peak

* File 34, Run 1, Scenario 5.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.925	1.430	1.444	1.434	1.394	0.337	0.516	0.328	2.90	1.169
Composite NOX:	0.622	0.916	1.062	0.954	3.346	0.807	0.909	7.413	1.10	1.291

* #

* Rural principle arterial-Chatham County-PM Peak

* File 34, Run 1, Scenario 6.


```
M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 44.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b
```

```

M583 Warning:
    The user supplied arterial average speed of 44.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.930	1.436	1.450	1.440	1.405	0.339	0.521	0.333	2.91	1.174
Composite NOx:	0.620	0.914	1.060	0.951	3.322	0.799	0.900	7.338	1.10	1.291

```
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.919	1.423	1.436	1.426	1.382	0.334	0.512	0.323	2.89	1.162
Composite NOX:	0.623	0.920	1.065	0.957	3.372	0.824	0.928	7.570	1.11	1.304

Composite NOX: 0.613 0.901 1.047 0.938 3.202 0.758 0.854 7.873 1.08 1.623

* * * * *

* Rural minor arterial-Johnston County-AM Peak

* File 34, Run 1, Scenario 18.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.907	1.410	1.421	1.413	1.357	0.330	0.505	0.315	2.89	1.133
Composite NOX:	0.626	0.925	1.071	0.963	3.419	0.856	0.964	7.864	1.14	1.489

* * * * *

* Rural major collector-Johnston County-AM Peak

* File 34, Run 1, Scenario 19.

* * * * *

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
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Composite Emission Factors (g/mi):

Mobile Source Inventory

Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone

Redesignation Demonstration and Maintenance Plan

5-1278

Appendix C.3

June 7, 2007

Composite VOC:	0.919	1.423	1.436	1.426	1.382	0.334	0.512	0.323	2.89	1.162
Composite NOX:	0.623	0.920	1.065	0.957	3.372	0.824	0.929	7.571	1.11	1.305

* * * * *

* Rural minor collector-Johnston County-AM Peak

* File 34, Run 1, Scenario 20.

* * * * *

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.936	1.443	1.456	1.446	1.419	0.342	0.525	0.339	2.92	1.180
Composite NOX:	0.619	0.911	1.057	0.948	3.299	0.790	0.890	7.257	1.09	1.283

* * * * *

* Rural local-Johnston County-AM Peak

* File 34, Run 1, Scenario 21.

* * * * *

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite VOC: 0.936 1.443 1.456 1.446 1.421 0.342 0.525 0.339 2.92 1.181
 Composite NOX: 0.619 0.911 1.057 0.948 3.301 0.790 0.890 7.255 1.09 1.276

* * * * *
 * Rural interstate-Johnston County-PM Peak
 * File 34, Run 1, Scenario 22.
 * * * * *
 * Rural interstate mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 64.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2949	0.2841	0.0970		0.0942	0.0003	0.0015	0.2237	0.0043	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.840 1.317 1.322 1.318 1.265 0.316 0.483 0.287 3.51 0.949
 Composite NOX: 0.655 0.974 1.122 1.012 3.805 1.386 1.566 13.719 1.50 4.016

* * * * *
 * Rural principle arterial-Johnston County-PM Peak
 * File 34, Run 1, Scenario 23.
 * * * * *
 * Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.967   1.477   1.493   1.481   1.501   0.360   0.554   0.373   2.99   1.185
Composite NOX:   0.613   0.899   1.045   0.936   3.180   0.755   0.850   7.840   1.07   1.617
-----

```

* #

* Rural minor arterial-Johnston County-PM Peak

* File 34, Run 1, Scenario 24.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.919   1.423   1.436   1.426   1.380   0.334   0.512   0.323   2.89   1.146
Composite NOX:   0.623   0.920   1.065   0.957   3.370   0.824   0.928   7.570   1.11   1.458
-----

```

* #

* Rural major collector-Johnston County-PM Peak

* File 34, Run 1, Scenario 25.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VTM Distribution:0.3940 0.3795 0.1293 0.0264 0.0004 0.0020 0.0627 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.930 1.436 1.450 1.440 1.407 0.339 0.521 0.333 2.91 1.175
Composite NOX: 0.620 0.914 1.060 0.951 3.324 0.799 0.900 7.337 1.10 1.284

* * * * *
* Rural minor collector-Johnston County-PM Peak
* File 34, Run 1, Scenario 26.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VTM Distribution:0.3936 0.3788 0.1292 0.0268 0.0004 0.0020 0.0635 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.941 1.449 1.463 1.453 1.433 0.345 0.530 0.345 2.93 1.187
Composite NOX: 0.617 0.908 1.054 0.946 3.275 0.781 0.880 7.173 1.09 1.275

* * * * *
* Rural local-Johnston County-PM Peak
* File 34, Run 1, Scenario 27.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.954	1.463	1.478	1.467	1.464	0.352	0.541	0.358	2.96	1.170
Composite NOX:	0.614	0.902	1.048	0.939	3.224	0.762	0.858	7.904	1.08	1.628

* * * * *

* Rural minor arterial-Johnston County-OP Peak

* File 34, Run 1, Scenario 30.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

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

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.892	1.390	1.401	1.393	1.327	0.324	0.496	0.304	2.88	1.115
Composite NOX:	0.631	0.934	1.080	0.971	3.491	0.910	1.026	8.374	1.19	1.540

* * * * *

* Rural major collector-Johnston County-OP Peak

* File 34, Run 1, Scenario 31.

* * * * *

* Rural major collector mix and speeds

M615 Comment:
User supplied VMT mix.

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

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.907	1.410	1.421	1.413	1.359	0.330	0.505	0.315	2.89	1.149
Composite NOX:	0.626	0.925	1.071	0.962	3.421	0.856	0.964	7.866	1.14	1.329

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.941	1.449	1.463	1.453	1.433	0.345	0.530	0.345	2.93	1.187
Composite NOX:	0.617	0.908	1.054	0.946	3.275	0.781	0.880	7.173	1.09	1.275

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.941	1.449	1.463	1.453	1.435	0.345	0.530	0.345	2.93	1.188
Composite NOX:	0.617	0.908	1.054	0.946	3.277	0.781	0.880	7.171	1.09	1.268

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

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2949	0.2841	0.0970		0.0942	0.0003	0.0015	0.2237	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.837	1.313	1.317	1.314	1.264	0.316	0.483	0.287	3.58	0.947
Composite NOX:	0.656	0.977	1.125	1.015	3.828	1.434	1.620	14.165	1.52	4.119

M581 Warning:
The user supplied freeway average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

5-1286
Appendix C.3
June 7, 2007

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.930	1.436	1.450	1.440	1.406	0.339	0.521	0.333	2.91	1.143
Composite NOX:	0.620	0.914	1.060	0.951	3.323	0.799	0.900	8.250	1.10	1.675

```

radial/minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 44.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.930	1.436	1.450	1.440	1.405	0.339	0.521	0.333	2.91	1.159
Composite NOX:	0.620	0.914	1.060	0.951	3.322	0.799	0.900	7.336	1.10	1.433

```

M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.936	1.443	1.456	1.446	1.420	0.342	0.525	0.339	2.92	1.181
Composite NOX:	0.619	0.911	1.057	0.948	3.301	0.790	0.890	7.256	1.09	1.277

* #

* Rural minor collector-Johnston County-Rural

* File 34, Run 1, Scenario 38.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.941	1.449	1.463	1.453	1.433	0.345	0.530	0.345	2.93	1.187
Composite NOX:	0.617	0.908	1.054	0.946	3.275	0.781	0.880	7.173	1.09	1.275

* #

* Rural local-Johnston County-Rural

* File 34, Run 1, Scenario 39.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.941	1.449	1.463	1.453	1.435	0.345	0.530	0.345	2.93	1.188
Composite NOX:	0.617	0.908	1.054	0.946	3.277	0.781	0.880	7.171	1.09	1.268

* #
* Urban interstate-Johnston County-Rural
* File 34, Run 1, Scenario 40.
* #
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3540	0.3410	0.1163		0.0537	0.0004	0.0018	0.1277	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.846	1.326	1.332	1.328	1.269	0.316	0.483	0.287	3.38	1.030
Composite NOX:	0.651	0.968	1.116	1.006	3.757	1.286	1.452	12.783	1.45	2.535

* #
* Urban principle arterial-Johnston County-Rural
* File 34, Run 1, Scenario 41.
* #
* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3973	0.3824	0.1304		0.0242	0.0004	0.0020	0.0576	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.064	1.593	1.616	1.599	1.781	0.416	0.644	0.483	3.27	1.333
Composite NOX:	0.642	0.921	1.072	0.959	2.941	0.761	0.857	6.982	1.00	1.228

* #

* Urban minor arterial-Johnston County-Rural

* File 34, Run 1, Scenario 42.

* #

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.4072	0.3921	0.1336		0.0174	0.0004	0.0021	0.0413	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.017	1.537	1.557	1.542	1.645	0.389	0.601	0.431	3.14	1.292
Composite NOX:	0.621	0.902	1.049	0.939	3.037	0.747	0.841	6.848	1.03	1.090

* #

* Urban collector-Johnston County-Rural

* File 34, Run 1, Scenario 43.

* #

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4107	0.3953	0.1348		0.0150	0.0004	0.0021	0.0358	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.052	1.578	1.601	1.584	1.740	0.409	0.632	0.469	3.23	1.335
Composite NOX:	0.635	0.914	1.064	0.952	2.961	0.755	0.850	6.927	1.01	1.066

* #
* Urban local-Johnston County-Rural
* File 34, Run 1, Scenario 44.
* #
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4013	0.3862	0.1318		0.0215	0.0004	0.0020	0.0510	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.064	1.593	1.615	1.599	1.779	0.416	0.644	0.483	3.27	1.338
Composite NOX:	0.642	0.921	1.072	0.959	2.939	0.761	0.857	6.980	1.00	1.182

* #
* Rural principle arterial-Franklin County-AM Peak
* File 34, Run 1, Scenario 45.
* #
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.887	1.383	1.393	1.386	1.320	0.323	0.494	0.301	2.88	1.093
Composite NOX:	0.633	0.937	1.083	0.974	3.516	0.935	1.054	9.518	1.21	1.830

```
* #####
* Rural minor arterial-Franklin County-AM Peak
* File 34, Run 1, Scenario 46.
* #####
* Rural minor arterial mix and speeds
* M615 Comment:
```

M583 Warning:
The user supplied arterial average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.877	1.370	1.379	1.372	1.303	0.320	0.490	0.296	2.88	1.098
Composite NOX:	0.636	0.943	1.089	0.980	3.563	0.982	1.107	9.037	1.26	1.604

```
* #####
* Rural major collector-Franklin County-AM Peak
* Rule 34, Run 1, Scenario 47.
* #####
* Rural major collector mix and speeds
* M615 Comment:
```

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.941	1.449	1.463	1.453	1.435	0.345	0.530	0.345	2.93	1.187
Composite NOX:	0.617	0.908	1.054	0.945	3.277	0.781	0.880	7.172	1.09	1.262

```
* #####
* Rural minor collector-Franklin County-AM Peak
* File 34, Run 1, Scenario 48.
* #####
* Rural minor collector mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 48.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.907	1.410	1.421	1.413	1.357	0.330	0.505	0.315	2.89	1.149
Composite NOX:	0.626	0.925	1.071	0.963	3.420	0.856	0.964	7.867	1.14	1.336

```
* #####
* Rural local-Franklin County-AM Peak
* File 34, Run 1, Scenario 49.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.936	1.443	1.456	1.446	1.421	0.342	0.525	0.339	2.92	1.181
Composite NOX:	0.619	0.911	1.057	0.948	3.301	0.790	0.890	7.255	1.09	1.271

```
* #####
* Rural principle arterial-Franklin County-PM Peak
* File 34, Run 1, Scenario 50.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 51.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.892	1.390	1.401	1.393	1.328	0.324	0.497	0.304	2.88	1.099
Composite NOX:	0.631	0.934	1.080	0.971	3.491	0.910	1.026	9.288	1.19	1.803

```
* #####
* Rural minor arterial-Franklin County-PM Peak
* File 34, Run 1, Scenario 51.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.882	1.376	1.386	1.379	1.311	0.322	0.492	0.298	2.88	1.104
Composite NOX:	0.635	0.940	1.086	0.977	3.540	0.959	1.081	8.825	1.24	1.583

* #

* Rural major collector-Franklin County-PM Peak

* File 34, Run 1, Scenario 52.

* #

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.947	1.456	1.471	1.460	1.450	0.349	0.536	0.351	2.94	1.194
Composite NOX:	0.616	0.905	1.051	0.943	3.252	0.772	0.869	7.083	1.09	1.260

* #

* Rural minor collector-Franklin County-PM Peak

* File 34, Run 1, Scenario 53.

* #

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.907	1.410	1.421	1.413	1.357	0.330	0.505	0.315	2.89	1.149
Composite NOX:	0.626	0.925	1.071	0.963	3.420	0.856	0.964	7.867	1.14	1.336

* #

* Rural local-Franklin County-PM Peak

* File 34, Run 1, Scenario 54.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.936	1.443	1.456	1.446	1.421	0.342	0.525	0.339	2.92	1.181
Composite NOX:	0.619	0.911	1.057	0.948	3.301	0.790	0.890	7.255	1.09	1.276

* #

* Rural principle arterial-Franklin County-OP Peak

* File 34, Run 1, Scenario 55.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low

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

```
* #####
* Rural minor arterial-Franklin County-OP Peak
* File 34, Run 1, Scenario 56.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 55.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural major collector-Franklin County-OP Peak
* File 34, Run 1, Scenario 57.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.941	1.449	1.463	1.453	1.435	0.345	0.530	0.345	2.93	1.187
Composite NOX:	0.617	0.908	1.054	0.945	3.277	0.781	0.880	7.172	1.09	1.269

```
* #####
* Rural minor collector-Franklin County-OP Peak
* File 34, Run 1, Scenario 58.
* #####
* Rural minor collector mix and speeds
* M615 Comment:
      User supplied VMT mix.
```

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

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

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.907	1.410	1.421	1.413	1.357	0.330	0.505	0.315	2.89	1.149
Composite NOX:	0.626	0.925	1.071	0.963	3.420	0.856	0.964	7.867	1.14	1.336

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local-Franklin County-OP Peak
* File 34, Run 1, Scenario 59.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.

```

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

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

Calendar Year: 2008

Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.936	1.443	1.456	1.446	1.421	0.342	0.525	0.339	2.92	1.181
Composite NOX:	0.619	0.911	1.057	0.948	3.301	0.790	0.890	7.255	1.09	1.276

* * * * *
 * Rural principle arterial-Franklin County-Rural
 * File 34, Run 1, Scenario 60.
 * * * * *
 * Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3699	0.3562	0.1214		0.0429	0.0004	0.0019	0.1020	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.919	1.423	1.436	1.426	1.380	0.334	0.512	0.323	2.89	1.130
Composite NOX:	0.623	0.920	1.065	0.957	3.371	0.824	0.929	8.484	1.11	1.705

* * * * *
 * Rural minor arterial-Franklin County-Rural
 * File 34, Run 1, Scenario 61.
 * * * * *
 * Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVR:	<6000	>6000	(All)							
VTM Distribution:	0.3819	0.3678	0.1255		0.0346	0.0004	0.0019	0.0824	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.936	1.443	1.456	1.446	1.419	0.342	0.525	0.339	2.92	1.165
Composite NOX:	0.619	0.911	1.057	0.948	3.299	0.790	0.890	7.255	1.09	1.424

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3940	0.3795	0.1293		0.0264	0.0004	0.0020	0.0627	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.941	1.449	1.463	1.453	1.435	0.345	0.530	0.345	2.93	1.187
Composite NOX:	0.617	0.908	1.054	0.945	3.277	0.781	0.880	7.172	1.09	1.269

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3936	0.3788	0.1292		0.0268	0.0004	0.0020	0.0635	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.941	1.449	1.463	1.453	1.433	0.345	0.530	0.345	2.93	1.187
Composite NOX:	0.617	0.908	1.054	0.946	3.275	0.781	0.880	7.173	1.09	1.275

* #
 * Rural local-Franklin County-Rural
 * File 34, Run 1, Scenario 64.
 * #
 * Rural local mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3939	0.3796	0.1295		0.0263	0.0004	0.0020	0.0626	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.941	1.449	1.463	1.453	1.435	0.345	0.530	0.345	2.93	1.188
Composite NOX:	0.617	0.908	1.054	0.946	3.277	0.781	0.880	7.171	1.09	1.268

* #
 * Urban principle arterial-Franklin County-Rural
 * File 34, Run 1, Scenario 65.
 * #
 * Urban principle arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 27.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3973	0.3824	0.1304		0.0242	0.0004	0.0020	0.0576	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.077	1.608	1.632	1.614	1.822	0.423	0.656	0.498	3.31	1.349
Composite NOX:	0.649	0.928	1.080	0.967	2.917	0.768	0.864	7.041	0.99	1.237

* * * * *
* Urban minor arterial-Franklin County-Rural
* File 34, Run 1, Scenario 66.
* * * * *
* Urban minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4072	0.3921	0.1336		0.0174	0.0004	0.0021	0.0413	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.029	1.551	1.571	1.556	1.675	0.395	0.611	0.443	3.17	1.304
Composite NOX:	0.625	0.905	1.053	0.942	3.011	0.748	0.843	6.861	1.03	1.094

* * * * *
* Urban collector-Franklin County-Rural
* File 34, Run 1, Scenario 67.
* * * * *
* Urban collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4107	0.3953	0.1348		0.0150	0.0004	0.0021	0.0358	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.029	1.551	1.571	1.556	1.673	0.395	0.611	0.443	3.17	1.308
Composite NOX:	0.625	0.905	1.053	0.942	3.009	0.748	0.843	6.862	1.03	1.055

* * * * *
 * Urban local-Franklin County-Rural
 * File 34, Run 1, Scenario 68.
 * * * * *
 * Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

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

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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4013	0.3862	0.1318		0.0215	0.0004	0.0020	0.0510	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.040	1.565	1.587	1.571	1.706	0.402	0.622	0.456	3.20	1.311
Composite NOX:	0.629	0.908	1.057	0.946	2.982	0.750	0.844	6.874	1.02	1.165

* * * * *
 * Rural principle arterial-Person County
 * File 34, Run 1, Scenario 69.
 * * * * *
 * Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for

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there are no sales for vehicle class HDGV8b
```

Fuel Sulfur Content: 30. ppm

Reformulated Gas: No

Composite NOX:	0.623	0.920	1.065	0.957	3.371	0.824	0.929	8.484	1.11	1.705
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

User supplied VMT mix.

type for all hours of the day and all vehicle types.

Fuel Sulfur Content: 30. ppm

Reformulated Gas: No

Composite NOX:	0.619	0.911	1.057	0.948	3.299	0.790	0.890	7.255	1.09	1.424
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

User supplied VMT mix.

will be used for all hours of the day. 100% of VMT

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4013	0.3862	0.1318		0.0215	0.0004	0.0020	0.0510	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	1.040	1.565	1.587	1.571	1.706	0.402	0.622	0.456	3.20	1.311
Composite NOX:	0.629	0.908	1.057	0.946	2.982	0.750	0.844	6.874	1.02	1.165

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural major collector-Chatham County-AM Peak
* File 35, Run 1, Scenario 3.
* #####
* Rural major collector mix and speeds
* M615 Comment:
      User supplied VMT mix.
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

* #


```

M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 36.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	3.0 ppm

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

```
* #####
* Rural principle arterial-Chatham County-OP Peak
* File 35, Run 1, Scenario 11.
* #####
* Rural other principle arterial mix and speeds
```

```
M615 Comment:
      User supplied VMT mix.
M581 Warning:
      The user supplied freeway average speed of 54.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Composite NOX: 0.405 0.654 0.793 0.689 2.577 0.423 0.705 6.699 1.26 1.292

* * * * *

* Rural minor arterial-Chatham County-OP Peak

* File 35, Run 1, Scenario 12.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.635	1.105	1.129	1.111	1.107	0.156	0.330	0.279	2.84	0.886
Composite NOX:	0.393	0.631	0.770	0.667	2.402	0.344	0.572	5.036	1.10	0.994

* * * * *

* Rural major collector-Chatham County-OP Peak

* File 35, Run 1, Scenario 13.

* * * * *

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000
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Composite Emission Factors (g/mi):

```
* #####
* Rural minor collector-Chatham County-OP Peak
* File 35, Run 1, Scenario 14.
* #####
* Rural minor collector mix and speeds
* M615 Comment:
```

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

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

VMT Distribution:	0.3546	0.4081	0.1392	0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite VOC:	0.635	1.105	1.129	1.111	1.107	0.156	0.330	0.279	2.84	0.897
Composite NOX:	0.393	0.631	0.770	0.667	2.403	0.344	0.572	5.035	1.10	0.896

```
* #####
* Rural local-Chatham County-OP Peak
* File 35, Run 1, Scenario 15.
* #####
* Rural local mix and speeds
* M615 Comment:
```

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

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

VMT Distribution:	0.3551	0.4088	0.1395	0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite VOC: 0.673 1.147 1.177 1.155 1.204 0.173 0.368 0.334 2.99 0.942
 Composite NOX: 0.384 0.615 0.754 0.650 2.245 0.320 0.531 4.677 1.06 0.851

* * * * *
 * Rural interstate-Johnston County-AM Peak
 * File 35, Run 1, Scenario 16.
 * * * * *
 * Rural interstate mix and speeds

M615 Comment:
 User supplied VMT mix.
 M 96 Warning: 66.0 speed reduced to 65 mph maximum

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

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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2660	0.3060	0.1044		0.0941	0.0002	0.0015	0.2237	0.0041	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.581 1.030 1.041 1.033 1.007 0.144 0.304 0.240 3.50 0.742
 Composite NOX: 0.420 0.680 0.821 0.716 2.768 0.620 1.034 9.619 1.52 2.826

* * * * *
 * Rural principle arterial-Johnston County-AM Peak
 * File 35, Run 1, Scenario 17.
 * * * * *
 * Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.625	1.093	1.114	1.098	1.084	0.152	0.322	0.267	2.82	0.885
Composite NOX:	0.396	0.638	0.777	0.673	2.457	0.362	0.602	5.303	1.13	0.914

* * * * *

* Rural interstate-Johnston County-PM Peak

* File 35, Run 1, Scenario 22.

* * * * *

* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2660	0.3060	0.1044		0.0941	0.0002	0.0015	0.2237	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.584	1.036	1.047	1.038	1.010	0.144	0.304	0.240	3.37	0.745
Composite NOX:	0.417	0.675	0.816	0.711	2.734	0.578	0.963	8.991	1.47	2.679

* * * * *

* Rural principle arterial-Johnston County-PM Peak

* File 35, Run 1, Scenario 23.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3332	0.3837	0.1308		0.0429	0.0003	0.0019	0.1020	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.659	1.131	1.159	1.138	1.166	0.166	0.353	0.312	2.93	0.903
Composite NOX:	0.387	0.620	0.758	0.655	2.300	0.325	0.540	5.235	1.07	1.105

* * * * *

* Rural minor arterial-Johnston County-PM Peak

* File 35, Run 1, Scenario 24.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.639	1.109	1.134	1.116	1.115	0.157	0.333	0.283	2.85	0.890
Composite NOX:	0.392	0.629	0.768	0.665	2.386	0.340	0.566	4.980	1.09	0.988

* * * * *

* Rural major collector-Johnston County-PM Peak

* File 35, Run 1, Scenario 25.

* * * * *

* Rural major collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.643	1.113	1.138	1.120	1.125	0.159	0.337	0.289	2.86	0.906
Composite NOX:	0.390	0.627	0.766	0.662	2.370	0.336	0.559	4.923	1.09	0.888

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.643	1.113	1.138	1.120	1.125	0.159	0.337	0.289	2.86	0.906
Composite NOx:	0.390	0.627	0.766	0.662	2.369	0.336	0.559	4.921	1.09	0.884

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.643	1.113	1.138	1.120	1.125	0.159	0.337	0.289	2.86	0.906
Composite NOX:	0.390	0.627	0.766	0.662	2.370	0.336	0.559	4.923	1.09	0.879

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

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2660	0.3060	0.1044		0.0941	0.0002	0.0015	0.2237	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.581	1.030	1.041	1.033	1.007	0.144	0.304	0.240	3.50	0.742
Composite NOX:	0.420	0.680	0.821	0.716	2.768	0.620	1.034	9.619	1.52	2.826

M581 Warning:
The user supplied freeway average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	49.0 (F)
Minimum Rel. Hum.:	89.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

5-1323
Appendix C.3
June 7, 2007

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3332	0.3837	0.1308		0.0429	0.0003	0.0019	0.1020	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.651	1.122	1.149	1.129	1.144	0.162	0.344	0.299	2.89	0.893
Composite NOX:	0.388	0.623	0.761	0.658	2.332	0.328	0.545	5.279	1.08	1.113

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.618	1.085	1.105	1.090	1.069	0.150	0.317	0.260	2.82	0.866
Composite NOX:	0.399	0.642	0.781	0.678	2.490	0.375	0.624	5.498	1.15	1.044

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.628	1.097	1.120	1.103	1.091	0.153	0.324	0.270	2.83	0.889
Composite NOX:	0.395	0.636	0.774	0.671	2.439	0.355	0.590	5.199	1.11	0.900

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.639	1.109	1.134	1.116	1.116	0.157	0.333	0.284	2.85	0.901
Composite NOx:	0.392	0.629	0.768	0.665	2.387	0.340	0.566	4.979	1.09	0.899

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.643	1.113	1.138	1.120	1.125	0.159	0.337	0.289	2.86	0.906
Composite NOX:	0.390	0.627	0.766	0.662	2.370	0.336	0.559	4.923	1.09	0.879

* #
* Rural interstate-Johnston County-Rural
* File 35, Run 1, Scenario 34.
* #
* Rural interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2660	0.3060	0.1044		0.0941	0.0002	0.0015	0.2237	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.581	1.030	1.041	1.033	1.007	0.144	0.304	0.240	3.50	0.742
Composite NOX:	0.420	0.680	0.821	0.716	2.768	0.620	1.034	9.619	1.52	2.826

* #
* Rural principle arterial-Johnston County-Rural
* File 35, Run 1, Scenario 35.
* #
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3332	0.3837	0.1308		0.0429	0.0003	0.0019	0.1020	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.635	1.105	1.129	1.111	1.107	0.156	0.330	0.279	2.84	0.875
Composite NOX:	0.393	0.631	0.770	0.667	2.403	0.344	0.572	5.520	1.10	1.147

```
* #####
* Rural minor arterial-Johnston County-Rural
* File 35, Run 1, Scenario 36.
* #####
* Rural minor arterial mix and speeds
* M615 Comment:
```

User supplied VMT mix.

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

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

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.635	1.105	1.129	1.111	1.107	0.156	0.330	0.279	2.84	0.886
Composite NOX:	0.393	0.631	0.770	0.667	2.402	0.344	0.572	5.036	1.10	0.994

```
* #####
* Rural major collector-Johnston County-Rural
* File 35, Run 1, Scenario 37.
* #####
* Rural major collector mix and speeds
M615 Comment:
```

M583 Warning: User supplied VMT mix.
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.639	1.109	1.134	1.116	1.116	0.157	0.333	0.284	2.85	0.902
Composite NOX:	0.392	0.629	0.768	0.665	2.387	0.340	0.566	4.981	1.09	0.886

```
* # # # # # # # # # # # # # # # # # # #  
* Rural minor collector-Johnston County-Rural  
* File 35, Run 1, Scenario 38.  
* # # # # # # # # # # # # # # # # # # #  
* Rural minor collector mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
M583 Warning:  
    The user supplied arterial average speed of 42.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the arterial/collector roadway  
    type for all hours of the day and all vehicle types.  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.643	1.113	1.138	1.120	1.125	0.159	0.337	0.289	2.86	0.906
Composite NOX:	0.390	0.627	0.766	0.662	2.369	0.336	0.559	4.921	1.09	0.884

```
* #####
* Rural local-Johnston County-Rural
* File 35, Run 1, Scenario 39.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.643	1.113	1.138	1.120	1.125	0.159	0.337	0.289	2.86	0.906
Composite NOX:	0.390	0.627	0.766	0.662	2.370	0.336	0.559	4.923	1.09	0.879

* #
* Urban interstate-Johnston County-Rural
* File 35, Run 1, Scenario 40.
* #
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3191	0.3673	0.1253		0.0536	0.0003	0.0018	0.1277	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.586	1.038	1.050	1.041	1.012	0.144	0.304	0.240	3.30	0.802
Composite NOX:	0.416	0.673	0.814	0.709	2.717	0.556	0.926	8.661	1.45	1.742

* #
* Urban principle arterial-Johnston County-Rural
* File 35, Run 1, Scenario 41.
* #
* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3578	0.4119	0.1405		0.0242	0.0003	0.0020	0.0578	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.722	1.209	1.247	1.218	1.327	0.195	0.416	0.404	3.20	1.005
Composite NOX:	0.406	0.635	0.777	0.671	2.125	0.328	0.544	4.792	1.00	0.851

* #

* Urban minor arterial-Johnston County-Rural

* File 35, Run 1, Scenario 42.

* #

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3668	0.4223	0.1441		0.0174	0.0003	0.0021	0.0413	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.692	1.171	1.204	1.179	1.250	0.181	0.387	0.361	3.07	0.977
Composite NOX:	0.392	0.621	0.761	0.657	2.196	0.321	0.534	4.705	1.03	0.755

* #

* Urban collector-Johnston County-Rural

* File 35, Run 1, Scenario 43.

* #

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3702	0.4258	0.1452		0.0150	0.0003	0.0021	0.0357	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.714	1.199	1.236	1.208	1.305	0.191	0.408	0.392	3.16	1.007
Composite NOX:	0.401	0.630	0.771	0.666	2.141	0.325	0.540	4.757	1.01	0.738

* #

* Urban local-Johnston County-Rural

* File 35, Run 1, Scenario 44.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3615	0.4160	0.1419		0.0215	0.0003	0.0021	0.0511	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.722	1.209	1.247	1.218	1.327	0.195	0.416	0.404	3.20	1.009
Composite NOX:	0.406	0.635	0.777	0.671	2.126	0.328	0.544	4.794	1.00	0.819

* #

* Rural principle arterial-Franklin County-AM Peak

* File 35, Run 1, Scenario 45.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3332	0.3837	0.1308		0.0429	0.0003	0.0019	0.1020	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.606	1.068	1.086	1.072	1.045	0.147	0.310	0.250	2.81	0.839
Composite NOX:	0.404	0.652	0.791	0.687	2.561	0.414	0.688	6.552	1.24	1.274

* #

* Rural minor arterial-Franklin County-AM Peak

* File 35, Run 1, Scenario 46.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.606	1.068	1.086	1.072	1.045	0.147	0.310	0.250	2.81	0.851
Composite NOX:	0.404	0.652	0.791	0.687	2.560	0.414	0.688	6.068	1.24	1.101

* #

* Rural major collector-Franklin County-AM Peak

* File 35, Run 1, Scenario 47.

* #

* Rural major collector mix and speeds

M615 Comment:

10115 COMMENTS: User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.639	1.109	1.134	1.116	1.116	0.157	0.333	0.284	2.85	0.902
Composite NOX:	0.392	0.629	0.768	0.665	2.387	0.340	0.566	4.981	1.09	0.886

* #
* Rural minor collector-Franklin County-AM Peak
* File 35, Run 1, Scenario 48.
* #
* Rural minor collector mix and speeds

M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.621	1.089	1.110	1.094	1.077	0.151	0.319	0.263	2.82	0.881
Composite NOX:	0.398	0.640	0.779	0.676	2.474	0.369	0.613	5.401	1.14	0.928

* #
* Rural local-Franklin County-AM Peak
* File 35, Run 1, Scenario 49.
* #
* Rural local mix and speeds

M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2011
Month: July
Altitude: Low

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

```
* #####
* Rural principle arterial-Franklin County-PM Peak
* File 35, Run 1, Scenario 50.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 50.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural minor arterial-Franklin County-PM Peak
* File 35, Run 1, Scenario 51.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 52.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

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

```
* #####
* Rural major collector-Franklin County-PM Peak
* File 35, Run 1, Scenario 52.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural minor collector-Franklin County-PM Peak
* File 35, Run 1, Scenario 53.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

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

```
# # # # #
* Rural local-Franklin County-PM Peak
* File 35, Run 1, Scenario 54.
# # # # #
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed
will be used for all hours of the day.
      has been assigned to the arterial/collection
type for all hours of the day and all vehicle classes
M 48 Warning:
      there are no sales for vehicle class
```

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

```
* #####
* Rural principle arterial-Franklin County-OP Peak
* File 35, Run 1, Scenario 55.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed
    will be used for all hours of the day.
    has been assigned to the freeway roadway
    all hours of the day and all vehicle type
M 48 Warning:
    there are no sales for vehicle class
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.3332	0.3837	0.1308		0.0429	0.0003	0.0019	0.1020	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.606	1.068	1.086	1.072	1.045	0.147	0.310	0.250	2.81	0.839
Composite NOX:	0.404	0.652	0.791	0.687	2.561	0.414	0.688	6.552	1.24	1.274

```
there are no sales for vehicle class HDGV8b
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.603	1.064	1.081	1.068	1.039	0.146	0.309	0.247	2.81	0.847
Composite NOX:	0.405	0.654	0.793	0.689	2.577	0.423	0.705	6.215	1.26	1.115

```
there are no sales for vehicle class HDGV8b
```


Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.647	1.118	1.143	1.124	1.134	0.160	0.340	0.294	2.88	0.911
Composite NOX:	0.389	0.625	0.763	0.660	2.351	0.332	0.552	4.861	1.09	0.874

```

M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.621	1.089	1.110	1.094	1.077	0.151	0.319	0.263	2.82	0.881
Composite NOX:	0.398	0.640	0.779	0.676	2.474	0.369	0.613	5.401	1.14	0.928

```
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 43.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
```

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.639	1.109	1.134	1.116	1.116	0.157	0.333	0.284	2.85	0.902
Composite NOX:	0.392	0.629	0.768	0.665	2.387	0.340	0.566	4.981	1.09	0.885

* * * * *
* Rural principle arterial-Franklin County-Rural
* File 35, Run 1, Scenario 60.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3332	0.3837	0.1308		0.0429	0.0003	0.0019	0.1020	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.628	1.097	1.120	1.103	1.091	0.153	0.324	0.270	2.83	0.866
Composite NOX:	0.395	0.636	0.774	0.671	2.438	0.355	0.590	5.682	1.11	1.168

* * * * *
* Rural minor arterial-Franklin County-Rural
* File 35, Run 1, Scenario 61.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.639	1.109	1.134	1.116	1.115	0.157	0.333	0.283	2.85	0.890
Composite NOX:	0.392	0.629	0.768	0.665	2.386	0.340	0.566	4.980	1.09	0.988

* #
* Rural major collector-Franklin County-Rural
* File 35, Run 1, Scenario 62.
* #
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.643	1.113	1.138	1.120	1.125	0.159	0.337	0.289	2.86	0.906
Composite NOX:	0.390	0.627	0.766	0.662	2.370	0.336	0.559	4.923	1.09	0.880

* #
* Rural minor collector-Franklin County-Rural
* File 35, Run 1, Scenario 63.
* #
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

```

there are no sales for vehicle class HDGV8b

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.643	1.113	1.138	1.120	1.125	0.159	0.337	0.289	2.86	0.906
Composite NOX:	0.390	0.627	0.766	0.662	2.369	0.336	0.559	4.921	1.09	0.884

```
* #####
* Rural local-Franklin County-Rural
* File 35, Run 1, Scenario 64.
* #####
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.
```

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.643	1.113	1.138	1.120	1.125	0.159	0.337	0.289	2.86	0.906
Composite NOX:	0.390	0.627	0.766	0.662	2.370	0.336	0.559	4.923	1.09	0.879

```
* #####
* Urban principle arterial-Franklin County-Rural
* File 35, Run 1, Scenario 65.
* #####
* Urban principle arterial mix and speeds
M615 Comment:
      User supplied VMT mix.
```

```

M583 Warning:
    The user supplied arterial average speed of 27.0
    will be used for all hours of the day. 100% of VMT

```

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3578	0.4119	0.1405		0.0242	0.0003	0.0020	0.0578	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.219	1.259	1.229	1.350	0.199	0.425	0.416	3.23	1.016
Composite NOX:	0.410	0.640	0.783	0.676	2.108	0.330	0.549	4.834	0.99	0.857

* #
* Urban minor arterial-Franklin County-Rural
* File 35, Run 1, Scenario 66.
* #
* Urban minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3668	0.4223	0.1441		0.0174	0.0003	0.0021	0.0413	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.699	1.180	1.214	1.189	1.267	0.184	0.394	0.371	3.10	0.985
Composite NOX:	0.395	0.623	0.763	0.659	2.178	0.322	0.535	4.714	1.03	0.758

* #
* Urban collector-Franklin County-Rural
* File 35, Run 1, Scenario 67.
* #
* Urban collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0

5-1344
Appendix C.3
June 7, 2007

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.717	1.218	1.238	1.223	1.099	0.154	0.327	0.274	2.83	0.987
Composite NOX:	0.482	0.761	0.891	0.794	2.419	0.348	0.578	5.088	1.10	1.001

* #

* Rural local-Chatham County-AM Peak

* File 36, Run 1, Scenario 5.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.754	1.260	1.285	1.267	1.178	0.168	0.358	0.319	2.95	1.030
Composite NOX:	0.474	0.746	0.876	0.779	2.283	0.323	0.537	4.729	1.07	0.958

* #

* Rural principle arterial-Chatham County-PM Peak

* File 36, Run 1, Scenario 6.

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Chatham County-PM Peak
* File 36, Run 1, Scenario 9.
* #####
* Rural minor collector mix and speeds
M615 Comment:
      User supplied VMT mix.
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural principle arterial-Chatham County-OP Peak
* File 36, Run 1, Scenario 11.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 54.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan


```

M615 Comment:
    User supplied VMT mix.
M 96 Warning:
    66.0      speed reduced to 65 mph maximum
M581 Warning:
    The user supplied freeway average speed of 65
    will be used for all hours of the day. 100% o
    has been assigned to the freeway roadway type
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* # # # # # # # # # # # # # # # # # # # # #  
* Rural principle arterial-Johnston County-AM Peak  
* File 36, Run 1, Scenario 17.  
* # # # # # # # # # # # # # # # # # # # # #  
* Rural other principle arterial mix and speeds  
M615 Comment:
```

```

M415 Comment:      User supplied VMT mix.
M581 Warning:      The user supplied freeway average speed of 39.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the freeway roadway type for
                    all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Composite Emission Factors (g/mi):

Composite VOC:	0.744	1.249	1.272	1.255	1.154	0.164	0.349	0.306	2.91	0.990
Composite NOX:	0.475	0.748	0.879	0.782	2.316	0.326	0.542	5.258	1.08	1.203

* * * * *

* Rural minor arterial-Johnston County-AM Peak

* File 36, Run 1, Scenario 18.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.717	1.218	1.238	1.223	1.099	0.154	0.327	0.274	2.83	0.973
Composite NOX:	0.482	0.761	0.891	0.794	2.418	0.348	0.578	5.090	1.10	1.098

* * * * *

* Rural major collector-Johnston County-AM Peak

* File 36, Run 1, Scenario 19.

* * * * *

* Rural major collector mix and speeds

M615 Comment:
User supplied VMT mix.

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

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000


```
* #####
* Rural minor collector-Johnston County-AM Peak
* File 36, Run 1, Scenario 20.
* #####
* Rural minor collector mix and speeds
M615 Comment:
```

```

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

```

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

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	3.0 ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000

```
* #####  
* Rural local-Johnston County-AM Peak  
* File 36, Run 1, Scenario 21.  
* #####  
* Rural local mix and speeds  
M615 Comment:
```

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

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

VTM Distribution:0.3551 0.4088 0.1395 0.0263 0.0003 0.0020 0.0625 0.0055 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.708 1.207 1.225 1.212 1.084 0.152 0.322 0.267 2.82 0.977
Composite NOX: 0.484 0.766 0.896 0.799 2.457 0.362 0.602 5.303 1.13 1.014

* * * * *
* Rural interstate-Johnston County-PM Peak
* File 36, Run 1, Scenario 22.
* * * * *
* Rural interstate mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VTM Distribution:0.2660 0.3060 0.1044 0.0941 0.0002 0.0015 0.2237 0.0041 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.657 1.135 1.143 1.137 1.010 0.144 0.304 0.240 3.37 0.805
Composite NOX: 0.506 0.806 0.938 0.839 2.734 0.578 0.963 8.991 1.47 2.755

* * * * *
* Rural principle arterial-Johnston County-PM Peak
* File 36, Run 1, Scenario 23.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3332	0.3837	0.1308		0.0429	0.0003	0.0019	0.1020	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.739	1.243	1.266	1.249	1.144	0.162	0.344	0.299	2.89	0.984
Composite NOX:	0.476	0.750	0.880	0.783	2.332	0.328	0.545	5.279	1.08	1.207

* * * * *

* Rural minor arterial-Johnston County-OP Peak

* File 36, Run 1, Scenario 30.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

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

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.700	1.197	1.214	1.202	1.069	0.150	0.317	0.260	2.82	0.953
Composite NOX:	0.487	0.771	0.901	0.804	2.490	0.375	0.624	5.498	1.15	1.141

* * * * *

* Rural major collector-Johnston County-OP Peak

* File 36, Run 1, Scenario 31.

* * * * *

* Rural major collector mix and speeds

M615 Comment:
User supplied VMT mix.

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

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.712	1.213	1.232	1.217	1.091	0.153	0.324	0.270	2.83	0.982
Composite NOX:	0.483	0.764	0.894	0.797	2.439	0.355	0.590	5.199	1.11	1.000

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.725	1.228	1.248	1.233	1.116	0.157	0.333	0.284	2.85	0.996
Composite NOX:	0.479	0.757	0.887	0.790	2.387	0.340	0.566	4.979	1.09	0.999

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.233	1.254	1.238	1.125	0.159	0.337	0.289	2.86	1.002
Composite NOX:	0.478	0.755	0.885	0.788	2.370	0.336	0.559	4.923	1.09	0.979

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2660	0.3060	0.1044		0.0941	0.0002	0.0015	0.2237	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.653	1.129	1.135	1.130	1.007	0.144	0.304	0.240	3.50	0.801
Composite NOx:	0.508	0.810	0.943	0.844	2.768	0.620	1.034	9.619	1.52	2.902

Exhaust I/M Program: No

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3332	0.3837	0.1308		0.0429	0.0003	0.0019	0.1020	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.721	1.223	1.243	1.228	1.107	0.156	0.330	0.279	2.84	0.963
Composite NOX:	0.481	0.759	0.889	0.792	2.403	0.344	0.572	5.520	1.10	1.241

* #
 * Rural minor arterial-Johnston County-Rural
 * File 36, Run 1, Scenario 36.
 * #
 * Rural minor arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.721	1.223	1.243	1.228	1.107	0.156	0.330	0.279	2.84	0.978
Composite NOX:	0.481	0.759	0.889	0.792	2.402	0.344	0.572	5.036	1.10	1.091

* #
 * Rural major collector-Johnston County-Rural
 * File 36, Run 1, Scenario 37.
 * #
 * Rural major collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.725	1.228	1.248	1.233	1.116	0.157	0.333	0.284	2.85	0.997
Composite NOX:	0.479	0.757	0.887	0.790	2.387	0.340	0.566	4.981	1.09	0.986

* #

* Rural minor collector-Johnston County-Rural

* File 36, Run 1, Scenario 38.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.233	1.254	1.238	1.125	0.159	0.337	0.289	2.86	1.001
Composite NOX:	0.478	0.755	0.885	0.788	2.369	0.336	0.559	4.921	1.09	0.984

* #

* Rural local-Johnston County-Rural

* File 36, Run 1, Scenario 39.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.233	1.254	1.238	1.125	0.159	0.337	0.289	2.86	1.002
Composite NOX:	0.478	0.755	0.885	0.788	2.370	0.336	0.559	4.923	1.09	0.979

* #
 * Urban interstate-Johnston County-Rural
 * File 36, Run 1, Scenario 40.
 * #
 * Urban interstate mix and speeds
 M615 Comment:

User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3191	0.3673	0.1253		0.0536	0.0003	0.0018	0.1277	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.659	1.139	1.147	1.141	1.012	0.144	0.304	0.240	3.30	0.874
Composite NOX:	0.504	0.803	0.935	0.837	2.717	0.556	0.926	8.661	1.45	1.833

* #
 * Urban principle arterial-Johnston County-Rural
 * File 36, Run 1, Scenario 41.
 * #
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3578	0.4119	0.1405		0.0242	0.0003	0.0020	0.0578	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.822	1.346	1.381	1.355	1.327	0.195	0.416	0.404	3.20	1.116
Composite NOX:	0.497	0.765	0.900	0.799	2.125	0.328	0.544	4.792	1.00	0.954

* #

* Urban minor arterial-Johnston County-Rural

* File 36, Run 1, Scenario 42.

* #

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3668	0.4223	0.1441		0.0174	0.0003	0.0021	0.0413	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.787	1.301	1.332	1.309	1.250	0.181	0.387	0.361	3.07	1.085
Composite NOX:	0.481	0.749	0.881	0.783	2.196	0.321	0.534	4.705	1.03	0.860

* #

* Urban collector-Johnston County-Rural

* File 36, Run 1, Scenario 43.

* #

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

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

```
* # # # # # # # # # # # # # # # # # # # # # # # #  
* Urban local-Johnston County-Rural  
* File 36, Run 1, Scenario 44.  
* # # # # # # # # # # # # # # # # # # # # # # # #  
* Urban local mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
M583 Warning:  
    The user supplied arterial average speed of 28.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the arterial/collector roadway  
    type for all hours of the day and all vehicle types.  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural principle arterial-Franklin County-AM Peak
* File 36, Run 1, Scenario 45.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3332	0.3837	0.1308		0.0429	0.0003	0.0019	0.1020	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.685	1.177	1.191	1.180	1.045	0.147	0.310	0.250	2.81	0.921
Composite NOX:	0.492	0.780	0.911	0.813	2.561	0.414	0.688	6.552	1.24	1.369

```
* #####
* Rural minor arterial-Franklin County-AM Peak
* File 36, Run 1, Scenario 46.
* #####
* Rural minor arterial mix and speeds
* M615 Comment:
```

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

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

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.685	1.177	1.191	1.180	1.045	0.147	0.310	0.250	2.81	0.935
Composite NOX:	0.492	0.780	0.911	0.814	2.560	0.414	0.688	6.068	1.24	1.198

```
* #####
* Rural major collector-Franklin County-AM Peak
* File 36, Run 1, Scenario 47.
* #####
* Rural major collector mix and speeds
* M615 Comment:
```

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

```

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.725	1.228	1.248	1.233	1.116	0.157	0.333	0.284	2.85	0.997
Composite NOX:	0.479	0.757	0.887	0.790	2.387	0.340	0.566	4.981	1.09	0.98

```
* #####
* Rural minor collector-Franklin County-AM Peak
* File 36, Run 1, Scenario 48.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.704	1.202	1.220	1.207	1.077	0.151	0.319	0.263	2.82	0.972
Composite NOX:	0.485	0.768	0.899	0.802	2.474	0.369	0.613	5.401	1.14	1.028

```
* #####
* Rural local-Franklin County-AM Peak
* File 36, Run 1, Scenario 49.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

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

```
* #####
* Rural principle arterial-Franklin County-PM Peak
* File 36, Run 1, Scenario 50.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
      User supplied VMT mix.
M581 Warning:
      The user supplied freeway average speed of 50.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural minor arterial-Franklin County-PM Peak
* File 36, Run 1, Scenario 51.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 52.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

```


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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.689	1.182	1.197	1.186	1.050	0.147	0.312	0.252	2.81	0.940
Composite NOX:	0.490	0.778	0.908	0.811	2.542	0.403	0.671	5.915	1.21	1.183

* #

* Rural major collector-Franklin County-PM Peak

* File 36, Run 1, Scenario 52.

* #

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.233	1.254	1.238	1.125	0.159	0.337	0.289	2.86	1.002
Composite NOX:	0.478	0.755	0.885	0.788	2.370	0.336	0.559	4.923	1.09	0.980

* #

* Rural minor collector-Franklin County-PM Peak

* File 36, Run 1, Scenario 53.

* #

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.704	1.202	1.220	1.207	1.077	0.151	0.319	0.263	2.82	0.972
Composite NOX:	0.485	0.768	0.899	0.802	2.474	0.369	0.613	5.401	1.14	1.028

* #

* Rural local-Franklin County-PM Peak

* File 36, Run 1, Scenario 54.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.725	1.228	1.248	1.233	1.116	0.157	0.333	0.284	2.85	0.997
Composite NOX:	0.479	0.757	0.887	0.790	2.387	0.340	0.566	4.981	1.09	0.985

* #

* Rural principle arterial-Franklin County-OP Peak

* File 36, Run 1, Scenario 55.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

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

```
* #####
* Rural minor arterial-Franklin County-OP Peak
* File 36, Run 1, Scenario 56.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 54.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural major collector-Franklin County-OP Peak
* File 36, Run 1, Scenario 57.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 41.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

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

```
* #####
* Rural minor collector-Franklin County-OP Peak
* File 36, Run 1, Scenario 58.
* #####
* Rural minor collector mix and speeds
* M615 Comment:
* User supplied VMT mix.
```

```

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

```

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

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

```
* #####
* Rural local-Franklin County-OP Peak
* File 36, Run 1, Scenario 59.
* #####
* Rural local mix and speeds
* M615 Comment:
      User supplied VMT mix.
```

M583 Warning: The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

Calendar Year: 2011

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

```
* #####  
* Rural principle arterial-Franklin County-Rural  
* File 36, Run 1, Scenario 60.  
* #####  
* Rural other principle arterial mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
M581 Warning:  
    The user supplied freeway average speed of 46.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the freeway roadway type for  
    all hours of the day and all vehicle types.  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b
```

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

```
* #####
* Rural minor arterial-Franklin County-Rural
* File 36, Run 1, Scenario 61.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3441	0.3962	0.1351		0.0346	0.0003	0.0020	0.0824	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.725	1.228	1.248	1.233	1.115	0.157	0.333	0.283	2.85	0.982
Composite NOX:	0.479	0.757	0.887	0.790	2.386	0.340	0.566	4.980	1.09	1.082

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3551	0.4086	0.1394		0.0264	0.0003	0.0020	0.0627	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.233	1.254	1.238	1.125	0.159	0.337	0.289	2.86	1.002
Composite NOX:	0.478	0.755	0.885	0.788	2.370	0.336	0.559	4.923	1.09	0.980

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3546	0.4081	0.1392		0.0267	0.0003	0.0020	0.0636	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.233	1.254	1.238	1.125	0.159	0.337	0.289	2.86	1.001
Composite NOX:	0.478	0.755	0.885	0.788	2.369	0.336	0.559	4.921	1.09	0.984

* #
 * Rural local-Franklin County-Rural
 * File 36, Run 1, Scenario 64.
 * #
 * Rural local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.233	1.254	1.238	1.125	0.159	0.337	0.289	2.86	1.002
Composite NOX:	0.478	0.755	0.885	0.788	2.370	0.336	0.559	4.923	1.09	0.979

* #
 * Urban principle arterial-Franklin County-Rural
 * File 36, Run 1, Scenario 65.
 * #
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3578	0.4119	0.1405		0.0242	0.0003	0.0020	0.0578	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.832	1.358	1.395	1.368	1.350	0.199	0.425	0.416	3.23	1.128
Composite NOX:	0.503	0.771	0.906	0.805	2.108	0.330	0.549	4.834	0.99	0.962

* * * * *
* Urban minor arterial-Franklin County-Rural
* File 36, Run 1, Scenario 66.
* * * * *
* Urban minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3668	0.4223	0.1441		0.0174	0.0003	0.0021	0.0413	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.795	1.312	1.344	1.320	1.267	0.184	0.394	0.371	3.10	1.095
Composite NOX:	0.484	0.752	0.884	0.786	2.178	0.322	0.535	4.714	1.03	0.862

* * * * *
* Urban collector-Franklin County-Rural
* File 36, Run 1, Scenario 67.
* * * * *
* Urban collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3702	0.4258	0.1452		0.0150	0.0003	0.0021	0.0357	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.795	1.312	1.344	1.320	1.266	0.184	0.394	0.371	3.10	1.099
Composite NOX:	0.484	0.752	0.884	0.786	2.175	0.322	0.535	4.712	1.03	0.836

* * * * *
 * Urban local-Franklin County-Rural
 * File 36, Run 1, Scenario 68.
 * * * * *
 * Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

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

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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3615	0.4160	0.1419		0.0215	0.0003	0.0021	0.0511	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.804	1.324	1.357	1.332	1.285	0.188	0.401	0.381	3.13	1.099
Composite NOX:	0.488	0.755	0.888	0.788	2.157	0.323	0.536	4.720	1.02	0.911

* * * * *
 * Rural principle arterial-Person County
 * File 36, Run 1, Scenario 69.
 * * * * *
 * Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for

```
there are no sales for vehicle class HDGV8b
```

Fuel Sulfur Content: 30. ppm

Reformulated Gas: No

Composite NOX:	0.483	0.764	0.894	0.797	2.438	0.355	0.590	5.682	1.11	1.262
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

User supplied VMT mix.

type for all hours of the day and all vehicle types.

```
there are no sales for vehicle class HDGV8b
```

Fuel Sulfur Content: 30. ppm

Reformulated Gas: No

Composite NOX:	0.479	0.757	0.887	0.790	2.386	0.340	0.566	4.980	1.09	1.085
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

User supplied VMT mix.

will be used for all hours of the day. 100% of VMT

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4088	0.1395		0.0263	0.0003	0.0020	0.0625	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.233	1.254	1.238	1.125	0.159	0.337	0.289	2.86	1.002
Composite NOX:	0.478	0.755	0.885	0.788	2.370	0.336	0.559	4.923	1.09	0.979

* #

* Urban principle arterial-Person County

* File 36, Run 1, Scenario 74.

* #

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3578	0.4119	0.1405		0.0242	0.0003	0.0020	0.0578	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.832	1.358	1.395	1.368	1.350	0.199	0.425	0.416	3.23	1.128
Composite NOX:	0.503	0.771	0.906	0.805	2.108	0.330	0.549	4.834	0.99	0.962

* #

* Urban minor arterial-Person County

* File 36, Run 1, Scenario 75.

* #

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3615	0.4160	0.1419		0.0215	0.0003	0.0021	0.0511	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.804	1.324	1.357	1.332	1.285	0.188	0.401	0.381	3.13	1.099
Composite NOX:	0.488	0.755	0.888	0.788	2.157	0.323	0.536	4.720	1.02	0.911

Composite Emission Factors (g/mi):										
Composite VOC:	0.433	0.810	0.834	0.816	0.815	0.088	0.239	0.204	2.84	0.645
Composite NOX:	0.285	0.513	0.631	0.543	1.606	0.236	0.514	4.500	1.31	0.918

there are no sales for vehicle class LDDT12

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

```
there are no sales for vehicle class LDPT12
```

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

5-1385
Appendix C.3
June 7, 2007

Composite Emission Factors (g/mi):
 Composite VOC: 0.449 0.832 0.862 0.840 0.855 0.092 0.251 0.222 2.78 0.683
 Composite NOX: 0.277 0.497 0.614 0.527 1.510 0.190 0.414 3.372 1.13 0.653

* * * * *
 * Rural minor collector-Chatham County-AM Peak
 * File 37, Run 1, Scenario 4.
 * * * * *
 * Rural minor collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.454 0.838 0.869 0.846 0.867 0.094 0.255 0.229 2.79 0.689
 Composite NOX: 0.275 0.494 0.611 0.523 1.487 0.183 0.397 3.237 1.10 0.644

* * * * *
 * Rural local-Chatham County-AM Peak
 * File 37, Run 1, Scenario 5.
 * * * * *
 * Rural local mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.457	0.840	0.872	0.848	0.872	0.095	0.257	0.232	2.80	0.692
Composite NOX:	0.274	0.492	0.609	0.522	1.477	0.181	0.393	3.205	1.10	0.637

* * * * *

* Rural principle arterial-Chatham County-PM Peak

* File 37, Run 1, Scenario 6.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.433	0.810	0.834	0.816	0.815	0.088	0.239	0.204	2.84	0.645
Composite NOX:	0.285	0.513	0.631	0.543	1.606	0.236	0.514	4.500	1.31	0.918

* * * * *

* Rural minor arterial-Chatham County-PM Peak

* File 37, Run 1, Scenario 7.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.447	0.830	0.859	0.837	0.849	0.092	0.249	0.219	2.78	0.672
Composite NOX:	0.278	0.499	0.616	0.529	1.520	0.194	0.422	3.435	1.14	0.726

* #

* Rural major collector-Chatham County-PM Peak

* File 37, Run 1, Scenario 8.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.447	0.830	0.859	0.837	0.849	0.092	0.249	0.219	2.78	0.681
Composite NOX:	0.278	0.499	0.616	0.529	1.521	0.194	0.422	3.435	1.14	0.659

* #

* Rural minor collector-Chatham County-PM Peak

* File 37, Run 1, Scenario 9.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.838	0.869	0.846	0.867	0.094	0.255	0.229	2.79	0.689
Composite NOX:	0.275	0.494	0.611	0.523	1.487	0.183	0.397	3.237	1.10	0.644

* #

* Rural local-Chatham County-PM Peak

* File 37, Run 1, Scenario 10.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VMT Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.465	0.848	0.881	0.857	0.893	0.098	0.265	0.245	2.83	0.701
Composite NOX:	0.272	0.487	0.604	0.517	1.445	0.175	0.380	3.095	1.09	0.625

* #

* Rural principle arterial-Chatham County-OP Peak

* File 37, Run 1, Scenario 11.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

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

```

* #####
* Rural minor arterial-Chatham County-OP Peak
* File 37, Run 1, Scenario 12.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 49.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDET12

```

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

```
* #####
* Rural major collector-Chatham County-OP Peak
* File 37, Run 1, Scenario 13.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

```
M 48 Warning:
      there are no sales for vehicle class LDPT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.447	0.830	0.859	0.837	0.849	0.092	0.249	0.219	2.78	0.681
Composite NOX:	0.278	0.499	0.616	0.529	1.521	0.194	0.422	3.435	1.14	0.659

```
* #####
* Rural minor collector-Chatham County-OP Peak
* File 37, Run 1, Scenario 14.
* #####
* Rural minor collector mix and speeds
* M615 Comment:
```

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```

there are no sales for vehicle class HDGV8b

```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.838	0.869	0.846	0.867	0.094	0.255	0.229	2.79	0.689
Composite NOX:	0.275	0.494	0.611	0.523	1.487	0.183	0.397	3.237	1.10	0.644

```
* #####
* Rural local-Chatham County-OP Peak
* File 37, Run 1, Scenario 15.
* #####
* Rural local mix and speeds
* M615 Comment:
```

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 45.0

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2441	0.3224	0.1099		0.0937	0.0002	0.0016	0.2241	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.426	0.800	0.820	0.805	0.801	0.087	0.237	0.200	3.25	0.585
Composite NOX:	0.291	0.524	0.644	0.554	1.670	0.293	0.636	5.488	1.45	1.704

* * * * *

* Rural principle arterial-Johnston County-PM Peak

* File 37, Run 1, Scenario 23.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.483	0.867	0.904	0.877	0.948	0.106	0.286	0.279	2.94	0.707
Composite NOX:	0.268	0.479	0.596	0.509	1.380	0.168	0.366	3.297	1.06	0.760

* * * * *

* Rural minor arterial-Johnston County-PM Peak

* File 37, Run 1, Scenario 24.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.477	0.860	0.896	0.869	0.927	0.103	0.278	0.266	2.90	0.707
Composite NOX:	0.269	0.482	0.598	0.511	1.403	0.170	0.370	3.013	1.07	0.674

* * * * *
 * Rural major collector-Johnston County-PM Peak
 * File 37, Run 1, Scenario 25.
 * * * * *
 * Rural major collector mix and speeds
 M615 Comment:
 User supplied VMT mix.

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

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

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

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.474	0.857	0.892	0.866	0.918	0.101	0.275	0.260	2.88	0.711
Composite NOX:	0.270	0.483	0.599	0.513	1.414	0.171	0.371	3.028	1.07	0.618

* * * * *
 * Rural minor collector-Johnston County-PM Peak
 * File 37, Run 1, Scenario 26.
 * * * * *
 * Rural minor collector mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)

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

```
* #####
* Rural local-Johnston County-PM Peak
* File 37, Run 1, Scenario 27.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 37.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

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

```
* #####
* Rural interstate-Johnston County-OP Peak
* File 37, Run 1, Scenario 28.
* #####
* Rural interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M 96 Warning:
    66.0      speed reduced to 65 mph maximum
M581 Warning:
    The user supplied freeway average speed of 65.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2441	0.3224	0.1099		0.0937	0.0002	0.0016	0.2241	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.423	0.795	0.814	0.800	0.797	0.087	0.237	0.200	3.45	0.583
Composite NOX:	0.294	0.529	0.649	0.560	1.701	0.326	0.710	6.087	1.52	1.844

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:	<6000	>6000	(All)							
VMT Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.477	0.860	0.896	0.869	0.928	0.103	0.278	0.266	2.90	0.699
Composite NOX:	0.269	0.482	0.598	0.511	1.403	0.170	0.370	3.329	1.07	0.766

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.447	0.830	0.859	0.837	0.849	0.092	0.249	0.219	2.78	0.672
Composite NOX:	0.278	0.499	0.616	0.529	1.520	0.194	0.422	3.435	1.14	0.726

* * * * *
* Rural major collector-Johnston County-OP Peak
* File 37, Run 1, Scenario 31.
* * * * *
* Rural major collector mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.459	0.843	0.875	0.851	0.880	0.096	0.260	0.236	2.81	0.695
Composite NOX:	0.273	0.490	0.607	0.520	1.467	0.179	0.389	3.170	1.09	0.634

* * * * *
* Rural minor collector-Johnston County-OP Peak
* File 37, Run 1, Scenario 32.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

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

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

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

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.457	0.840	0.872	0.848	0.873	0.095	0.257	0.232	2.80	0.691
Composite NOX:	0.274	0.492	0.609	0.522	1.477	0.181	0.393	3.204	1.10	0.640

* * * * *

* Rural local-Johnston County-OP Peak

* File 37, Run 1, Scenario 33.

* * * * *

* Rural local mix and speeds

M615 Comment:
User supplied VMT mix.

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

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

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

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.468	0.851	0.885	0.860	0.901	0.099	0.268	0.250	2.85	0.704
Composite NOX:	0.271	0.485	0.602	0.515	1.433	0.172	0.375	3.054	1.08	0.621

* * * * *

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.462	0.846	0.878	0.854	0.886	0.097	0.262	0.241	2.82	0.698
Composite NOX:	0.272	0.489	0.605	0.518	1.456	0.177	0.385	3.133	1.09	0.629

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VT Distribution:	0.2929	0.3869	0.1318		0.0535	0.0003	0.0019	0.1279	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.426	0.800	0.820	0.805	0.801	0.087	0.237	0.200	3.25	0.627
Composite NOX:	0.291	0.524	0.644	0.554	1.670	0.293	0.636	5.487	1.45	1.172

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
-----					-----		-----		-----	
VMT Distribution:	0.3284	0.4339	0.1479		0.0242	0.0003	0.0022	0.0577	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.518	0.908	0.953	0.920	1.042	0.119	0.322	0.336	3.15	0.767
Composite NOX:	0.283	0.494	0.614	0.525	1.307	0.172	0.375	3.049	1.00	0.612

```

* #####
* Urban minor arterial-Johnston County-Rural
* File 37, Run 1, Scenario 42.
* #####
* Urban minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.

```

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

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

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3368	0.4448	0.1516		0.0173	0.0003	0.0022	0.0414	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.497	0.883	0.923	0.893	0.983	0.111	0.300	0.301	3.02	0.747
Composite NOX:	0.273	0.484	0.601	0.514	1.350	0.169	0.367	2.999	1.03	0.553

```

* #####
* Urban collector-Johnston County-Rural
* File 37, Run 1, Scenario 43.
* #####
* Urban collector mix and speeds
M615 Comment:
User supplied VMT mix.

```

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

```

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

```

Calendar Year: 2014
Month: July
Altitude: Low

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

```

* #####
* Urban local-Johnston County-Rural
* File 37, Run 1, Scenario 44.
* #####
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 28.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

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

```
* #####
* Rural principle arterial-Franklin County-AM Peak
* File 37, Run 1, Scenario 45.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
```

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.447	0.830	0.859	0.837	0.849	0.092	0.249	0.219	2.78	0.664
Composite NOX:	0.278	0.499	0.616	0.529	1.521	0.194	0.422	3.751	1.14	0.827

* #

* Rural minor arterial-Franklin County-AM Peak

* File 37, Run 1, Scenario 46.

* #

* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 50.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.443	0.825	0.853	0.832	0.838	0.090	0.246	0.214	2.77	0.667
Composite NOX:	0.279	0.502	0.620	0.532	1.540	0.201	0.436	3.552	1.16	0.739

* #

* Rural major collector-Franklin County-AM Peak

* File 37, Run 1, Scenario 47.

* #

* Rural major collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.838	0.869	0.846	0.867	0.094	0.255	0.229	2.79	0.689
Composite NOX:	0.275	0.494	0.611	0.523	1.487	0.183	0.397	3.239	1.10	0.641

* #
* Rural minor collector-Franklin County-AM Peak
* File 37, Run 1, Scenario 48.
* #
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.447	0.830	0.859	0.837	0.849	0.092	0.249	0.219	2.78	0.680
Composite NOX:	0.278	0.499	0.616	0.529	1.521	0.194	0.422	3.433	1.14	0.661

* #
* Rural local-Franklin County-AM Peak
* File 37, Run 1, Scenario 49.
* #
* Rural local mix and speeds

M615 Comment:
 User supplied VMT mix.

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

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

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

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.457	0.840	0.872	0.848	0.872	0.095	0.257	0.232	2.80	0.692
Composite NOX:	0.274	0.492	0.609	0.522	1.477	0.181	0.393	3.205	1.10	0.637

* * * * *

* Rural principle arterial-Franklin County-PM Peak

* File 37, Run 1, Scenario 50.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.

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

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

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

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.838	0.869	0.846	0.867	0.094	0.255	0.228	2.79	0.672
Composite NOX:	0.275	0.494	0.611	0.523	1.487	0.183	0.397	3.555	1.10	0.801

Composite Emission Factors (g/mi):
 Composite VOC: 0.459 0.843 0.875 0.851 0.880 0.096 0.260 0.236 2.81 0.695
 Composite NOX: 0.273 0.490 0.607 0.520 1.467 0.179 0.389 3.170 1.09 0.634

* * * * *
 * Rural minor collector-Franklin County-PM Peak
 * File 37, Run 1, Scenario 53.
 * * * * *
 * Rural minor collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 48.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.447 0.830 0.859 0.837 0.849 0.092 0.249 0.219 2.78 0.680
 Composite NOX: 0.278 0.499 0.616 0.529 1.521 0.194 0.422 3.433 1.14 0.661

* * * * *
 * Rural local-Franklin County-PM Peak
 * File 37, Run 1, Scenario 54.
 * * * * *
 * Rural local mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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

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

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.838	0.869	0.846	0.866	0.094	0.255	0.229	2.79	0.689
Composite NOX:	0.275	0.494	0.611	0.523	1.487	0.183	0.397	3.238	1.10	0.640

* * * * *

* Rural principle arterial-Franklin County-OP Peak

* File 37, Run 1, Scenario 55.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.436	0.815	0.840	0.821	0.822	0.088	0.241	0.206	2.77	0.649
Composite NOX:	0.283	0.509	0.627	0.539	1.584	0.223	0.484	4.260	1.26	0.890

* * * * *

* Rural minor arterial-Franklin County-OP Peak

* File 37, Run 1, Scenario 56.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.437	0.817	0.843	0.824	0.825	0.089	0.242	0.208	2.77	0.660
Composite NOX:	0.282	0.508	0.626	0.538	1.574	0.218	0.473	3.851	1.24	0.760

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.465	0.848	0.881	0.857	0.894	0.098	0.265	0.245	2.83	0.701
Composite NOx:	0.272	0.487	0.604	0.517	1.445	0.175	0.380	3.095	1.09	0.624

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.447	0.830	0.859	0.837	0.849	0.092	0.249	0.219	2.78	0.680
Composite NOX:	0.278	0.499	0.616	0.529	1.521	0.194	0.422	3.433	1.14	0.661

```

* #####
* Rural local-Franklin County-OP Peak
* File 37, Run 1, Scenario 59.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 45.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.838	0.869	0.846	0.866	0.094	0.255	0.229	2.79	0.689
Composite NOX:	0.275	0.494	0.611	0.523	1.487	0.183	0.397	3.238	1.10	0.640

```
* #####
* Rural principle arterial-Franklin County-Rural
* File 37, Run 1, Scenario 60.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Calendar Year: 2014
Month: July

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

```
* #####
* Rural minor arterial-Franklin County-Rural
* File 37, Run 1, Scenario 61.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDdT12
```

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

```
* #####
* Rural major collector-Franklin County-Rural
* File 37, Run 1, Scenario 62.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```



```
* Urban local-Franklin County-Rural
* File 37, Run 1, Scenario 68.
* #####
```

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3319	0.4383	0.1493		0.0214	0.0003	0.0022	0.0511	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.507	0.895	0.937	0.906	1.010	0.115	0.310	0.318	3.09	0.756
Composite NOX:	0.278	0.488	0.606	0.518	1.326	0.170	0.369	3.006	1.02	0.585

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.539	0.967	0.986	0.971	0.849	0.092	0.249	0.219	2.78	0.776
Composite NOX:	0.377	0.652	0.757	0.679	1.520	0.194	0.422	3.435	1.14	0.841

* #

* Rural major collector-Chatham County-AM Peak

* File 38, Run 1, Scenario 3.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.542	0.970	0.990	0.975	0.855	0.092	0.251	0.222	2.78	0.791
Composite NOX:	0.376	0.650	0.755	0.677	1.510	0.190	0.414	3.372	1.13	0.772

Mobile Source Inventory

Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone

Redesignation Demonstration and Maintenance Plan

5-1422

Appendix C.3

June 7, 2007

VTM Distribution:0.3261 0.4306 0.1468 0.0262 0.0003 0.0021 0.0625 0.0054 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.551 0.981 1.003 0.987 0.872 0.095 0.257 0.232 2.80 0.803
Composite NOX: 0.374 0.645 0.749 0.671 1.477 0.181 0.393 3.205 1.10 0.755

* * * * *
* Rural principle arterial-Chatham County-PM Peak
* File 38, Run 1, Scenario 6.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

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

VTM Distribution:0.3058 0.4041 0.1377 0.0427 0.0003 0.0020 0.1023 0.0051 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.518 0.939 0.953 0.942 0.815 0.088 0.239 0.204 2.84 0.740
Composite NOX: 0.385 0.668 0.774 0.695 1.606 0.236 0.514 4.500 1.31 1.031

* * * * *
* Rural minor arterial-Chatham County-PM Peak
* File 38, Run 1, Scenario 7.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

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

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.539	0.967	0.986	0.971	0.849	0.092	0.249	0.219	2.78	0.776
Composite NOX:	0.377	0.652	0.757	0.679	1.520	0.194	0.422	3.435	1.14	0.841

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.539	0.967	0.986	0.971	0.849	0.092	0.249	0.219	2.78	0.788
Composite NOX:	0.377	0.652	0.757	0.679	1.521	0.194	0.422	3.435	1.14	0.778

Weathered RVP: 8.6 psi

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural local-Chatham County-PM Peak
* File 38, Run 1, Scenario 10.
* #####
* Rural local mix and speeds
* M615 Comment:
```

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural principle arterial-Chatham County-OP Peak
* File 38, Run 1, Scenario 11.
* #####
* Rural other principle arterial mix and speeds
M15L Comment:
```

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.516	0.936	0.949	0.939	0.812	0.088	0.239	0.203	2.91	0.738
Composite NOX:	0.386	0.670	0.776	0.697	1.617	0.245	0.532	4.646	1.33	1.048

* #

* Rural minor arterial-Chatham County-OP Peak

* File 38, Run 1, Scenario 12.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.536	0.963	0.982	0.968	0.844	0.091	0.247	0.217	2.77	0.773
Composite NOX:	0.378	0.654	0.759	0.681	1.531	0.197	0.429	3.495	1.15	0.848

* #

* Rural major collector-Chatham County-OP Peak

* File 38, Run 1, Scenario 13.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.539	0.967	0.986	0.971	0.849	0.092	0.249	0.219	2.78	0.788
Composite NOX:	0.377	0.652	0.757	0.679	1.521	0.194	0.422	3.435	1.14	0.778

* #
 * Rural minor collector-Chatham County-OP Peak
 * File 38, Run 1, Scenario 14.
 * #
 * Rural minor collector mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.548	0.978	0.999	0.983	0.867	0.094	0.255	0.229	2.79	0.798
Composite NOX:	0.374	0.646	0.751	0.673	1.487	0.183	0.397	3.237	1.10	0.762

* #
 * Rural local-Chatham County-OP Peak
 * File 38, Run 1, Scenario 15.
 * #
 * Rural local mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.548	0.978	0.999	0.983	0.866	0.094	0.255	0.229	2.79	0.799
Composite NOX:	0.374	0.646	0.751	0.673	1.487	0.183	0.397	3.238	1.10	0.759

* * * * *
 * Rural interstate-Johnston County-AM Peak
 * File 38, Run 1, Scenario 16.
 * * * * *
 * Rural interstate mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 64.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2441	0.3224	0.1099		0.0937	0.0002	0.0016	0.2241	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.504	0.917	0.927	0.920	0.798	0.087	0.237	0.200	3.39	0.654
Composite NOX:	0.393	0.684	0.791	0.711	1.691	0.316	0.686	5.894	1.50	1.890

* * * * *
 * Rural principle arterial-Johnston County-AM Peak
 * File 38, Run 1, Scenario 17.
 * * * * *
 * Rural other principle arterial mix and speeds
 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:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.576	1.009	1.034	1.015	0.928	0.103	0.278	0.266	2.90	0.809
Composite NOx:	0.369	0.634	0.738	0.660	1.403	0.170	0.370	3.329	1.07	0.877

```

* #####
* Rural minor arterial-Johnston County-AM Peak
* File 38, Run 1, Scenario 18.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.

```

M583 Warning: The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.569	1.000	1.025	1.006	0.909	0.100	0.271	0.255	2.86	0.811
Composite NOx:	0.370	0.636	0.741	0.663	1.424	0.172	0.373	3.042	1.08	0.794

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector-Johnston County-AM Peak
```

5-1431
Appendix C.3
June 7, 2007

Composite NOX: 0.372 0.641 0.746 0.668 1.456 0.177 0.385 3.132 1.09 0.751

```
* #####
* Rural local-Johnston County-AM Peak
* File 38, Run 1, Scenario 21.
* #####
```

```
* Rural local mix and speeds
```

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDPT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
MT Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.585	1.018	1.045	1.025	0.947	0.106	0.286	0.279	2.94	0.841
Composite NOX:	0.368	0.631	0.736	0.658	1.380	0.168	0.366	2.980	1.06	0.729

```
* #####
* Rural interstate-Johnston County-PM Peak
* File 38, Run 1, Scenario 22.
* #####
```

```
* Rural interstate mix and speeds
```

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 62.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.576	1.009	1.034	1.015	0.927	0.103	0.278	0.266	2.90	0.820
Composite NOX:	0.369	0.634	0.739	0.660	1.403	0.170	0.370	3.013	1.07	0.789

```

M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.573	1.004	1.029	1.011	0.918	0.101	0.275	0.260	2.88	0.827
Composite NOx:	0.369	0.635	0.740	0.662	1.414	0.171	0.371	3.028	1.07	0.732

```

M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural local-Johnston County-PM Peak
* File 38, Run 1, Scenario 27.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 37.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural interstate-Johnston County-OP Peak
* File 38, Run 1, Scenario 28.
* #####
* Rural interstate mix and speeds
M615 Comment:
      User supplied VMT mix.
M 96 Warning:
      66.0      speed reduced to 65 mph maximum
M581 Warning:
      The user supplied freeway average speed of 65.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
      there are no sales for vehicle class LDDT12
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2441	0.3224	0.1099		0.0937	0.0002	0.0016	0.2241	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.503	0.915	0.924	0.917	0.797	0.087	0.237	0.200	3.45	0.653
Composite NOX:	0.394	0.686	0.793	0.713	1.701	0.326	0.710	6.087	1.52	1.936

* * * * *
* Rural principle arterial-Johnston County-OP Peak
* File 38, Run 1, Scenario 29.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.576	1.009	1.034	1.015	0.928	0.103	0.278	0.266	2.90	0.809
Composite NOX:	0.369	0.634	0.738	0.660	1.403	0.170	0.370	3.329	1.07	0.877

* * * * *
* Rural minor arterial-Johnston County-OP Peak
* File 38, Run 1, Scenario 30.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.539	0.967	0.986	0.971	0.849	0.092	0.249	0.219	2.78	0.776
Composite NOX:	0.377	0.652	0.757	0.679	1.520	0.194	0.422	3.435	1.14	0.841

* #
* Rural major collector-Johnston County-OP Peak
* File 38, Run 1, Scenario 31.
* #
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.555	0.985	1.007	0.991	0.880	0.096	0.260	0.236	2.81	0.806
Composite NOX:	0.373	0.643	0.748	0.670	1.467	0.179	0.389	3.170	1.09	0.753

* #
* Rural minor collector-Johnston County-OP Peak
* File 38, Run 1, Scenario 32.
* #
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0

M615 Comment:

M583 Warning:

M 48 Warning:

M 48 Warning:

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

VMT Distribution:0.3161 0.4173 0.1422 0.0344 0.0003 0.0021 0.0824 0.0052 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.551	0.981	1.003	0.987	0.873	0.095	0.257	0.232	2.80	0.791
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite VOC:	0.551	0.581	1.005	0.587	0.675	0.655	0.257	0.252	2.100	0.751
Composite NOX:	0.374	0.645	0.750	0.671	1.477	0.181	0.393	3.206	1.10	0.815

* Rural major collector-Johnston County-Rural

* File 38, Run 1, Scenario 37.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

M 48 Warning:

M 48 Warning:

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

VMT Distribution:0.3258 0.4305 0.1468 0.0263 0.0003 0.0021 0.0628 0.0054 1.0000

```
* #####
* Rural minor collector-Johnston County-Rural
* File 38, Run 1, Scenario 38.
* #####
* Rural minor collector mix and speeds
* M615 Comment:
```

M583 Warning:

M 48 Warning:

M 48 Warning:

Composite Emission Factors (g/mi):

```
* #####
* Rural local-Johnston County-Rural
* File 38, Run 1, Scenario 39.
* #####
* Rural local mix and speeds
```

M583 Warning:

M 48 Warning:

M 48 Warning:

Reformulated Gas: No

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3284	0.4339	0.1479		0.0242	0.0003	0.0022	0.0577	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.628	1.072	1.107	1.081	1.042	0.119	0.322	0.336	3.15	0.898
Composite NOX:	0.387	0.650	0.758	0.677	1.307	0.172	0.375	3.049	1.00	0.735

* #

* Urban minor arterial-Johnston County-Rural

* File 38, Run 1, Scenario 42.

* #

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3368	0.4448	0.1516		0.0173	0.0003	0.0022	0.0414	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.602	1.039	1.069	1.047	0.983	0.111	0.300	0.301	3.02	0.874
Composite NOX:	0.374	0.637	0.743	0.664	1.350	0.169	0.367	2.999	1.03	0.676

* #

* Urban collector-Johnston County-Rural

* File 38, Run 1, Scenario 43.

* #

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.3396	0.4486	0.1529		0.0150	0.0003	0.0022	0.0358	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.621	1.063	1.097	1.072	1.025	0.117	0.316	0.327	3.12	0.901
Composite NOX:	0.383	0.645	0.753	0.673	1.316	0.171	0.372	3.024	1.01	0.669

* #

* Urban local-Johnston County-Rural

* File 38, Run 1, Scenario 44.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.3319	0.4383	0.1493		0.0214	0.0003	0.0022	0.0511	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.628	1.072	1.107	1.081	1.041	0.119	0.322	0.337	3.15	0.901
Composite NOX:	0.387	0.650	0.758	0.677	1.307	0.172	0.375	3.052	1.00	0.717

* #

* Rural principle arterial-Franklin County-AM Peak

* File 38, Run 1, Scenario 45.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor arterial-Franklin County-AM Peak
* File 38, Run 1, Scenario 46.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
```

```

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 50.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural major collector-Franklin County-AM Peak
* File 38, Run 1, Scenario 47.
* #####
* Rural major collector mix and speeds
M615 Comment:
```

```

M583 Warning:      User supplied VMT mix.
                  The user supplied arterial average speed of 45.0
                  will be used for all hours of the day. 100% of VMT
                  has been assigned to the arterial/collector roadway
                  type for all hours of the day and all vehicle types.
M 48 Warning:

```

there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.548	0.978	0.999	0.983	0.867	0.094	0.255	0.229	2.79	0.799
Composite NOX:	0.374	0.646	0.751	0.673	1.487	0.183	0.397	3.239	1.10	0.760

* * * * *
* Rural minor collector-Franklin County-AM Peak
* File 38, Run 1, Scenario 48.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.539	0.967	0.986	0.971	0.849	0.092	0.249	0.219	2.78	0.787
Composite NOX:	0.377	0.652	0.757	0.679	1.521	0.194	0.422	3.433	1.14	0.780

* * * * *
* Rural local-Franklin County-AM Peak
* File 38, Run 1, Scenario 49.
* * * * *
* Rural local mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.551	0.981	1.003	0.987	0.872	0.095	0.257	0.232	2.80	0.803
Composite NOX:	0.374	0.645	0.749	0.671	1.477	0.181	0.393	3.205	1.10	0.755

* * * * *
* Rural principle arterial-Franklin County-PM Peak
* File 38, Run 1, Scenario 50.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.548	0.978	0.999	0.983	0.867	0.094	0.255	0.228	2.79	0.776
Composite NOX:	0.374	0.646	0.751	0.673	1.487	0.183	0.397	3.555	1.10	0.913

* * * * *
* Rural minor arterial-Franklin County-PM Peak
* File 38, Run 1, Scenario 51.

5-1448
Appendix C.3
June 7, 2007

VTM Distribution:0.3261 0.4306 0.1468 0.0262 0.0003 0.0021 0.0625 0.0054 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.548 0.978 0.999 0.983 0.866 0.094 0.255 0.229 2.79 0.799
Composite NOX: 0.374 0.646 0.751 0.673 1.487 0.183 0.397 3.238 1.10 0.759

* * * * *
* Rural principle arterial-Franklin County-OP Peak
* File 38, Run 1, Scenario 55.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VTM Distribution:0.3058 0.4041 0.1377 0.0427 0.0003 0.0020 0.1023 0.0051 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.523 0.945 0.961 0.949 0.822 0.088 0.241 0.206 2.77 0.745
Composite NOX: 0.383 0.664 0.769 0.691 1.584 0.223 0.484 4.260 1.26 1.002

* * * * *
* Rural minor arterial-Franklin County-OP Peak
* File 38, Run 1, Scenario 56.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.525	0.949	0.965	0.953	0.825	0.089	0.242	0.208	2.77	0.760
Composite NOX:	0.382	0.662	0.767	0.689	1.574	0.218	0.473	3.851	1.24	0.885

* #

* Rural major collector-Franklin County-OP Peak

* File 38, Run 1, Scenario 57.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 41.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.562	0.992	1.016	0.998	0.894	0.098	0.265	0.245	2.83	0.814
Composite NOX:	0.371	0.639	0.744	0.666	1.445	0.175	0.380	3.095	1.09	0.744

* #

* Rural minor collector-Franklin County-OP Peak

* File 38, Run 1, Scenario 58.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

```

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.539	0.967	0.986	0.971	0.849	0.092	0.249	0.219	2.78	0.787
Composite NOX:	0.377	0.652	0.757	0.679	1.521	0.194	0.422	3.433	1.14	0.780

* #

* Rural local-Franklin County-OP Peak

* File 38, Run 1, Scenario 59.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.548	0.978	0.999	0.983	0.866	0.094	0.255	0.229	2.79	0.799
Composite NOX:	0.374	0.646	0.751	0.673	1.487	0.183	0.397	3.238	1.10	0.759

* #

* Rural principle arterial-Franklin County-Rural

* File 38, Run 1, Scenario 60.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3058	0.4041	0.1377		0.0427	0.0003	0.0020	0.1023	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.555	0.985	1.007	0.991	0.880	0.096	0.260	0.236	2.81	0.783
Composite NOX:	0.373	0.643	0.748	0.670	1.467	0.179	0.389	3.487	1.09	0.902

* #

* Rural minor arterial-Franklin County-Rural

* File 38, Run 1, Scenario 61.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0344	0.0003	0.0021	0.0824	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.555	0.985	1.007	0.991	0.879	0.096	0.260	0.236	2.81	0.794
Composite NOX:	0.373	0.643	0.748	0.670	1.467	0.179	0.389	3.171	1.09	0.811

* #

* Rural major collector-Franklin County-Rural

* File 38, Run 1, Scenario 62.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

there are no sales for vehicle class LDPT12

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3258	0.4305	0.1468		0.0263	0.0003	0.0021	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.558	0.989	1.011	0.994	0.887	0.097	0.262	0.241	2.82	0.810
Composite NOX:	0.372	0.641	0.746	0.668	1.457	0.177	0.385	3.134	1.09	0.749

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVMR:	<6000	>6000	(All)							
VMT Distribution:	0.3256	0.4298	0.1465		0.0266	0.0003	0.0021	0.0637	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.558	0.989	1.011	0.994	0.886	0.097	0.262	0.241	2.82	0.809
Composite NOX:	0.372	0.641	0.746	0.668	1.456	0.177	0.385	3.132	1.09	0.751

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.558	0.989	1.011	0.994	0.886	0.097	0.262	0.241	2.82	0.810
Composite NOX:	0.372	0.641	0.746	0.668	1.456	0.177	0.385	3.133	1.09	0.748

* * * * *
 * Urban principle arterial-Franklin County-Rural
 * File 38, Run 1, Scenario 65.
 * * * * *
 * Urban principle arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 27.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3284	0.4339	0.1479		0.0242	0.0003	0.0022	0.0577	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.636	1.081	1.117	1.090	1.059	0.122	0.329	0.347	3.19	0.907
Composite NOX:	0.391	0.654	0.763	0.682	1.296	0.174	0.378	3.075	0.99	0.740

* * * * *
 * Urban minor arterial-Franklin County-Rural
 * File 38, Run 1, Scenario 66.
 * * * * *
 * Urban minor arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

June 7, 2007

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3261	0.4306	0.1468		0.0262	0.0003	0.0021	0.0625	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.558	0.989	1.011	0.994	0.886	0.097	0.262	0.241	2.82	0.810
Composite NOX:	0.372	0.641	0.746	0.668	1.456	0.177	0.385	3.133	1.09	0.748

```

User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 27.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3284	0.4339	0.1479		0.0242	0.0003	0.0022	0.0577	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.636	1.081	1.117	1.090	1.059	0.122	0.329	0.347	3.19	0.907
Composite NOX:	0.391	0.654	0.763	0.682	1.296	0.174	0.378	3.075	0.99	0.744

```

M583 Warning:
    The user supplied arterial average speed of 31.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Urban collector-Person County
* File 38, Run 1, Scenario 76.
* #####
* Urban collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 31.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Urban local-Person County
* File 38, Run 1, Scenario 77.
* #####
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 30.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```

Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3319	0.4383	0.1493		0.0214	0.0003	0.0022	0.0511	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.615	1.055	1.088	1.064	1.010	0.115	0.310	0.318	3.09	0.885
Composite NOX:	0.379	0.641	0.748	0.668	1.326	0.170	0.369	3.006	1.02	0.707

there are no sales for vehicle class LDDT12

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
there are no sales for vehicle class LDPT12
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

5-1464
Appendix C.3
June 7, 2007

Composite Emission Factors (g/mi):
 Composite VOC: 0.344 0.642 0.703 0.657 0.689 0.068 0.222 0.199 2.71 0.544
 Composite NOX: 0.197 0.377 0.500 0.408 1.076 0.105 0.332 2.267 1.13 0.482

* * * * *
 * Rural minor collector-Chatham County-AM Peak
 * File 39, Run 1, Scenario 4.
 * * * * *
 * Rural minor collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.348 0.646 0.708 0.662 0.699 0.069 0.225 0.205 2.72 0.548
 Composite NOX: 0.196 0.374 0.496 0.405 1.059 0.101 0.319 2.176 1.10 0.475

* * * * *
 * Rural local-Chatham County-AM Peak
 * File 39, Run 1, Scenario 5.
 * * * * *
 * Rural local mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.351	0.648	0.710	0.664	0.704	0.070	0.227	0.208	2.73	0.550
Composite NOX:	0.195	0.373	0.495	0.404	1.052	0.100	0.316	2.153	1.10	0.470

* * * * *

* Rural principle arterial-Chatham County-PM Peak

* File 39, Run 1, Scenario 6.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:

 User supplied VMT mix.

M581 Warning:

 The user supplied freeway average speed of 56.0

 will be used for all hours of the day. 100% of VMT

 has been assigned to the freeway roadway type for

 all hours of the day and all vehicle types.

M 48 Warning:

 there are no sales for vehicle class HDGV8b

M 48 Warning:

 there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.332	0.627	0.681	0.641	0.656	0.065	0.212	0.183	2.77	0.516
Composite NOX:	0.203	0.389	0.514	0.421	1.144	0.131	0.412	3.099	1.31	0.668

* * * * *

* Rural minor arterial-Chatham County-PM Peak

* File 39, Run 1, Scenario 7.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

 User supplied VMT mix.

M583 Warning:

 The user supplied arterial average speed of 48.0

 will be used for all hours of the day. 100% of VMT

 has been assigned to the arterial/collector roadway

 type for all hours of the day and all vehicle types.

M 48 Warning:

 there are no sales for vehicle class HDGV8b

M 48 Warning:

 there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.343	0.640	0.700	0.655	0.685	0.067	0.221	0.197	2.71	0.535
Composite NOX:	0.198	0.378	0.501	0.409	1.083	0.107	0.338	2.307	1.14	0.530

* #

* Rural major collector-Chatham County-PM Peak

* File 39, Run 1, Scenario 8.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.343	0.640	0.700	0.655	0.684	0.067	0.221	0.197	2.71	0.542
Composite NOX:	0.198	0.378	0.501	0.409	1.083	0.107	0.338	2.308	1.14	0.485

* #

* Rural minor collector-Chatham County-PM Peak

* File 39, Run 1, Scenario 9.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.348	0.646	0.708	0.662	0.699	0.069	0.225	0.205	2.72	0.548
Composite NOX:	0.196	0.374	0.496	0.405	1.059	0.101	0.319	2.176	1.10	0.479

```

* #####
* Rural local-Chatham County-PM Peak
* File 39, Run 1, Scenario 10.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 41.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTMT Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.357	0.653	0.718	0.670	0.721	0.072	0.234	0.220	2.76	0.557
Composite NOX:	0.194	0.369	0.491	0.400	1.029	0.097	0.305	2.081	1.09	0.462

```
* #####
* Rural principle arterial-Chatham County-OP Peak
* File 39, Run 1, Scenario 11.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 57.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July

Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.331	0.626	0.679	0.640	0.654	0.064	0.212	0.182	2.84	0.515
Composite NOX:	0.204	0.390	0.515	0.422	1.152	0.135	0.426	3.195	1.33	0.679

* * * * *
 * Rural minor arterial-Chatham County-OP Peak
 * File 39, Run 1, Scenario 12.
 * * * * *
 * Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.341	0.639	0.698	0.654	0.680	0.067	0.219	0.194	2.70	0.533
Composite NOX:	0.198	0.379	0.502	0.411	1.090	0.109	0.344	2.346	1.15	0.535

* * * * *
 * Rural major collector-Chatham County-OP Peak
 * File 39, Run 1, Scenario 13.
 * * * * *
 * Rural major collector mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 48.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.343	0.640	0.700	0.655	0.684	0.067	0.221	0.197	2.71	0.542
Composite NOX:	0.198	0.378	0.501	0.409	1.083	0.107	0.338	2.308	1.14	0.485

* #
* Rural minor collector-Chatham County-OP Peak
* File 39, Run 1, Scenario 14.
* #
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.348	0.646	0.708	0.662	0.699	0.069	0.225	0.205	2.72	0.548
Composite NOX:	0.196	0.374	0.496	0.405	1.059	0.101	0.319	2.176	1.10	0.475

* #
* Rural local-Chatham County-OP Peak
* File 39, Run 1, Scenario 15.
* #
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0

M615 Comment:

M583 Warning:

The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```
there are no sales for vehicle class HDGV8b
```

```
there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.362	0.658	0.723	0.674	0.735	0.074	0.239	0.229	2.79	0.563
Composite NOX:	0.193	0.366	0.488	0.397	1.014	0.095	0.300	2.049	1.08	0.458

M615 Comment:

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

```
there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.3048	0.4452	0.1518	0.0266	0.0003	0.0022	0.0638	0.0053	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------


```

* #####
* Rural local-Johnston County-AM Peak
* File 39, Run 1, Scenario 21.
* #####
* Rural local mix and speeds
* M615 Comment:

```

M583 Warning:

M 48 Warning:

M 48 Warning:

Composite Emission Factors (g/mi):

* #

M615 Comment:

M581 Warning:

M 48 Warning:

M 48 Warning:

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2287	0.3339	0.1138		0.0933	0.0002	0.0017	0.2244	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.327	0.620	0.671	0.633	0.645	0.064	0.211	0.180	3.18	0.472
Composite NOX:	0.207	0.397	0.524	0.429	1.190	0.162	0.509	3.749	1.45	1.199

* * * * *

* Rural principle arterial-Johnston County-PM Peak

* File 39, Run 1, Scenario 23.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.373	0.667	0.736	0.685	0.766	0.078	0.252	0.250	2.87	0.564
Composite NOX:	0.191	0.363	0.484	0.393	0.983	0.093	0.294	2.304	1.06	0.559

* * * * *

* Rural minor arterial-Johnston County-PM Peak

* File 39, Run 1, Scenario 24.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural local-Johnston County-PM Peak
* File 39, Run 1, Scenario 27.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 37.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural interstate-Johnston County-OP Peak
* File 39, Run 1, Scenario 28.
* #####
* Rural interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M 96 Warning:
    66.0      speed reduced to 65 mph maximum
M581 Warning:
    The user supplied freeway average speed of 65.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```


type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.343	0.640	0.700	0.655	0.685	0.067	0.221	0.197	2.71	0.535
Composite NOX:	0.198	0.378	0.501	0.409	1.083	0.107	0.338	2.307	1.14	0.530

* * * * *
* Rural major collector-Johnston County-OP Peak
* File 39, Run 1, Scenario 31.
* * * * *
* Rural major collector mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.353	0.650	0.713	0.666	0.710	0.070	0.230	0.212	2.74	0.553
Composite NOX:	0.195	0.371	0.494	0.402	1.045	0.099	0.312	2.134	1.09	0.468

* * * * *
* Rural minor collector-Johnston County-OP Peak
* File 39, Run 1, Scenario 32.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.351	0.648	0.710	0.664	0.704	0.070	0.227	0.208	2.73	0.550
Composite NOX:	0.195	0.373	0.495	0.404	1.052	0.100	0.316	2.154	1.10	0.473

* * * * *

* Rural local-Johnston County-OP Peak

* File 39, Run 1, Scenario 33.

* * * * *

* Rural local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.360	0.656	0.721	0.672	0.728	0.073	0.236	0.224	2.78	0.560
Composite NOX:	0.193	0.367	0.489	0.398	1.021	0.095	0.301	2.054	1.08	0.459

* * * * *

Composite VOC:	0.353	0.650	0.713	0.666	0.710	0.070	0.230	0.212	2.74	0.541
Composite NOX:	0.195	0.371	0.494	0.402	1.045	0.099	0.312	2.429	1.09	0.581

* * * * *

* Rural minor arterial-Johnston County-Rural

* File 39, Run 1, Scenario 36.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.353	0.650	0.713	0.666	0.710	0.070	0.230	0.212	2.74	0.546
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Composite NOX:	0.195	0.371	0.494	0.402	1.045	0.099	0.312	2.132	1.09	0.509
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* * * * *

* Rural major collector-Johnston County-Rural

* File 39, Run 1, Scenario 37.

* * * * *

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
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Mobile Source Inventory

Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone

Redesignation Demonstration and Maintenance Plan

5-1482

Appendix C.3

June 7, 2007

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.355	0.651	0.715	0.668	0.715	0.071	0.232	0.216	2.75	0.555
Composite NOX:	0.194	0.370	0.492	0.401	1.037	0.098	0.309	2.106	1.09	0.465

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2742	0.4007	0.1367		0.0533	0.0002	0.0020	0.1281	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.327	0.620	0.671	0.633	0.646	0.064	0.211	0.180	3.18	0.503
Composite NOx:	0.207	0.397	0.524	0.429	1.190	0.162	0.509	3.750	1.45	0.833

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3076	0.4494	0.1532		0.0240	0.0003	0.0023	0.0579	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.401	0.698	0.775	0.718	0.845	0.088	0.282	0.302	3.08	0.611
Composite NOX:	0.203	0.374	0.499	0.406	0.931	0.095	0.301	2.053	1.00	0.454

* * * * *
* Urban minor arterial-Johnston County-Rural
* File 39, Run 1, Scenario 42.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3153	0.4607	0.1571		0.0173	0.0003	0.0023	0.0415	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.384	0.679	0.751	0.697	0.797	0.082	0.263	0.269	2.95	0.594
Composite NOX:	0.195	0.366	0.489	0.397	0.962	0.093	0.295	2.017	1.03	0.414

* * * * *
* Urban collector-Johnston County-Rural
* File 39, Run 1, Scenario 43.
* * * * *
* Urban collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Urban local-Johnston County-Rural
* File 39, Run 1, Scenario 44.
* #####
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 27.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural principle arterial-Franklin County-AM Peak
* File 39, Run 1, Scenario 45.
* #####
* Rural other principle arterial mix and speeds
  M615 Comment:
      User supplied VMT mix.
M581 Warning:
      The user supplied freeway average speed of 48.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
```

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.343	0.640	0.700	0.655	0.684	0.067	0.221	0.197	2.71	0.529
Composite NOX:	0.198	0.378	0.501	0.409	1.083	0.107	0.338	2.604	1.14	0.605

* #
* Rural minor arterial-Franklin County-AM Peak
* File 39, Run 1, Scenario 46.
* #
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 50.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.339	0.637	0.695	0.652	0.676	0.066	0.218	0.192	2.70	0.531
Composite NOX:	0.199	0.380	0.504	0.412	1.097	0.111	0.350	2.384	1.16	0.539

* #
* Rural major collector-Franklin County-AM Peak
* File 39, Run 1, Scenario 47.
* #
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT

M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.351	0.648	0.710	0.664	0.704	0.070	0.227	0.208	2.73	0.550
Composite NOX:	0.195	0.373	0.495	0.404	1.052	0.100	0.316	2.153	1.10	0.470

* * * * *

* Rural principle arterial-Franklin County-PM Peak

* File 39, Run 1, Scenario 50.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.348	0.646	0.708	0.662	0.699	0.069	0.225	0.205	2.72	0.536
Composite NOX:	0.196	0.374	0.496	0.405	1.059	0.101	0.319	2.474	1.10	0.588

there are no sales for vehicle class LDDT12

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
there are no sales for vehicle class LDPT12
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

5-1490
Appendix C.3
June 7, 2007

Composite Emission Factors (g/mi):
 Composite VOC: 0.353 0.650 0.713 0.666 0.710 0.070 0.230 0.212 2.74 0.553
 Composite NOX: 0.195 0.371 0.494 0.402 1.045 0.099 0.312 2.134 1.09 0.468

* * * * *
 * Rural minor collector-Franklin County-PM Peak
 * File 39, Run 1, Scenario 53.
 * * * * *
 * Rural minor collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 48.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.343 0.640 0.700 0.655 0.685 0.067 0.221 0.197 2.71 0.541
 Composite NOX: 0.198 0.378 0.501 0.409 1.083 0.107 0.338 2.306 1.14 0.487

* * * * *
 * Rural local-Franklin County-PM Peak
 * File 39, Run 1, Scenario 54.
 * * * * *
 * Rural local mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.348	0.646	0.708	0.662	0.699	0.069	0.225	0.205	2.72	0.548
Composite NOX:	0.196	0.374	0.496	0.405	1.059	0.101	0.319	2.175	1.10	0.472

* * * * *

* Rural principle arterial-Franklin County-OP Peak

* File 39, Run 1, Scenario 55.

* * * * *

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.334	0.630	0.686	0.644	0.662	0.065	0.214	0.185	2.70	0.518
Composite NOX:	0.202	0.386	0.510	0.418	1.129	0.123	0.388	2.940	1.26	0.648

* * * * *

* Rural minor arterial-Franklin County-OP Peak

* File 39, Run 1, Scenario 56.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.335	0.632	0.688	0.646	0.665	0.065	0.215	0.187	2.70	0.526
Composite NOX:	0.201	0.385	0.509	0.416	1.121	0.120	0.379	2.582	1.24	0.560

* #

* Rural major collector-Franklin County-OP Peak

* File 39, Run 1, Scenario 57.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.357	0.653	0.718	0.670	0.722	0.072	0.234	0.220	2.76	0.557
Composite NOX:	0.194	0.369	0.491	0.400	1.030	0.097	0.305	2.084	1.09	0.463

* #

* Rural minor collector-Franklin County-OP Peak

* File 39, Run 1, Scenario 58.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.343	0.640	0.700	0.655	0.685	0.067	0.221	0.197	2.71	0.541
Composite NOX:	0.198	0.378	0.501	0.409	1.083	0.107	0.338	2.306	1.14	0.487

```

* #####
* Rural local-Franklin County-OP Peak
* File 39, Run 1, Scenario 59.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 45.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.348	0.646	0.708	0.662	0.699	0.069	0.225	0.205	2.72	0.548
Composite NOX:	0.196	0.374	0.496	0.405	1.059	0.101	0.319	2.175	1.10	0.472

```
* #####  
* Rural principle arterial-Franklin County-Rural  
* File 39, Run 1, Scenario 60.  
* #####  
* Rural other principle arterial mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
M581 Warning:  
    The user supplied freeway average speed of 45.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the freeway roadway type for  
    all hours of the day and all vehicle types.  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b  
M 48 Warning:  
    there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor arterial-Franklin County-Rural
* File 39, Run 1, Scenario 61.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDdT12
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural major collector-Franklin County-Rural
* File 39, Run 1, Scenario 62.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.355	0.651	0.715	0.668	0.715	0.071	0.232	0.216	2.75	0.555
Composite NOX:	0.194	0.370	0.492	0.401	1.038	0.098	0.309	2.110	1.09	0.465

* #
* Rural minor collector-Franklin County-Rural
* File 39, Run 1, Scenario 63.
* #
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.355	0.651	0.715	0.668	0.716	0.071	0.232	0.216	2.75	0.555
Composite NOX:	0.194	0.370	0.492	0.401	1.038	0.098	0.309	2.107	1.09	0.467

* #
* Rural local-Franklin County-Rural
* File 39, Run 1, Scenario 64.
* #
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0


```
* Urban local-Franklin County-Rural
* File 39, Run 1, Scenario 68.
* #####
```

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```
M 48 Warning:
      there are no sales for vehicle class HDGV8b
```

```
M 48 Warning:
      there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3106	0.4539	0.1548		0.0213	0.0003	0.0023	0.0514	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.392	0.688	0.763	0.707	0.818	0.085	0.272	0.285	3.02	0.601
Composite NOX:	0.198	0.369	0.492	0.401	0.945	0.094	0.296	2.024	1.02	0.433

VTM Distribution:0.3055 0.4460 0.1521 0.0260 0.0003 0.0022 0.0626 0.0053 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.449 0.801 0.853 0.814 0.704 0.070 0.227 0.208 2.73 0.670
Composite NOX: 0.300 0.538 0.648 0.566 1.052 0.100 0.316 2.153 1.10 0.599

* * * * *
* Rural principle arterial-Chatham County-PM Peak
* File 40, Run 1, Scenario 6.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VTM Distribution:0.2865 0.4185 0.1427 0.0425 0.0003 0.0021 0.1024 0.0050 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.421 0.767 0.811 0.778 0.656 0.065 0.212 0.183 2.77 0.618
Composite NOX: 0.308 0.557 0.669 0.586 1.144 0.131 0.412 3.099 1.31 0.790

* * * * *
* Rural minor arterial-Chatham County-PM Peak
* File 40, Run 1, Scenario 7.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.419	0.765	0.808	0.776	0.654	0.064	0.212	0.182	2.84	0.616
Composite NOX:	0.309	0.559	0.671	0.588	1.152	0.135	0.426	3.195	1.33	0.802

```
M583 Warning:
    The user supplied arterial average speed of 49.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.435	0.786	0.835	0.798	0.680	0.067	0.219	0.194	2.70	0.645
Composite NOX:	0.303	0.546	0.656	0.574	1.090	0.109	0.344	2.346	1.15	0.660

```

M583 Warning:
    The user supplied arterial average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.438	0.789	0.838	0.801	0.684	0.067	0.221	0.197	2.71	0.658
Composite NOX:	0.303	0.544	0.655	0.572	1.083	0.107	0.338	2.308	1.14	0.615

* #
 * Rural minor collector-Chatham County-OP Peak
 * File 40, Run 1, Scenario 14.
 * #
 * Rural minor collector mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.446	0.798	0.849	0.811	0.699	0.069	0.225	0.205	2.72	0.667
Composite NOX:	0.301	0.539	0.650	0.567	1.059	0.101	0.319	2.176	1.10	0.604

* #
 * Rural local-Chatham County-OP Peak
 * File 40, Run 1, Scenario 15.
 * #
 * Rural local mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.446	0.798	0.849	0.811	0.699	0.069	0.225	0.205	2.72	0.667
Composite NOX:	0.301	0.539	0.650	0.567	1.059	0.101	0.319	2.175	1.10	0.601

* * * * *
 * Rural interstate-Johnston County-AM Peak
 * File 40, Run 1, Scenario 16.
 * * * * *
 * Rural interstate mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 64.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2287	0.3339	0.1138		0.0933	0.0002	0.0017	0.2244	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.409	0.750	0.789	0.760	0.643	0.064	0.211	0.180	3.32	0.548
Composite NOX:	0.315	0.571	0.685	0.600	1.205	0.174	0.549	4.017	1.50	1.361

* * * * *
 * Rural principle arterial-Johnston County-AM Peak
 * File 40, Run 1, Scenario 17.
 * * * * *
 * Rural other principle arterial mix and speeds
 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:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.470	0.823	0.879	0.837	0.750	0.076	0.245	0.239	2.83	0.675
Composite NOx:	0.297	0.529	0.639	0.557	0.999	0.094	0.297	2.325	1.07	0.684

```

* #####
* Rural minor arterial-Johnston County-AM Peak
* File 40, Run 1, Scenario 18.
* #####
* Rural minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.

```

M583 Warning: The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.464	0.816	0.871	0.830	0.735	0.074	0.239	0.228	2.79	0.677
Composite NOX:	0.297	0.531	0.641	0.559	1.014	0.095	0.300	2.047	1.08	0.622

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector-Johnston County-AM Peak
```

* File 40, Run 1, Scenario 19.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.464	0.816	0.871	0.830	0.735	0.074	0.239	0.229	2.79	0.687
Composite NOX:	0.297	0.531	0.641	0.559	1.014	0.095	0.300	2.049	1.08	0.587

* #

* Rural minor collector-Johnston County-AM Peak

* File 40, Run 1, Scenario 20.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.806	0.860	0.820	0.716	0.071	0.232	0.216	2.75	0.676

ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.470	0.823	0.879	0.837	0.750	0.076	0.245	0.238	2.83	0.685
Composite NOX:	0.297	0.529	0.639	0.557	0.999	0.094	0.297	2.028	1.07	0.618

* * * * *
* Rural major collector-Johnston County-PM Peak
* File 40, Run 1, Scenario 25.
* * * * *
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.467	0.819	0.875	0.833	0.742	0.075	0.242	0.234	2.81	0.690
Composite NOX:	0.297	0.530	0.640	0.558	1.007	0.094	0.298	2.039	1.07	0.585

* * * * *
* Rural minor collector-Johnston County-PM Peak
* File 40, Run 1, Scenario 26.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural local-Johnston County-PM Peak
* File 40, Run 1, Scenario 27.
* #####
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 37.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDdT12

```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural interstate-Johnston County-OP Peak
* File 40, Run 1, Scenario 28.
* #####
* Rural interstate mix and speeds
M615 Comment:
      User supplied VMT mix.
M 96 Warning:
      66.0      speed reduced to 65 mph maximum
M581 Warning:
      The user supplied freeway average speed of 65.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
      there are no sales for vehicle class LDDT12
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2287	0.3339	0.1138		0.0933	0.0002	0.0017	0.2244	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.408	0.748	0.787	0.758	0.642	0.064	0.211	0.180	3.38	0.547
Composite NOX:	0.315	0.573	0.686	0.601	1.212	0.180	0.568	4.145	1.52	1.392

* * * * *
 * Rural principle arterial-Johnston County-OP Peak
 * File 40, Run 1, Scenario 29.
 * * * * *
 * Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 37.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.470	0.823	0.879	0.837	0.750	0.076	0.245	0.239	2.83	0.675
Composite NOX:	0.297	0.529	0.639	0.557	0.999	0.094	0.297	2.325	1.07	0.684

* * * * *
 * Rural minor arterial-Johnston County-OP Peak
 * File 40, Run 1, Scenario 30.
 * * * * *
 * Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 48.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.438	0.789	0.838	0.801	0.685	0.067	0.221	0.197	2.71	0.648
Composite NOX:	0.303	0.544	0.655	0.572	1.083	0.107	0.338	2.307	1.14	0.656

* * * * *
* Rural major collector-Johnston County-OP Peak
* File 40, Run 1, Scenario 31.
* * * * *
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.451	0.803	0.856	0.817	0.710	0.070	0.230	0.212	2.74	0.673
Composite NOX:	0.299	0.537	0.647	0.565	1.045	0.099	0.312	2.134	1.09	0.597

* * * * *
* Rural minor collector-Johnston County-OP Peak
* File 40, Run 1, Scenario 32.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3076	0.4494	0.1532		0.0240	0.0003	0.0023	0.0579	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.515	0.875	0.941	0.892	0.845	0.088	0.282	0.302	3.08	0.750
Composite NOX:	0.311	0.542	0.656	0.571	0.931	0.095	0.301	2.053	1.00	0.587

* #

* Urban minor arterial-Johnston County-Rural

* File 40, Run 1, Scenario 42.

* #

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3153	0.4607	0.1571		0.0173	0.0003	0.0023	0.0415	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.492	0.847	0.909	0.863	0.797	0.082	0.263	0.269	2.95	0.730
Composite NOX:	0.301	0.531	0.642	0.560	0.962	0.093	0.295	2.017	1.03	0.548

* #

* Urban collector-Johnston County-Rural

* File 40, Run 1, Scenario 43.

* #

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Urban local-Johnston County-Rural
* File 40, Run 1, Scenario 44.
* #####
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 27.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural principle arterial-Franklin County-AM Peak
* File 40, Run 1, Scenario 45.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 48.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.438	0.789	0.838	0.801	0.684	0.067	0.221	0.197	2.71	0.638
Composite NOX:	0.303	0.544	0.655	0.572	1.083	0.107	0.338	2.604	1.14	0.727

* #
 * Rural minor arterial-Franklin County-AM Peak
 * File 40, Run 1, Scenario 46.
 * #
 * Rural minor arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 50.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.433	0.783	0.831	0.796	0.676	0.066	0.218	0.192	2.70	0.642
Composite NOX:	0.304	0.547	0.658	0.575	1.097	0.111	0.350	2.384	1.16	0.665

* #
 * Rural major collector-Franklin County-AM Peak
 * File 40, Run 1, Scenario 47.
 * #
 * Rural major collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.446	0.798	0.849	0.811	0.699	0.069	0.225	0.205	2.72	0.667
Composite NOX:	0.301	0.539	0.650	0.567	1.060	0.101	0.319	2.179	1.10	0.602

* * * * *
* Rural minor collector-Franklin County-AM Peak
* File 40, Run 1, Scenario 48.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.438	0.789	0.838	0.801	0.685	0.067	0.221	0.197	2.71	0.657
Composite NOX:	0.303	0.544	0.655	0.572	1.083	0.107	0.338	2.306	1.14	0.617

* * * * *
* Rural local-Franklin County-AM Peak
* File 40, Run 1, Scenario 49.
* * * * *
* Rural local mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.449	0.801	0.853	0.814	0.704	0.070	0.227	0.208	2.73	0.670
Composite NOX:	0.300	0.538	0.648	0.566	1.052	0.100	0.316	2.153	1.10	0.599

* * * * *
* Rural principle arterial-Franklin County-PM Peak
* File 40, Run 1, Scenario 50.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.446	0.798	0.849	0.811	0.699	0.069	0.225	0.205	2.72	0.648
Composite NOX:	0.301	0.539	0.650	0.567	1.059	0.101	0.319	2.474	1.10	0.709

* * * * *
* Rural minor arterial-Franklin County-PM Peak
* File 40, Run 1, Scenario 51.

 * #
 * Rural minor collector-Franklin County-PM Peak
 * File 40, Run 1, Scenario 53.
 * #
 * Rural minor collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 48.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.438	0.789	0.838	0.801	0.685	0.067	0.221	0.197	2.71	0.657
Composite NOX:	0.303	0.544	0.655	0.572	1.083	0.107	0.338	2.306	1.14	0.617

 * #
 * Rural local-Franklin County-PM Peak
 * File 40, Run 1, Scenario 54.
 * #
 * Rural local mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:0.3055 0.4460 0.1521 0.0260 0.0003 0.0022 0.0626 0.0053 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.446 0.798 0.849 0.811 0.699 0.069 0.225 0.205 2.72 0.667
Composite NOX: 0.301 0.539 0.650 0.567 1.059 0.101 0.319 2.175 1.10 0.601

* * * * *
* Rural principle arterial-Franklin County-OP Peak
* File 40, Run 1, Scenario 55.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VTM Distribution:0.2865 0.4185 0.1427 0.0425 0.0003 0.0021 0.1024 0.0050 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.424 0.772 0.817 0.783 0.662 0.065 0.214 0.185 2.70 0.622
Composite NOX: 0.307 0.554 0.665 0.582 1.129 0.123 0.388 2.940 1.26 0.771

* * * * *
* Rural minor arterial-Franklin County-OP Peak
* File 40, Run 1, Scenario 56.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.426	0.775	0.820	0.786	0.665	0.065	0.215	0.187	2.70	0.634
Composite NOX:	0.306	0.552	0.664	0.581	1.121	0.120	0.379	2.582	1.24	0.686

* #

* Rural major collector-Franklin County-OP Peak

* File 40, Run 1, Scenario 57.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.457	0.809	0.863	0.823	0.722	0.072	0.234	0.220	2.76	0.680
Composite NOX:	0.298	0.533	0.643	0.561	1.030	0.097	0.305	2.084	1.09	0.591

* #

* Rural minor collector-Franklin County-OP Peak

* File 40, Run 1, Scenario 58.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.438	0.789	0.838	0.801	0.685	0.067	0.221	0.197	2.71	0.657
Composite NOX:	0.303	0.544	0.655	0.572	1.083	0.107	0.338	2.306	1.14	0.617

* #

* Rural local-Franklin County-OP Peak

* File 40, Run 1, Scenario 59.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.446	0.798	0.849	0.811	0.699	0.069	0.225	0.205	2.72	0.667
Composite NOX:	0.301	0.539	0.650	0.567	1.059	0.101	0.319	2.175	1.10	0.601

* #

* Rural principle arterial-Franklin County-Rural

* File 40, Run 1, Scenario 60.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2865	0.4185	0.1427		0.0425	0.0003	0.0021	0.1024	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.446	0.798	0.849	0.811	0.699	0.069	0.225	0.205	2.72	0.648
Composite NOX:	0.301	0.539	0.650	0.567	1.059	0.101	0.319	2.474	1.10	0.709

* #

* Rural minor arterial-Franklin County-Rural

* File 40, Run 1, Scenario 61.

* #

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MT Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.451	0.803	0.856	0.817	0.710	0.070	0.230	0.212	2.74	0.663
Composite NOX:	0.299	0.537	0.647	0.565	1.045	0.099	0.312	2.132	1.09	0.634

* #

* Rural major collector-Franklin County-Rural

* File 40, Run 1, Scenario 62.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

there are no sales for vehicle class LDPT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1521		0.0261	0.0003	0.0022	0.0629	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.806	0.860	0.820	0.715	0.071	0.232	0.216	2.75	0.676
Composite NOX:	0.299	0.535	0.645	0.563	1.038	0.098	0.309	2.110	1.09	0.594

* #
 * Rural minor collector-Franklin County-Rural
 * File 40, Run 1, Scenario 63.
 * #
 * Rural minor collector mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3048	0.4452	0.1518		0.0266	0.0003	0.0022	0.0638	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.806	0.860	0.820	0.716	0.071	0.232	0.216	2.75	0.676
Composite NOX:	0.299	0.535	0.645	0.563	1.038	0.098	0.309	2.107	1.09	0.596

* #
 * Rural local-Franklin County-Rural
 * File 40, Run 1, Scenario 64.
 * #
 * Rural local mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.806	0.860	0.820	0.715	0.071	0.232	0.216	2.75	0.676
Composite NOX:	0.299	0.535	0.645	0.563	1.037	0.098	0.309	2.106	1.09	0.593

* * * * *
 * Urban principle arterial-Franklin County-Rural
 * File 40, Run 1, Scenario 65.
 * * * * *
 * Urban principle arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 27.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3076	0.4494	0.1532		0.0240	0.0003	0.0023	0.0579	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.522	0.882	0.950	0.900	0.859	0.090	0.288	0.311	3.12	0.758
Composite NOX:	0.315	0.546	0.660	0.575	0.923	0.096	0.303	2.070	0.99	0.592

* * * * *
 * Urban minor arterial-Franklin County-Rural
 * File 40, Run 1, Scenario 66.
 * * * * *
 * Urban minor arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

Composite NOx: 0.301 0.539 0.650 0.567 1.059 0.101 0.319 2.474 1.10 0.709

```
* #####
* Rural minor arterial-Person County
* File 40, Run 1, Scenario 70.
* #####
* Rural minor arterial mix and speeds
```

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDPT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
MT Distribution:	0.2960	0.4322	0.1473		0.0343	0.0003	0.0022	0.0826	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.451	0.803	0.856	0.817	0.710	0.070	0.230	0.212	2.74	0.663
Composite NOX:	0.299	0.537	0.647	0.565	1.045	0.099	0.312	2.132	1.09	0.634

```
* #####
* Rural major collector-Person County
* File 40, Run 1, Scenario 71.
* #####
* Rural major collector mix and speeds
```

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3055	0.4460	0.1521		0.0260	0.0003	0.0022	0.0626	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.806	0.860	0.820	0.715	0.071	0.232	0.216	2.75	0.676
Composite NOX:	0.299	0.535	0.645	0.563	1.037	0.098	0.309	2.106	1.09	0.593

```

User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 27.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3076	0.4494	0.1532		0.0240	0.0003	0.0023	0.0579	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.522	0.882	0.950	0.900	0.859	0.090	0.288	0.311	3.12	0.758
Composite NOX:	0.315	0.546	0.660	0.575	0.923	0.096	0.303	2.070	0.99	0.592

```

M583 Warning:
    The user supplied arterial average speed of 31.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

```


Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3106	0.4539	0.1548		0.0213	0.0003	0.0023	0.0514	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.504	0.861	0.925	0.877	0.818	0.085	0.272	0.285	3.02	0.739
Composite NOX:	0.305	0.535	0.647	0.564	0.945	0.094	0.296	2.024	1.02	0.568

Calendar Year: 2005										
Month: July										
Altitude: Low										
Minimum Temperature: 73.0 (F)										
Maximum Temperature: 89.0 (F)										
Minimum Rel. Hum.: 49.0 (%)										
Maximum Rel. Hum.: 96.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.6 psi										
Fuel Sulfur Content: 92. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.757	1.111	0.973	1.076	1.056	0.463	0.585	0.300	3.59	0.805
Composite NOX:	0.696	0.956	1.040	0.977	4.629	2.077	1.987	17.666	1.52	4.974


```
M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 42.0
                    will be used for all hours of the day.  100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b
```

```

M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Granville County-Rural
* File 1, Run 1, Scenario 5.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

```

M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory 5-1544
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone Appendix C.3
Redesignation Demonstration and Maintenance Plan June 7, 2007

Composite NOX: 0.689 0.945 1.029 0.967 4.544 1.862 1.782 16.002 1.45 2.978

* * * * *

* Urban principle arterial-Granville County-Rural

* File 1, Run 1, Scenario 8.

* * * * *

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.927	1.328	1.138	1.279	1.453	0.592	0.750	0.489	3.24	1.093
Composite NOX:	0.658	0.878	0.966	0.901	3.583	1.096	1.047	8.600	1.01	1.305

* * * * *

* Urban minor arterial-Granville County-Rural

* File 1, Run 1, Scenario 9.

* * * * *

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.907	1.304	1.119	1.257	1.396	0.574	0.727	0.462	3.17	1.078
Composite NOX:	0.646	0.868	0.955	0.890	3.641	1.086	1.038	8.519	1.02	1.145

* * * * *

* Urban collector-Granville County-Rural

* File 1, Run 1, Scenario 10.

* * * * *

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.907	1.304	1.119	1.257	1.394	0.574	0.727	0.462	3.17	1.081
Composite NOX:	0.646	0.868	0.955	0.890	3.639	1.086	1.038	8.527	1.02	1.095

* * * * *

* Urban local-Granville County-Rural

* File 1, Run 1, Scenario 11.

* * * * *

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite VOC:	0.907	1.304	1.119	1.257	1.396	0.574	0.727	0.462	3.17	1.073
Composite NOX:	0.646	0.868	0.955	0.890	3.641	1.086	1.038	8.518	1.02	1.233

M615 Comment:

M583 Warning:

M 48 Warning:

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

VMT Distribution:	0.3940	0.3796	0.1293	0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite VOC:	0.603	0.910	0.756	0.871	0.931	0.243	0.360	0.307	2.87	0.741
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX:	0.418	0.635	0.727	0.658	2.754	0.558	0.649	6.236	1.08	0.972
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* Rural minor collector-Granville County-Rural

* File 2, Run 1, Scenario 5.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0

M 48 Warning:

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (in)

nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel sulfur content. 50

Exhaust I/M Program: Yes

T/M Program: Yes

Evap 17M Program: Yes
ATP Program: Yes

[illegible]

Composite Emission Factors (g/mi):

Composite VOC:	0.599	0.906	0.753	0.867	0.921	0.241	0.356	0.302	2.86	0.737
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX:	0.420	0.638	0.730	0.661	2.774	0.565	0.657	6.316	1.09	0.985
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX: 0.450 0.690 0.783 0.713 3.182 0.932 1.090 11.243 1.45 2.107

* * * * *

* Urban principle arterial-Granville County-Rural

* File 2, Run 1, Scenario 8.

* * * * *

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.669	0.982	0.813	0.939	1.114	0.287	0.432	0.410	3.16	0.817
Composite NOX:	0.431	0.640	0.735	0.664	2.509	0.546	0.635	6.095	1.01	0.932

* * * * *

* Urban minor arterial-Granville County-Rural

* File 2, Run 1, Scenario 9.

* * * * *

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.655	0.965	0.800	0.923	1.072	0.278	0.416	0.388	3.09	0.805
Composite NOX:	0.423	0.633	0.727	0.657	2.550	0.541	0.629	6.036	1.02	0.819

* * * * *

* Urban collector-Granville County-Rural

* File 2, Run 1, Scenario 10.

* * * * *

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.655	0.965	0.800	0.923	1.071	0.278	0.416	0.388	3.09	0.807
Composite NOX:	0.423	0.633	0.727	0.657	2.549	0.541	0.629	6.038	1.02	0.784

* * * * *

* Urban local-Granville County-Rural

* File 2, Run 1, Scenario 11.

* * * * *

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite VOC:	0.655	0.965	0.800	0.923	1.071	0.278	0.416	0.388	3.09	0.802
Composite NOX:	0.423	0.633	0.727	0.657	2.549	0.541	0.629	6.035	1.02	0.881

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.391	0.676	0.537	0.641	0.623	0.105	0.192	0.210	3.37	0.486
Composite NOX:	0.309	0.509	0.558	0.521	2.070	0.427	0.678	7.512	1.49	2.185

```

M615 Comment:      User supplied VMT mix.
M581 Warning:      The user supplied freeway average speed of 46.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the freeway roadway type for
                    all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.418	0.714	0.567	0.676	0.672	0.112	0.206	0.237	2.76	0.555
Composite NOX:	0.289	0.474	0.522	0.486	1.834	0.253	0.399	4.516	1.11	0.894

```

M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 44.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.423	0.719	0.571	0.681	0.683	0.114	0.210	0.244	2.77	0.566
Composite NOX:	0.287	0.470	0.518	0.482	1.807	0.245	0.387	4.069	1.10	0.760

```

M583 Warning:
    User supplied arterial average speed of 41.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Granville County-Rural
* File 3, Run 1, Scenario 5.
* #####
* Rural minor collector mix and speeds
M615 Comment:
```

```

User supplied VMT mix.
M583 Warning:
  The user supplied arterial average speed of 42.0
  will be used for all hours of the day. 100% of VMT
  has been assigned to the arterial/collector roadway
  type for all hours of the day and all vehicle types.
M 48 Warning:
  there are no sales for vehicle class HDGV8b

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

```

M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	3.0 ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban interstate-Granville County-Rural
* File 3, Run 1, Scenario 7.
* #####
* Urban interstate mix and speeds
```

```
M615 Comment:
      User supplied VMT mix.
M581 Warning:
      The user supplied freeway average speed of 62.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Composite NOX: 0.307 0.505 0.554 0.518 2.044 0.396 0.628 6.976 1.45 1.365

* * * * *

* Urban principle arterial-Granville County-Rural

* File 3, Run 1, Scenario 8.

* * * * *

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.478	0.779	0.621	0.739	0.824	0.141	0.265	0.343	3.09	0.636
Composite NOX:	0.293	0.468	0.518	0.481	1.611	0.231	0.365	3.835	1.01	0.638

* * * * *

* Urban minor arterial-Granville County-Rural

* File 3, Run 1, Scenario 9.

* * * * *

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.468	0.766	0.611	0.727	0.797	0.136	0.254	0.325	3.03	0.628
Composite NOX:	0.288	0.463	0.512	0.475	1.638	0.229	0.362	3.803	1.02	0.567

* * * * *

* Urban collector-Granville County-Rural

* File 3, Run 1, Scenario 10.

* * * * *

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.468	0.766	0.611	0.727	0.796	0.136	0.254	0.325	3.03	0.629
Composite NOX:	0.288	0.463	0.512	0.475	1.637	0.229	0.362	3.799	1.02	0.545

* * * * *

* Urban local-Granville County-Rural

* File 3, Run 1, Scenario 11.

* * * * *

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite VOC:	0.468	0.766	0.611	0.727	0.796	0.136	0.254	0.325	3.03	0.626
Composite NOX:	0.288	0.463	0.512	0.475	1.638	0.229	0.362	3.800	1.02	0.606

VTM Distribution:0.3161 0.4173 0.1422 0.0341 0.0003 0.0021 0.0827 0.0052 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.306 0.546 0.422 0.515 0.515 0.072 0.146 0.210 2.73 0.434
Composite NOX: 0.194 0.349 0.362 0.352 0.994 0.123 0.235 2.389 1.10 0.496

* * * * *
* Rural major collector-Granville County-Rural
* File 4, Run 1, Scenario 4.
* * * * *
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VTM Distribution:0.3258 0.4305 0.1467 0.0260 0.0003 0.0022 0.0631 0.0054 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.312 0.551 0.427 0.520 0.531 0.074 0.151 0.222 2.77 0.445
Composite NOX: 0.192 0.345 0.358 0.348 0.973 0.119 0.226 2.304 1.08 0.440

* * * * *
* Rural minor collector-Granville County-Rural
* File 4, Run 1, Scenario 5.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.286	0.522	0.404	0.492	0.472	0.066	0.134	0.181	3.19	0.403
Composite NOX:	0.207	0.375	0.389	0.378	1.124	0.199	0.381	4.059	1.45	0.845

```

* #####
* Urban principle arterial-Granville County-Rural
* File 4, Run 1, Scenario 8.
* #####
* Urban principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 29.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.348	0.587	0.457	0.554	0.622	0.089	0.184	0.295	3.05	0.485
Composite NOX:	0.199	0.347	0.361	0.351	0.886	0.116	0.221	2.251	1.01	0.427

```

* #####
* Urban minor arterial-Granville County-Rural
* File 4, Run 1, Scenario 9.
* #####
* Urban minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 31.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.340	0.578	0.449	0.545	0.602	0.086	0.177	0.280	2.99	0.479
Composite NOX:	0.195	0.343	0.357	0.347	0.901	0.115	0.219	2.235	1.02	0.387

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.340	0.578	0.449	0.545	0.602	0.086	0.177	0.279	2.99	0.480
Composite NOX:	0.195	0.343	0.357	0.347	0.900	0.115	0.219	2.228	1.02	0.374

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VTM Distribution:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Composite Emission Factors (g/mi):										
Composite VOC:	0.340	0.578	0.449	0.545	0.601	0.086	0.177	0.279	2.99	0.477
Composite NOX:	0.195	0.343	0.357	0.347	0.901	0.115	0.219	2.231	1.02	0.408
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

VTM Distribution:0.2960 0.4322 0.1473 0.0341 0.0003 0.0022 0.0828 0.0051 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.244 0.432 0.348 0.411 0.420 0.054 0.123 0.193 2.67 0.355
Composite NOX: 0.138 0.263 0.282 0.268 0.652 0.066 0.180 1.424 1.10 0.342

* * * * *
* Rural major collector-Granville County-Rural
* File 5, Run 1, Scenario 4.
* * * * *
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VTM Distribution:0.3052 0.4459 0.1520 0.0259 0.0003 0.0023 0.0631 0.0053 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.250 0.436 0.352 0.415 0.432 0.056 0.127 0.203 2.70 0.363
Composite NOX: 0.137 0.260 0.279 0.265 0.638 0.064 0.173 1.374 1.08 0.310

* * * * *
* Rural minor collector-Granville County-Rural
* File 5, Run 1, Scenario 5.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.248	0.435	0.351	0.413	0.428	0.055	0.126	0.200	2.69	0.361
Composite NOX:	0.137	0.261	0.280	0.266	0.643	0.065	0.176	1.390	1.09	0.313

* #

* Rural local-Granville County-Rural

* File 5, Run 1, Scenario 6.

* #

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.248	0.435	0.351	0.413	0.428	0.055	0.126	0.200	2.69	0.361
Composite NOX:	0.137	0.261	0.280	0.266	0.643	0.065	0.176	1.389	1.09	0.311

* #

* Urban interstate-Granville County-Rural

* File 5, Run 1, Scenario 7.

* #

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.274	0.457	0.371	0.435	0.494	0.065	0.148	0.256	2.92	0.391
Composite NOX:	0.139	0.259	0.278	0.264	0.591	0.062	0.168	1.331	1.02	0.279

* #

* Urban collector-Granville County-Rural

* File 5, Run 1, Scenario 10.

* #

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

```
there are no sales for vehicle class LDDT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	3.0 ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.274	0.457	0.371	0.435	0.493	0.065	0.148	0.256	2.92	0.391
Composite NOX:	0.139	0.259	0.278	0.264	0.591	0.062	0.168	1.327	1.02	0.271

* #

* Urban local-Granville County-Rural

* File 5, Run 1, Scenario 11.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

there are no sales for vehicle class LDPT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VTM Distribution:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Composite Emission Factors (g/mi):										
Composite VOC:	0.274	0.457	0.371	0.435	0.493	0.065	0.148	0.256	2.92	0.390
Composite NOX:	0.139	0.259	0.278	0.264	0.591	0.062	0.168	1.330	1.02	0.291
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----


```

M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 38.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.776	1.140	0.984	1.101	1.100	0.524	0.664	0.389	2.81	0.923
Composite NOX:	0.627	0.855	0.939	0.876	3.912	1.095	1.047	8.602	1.07	1.335

```
M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 43.0
                    will be used for all hours of the day.  100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.757	1.116	0.966	1.078	1.037	0.500	0.633	0.354	2.73	0.899
Composite NOX:	0.636	0.870	0.953	0.891	4.060	1.147	1.096	8.995	1.09	1.383

```

M583 Warning:      User supplied VMT mix.
                  The user supplied arterial average speed of 47.0
                  will be used for all hours of the day. 100% of VMT
                  has been assigned to the arterial/collector roadway
                  type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.4377	0.3468	0.1183		0.0261	0.0006	0.0020	0.0626	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.743	1.098	0.952	1.061	1.000	0.486	0.614	0.333	2.70	0.883
Composite NOX:	0.645	0.883	0.966	0.904	4.178	1.219	1.165	9.557	1.13	1.420

```

User supplied VMT mix.
M581 Warning:
  The user supplied freeway average speed of 65.0
  will be used for all hours of the day. 100% of VMT
  has been assigned to the freeway roadway type for
  all hours of the day and all vehicle types.
M 48 Warning:
  there are no sales for vehicle class HDGV8b

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.702	1.030	0.901	0.997	0.934	0.463	0.585	0.300	3.41	0.748
Composite NOX:	0.689	0.947	1.029	0.968	4.709	2.077	1.987	17.666	1.52	4.976

```

M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 38.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural minor collector-Granville(Modeled)-PM Peak
* File 6, Run 1, Scenario 7.
* #####
* Rural minor collector mix and speeds
M615 Comment:
        User supplied VMT mix.
M583 Warning:
        The user supplied arterial average speed of 44.0
        will be used for all hours of the day. 100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
M 48 Warning:
        there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. ppm

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Calendar Year: 2008										
Month: July										
Altitude: Low										
Minimum Temperature: 73.0 (F)										
Maximum Temperature: 89.0 (F)										
Minimum Rel. Hum.: 49.0 (%)										
Maximum Rel. Hum.: 96.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.5 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.503	0.771	0.646	0.739	0.726	0.219	0.320	0.251	3.31	0.569
Composite NOX:	0.450	0.691	0.783	0.714	3.298	1.040	1.217	12.479	1.52	3.527

```

M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 39.0
                    will be used for all hours of the day.  100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Granville(Modeled)-AM Peak
* File 7, Run 1, Scenario 3.
* #####
* Rural minor collector mix and speeds
M615 Comment:
```

```
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 44.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

 * # # # # #
 * Rural major collector-Granville(Modeled)-PM Peak
 * File 7, Run 1, Scenario 6.
 * # # # # #
 * Rural major collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.562	0.845	0.704	0.809	0.849	0.252	0.373	0.327	2.73	0.692
Composite NOX:	0.410	0.623	0.714	0.646	2.740	0.546	0.635	6.096	1.07	0.954

* # # # # #
 * Rural minor collector-Granville(Modeled)-PM Peak
 * File 7, Run 1, Scenario 7.
 * # # # # #
 * Rural minor collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.541	0.823	0.686	0.788	0.788	0.235	0.345	0.287	2.64	0.668

Composite Emission Factors (g/mi):										
Composite VOC:	0.538	0.820	0.684	0.785	0.781	0.233	0.342	0.283	2.63	0.665
Composite NOX:	0.421	0.641	0.733	0.665	2.904	0.596	0.694	6.673	1.11	1.014

```

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTMT Distribution:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.535	0.816	0.681	0.782	0.776	0.231	0.340	0.279	2.63	0.662
Composite NOX:	0.422	0.644	0.735	0.667	2.927	0.608	0.708	6.806	1.13	1.018


```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.365   0.629   0.501   0.597   0.552   0.105   0.192   0.210   3.24   0.454
Composite NOX:   0.307   0.506   0.554   0.518   2.120   0.442   0.702   7.767   1.52   2.245
-----

```

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* * * * *

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* Rural major collector-Granville(Modeled)-PM Peak

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* File 8, Run 1, Scenario 6.

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* * * * *

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* Rural major collector mix and speeds

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M615 Comment:

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    User supplied VMT mix.

```

```

M583 Warning:

```

```

    The user supplied arterial average speed of 41.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.

```

```

M 48 Warning:

```

```

    there are no sales for vehicle class HDGV8b

```

```

        Calendar Year: 2011
        Month: July
        Altitude: Low
        Minimum Temperature: 73.0 (F)
        Maximum Temperature: 89.0 (F)
        Minimum Rel. Hum.: 49.0 (%)
        Maximum Rel. Hum.: 96.0 (%)
        Barometric Pressure: 30.00 (inches Hg)
        Nominal Fuel RVP: 7.8 psi
        Weathered RVP: 7.5 psi
        Fuel Sulfur Content: 30. ppm

```

```

        Exhaust I/M Program: Yes
        Evap I/M Program: Yes
        ATP Program: Yes
        Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.398   0.672   0.536   0.637   0.619   0.117   0.218   0.257   2.62   0.537
Composite NOX:   0.281   0.460   0.507   0.472   1.801   0.236   0.373   3.924   1.08   0.660
-----

```

```

* * * * *

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* Rural minor collector-Granville(Modeled)-PM Peak

```

```

* File 8, Run 1, Scenario 7.

```

```

* * * * *

```

```

* Rural minor collector mix and speeds

```

```

M615 Comment:

```

```

    User supplied VMT mix.

```

```

M583 Warning:

```

```

    The user supplied arterial average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.

```

```

M 48 Warning:

```

```

    there are no sales for vehicle class HDGV8b

```

```

        Calendar Year: 2011
        Month: July
        Altitude: Low
        Minimum Temperature: 73.0 (F)
        Maximum Temperature: 89.0 (F)
        Minimum Rel. Hum.: 49.0 (%)
        Maximum Rel. Hum.: 96.0 (%)
        Barometric Pressure: 30.00 (inches Hg)
        Nominal Fuel RVP: 7.8 psi
        Weathered RVP: 7.5 psi
        Fuel Sulfur Content: 30. ppm

```

```

        Exhaust I/M Program: Yes
        Evap I/M Program: Yes
        ATP Program: Yes
        Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:0.3546 0.4081 0.1391 0.0264 0.0003 0.0021 0.0639 0.0055 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.388 0.661 0.527 0.627 0.593 0.112 0.206 0.237 2.57 0.526
Composite NOX: 0.286 0.469 0.516 0.481 1.867 0.253 0.399 4.201 1.11 0.690

* * * * *
* Rural local-Granville(Modeled)-PM Peak
* File 8, Run 1, Scenario 8.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)

VTM Distribution:0.3551 0.4088 0.1394 0.0260 0.0003 0.0021 0.0628 0.0055 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.388 0.661 0.527 0.627 0.593 0.112 0.206 0.237 2.57 0.526
Composite NOX: 0.286 0.469 0.516 0.481 1.867 0.253 0.399 4.203 1.11 0.685

* * * * *
* Rural interstate-Granville(Modeled)-OP Peak
* File 8, Run 1, Scenario 9.
* * * * *
* Rural interstate mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)


```

M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 38.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12

```

```
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 38.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.296	0.519	0.403	0.490	0.484	0.077	0.157	0.235	2.62	0.421
Composite NOX:	0.188	0.338	0.351	0.341	0.969	0.116	0.221	2.252	1.07	0.432

```
* #####
* Rural minor collector-Modeled Granville-AM Peak
* File 9, Run 1, Scenario 3.
* #####
* Rural minor collector mix and speeds
M615 Comment:
```

```

M583 Warning:
    User supplied VMT mix.
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.284	0.509	0.395	0.480	0.453	0.071	0.145	0.207	2.53	0.408
Composite NOX:	0.193	0.347	0.359	0.350	1.019	0.124	0.237	2.412	1.10	0.455

```
* # # # # # # # # # # # # # # # # # # # #  
* Rural local-Modeled Granville-PM Peak  
* File 9, Run 1, Scenario 8.  
* # # # # # # # # # # # # # # # # # # # #  
* Rural local mix and speeds  
M615 Comment:
```

```

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.282	0.506	0.392	0.477	0.446	0.070	0.142	0.201	2.52	0.405
Composite NOX:	0.194	0.350	0.362	0.353	1.035	0.129	0.247	2.515	1.13	0.458

```
* #####
* Rural interstate-Modeled Granville-OP Peak
* File 9, Run 1, Scenario 9.
* #####
* Rural interstate mix and speeds
M615 Comment:
```

```

M 96 Warning:      User supplied VMT mix.
                  66.0      speed reduced to 65 mph maximum
M581 Warning:      The user supplied freeway average speed of 65.0
                  will be used for all hours of the day. 100% of VMT
                  has been assigned to the freeway roadway type for
                  all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12

```

Calendar Year: 2014
Month: July
Altitude: Low

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural major collector-Modeled Granville-OP Peak
* File 9, Run 1, Scenario 10.
* #####
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Modeled Granville-OP Peak
* File 9, Run 1, Scenario 11.
* #####
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
```

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.283	0.508	0.394	0.479	0.449	0.070	0.144	0.204	2.53	0.407
Composite NOX:	0.193	0.348	0.361	0.351	1.027	0.127	0.242	2.464	1.11	0.457

* #
* Rural local-Modeled Granville-OP Peak
* File 9, Run 1, Scenario 12.
* #
* Rural local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.282	0.506	0.392	0.477	0.446	0.070	0.142	0.201	2.52	0.405
Composite NOX:	0.194	0.350	0.362	0.353	1.035	0.129	0.247	2.515	1.13	0.458


```
M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 38.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.238	0.414	0.335	0.394	0.396	0.058	0.132	0.216	2.55	0.346
Composite NOX:	0.134	0.255	0.273	0.260	0.635	0.063	0.169	1.343	1.07	0.303

```
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.215	0.392	0.315	0.372	0.341	0.049	0.113	0.166	3.12	0.298
Composite NOX:	0.147	0.284	0.304	0.289	0.765	0.120	0.325	2.704	1.52	0.849

* #
 * Rural major collector-Modeled Granville-OP Peak
 * File 10, Run 1, Scenario 10.
 * #
 * Rural major collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.232	0.409	0.330	0.389	0.379	0.055	0.126	0.200	2.49	0.339
Composite NOX:	0.136	0.259	0.277	0.263	0.655	0.065	0.176	1.392	1.09	0.310

* #
 * Rural minor collector-Modeled Granville-OP Peak
 * File 10, Run 1, Scenario 11.
 * #
 * Rural minor collector mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.227	0.405	0.327	0.385	0.366	0.053	0.121	0.187	2.46	0.334
Composite NOX:	0.138	0.263	0.282	0.268	0.674	0.068	0.185	1.469	1.11	0.320

* #
* Rural local-Modeled Granville-OP Peak
* File 10, Run 1, Scenario 12.
* #
* Rural local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.226	0.404	0.326	0.384	0.363	0.052	0.120	0.185	2.45	0.333
Composite NOX:	0.138	0.264	0.283	0.269	0.678	0.070	0.189	1.498	1.13	0.321