

Appendix E

On-Road Mobile Source
Emissions Inventory Documentation

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1. INTRODUCTION

The attainment modeling for the Charlotte-Gastonia-Rock Hill, North Carolina-South Carolina nonattainment area (referred to as the Metrolina area) was performed in conjunction with the regional haze modeling being done by the Southeast Regional Planning Organization, Visibility Improvement State and Tribal Association of the Southeast (VISTAS) and the fine particulate matter (PM_{2.5}) and ozone modeling being done by the Association of Southeastern Integrated Planning (ASIP). VISTAS and ASIP are run by the ten Southeast states (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia and West Virginia). Since the regional haze and PM_{2.5} modeling uses annual simulations and includes an intermediate year that is the original attainment year required for the Metrolina nonattainment area, the North Carolina Division of Air Quality (NCDAQ) decided to use this modeling as the starting point for its attainment demonstration.

The 2002 base year emissions inventory from the attainment demonstration was the starting point for the Reasonable Further Progress (RFP) demonstration. The 2008 emissions were developed in a similar manner as the 2002 base year and were processed through the Sparse Matrix Operator Kernel Emissions (SMOKE) pre-processor so that the 2002 and 2008 emissions estimates were comparable.

On-road mobile sources are comprised of those vehicles that travel on the roadways. In North Carolina on-road mobile sources emissions comprise approximately 50 percent of the emissions of NO_x statewide. Emissions from motor vehicles occur throughout the day while the vehicle is in motion, at idle, parked, and during refueling. All of these emissions processes need to be estimated in order to properly reflect the total emissions from this source category. In its simplest terms, emissions from on-road mobile sources are calculated by multiplying the modeled emission factor by an activity level, in this case, daily (Vehicle Miles Traveled) VMT as provided by the Charlotte Department of Transportation (CDOT), North Carolina Department of Transportation (NCDOT), and Metropolitan Planning Organizations (MPOs).

The US Environmental Protection Agency (USEPA) developed the MOBILE model to estimate emission factors based on information on the way vehicles are driven in a particular area. The latest version of the MOBILE model, MOBILE6.2, was used. In 2004, MOBILE6.2 was incorporated into SMOKEv2.1 which was used in the VISTAS/ASIP modeling. Key inputs for MOBILE6.2 include information on the age of vehicles on the roads, the average speed of those vehicles, the types of roads those vehicles are traveling on, ambient temperature, and any control technologies in place for a certain area to reduce motor vehicle emissions (e.g., emissions inspection/maintenance programs).

A very important component of the on-road mobile emissions estimation process is interagency consultation. The Metrolina transportation partners involved in the attainment demonstration and motor vehicle emission budget development include: USEPA, NCDOT, Federal Highway Administration (FHWA), Gaston Urban Area MPO (GUAMPO), Mecklenburg Union MPO (MUMPO), and Cabarrus Rowan MPO. Specifically the NCDOT, CDOT, and the MPOs were consulted on the modeling input parameters such as speeds and VMT derived from the Metrolina travel demand model (TDM).

The documentation for the on-road mobile sources is broken out into two components: 1) how the inventory was developed for the RFP demonstration and 2) how the motor vehicle emission budgets were developed for the counties in the Metrolina nonattainment area of North Carolina.

2. MOBILE6.2 INPUT ASSUMPTIONS FOR RFP

The MOBILE6.2 module of SMOKE was used to develop the 2002 (base year) and 2008 (milestone year) on-road mobile source emissions estimates for nitrogen oxides (NO_x) and volatile organic compounds (VOCs). The MOBILE6.2 parameters, vehicle fleet descriptions, and VMT estimates were combined with gridded, episode-specific temperature data to calculate the gridded, temporalized emission estimates. The MOBILE6.2 emissions factors are based on episode-specific temperatures predicted by the meteorological model. Further, the MOBILE6.2 emissions factors model accounts for the following:

- Hourly and daily minimum/maximum temperatures, relative humidity and barometric pressure;
- Vehicular speeds by roadway type;
- Locale-specific inspection/maintenance (I/M) control programs, if any;
- Adjustments for running losses;
- Splitting of evaporative and exhaust emissions into separate source categories;
- VMT, fleet turnover, and changes in fuel composition and Reid vapor pressure (RVP).

2.1 Speed Assumptions

Emissions from motor vehicles vary with the manner in which the vehicle is operated. Vehicles traveling at 65 miles per hour (mph) emit a very different mix of pollutants than the car that is idling at a stoplight. In order to estimate emissions from vehicles for a typical day, NCDOT and the MPOs provided speeds for their respective counties.

The speeds for several urban counties covered by the MPOs were generated from their latest travel demand model. The speeds were generated from their latest travel demand model. These speeds were provided for AM Peak (0601-0900), Midday (0901-1500), PM Peak (1501-1800), and Night (0001-0600 and 1801-2400). Interstates are modeled as “non-ramp” instead of “freeways” because both the speed and VMT for ramps are included in the functional classification for the major facility it is connected to in the travel demand model. This is consistent with the USEPA guidance.

2.2 Vehicle Age Distribution

The vehicle age distribution is based on annual registration data for North Carolina and is provided by the NCDOT. For this analysis the age distribution was generated based on 2004 data for the base year 2002 emissions and 2007 data for the 2008 emissions, which represents the best quality assured information available for each of the years.

The NCDOT provided vehicle count data for each vehicle classification from years 1974 through 2004/2007. Vehicles greater than 25 years old were combined and included as the 25th model year. The vehicle count information is provided for nine vehicle types; light duty gas vehicles (LDGV), light duty diesel vehicles (LDDV), light duty gas trucks 1 (LDGT1), light duty gas trucks 2 (LDGT2), light duty diesel trucks 1 (LDDT1), light duty diesel trucks 2 (LDDT2), heavy duty gas vehicles (HDGV), heavy duty diesel vehicles (HDDV) and motorcycles (MC). LDDT1 and LDDT2 are combined and labeled as light duty diesel trucks (LDDT). This vehicle distribution convention corresponds to the MOBILE5 format and does not correlate to the USEPA MOBILE6.2 model vehicle types. In order to convert the data provided by the NCDOT into the MOBILE6.2 model format, the NCDAQ used a utility developed by the USEPA that disaggregates the eight MOBILE5 model vehicle types into the 16 MOBILE6.2 vehicle types. The count data provided by the NCDOT is converted to fractions by dividing each count per vehicle type per year by the total number of vehicles in that classification for all years. For example, the number of 2007 light duty vehicles divided by the total number of light duty vehicles for all years. The fractions are arranged into MOBILE5 format for conversion to the 16 vehicle types required by the MOBILE6.2 model using the USEPA conversion utility.

2.3 Vehicle Mix Assumptions

2.3.1 North Carolina Statewide Vehicle Mix Development

The vehicle mix refers to the fraction of different vehicle types on each of the 12 FHWA road types. The vehicle mix data for 1999-2001 is listed below in Tables 2.3.1-1 and the vehicle mix data for 2007 is listed below in 2.3.1-2. It is critical for estimating mobile emissions in an area to use data that accurately reflects the vehicles types traveling on each of these different road types.

The North Carolina HPMS data that was used to generate the statewide vehicle mix was based on 1991-2001 count data for the 2002 vehicle mix and 2007 count data for the 2008 vehicle mix. This was the latest available statewide count information at the time of the emissions modeling. Table 2.3.1-1 and 2.3.1-2 shows the fraction of vehicles per vehicle type for each of the 12 road classes for 1991-2001 and 2007, respectively.

Table 2.3.1-1. 1999-2001 Fraction of Vehicles Per Vehicle Type by Functional Road Class in NC

FUNCTIONAL CLASSIFICATION	CARS	PICK UPS	BUS	2ASU	3ASU	4ASU	4AST	5AST	6AST	5AMT	6AMT	7AMT	MC
Rural Principal Arterial - Interstate	58.372	11.100	1.083	2.622	1.615	1.199	5.028	17.137	0.348	0.713	0.226	0.089	0.487
Rural Principal Arterial - Other	69.342	15.786	0.705	2.798	1.479	0.253	2.067	6.668	0.262	0.162	0.047	0.036	0.396
Rural Minor Arterial	70.582	17.231	0.593	3.192	1.873	0.267	1.795	3.687	0.209	0.046	0.008	0.023	0.495
Rural Major Collector	73.207	17.518	0.514	3.009	1.452	0.240	1.631	1.839	0.185	0.020	0.006	0.020	0.359
Rural Minor Collector	73.996	16.499	0.655	3.000	1.550	0.168	1.747	1.500	0.297	0.052	0.019	0.063	0.454
Rural Local System	71.929	18.657	0.510	4.087	1.059	0.023	1.536	1.600	0.045	0.000	0.000	0.000	0.555
Urban Principal Arterial - Interstate	68.682	12.842	0.888	2.122	1.678	0.424	2.703	9.291	0.454	0.364	0.095	0.098	0.360
Urban Principal Arterial	74.795	13.965	0.571	2.476	1.169	0.424	2.565	3.425	0.169	0.075	0.013	0.026	0.329
Urban Principal Arterial - Other	76.639	14.840	0.462	2.204	1.298	0.135	1.665	2.125	0.213	0.044	0.012	0.042	0.323
Urban Minor Arterial	79.346	14.430	0.470	2.157	1.084	0.104	1.264	0.658	0.107	0.003	0.002	0.019	0.358
Urban Collector	81.153	13.422	0.428	2.019	1.117	0.071	0.993	0.403	0.047	0.003	0.000	0.009	0.336
Urban Local	75.564	16.590	0.821	2.569	1.732	0.033	0.945	1.052	0.105	0.000	0.000	0.000	0.588

Table 2.3.1-2. 2007 Fraction of Vehicles Per Vehicle Type by Functional Road Class in NC

FUNCTIONAL CLASSIFICATION	CARS	PICK UPS	BUS	2ASU	3ASU	4ASU	4AST	5AST	6AST	5AMT	6AMT	7AMT	MC
Rural Principal Arterial - Interstate	0.5900	0.1337	0.0110	0.0284	0.0075	0.0005	0.0192	0.1871	0.0078	0.0063	0.0027	0.0019	0.0037
Rural Principal Arterial - Other	0.6655	0.1866	0.0080	0.0344	0.0122	0.0011	0.0136	0.0647	0.0030	0.0017	0.0007	0.0004	0.0082
Rural Minor Arterial	0.6683	0.2010	0.0088	0.0397	0.0127	0.0011	0.0133	0.0460	0.0021	0.0002	0.0001	0.0003	0.0065
Rural Major Collector	0.7214	0.1967	0.0055	0.0323	0.0106	0.0010	0.0080	0.0174	0.0010	0.0000	0.0000	0.0001	0.0061
Rural Minor Collector	0.7077	0.2042	0.0067	0.0406	0.0109	0.0006	0.0086	0.0122	0.0008	0.0000	0.0000	0.0003	0.0073
Rural Local System	0.6512	0.2273	0.0190	0.0568	0.0139	0.0012	0.0100	0.0077	0.0012	0.0000	0.0000	0.0003	0.0113
Urban Principal Arterial - Interstate	0.6783	0.1406	0.0084	0.0275	0.0097	0.0004	0.0129	0.1097	0.0028	0.0030	0.0012	0.0005	0.0050
Urban Principal Arterial	0.7132	0.1620	0.0065	0.0281	0.0099	0.0010	0.0118	0.0590	0.0018	0.0011	0.0004	0.0003	0.0049
Urban Principal Arterial - Other	0.7435	0.1693	0.0054	0.0290	0.0091	0.0010	0.0088	0.0254	0.0017	0.0003	0.0001	0.0003	0.0061
Urban Minor Arterial	0.7807	0.1579	0.0056	0.0280	0.0069	0.0006	0.0060	0.0067	0.0012	0.0000	0.0000	0.0002	0.0062
Urban Collector	0.7830	0.1620	0.0048	0.0262	0.0088	0.0002	0.0043	0.0025	0.0004	0.0000	0.0000	0.0001	0.0077
Urban Local	0.7244	0.1839	0.0230	0.0364	0.0090	0.0003	0.0051	0.0065	0.0009	0.0000	0.0000	0.0001	0.0104

The NCDAQ created a statewide mix based on the methodology outlined in the August 2004 USEPA guidance document EPA420-R-04-013, *Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation*. Below is the methodology used to convert the 13 Highway Performance Monitoring System (HPMS) vehicle types count data reported to FHWA and generate a state specific vehicle mix from the 2007 data. This same method was used to create the 1999-2001 vehicle mix.

Disaggregating State Specific Information

The *Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation*, Section 4.1.5, illustrates how to map the HPMS statewide vehicle data to general vehicle categories. This mapping is outlined below:

HPMS Category	General Category
Motorcycle	Motorcycle (MC)
Passenger Car	Passenger Car (LDV)
Other 2-Axel, 4-Tire Vehicles	Light Truck (LDT)
Buses	Bus (HDB)
All Other Trucks: Single unit, 2-axel, 6-tire Single unit, 3-axel Single unit, 4 or more axel Single trailer, 4 or fewer axel Single trailer, 5-axel Single trailer, 6 or more axel Multi-trailer, 5 or fewer axel Multi-trailer, 6-axel Multi-trailer, 7 or more axel	Heavy Duty Truck (HDV)

The HPMS data in Table 2.3.1-2 was grouped into these five general categories for each road type. In order to expand the five general categories to the 16 vehicle types used in MOBILE6.2, the national average VMT fractions by each vehicle class were used. The national average data was obtained from Table 4.1.2 in *Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation*. An example for rural interstates is illustrated below:

From Table 2.3.1-2 above:

Passenger Cars	=	59.00%	5 axel Trailer	=	18.71%
Pickup Trucks	=	13.37%	6 axel Trailer	=	0.78%
Buses	=	1.10%	5 axel Multi Trailer	=	0.63%
2 axel Trucks	=	2.84%	6 axel Multi Trailer	=	0.27%
3 axel Trucks	=	0.75%	7 axel Multi Trailer	=	0.19%
4 axel Trucks	=	0.05%	Motorcycles	=	0.37%
4 axel Trailer	=	1.92%			

Therefore, the five general categories are:

Motorcycles	=	0.37%
Light Duty Vehicles	=	59.00%
Light Duty Trucks	=	13.37%
Heavy Duty Buses	=	1.10%
Heavy Duty Vehicles	=	26.16%

From Table 4.1.2 in *Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation*, the 2007 national average vehicle mix for light duty trucks, buses and heavy duty trucks are:

Light Duty Trucks			Heavy Duty Trucks		
LDT1	=	0.0822	HDV2B	=	0.0387
LDT2	=	0.2735	HDV3	=	0.0038
LDT3	=	0.0843	HDV4	=	0.0031
LDT4	=	0.0388	HDV5	=	0.0023
Total	=	0.4788	HDV6	=	0.0086
			HDV7	=	0.0102
Buses			HDV8A	=	0.0111
HDBS	=	0.0020	HDV8B	=	0.0396
HDBT	=	0.0009	Total	=	.1174
Total	=	0.0029			

Using the methodology described in *Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation*, Section 4.1.5, the 2007 North Carolina statewide mix was developed.

The basic formula for developing the mix is shown below,

$$\text{Vehicle Type} = (\text{2007 M6.2 fraction for vehicle}) \times \frac{(\text{2007 State total for group})}{(\text{2007 M6.2 total for subcategory})}$$

Table 2.3.1-3 displays the calculation for each vehicle type for the 2007 rural interstate vehicle mix.

Table 2.3.1-3. Calculation of New 2007 Statewide Rural Interstate Vehicle Mix

Vehicle Type		Calculation		New 2007 Mix
LDV	=	LDV	=	0.5900
MC	=	MC	=	0.0037
Light Duty Trucks				
LDT1	=	0.0822 x (0.7237/0.8740)	=	0.0230
LDT2	=	0.2735 x (0.7237/0.8740)	=	0.0764
LDT3	=	0.0843 x (0.7237/0.8740)	=	0.0235
LDT4	=	0.0388 x (0.7237/0.8740)	=	0.0108
Heavy Duty Vehicles				
HDV2B	=	0.0387 x (0.2616/0.1174)	=	0.0862
HDV3	=	0.0038 x (0.2616/0.1174)	=	0.0085
HDV4	=	0.0031 x (0.2616/0.1174)	=	0.0069
HDV5	=	0.0023 x (0.2616/0.1174)	=	0.0051
HDV6	=	0.0086 x (0.2616/0.1174)	=	0.0192
HDV7	=	0.0102 x (0.2616/0.1174)	=	0.0227
HDV8A	=	0.0111 x (0.2616/0.1174)	=	0.0247
HDV8B	=	0.0396 x (0.2616/0.1174)	=	0.0882
Buses				
HDBS	=	0.0020 x (0.0110/0.0029)	=	0.0076
HDBT	=	0.0009 x (0.0110/0.0029)	=	0.0034

2008 NC Statewide Vehicle Mix

Once the 2007 vehicle mix was generated, the future year was created using the methodology described in *Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation*, Section 4.1.4.

This method grouped light duty vehicles, light duty trucks and motorcycles together and heavy duty buses, heavy duty trucks and heavy duty vehicles together. The combined percentages for these groupings are listed below.

Light Duty Vehicles = 72.74%
Heavy Duty Vehicles = 27.26%

The MOBILE6.2 vehicle mix fractions for the year being developed were obtained from Table 4.1.2 in Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation. The MOBILE6.2 vehicle fractions for 2008 are listed below.

Light Duty Vehicles			Heavy Duty Vehicles		
LDV	=	0.3807	HDV2B	=	0.0388
LDT1	=	0.0846	HDV3	=	0.0038
LDT2	=	0.2817	HDV4	=	0.0031
LDT3	=	0.0868	HDV5	=	0.0024
LDT4	=	0.0399	HDV6	=	0.0087
MC	=	0.0055	HDV7	=	0.0102
Total	=	0.8792	HDV8A	=	0.0111
			HDV8B	=	0.0397
			HDBS	=	0.0020
			HDBT	=	0.0009
			Total	=	0.1207

The North Carolina 2008 vehicle mix was normalized to the MOBILE6.2 fractions using the following formula:

$$\text{Vehicle Type} = (\text{2008 M6 fraction for vehicle}) \times \frac{(\text{2007 State total for group})}{(\text{2008 M6 total for group})}$$

Table 2.3.1-4 below displays the calculations used to generate the 2008 North Carolina vehicle mix for rural interstate.

Table 2.3.1-4. Calculation of 2008 NC Statewide Rural Interstate Vehicle Mix

Vehicle Type		Calculation		2008 State Mix
Light Duty Vehicles				
LDV	=	$0.3807 \times (0.7274/0.8792)$	=	0.3151
LDT1	=	$0.0846 \times (0.7274/0.8792)$	=	0.0700
LDT2	=	$0.2817 \times (0.7274/0.8792)$	=	0.2331
LDT3	=	$0.0868 \times (0.7274/0.8792)$	=	0.0718
LDT4	=	$0.0399 \times (0.7274/0.8792)$	=	0.0330
MC	=	$0.0055 \times (0.7274/0.8792)$	=	0.0046
Heavy Duty Vehicles				
HDV2B	=	$0.0388 \times (0.2726/0.1207)$	=	0.0876
HDV3	=	$0.0038 \times (0.2726/0.1207)$	=	0.0086
HDV4	=	$0.0031 \times (0.2726/0.1207)$	=	0.0070
HDV5	=	$0.0024 \times (0.2726/0.1207)$	=	0.0054
HDV6	=	$0.0087 \times (0.2726/0.1207)$	=	0.0196
HDV7	=	$0.0102 \times (0.2726/0.1207)$	=	0.0230
HDV8A	=	$0.0111 \times (0.2726/0.1207)$	=	0.0251
HDV8B	=	$0.0397 \times (0.2726/0.1207)$	=	0.0896
HDBS	=	$0.0020 \times (0.2726/0.1207)$	=	0.0045
HDBT	=	$0.0009 \times (0.2726/0.1207)$	=	0.0020

The 2002 statewide vehicle mix was generated in a similar manner but used the 1999-2001 count data forecast the 2002 mix. The North Carolina transportation partners recommended the use of the statewide vehicle mix for rural interstates, urban interstates, and urban freeways/expressways since there was no local data for these road types.

The Metrolina area had local vehicle count data for the remaining road types. The development of the Metrolina area vehicle mix is discussed below.

2.3.2 Metrolina Vehicle Mix Development

Based upon vehicle count data provided by CDOT, a vehicle mix for the Metrolina nonattainment area was developed. Vehicle classification counts in the Metrolina nonattainment

area were gathered using NC-97 (Hi-Star) count machines. The raw counts from the Hi-Star count machines are categorized into eight vehicle lengths: less than 20 feet, 20 – 27 feet, 28 – 39 feet, 40 – 49 feet, 50 – 59 feet, 60 – 69 feet, 70 – 79 feet, 80 feet and greater. In MOBILE6.2, vehicles are categorized by weight rather than length. To correlate the vehicle lengths from the count data to the vehicle weight used in MOBILE6.2, a methodology employed by the Illinois Department of Transportation (IDOT) and best engineering judgment was utilized. Table 2.3.2-1 illustrates the mapping between the count data and the 16 MOBILE6.2 vehicle classifications.

Table 2.3.2-1 Mapping Between Count Data Vehicle Lengths and MOBILE6.2 Vehicle Classes

Bin	Vehicle Length	Mobile 6 Vehicle Weight Classes	
1	< 20 ft	LDV	Light Duty Vehicles (passenger cars)
1	< 20 ft	LDT1	Light Duty Trucks 1 (0-6,000 lbs. GVWR, 0-3,750 lbs. LVW)
1	< 20 ft	LDT2	Light Duty Trucks 2 (0-6,000 lbs. GVWR, 3,751-5,750 LVW)
1	< 20 ft	LDT3	Light Duty Trucks 3 (6,001-8,500 lbs. GVWR, 0-5,750 lbs. ALVW)
1	< 20 ft	LDT4	Light Duty Trucks 4 (6,001-8,500 lbs. GVWR, 5,750 lbs. + ALVW)
2	21-39 ft	HDV2b	Class 2b Heavy Duty Vehicles (8,501-10,000 lbs. GVWR)
2	21-39 ft	HDV3	Class 3 Heavy Duty Vehicles (10,000-14,000 lbs. GVWR)
2	21-39 ft	HDV4	Class 4 Heavy Duty Vehicles (14,001-16,000 lbs. GVWR)
2	21-39 ft	HDV5	Class 5 Heavy Duty Vehicles (16,001-19,500 lbs. GVWR)
2	21-39 ft	HDV6	Class 6 Heavy Duty Vehicles (19,501-26,000 lbs. GVWR)
3	40+ ft	HDV7	Class 7 Heavy Duty Vehicles (26,001-33,000 lbs. GVWR)
3	40+ ft	HDV8a	Class 8a Heavy Duty Vehicles (33,001-60,000 lbs. GVWR)
3	40+ ft	HDV8b	Class 8b Heavy Duty Vehicles (>60,000 lbs. GVWR)
2	21-39 ft	HDBS	School Buses
2	21-39 ft	HDBT	Transit and Urban Buses
1	< 20 ft	MC	All Motorcycles

The three vehicle bins, based on vehicle lengths, were grouped into the following general categories: Bin 1-Passenger Cars, Light Duty Trucks and Motorcycles, Bin2-Medium Trucks and Buses and Bin 3-Heavy Duty Trucks.

The count data collected by CDOT did not include counts on local roads; therefore, the collectors data was used for local roads. The percentage of each vehicle bin per road type is shown below in Table 2.3.2-2.

Table 2.3.2-2 Percentage of Each Vehicle Bin per Road Type

Road Types	Bin 1	Bin 2	Bin 3
Rural	<20 feet	21-39 feet	40+ feet
Principal Arterial	85.16%	6.97%	7.87%
Minor Arterial	89.62%	6.63%	3.76%
Major Collector	90.68%	6.57%	2.75%
Minor Collector	89.98%	6.92%	3.10%
Urban			
Principal Arterial	93.94%	4.47%	1.59%
Minor Arterial	93.40%	5.15%	1.45%
Collector	93.53%	5.34%	1.13%

Using the *Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation*, Section 4.1.5, the Metrolina area vehicle mix was calculated using the following formula:

$$\text{Vehicle Type} = \frac{(\text{2008 State VMT fraction per vehicle}) \times (\text{2002 Metrolina total fraction per group})}{(\text{2002 State total fraction per group})}$$

Table 2.3.2-3 displays the calculation for each vehicle type for the 2008 Metrolina nonattainment area rural minor arterial vehicle mix.

Table 2.3.2-3 Calculation of 2008 Metrolina Rural Minor Arterial Vehicle Mix

Vehicle Type		Calculation		New 2008 Mix
Cars/Light Duty Trucks/Motorcycles				
LDV	=	0.3791 x (0.8962/0.8830)		0.3848
LDT1	=	0.0843 x (0.8962/0.8830)		0.0856
LDT2	=	0.2806 x (0.8962/0.8830)		0.2848
LDT3	=	0.0865 x (0.8962/0.8830)		0.0878
LDT4	=	0.0397 x (0.8962/0.8830)		0.0403
MC	=	0.0055 x (0.8962/0.8830)		0.0056
Medium Trucks				
HDV2b	=	0.0399 x (0.0663/0.0578)		0.0457
HDV3	=	0.0039 x (0.0663/0.0578)		0.0045
HDV4	=	0.0032 x (0.0663/0.0578)		0.0037
HDV5	=	0.0025 x (0.0663/0.0578)		0.0029
HDV6	=	0.0090 x (0.0663/0.0578)		0.0103
HDBS	=	0.0021 x (0.0663/0.0578)		0.0024
HDBT	=	0.0009 x (0.0663/0.0578)		0.0010
Heavy Trucks				
HDV7	=	0.0105 x (0.0376/0.0592)		0.0067
HDV8a	=	0.0114 x (0.0376/0.0592)		0.0072
HDV8b	=	0.0409 x (0.0376/0.0592)		0.0260

2.4 Temperature, Relative Humidity and Barometric Pressure Assumptions

MOBILE6.2 emission factors used by SMOKE are significantly influenced by temperature and to a lesser extent, humidity. The most desirable approach from an accuracy standpoint is to model on-road mobile emissions using gridded, temporalized data from the meteorological model. The on-road mobile inventories were developed using this approach.

2.5 Vehicle Inspection and Maintenance Program Assumptions

In the early 1990's, North Carolina adopted emissions inspection requirements for vehicles in nine urban counties. This program tested emissions at idle for 1975 and newer gasoline powered light duty vehicles. This "idle test" was assumed to have a compliance rate of 95 percent and covered Gaston, Mecklenburg, Union, Cabarrus, Forsyth, Guilford, Orange, Durham and Wake Counties. In addition, the inspection stations are required to administer an anti-tampering check to ensure that emissions control equipment on any vehicle 35 years old and newer has not been altered.

In 2002, North Carolina implemented a new vehicle emissions inspection program referred to as onboard diagnostics (OBDII). This program covers all light duty gasoline powered vehicles that are model year 1996 and newer. The program was initially implemented in the nine counties that originally had the "idle test" and was expanded to include a total of 48 counties between July 2002 and January 2006. Because the OBDII program did not begin until midway through 2002, the 2002 annual on-road mobile inventory was developed with an "idle test" in the nine counties listed above plus the anti-tampering in all counties. The 2008 inventory was developed with the OBDII benefits applied to the 48 counties the program covers, plus anti-tampering in all counties.

2.6 Reid Vapor Pressure Assumptions

The RVP is a measure of gasoline's volatility. An RVP of 7.8 pounds per square inch (psi) is required during May through September in the former 1-hour ozone nonattainment areas; For the Metrolina area these included Gaston, and Mecklenburg counties. The remaining North Carolina counties in the Metrolina nonattainment area are required to have an RVP of 9.0 psi during May through September.

2.7 Vehicle Miles Traveled Assumptions

In order to calculate emissions from on-road mobile sources, emission factors are developed as discussed in this document. The emission factors are then multiplied by an activity level, which is VMT for on-road mobile sources.

VMT for the Metrolina area are generated using a travel demand model. For the 2008 emissions, speeds and VMT were obtained for the following counties from Charlotte Department of Transportation (CDOT): Cabarrus, Gaston, Lincoln, Mecklenburg, Rowan, Union, and the nonattainment portion of Iredell.

3. MOBILE6.2 INPUT ASSUMPTIONS FOR MOTOR VEHICLE EMISSION BUDGETS

The purpose of transportation conformity is to ensure that Federal transportation actions occurring in a nonattainment areas do not hinder the area from attaining and/or maintaining the 8-hour ozone standard. This means that the level of emissions estimated by the NCDOT or the MPOs for the Transportation Improvement Program and Long Range Transportation Plan must not exceed the motor vehicle emission budgets (MVEBs) as defined in this RFP demonstration state implementation plan (SIP).

The sections below describe the MOBILE6.2 input assumptions used to calculate the MVEBs. The MOBILE6.2 input files and output files used in the development of the on-road mobile source emissions for the MVEBs are compiled in Section 5.

As stated in the introduction, a very important component of the on-road mobile source emissions estimation process is interagency consultation. The Metrolina transportation partners involved in the attainment demonstration SIP and motor vehicle emission budget development include: USEPA, NCDOT, FHWA, GUAMPO, MUMPO, and Cabarrus Rowan MPO. Specifically the NCDOT, CDOT and MPOs were consulted on input data such as speeds and VMT derived from the Metrolina TDM, as well the other input parameters discussed below.

3.1 Speed Assumptions

The MOBILE6.2 command “AVEAGE SPEED” was used to enter the speeds. This command requires the average speed on a given roadway scenario. Interstates are modeled as “non-ramp” instead of “freeways” because both the speed and VMT for ramps are included in the functional classification for the major facility it is connected to in the travel demand model. This is consistent with the USEPA guidance.

In order to estimate emissions from vehicles for a typical day, CDOT and the MPOs provided speeds for their respective counties. As part of the interagency consultation process, the NCDOT requested that four times a day speeds be used instead of average daily speeds since this would be consistent with how future transportation conformity regional emissions analyses will be performed. The speeds were generated from their latest travel demand model. These speeds were provided for AM Peak (0601-0900), Midday (0901-1500), PM Peak (1501-1800), and Night (0001-0600 and 1801-2400).

Section 5.3 provides a summary of the speeds used for the development of the MVEBs. These same speeds were used in the 2008 SMOKE modeling.

3.2 Development of Vehicle Mix

The vehicle mix used in the developing of the MVEBs is the Metrolina area vehicle mix discussed in Section 2.3. A copy of this vehicle mix can be found in Section 5.5 of this document.

3.3 Vehicle Age Distribution

The vehicle age distributions used in developing the MVEBs are the same as what was used in the SMOKE modeling and is discussed in Section 2.2. Copies of the vehicle age distributions can be found in Section 5.6 and 5.7 of this document.

3.4 Temperature, Relative Humidity and Barometric Pressure Assumptions

The MOBILE6.2 command “HOURLY TEMPERATURES” was used to enter temperatures to estimate mobile source emissions. This command requires the command name followed by the hourly temperatures in the data field in the RUN SECTION of the MOBILE6.2 input files. The relative humidity command used in MOBILE6.2 is “RELATIVE HUMIDITY” followed by the hourly relative humidity data. The “RELATIVE HUMIDITY” command is placed in each SCENARIO SECTION in the input files. For the Metrolina nonattainment area, the NCDAQ used an average July 2002 hourly temperature profile and relative humidity profile from the Charlotte-Douglas International Airport Meteorological Station. The hourly temperatures and relative humidity are shown in Tables 3.4-1.

Table 3.4-1 Metrolina Nonattainment Area Average Hourly Temperatures and RH

Hour	July 2002 Avg Temp	July 2002 Avg RH
0	75.0	79.4
1	74.0	82.8
2	73.2	85.1
3	72.3	87.0
4	71.6	88.5
5	71.0	90.6
6	71.0	91.0
7	73.8	85.7
8	77.0	78.5
9	80.3	70.8
10	82.5	65.5
11	85.4	59.3
12	87.3	52.9
13	88.5	50.1
14	89.1	48.5
15	88.5	51.0
16	89.6	47.2
17	89.2	47.1
18	86.3	52.6
19	82.6	60.7
20	77.8	70.1
21	77.5	70.5
22	76.2	76.2
23	75.9	77.3

3.5 Vehicle Inspection and Maintenance Program Assumptions

The OBDII program is administered in all of the counties in the Metrolina nonattainment area. Mecklenburg, Gaston, Union and Cabarrus Counties were four of the original nine counties that implemented the OBDII program. Iredell and Rowan Counties were phased-in in July 2003 and Lincoln County was phased-in in January 2004. All counties in North Carolina have a vehicle safety inspection program. Inspection stations are required to administer an anti-tampering check to ensure that emissions control equipment on any vehicle, less than 35 model years old, has not been altered.

3.6 Reid Vapor Pressure Assumptions

As discussed in Section 2.6, the RVP is required to be 7.8 psi during May through September in areas that were nonattainment for the 1-hour ozone standard, which includes Gaston and

Mecklenburg Counties. The remaining counties in the Metrolina nonattainment area are required to have an RVP of 9.0 psi during May through September. These values were used in calculating the MVEBs for the Metrolina nonattainment area.

3.7 Vehicle Miles Traveled Assumptions

In order to calculate emissions from on-road mobile sources, emission factors are developed as discussed in this document. The emission factors are then multiplied by an activity level, which is daily VMT for on-road mobile sources. The daily VMT for the Metrolina nonattainment area was provided by CDOT on October 6, 2009. Four times a day VMT was used in the nonattainment counties instead of daily VMT since this would be consistent with how future transportation conformity regional emissions analyses will be performed. Section 5.4 provides a summary of the VMT used for the development of the MVEBs.

4. MOTOR VEHICLE EMISSIONS BUDGETS FOR CONFORMITY

4.1 Transportation Conformity

As mentioned earlier, the purpose of transportation conformity is to ensure that Federal transportation actions occurring in a nonattainment areas do not hinder the area from maintaining the 8-hour ozone standard. This means that the level of emissions estimated by the NCDOT or the MPOs for the Transportation Improvement Program and Long Range Transportation Plan must not exceed the MVEBs as defined in this RFP demonstration.

One of the requirements is that the NCDAQ needs to consult with the transportation partners in the development of the SIP. The NCDAQ consulted the partners for the data used in the development of the MVEBs, as well as the data used in the modeling. Additionally, the NCDAQ sent out a request for comment on setting the geographic extent of the MVEBs to all of the transportation partners. A copy of the letter can be found in Appendix F. In the letter, the NCDAQ expressed its preference for setting county level budgets and the reasons why the NCDAQ believed county level budgets were appropriate.

The NCDAQ received comments from several of the transportation partners regarding the geographic extent of the MVEBs. Some of the partners wanted county-by-county budgets; others wanted regional budgets. Those areas preferring a regional budget stated in their letter that they would agree to county level MVEBs for those areas wanting county level MVEBs and a single budget for the remainder of the North Carolina portion of the Metrolina nonattainment area. Copies of the letters received can be found in Appendix F. Upon careful consideration of all arguments, the NCDAQ decided to move forward with setting county level MVEBs. The NCDAQ believes that since mobile source NO_x emissions play a significant role in the ozone formation in the Metrolina nonattainment area, it is important that the larger, more urbanized counties in the area meet the county level MVEBs that more closely represent the emissions that were modeled for the attainment demonstration.

4.3 Motor Vehicle Emission Budgets

Motor vehicle emissions estimates for the RFP demonstration are generated at the county level. NCDAQ relies upon the MPOs, RPOs, and NCDOT to provide future year projections of VMT in the SIP process. County level MVEBs preserve the growth projected by the MPOs, RPOs and NCDOT. In addition, county level sub-area MVEBs eliminate the need for a new conformity analysis for all MPOs and RPOs in the nonattainment area if only one of the MPOs or RPOs revises or updates its respective long range transportation plan or transportation improvement

program when there are conforming plans in place for other areas. Developing county level MVEBs maintains consistency with the modeling conducted for the attainment demonstration. The NCDAQ believes that since mobile source NO_x emissions play a significant role in the ozone formation in the Metrolina area, it is important that the large counties in the area meet the county level MVEBs that closely represent the emissions that were modeled for the attainment demonstration. The MVEBs will be set for the RFP year 2008.

Although the emissions are usually expressed in terms of tons per day, the MVEBs will be set in terms of kilograms (kg) per day. The reason is because the MOBILE6.2 model generates the emissions factors in grams per mile. In past conformity exercises, there have been some issues with conversion to tons per day, as well as concerns with how the MVEBs were rounded to the hundredth place. Setting MVEBs in kilograms per day will avoid these issues in future conformity determinations. The table below shows the North Carolina counties with their on-road mobile NO_x emissions expressed in tons per day and the corresponding kilograms per day values for 2008. The gram to ton conversion factor is the number of grams divided by 907184.7 to get tons.

Table 4.3-1 On-Road Mobile Source 2008 Emissions Metrolina Nonattainment Area

County	NO _x		VOC	
	Tons/day	Kg/day	Tons/day	Kg/day
Cabarrus	8.07	7,324	7.65	6,941
Gaston	8.43	7,647	5.66	5,132
Iredell*	6.21	5,637	3.97	3,601
Lincoln	3.25	2,948	3.01	2,726
Mecklenburg	38.06	34,526	29.07	26,368
Rowan	7.93	7,193	6.78	6,149
Union	6.24	5,660	6.94	6,299
Total	78.19	70,934	63.07	57,217

* Iredell County emissions for nonattainment area only.

The NCDAQ will set MVEB, for transportation conformity purposes, as county budgets within the Metrolina nonattainment area for 2008. Tables 4.3-2 below list out the MVEBs by county in kilograms per day for transportation conformity purposes. Upon the USEPA's affirmative adequacy finding for these county level sub-area MVEBs, these MVEBs will become the applicable MVEBs for each county.

Table 4.3-2 County Level MVEB for 2008

County	NO _x MVEB (Kilograms/day)	VOC MVEB (Kilograms/day)
Cabarrus	7,324	6,941
Gaston	7,647	5,132
Iredell*	5,637	3,601
Lincoln	2,948	2,726
Mecklenburg	34,526	26,368
Rowan	7,193	6,149
Union	5,660	6,299

* Iredell County MVEB for nonattainment area only

5. DATA USED IN ANALYSIS

5.1 MOBILE Input Files

5.1.1 Cabarrus 2008 I/M (C2008.IN)

MOBILE6 INPUT FILE :

> Cabarrus I/M for 2008 using TDM, 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Cabarrus NOX VOC
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0
REG DIST : ncage07.prn

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

> OBDII

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

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

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 55 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED : 41 Non-Ramp 100.0 0.0 0.0 0.0

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

```

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED        : 30 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED        : 29 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED        : 29 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

AVERAGE SPEED        : 25 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES      : 30

```

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 54 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 60 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****

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

> Rural major collector mix and speeds

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

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local- Cabarrus County - Midday
 CALENDAR YEAR : 2008


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EVALUATION MONTH      : 7

> Rural local mix and speeds

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

AVERAGE SPEED          : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED          : 66 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED          : 32 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED          : 30 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 54 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

VTM FRACTIONS :

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

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural minor collector- Cabarrus County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :

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

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural local- Cabarrus County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :

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

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Urban interstate- Cabarrus County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :

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

AVERAGE SPEED : 39 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Urban principle arterial- Cabarrus County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :

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

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

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

> Urban local mix and speeds

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

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

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

```

EVALUATION MONTH      : 7

> Rural minor arterial mix and speeds

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

AVERAGE SPEED          : 62 Arterial 0.0 100.0 0.0 0.0

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

> Rural major collector mix and speeds

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

AVERAGE SPEED          : 53 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED          : 48 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED          : 27 Arterial 0.0 100.0 0.0 0.0

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

> Urban interstate mix and speeds

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

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AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 26 Arterial 0.0 100.0 0.0 0.0

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

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5.1.2 Cabarrus 2008 Non-I/M (C2008N.IN)

MOBILE6 INPUT FILE :

> Cabarrus NON-I/M for 2008 using TDM, 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Cabarrus NOX VOC
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0
REG DIST : ncage07.prn

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

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Cabarrus County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 55 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED : 41 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Cabarrus County - AM

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CALENDAR YEAR      : 2008
EVALUATION MONTH   : 7

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED      : 54 Non-Ramp 100.0 0.0 0.0 0.0

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

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

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> Rural minor arterial mix and speeds

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

AVERAGE SPEED      : 60 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED      : 66 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

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AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES     : 30

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED      : 49 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED      : 54 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED : 39 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED        : 27 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

AVERAGE SPEED        : 24 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED        : 56 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED        : 62 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES      : 30

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

> Rural major collector mix and speeds

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

AVERAGE SPEED : 53 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial- Cabarrus County - Nite
CALENDAR YEAR   : 2008

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EVALUATION MONTH      : 7

> Urban principle arterial mix and speeds

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

AVERAGE SPEED          : 41 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED          : 38 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED          : 38 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

AVERAGE SPEED          : 26 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES         : 30

END OF RUN              :

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5.1.3 Gaston 2008 I/M (G2008.IN)

MOBILE6 INPUT FILE :

> Gaston I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

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

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

> OBDII
I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural Interstate - Gaston County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural interstate mix and speeds

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

AVERAGE SPEED : 47 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 54 Non-Ramp 100.0 0.0 0.0 0.0

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

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

```

EVALUATION MONTH      : 7

> Rural minor arterial mix and speeds

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

AVERAGE SPEED          : 44 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED          : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED          : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED          : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

```

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

AVERAGE SPEED : 44 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban freeway mix and speeds

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

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

VMF FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026

```

0.0019    0.0073    0.0018    0.0019    0.0068    0.0017    0.0009    0.0059

AVERAGE SPEED      : 26 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural interstate mix and speeds

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

AVERAGE SPEED      : 61 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

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AVERAGE SPEED      : 50 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

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

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

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

> Urban freeway mix and speeds

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

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

> Urban local mix and speeds

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

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural interstate mix and speeds

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

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

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

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

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EVALUATION MONTH      : 7

> Rural major collector mix and speeds

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

AVERAGE SPEED          : 41 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED          : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED          : 29 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED          : 43 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban freeway mix and speeds

```


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

AVERAGE SPEED : 53 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED : 20 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

VMF FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031

```

0.0024    0.0088    0.0021    0.0023    0.0082    0.0019    0.0009    0.0057

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural interstate mix and speeds

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

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED      : 51 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED      : 52 Arterial 0.0 100.0 0.0 0.0

```

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban freeway mix and speeds

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

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED        : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED        : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED        : 30 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

AVERAGE SPEED        : 24 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES      : 30
END OF RUN           :

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5.1.4 Gaston 2008 Non-I/M (G2008N.IN)

MOBILE6 INPUT FILE :

> Gaston NON-I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

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

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

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

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

> Rural interstate mix and speeds

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

AVERAGE SPEED : 47 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 54 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED        : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED        : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED        : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED        : 44 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Gaston County - AM

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CALENDAR YEAR      : 2008
EVALUATION MONTH   : 7

> Urban freeway mix and speeds

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

AVERAGE SPEED      : 52 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 26 Arterial 0.0 100.0 0.0 0.0

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

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

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> Urban local mix and speeds

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

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural interstate mix and speeds

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

AVERAGE SPEED : 61 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 50 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban freeway mix and speeds

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

```

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 26 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

```

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

BAROMETRIC PRES : 30

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

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

> Rural interstate mix and speeds

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

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

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

```

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED        : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED        : 29 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban interstate mix and speeds

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

AVERAGE SPEED        : 43 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Urban freeway mix and speeds

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

AVERAGE SPEED        : 53 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban principle arterial- Gaston County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Urban minor arterial- Gaston County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector- Gaston County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

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

AVERAGE SPEED : 20 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local- Gaston County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

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

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural Interstate - Gaston County - Nite
CALENDAR YEAR : 2008

```

EVALUATION MONTH      : 7

> Rural interstate mix and speeds

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

AVERAGE SPEED          : 62 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED          : 58 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED          : 51 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED          : 52 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

```

```

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

```

```

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

```

```

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

```

```

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

```

> Rural local mix and speeds

```

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

```

```

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

```

```

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

```

```

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

```

> Urban interstate mix and speeds

```

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

```

```

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

```

```

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

```

```

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

```

> Urban freeway mix and speeds

```

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

```

```

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

```

```

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

```

```

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

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023

```

```

0.0018    0.0064    0.0026    0.0028    0.0102    0.0014    0.0007    0.0058

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES     : 30

END OF RUN          :

```


5.1.5 Iredell 2008 I/M (I2008.IN)

MOBILE6 INPUT FILE :

> Iredell I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Iredell NOX VOC
RUN DATA :

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

FUEL RVP : 9.0
REG DIST : ncase07.prn

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

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

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

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

SCENARIO RECORD : Rural Interstate - Iredell County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural interstate mix and speeds

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

AVERAGE SPEED : 53 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 21 Arterial 0.0 100.0 0.0 0.0

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

```

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

> Rural major collector mix and speeds

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

AVERAGE SPEED       : 33 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED       : 26 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED       : 24 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED       : 25 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Urban collector- Iredell County - AM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban collector mix and speeds

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

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Urban local- Iredell County - AM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

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

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural Interstate - Iredell County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural interstate mix and speeds

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

AVERAGE SPEED : 66 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural minor arterial- Iredell County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 22 Arterial 0.0 100.0 0.0 0.0

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

> Rural major collector mix and speeds

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

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

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

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> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 27 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 22 Arterial 0.0 100.0 0.0 0.0

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

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

> Rural interstate mix and speeds

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

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

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

> Rural minor arterial mix and speeds

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

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AVERAGE SPEED      : 17 Arterial 0.0 100.0 0.0 0.0

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

> Rural major collector mix and speeds

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

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED      : 23 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED      : 22 Arterial 0.0 100.0 0.0 0.0

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

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CALENDAR YEAR      : 2008
EVALUATION MONTH   : 7

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 21 Arterial 0.0 100.0 0.0 0.0

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 23 Arterial 0.0 100.0 0.0 0.0

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

> Rural interstate mix and speeds

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

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

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

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3855  0.0856  0.2848  0.0878  0.0403  0.0457  0.0045  0.0037

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0.0029  0.0103  0.0067  0.0072  0.0260  0.0024  0.0010  0.0056

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

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

> Rural major collector mix and speeds

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

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

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

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Iredell County - Nite
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 26 Arterial 0.0 100.0 0.0 0.0

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

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5.1.6 Iredell 2008 Non-I/M (I2008N.IN)

MOBILE6 INPUT FILE :

> Iredell NON-I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Iredell NOX VOC
RUN DATA :

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

FUEL RVP : 9.0
REG DIST : ncage07.prn

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

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

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

SCENARIO RECORD : Rural Interstate - Iredell County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural interstate mix and speeds

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

AVERAGE SPEED : 53 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 21 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

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

> Rural interstate mix and speeds

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

AVERAGE SPEED      : 66 Non-Ramp 100.0 0.0 0.0 0.0

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED      : 22 Arterial 0.0 100.0 0.0 0.0

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

> Rural major collector mix and speeds

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

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

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

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53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector- Iredell County - Midday
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban collector mix and speeds

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

AVERAGE SPEED : 22 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Urban local- Iredell County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

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

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural Interstate - Iredell County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural interstate mix and speeds

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

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural minor arterial- Iredell County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 17 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural major collector- Iredell County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural major collector mix and speeds

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

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 23 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 22 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED : 21 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Urban local- Iredell County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

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

AVERAGE SPEED : 23 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural Interstate - Iredell County - Nite

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural interstate mix and speeds

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

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural minor arterial- Iredell County - Nite

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural major collector- Iredell County - Nite

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural major collector mix and speeds

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

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Urban local- Iredell County - Nite

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

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

AVERAGE SPEED : 26 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

END OF RUN :

5.1.7 Lincoln 2008 I/M (L2008.IN)

MOBILE6 INPUT FILE :

> Lincoln County I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Lincoln NOX VOC
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0
REG DIST : ncage07.prn

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

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

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

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Lincoln County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector- Lincoln County - AM

```

CALENDAR YEAR      : 2008
EVALUATION MONTH   : 7

> Rural major collector mix and speeds

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

AVERAGE SPEED      : 55 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025

```

0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 23 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Urban collector- Lincoln County - AM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :

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

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Urban local- Lincoln County - AM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :

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

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural principle arterial- Lincoln County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :

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

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

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

BAROMETRIC PRES : 30

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

SCENARIO RECORD : Rural minor arterial- Lincoln County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :

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

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Lincoln County - Midday
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

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

AVERAGE SPEED : 57 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED      : 54 Non-Ramp 100.0 0.0 0.0 0.0

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

> Rural minor arterial mix and speeds

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

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED       : 55 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED       : 44 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED       : 29 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED       : 40 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 21 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

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

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

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

> Rural minor arterial mix and speeds

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

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED       : 58 Arterial 0.0 100.0 0.0 0.0

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED       : 48 Arterial 0.0 100.0 0.0 0.0

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

> Rural local mix and speeds

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

AVERAGE SPEED       : 29 Arterial 0.0 100.0 0.0 0.0

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED       : 48 Arterial 0.0 100.0 0.0 0.0

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

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

> Urban collector mix and speeds

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

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

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

> Urban local mix and speeds

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

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

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

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5.1.8 Lincoln 2008 Non-I/M (L2008N.IN)

MOBILE6 INPUT FILE :

> Lincoln County NON-I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Lincoln NOX VOC
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0
REG DIST : ncage07.prn

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

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

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Lincoln County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

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

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

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

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

> Rural minor arterial mix and speeds

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

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural major collector mix and speeds

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

AVERAGE SPEED : 55 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural minor collector mix and speeds

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

AVERAGE SPEED        : 42 Arterial 0.0 100.0 0.0 0.0

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

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

> Rural local mix and speeds

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

AVERAGE SPEED        : 29 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban principle arterial mix and speeds

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

AVERAGE SPEED        : 42 Arterial 0.0 100.0 0.0 0.0

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

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

> Urban minor arterial mix and speeds

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

AVERAGE SPEED        : 23 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD      : Urban collector- Lincoln County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

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

AVERAGE SPEED       : 28 Arterial 0.0 100.0 0.0 0.0

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

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Lincoln County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS       :
0.4022   0.0892   0.2969   0.0915   0.0421   0.0388   0.0039   0.0031
0.0024   0.0088   0.0021   0.0023   0.0082   0.0019   0.0009   0.0057

AVERAGE SPEED       : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial- Lincoln County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3712   0.0825   0.2745   0.0846   0.0388   0.0437   0.0043   0.0035
0.0027   0.0098   0.0127   0.0138   0.0493   0.0022   0.0010   0.0054

AVERAGE SPEED       : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Lincoln County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3855   0.0856   0.2848   0.0878   0.0403   0.0457   0.0045   0.0037
0.0029   0.0103   0.0067   0.0072   0.0260   0.0024   0.0010   0.0056

AVERAGE SPEED       : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Lincoln County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3990  0.0885  0.2948  0.0908  0.0417  0.0364  0.0036  0.0028
0.0022  0.0082  0.0039  0.0043  0.0152  0.0019  0.0009  0.0058

AVERAGE SPEED      : 57 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Lincoln County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Lincoln County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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> Rural local mix and speeds

VMT FRACTIONS      :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Lincoln County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Lincoln County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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> Urban minor arterial mix and speeds

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VMT FRACTIONS      :
0.4062   0.0902   0.3005   0.0926   0.0426   0.0315   0.0030   0.0025
0.0020   0.0071   0.0023   0.0025   0.0088   0.0016   0.0007   0.0059

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Lincoln County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4070   0.0904   0.3008   0.0927   0.0426   0.0325   0.0032   0.0026
0.0019   0.0073   0.0018   0.0019   0.0068   0.0017   0.0009   0.0059

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Lincoln County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4022   0.0892   0.2969   0.0915   0.0421   0.0388   0.0039   0.0031
0.0024   0.0088   0.0021   0.0023   0.0082   0.0019   0.0009   0.0057

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial- Lincoln County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS      :
0.3712   0.0825   0.2745   0.0846   0.0388   0.0437   0.0043   0.0035
0.0027   0.0098   0.0127   0.0138   0.0493   0.0022   0.0010   0.0054

AVERAGE SPEED      : 54 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Lincoln County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3855   0.0856   0.2848   0.0878   0.0403   0.0457   0.0045   0.0037

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0.0029    0.0103    0.0067    0.0072    0.0260    0.0024    0.0010    0.0056

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Lincoln County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3990    0.0885    0.2948    0.0908    0.0417    0.0364    0.0036    0.0028
0.0022    0.0082    0.0039    0.0043    0.0152    0.0019    0.0009    0.0058

AVERAGE SPEED      : 55 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Lincoln County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3952    0.0875    0.2913    0.0898    0.0412    0.0401    0.0039    0.0033
0.0025    0.0090    0.0046    0.0050    0.0180    0.0020    0.0009    0.0057

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Lincoln County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS       :
0.3767    0.0845    0.2814    0.0867    0.0399    0.0564    0.0056    0.0044
0.0035    0.0127    0.0064    0.0070    0.0251    0.0029    0.0013    0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Lincoln County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.4070    0.0904    0.3013    0.0928    0.0427    0.0289    0.0029    0.0023
0.0018    0.0064    0.0026    0.0028    0.0102    0.0014    0.0007    0.0058

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Lincoln County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 21 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Lincoln County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Lincoln County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Lincoln County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.

53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor arterial- Lincoln County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
 0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
 0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural major collector- Lincoln County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
 0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
 0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 58 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector- Lincoln County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
 0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local- Lincoln County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
 0.3767 0.0845 0.2814 0.0867 0.0399 0.0564 0.0056 0.0044
 0.0035 0.0127 0.0064 0.0070 0.0251 0.0029 0.0013 0.0055

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial- Lincoln County - Nite
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Lincoln County - Nite
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Lincoln County - Nite
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Lincoln County - Nite
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

END OF RUN :
```

5.1.9 Mecklenburg 2008 I/M (M2008.IN)

MOBILE6 INPUT FILE :

> Meck I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Meck NOX VOC
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8
REG DIST : mekage07.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

> OBDII

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial-Meck County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 38 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial-Meck County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD      : Rural major collector-Meck County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3990  0.0885  0.2948  0.0908  0.0417  0.0364  0.0036  0.0028
0.0022  0.0082  0.0039  0.0043  0.0152  0.0019  0.0009  0.0058

AVERAGE SPEED       : 23 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector-Meck County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED       : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local-Meck County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS       :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED       : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate-Meck County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568  0.0793  0.2639  0.0813  0.0374  0.0566  0.0055  0.0045
0.0035  0.0127  0.0149  0.0162  0.0580  0.0029  0.0013  0.0052

AVERAGE SPEED       : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway-Meck County - AM
CALENDAR YEAR        : 2008

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EVALUATION MONTH      : 7

> Urban freeway mix and speeds

VMT FRACTIONS          :
0.3811   0.0847   0.2821   0.0869   0.0399   0.0385   0.0038   0.0031
0.0024   0.0086   0.0101   0.0110   0.0394   0.0020   0.0009   0.0055

AVERAGE SPEED          : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Urban principle arterial-Meck County - AM
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS          :
0.4070   0.0904   0.3013   0.0928   0.0427   0.0289   0.0029   0.0023
0.0018   0.0064   0.0026   0.0028   0.0102   0.0014   0.0007   0.0058

AVERAGE SPEED          : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Urban minor arterial-Meck County - AM
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS          :
0.4062   0.0902   0.3005   0.0926   0.0426   0.0315   0.0030   0.0025
0.0020   0.0071   0.0023   0.0025   0.0088   0.0016   0.0007   0.0059

AVERAGE SPEED          : 24 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Urban collector-Meck County - AM
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Urban collector mix and speeds

VMT FRACTIONS          :
0.4070   0.0904   0.3008   0.0927   0.0426   0.0325   0.0032   0.0026
0.0019   0.0073   0.0018   0.0019   0.0068   0.0017   0.0009   0.0059

AVERAGE SPEED          : 21 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Urban local-Meck County - AM
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Urban local mix and speeds

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VMT FRACTIONS :
 0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
 0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 22 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban HOV-Meck County - AM
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Urban HOV mix and speeds

VMT FRACTIONS :
 0.4267 0.0948 0.3156 0.0972 0.0447 0.0000 0.0000 0.0000
 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0210 0.0000

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural principle arterial-Meck County - Midday
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
 0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
 0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor arterial-Meck County - Midday
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
 0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
 0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural major collector-Meck County - Midday
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
 0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028

0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector-Meck County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :

0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local-Meck County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :

0.3767 0.0845 0.2814 0.0867 0.0399 0.0564 0.0056 0.0044
0.0035 0.0127 0.0064 0.0070 0.0251 0.0029 0.0013 0.0055

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban interstate-Meck County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :

0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban freeway-Meck County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban freeway mix and speeds

VMT FRACTIONS :

0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial-Meck County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.4070 0.0904 0.3013 0.0928 0.0427 0.0289 0.0029 0.0023
0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial-Meck County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector-Meck County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMF FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local-Meck County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMF FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 20 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban HOV-Meck County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban HOV mix and speeds

VMT FRACTIONS        :
0.4267  0.0948  0.3156  0.0972  0.0447  0.0000  0.0000  0.0000
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0210  0.0000

AVERAGE SPEED        : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS        :
0.3712  0.0825  0.2745  0.0846  0.0388  0.0437  0.0043  0.0035
0.0027  0.0098  0.0127  0.0138  0.0493  0.0022  0.0010  0.0054

AVERAGE SPEED        : 37 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS        :
0.3855  0.0856  0.2848  0.0878  0.0403  0.0457  0.0045  0.0037
0.0029  0.0103  0.0067  0.0072  0.0260  0.0024  0.0010  0.0056

AVERAGE SPEED        : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS        :
0.3990  0.0885  0.2948  0.0908  0.0417  0.0364  0.0036  0.0028
0.0022  0.0082  0.0039  0.0043  0.0152  0.0019  0.0009  0.0058

AVERAGE SPEED        : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD      : Rural minor collector-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED       : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS       :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED       : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568  0.0793  0.2639  0.0813  0.0374  0.0566  0.0055  0.0045
0.0035  0.0127  0.0149  0.0162  0.0580  0.0029  0.0013  0.0052

AVERAGE SPEED       : 41 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811  0.0847  0.2821  0.0869  0.0399  0.0385  0.0038  0.0031
0.0024  0.0086  0.0101  0.0110  0.0394  0.0020  0.0009  0.0055

AVERAGE SPEED       : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED      : 23 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED      : 23 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED      : 21 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED      : 18 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban HOV-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban HOV mix and speeds

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VMT FRACTIONS :
 0.4267 0.0948 0.3156 0.0972 0.0447 0.0000 0.0000 0.0000
 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0210 0.0000

AVERAGE SPEED : 66 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural principle arterial-Meck County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
 0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
 0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor arterial-Meck County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
 0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
 0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural major collector-Meck County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
 0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
 0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector-Meck County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033

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0.0025    0.0090    0.0046    0.0050    0.0180    0.0020    0.0009    0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS       :
0.3767    0.0845    0.2814    0.0867    0.0399    0.0564    0.0056    0.0044
0.0035    0.0127    0.0064    0.0070    0.0251    0.0029    0.0013    0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568    0.0793    0.2639    0.0813    0.0374    0.0566    0.0055    0.0045
0.0035    0.0127    0.0149    0.0162    0.0580    0.0029    0.0013    0.0052

AVERAGE SPEED      : 61 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811    0.0847    0.2821    0.0869    0.0399    0.0385    0.0038    0.0031
0.0024    0.0086    0.0101    0.0110    0.0394    0.0020    0.0009    0.0055

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.4070    0.0904    0.3013    0.0928    0.0427    0.0289    0.0029    0.0023
0.0018    0.0064    0.0026    0.0028    0.0102    0.0014    0.0007    0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial-Meck County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector-Meck County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local-Meck County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 24 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban HOV-Meck County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban HOV mix and speeds

VMT FRACTIONS :
0.4267 0.0948 0.3156 0.0972 0.0447 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0210 0.0000

AVERAGE SPEED : 0 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
END OF RUN :

5.1.10 Mecklenburg 2008 Non-I/M (M2008N.IN)

MOBILE6 INPUT FILE :

> Meck NON-I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Meck NOX VOC
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8
REG DIST : mekage07.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial-Meck County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 38 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial-Meck County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector-Meck County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 23 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector-Meck County - AM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                   53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local-Meck County - AM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                   53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate-Meck County - AM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568  0.0793  0.2639  0.0813  0.0374  0.0566  0.0055  0.0045
0.0035  0.0127  0.0149  0.0162  0.0580  0.0029  0.0013  0.0052

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                   53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway-Meck County - AM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811  0.0847  0.2821  0.0869  0.0399  0.0385  0.0038  0.0031
0.0024  0.0086  0.0101  0.0110  0.0394  0.0020  0.0009  0.0055

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                   53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial-Meck County - AM

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CALENDAR YEAR      : 2008
EVALUATION MONTH   : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial-Meck County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector-Meck County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED      : 21 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local-Meck County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED      : 22 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban HOV-Meck County - AM
CALENDAR YEAR        : 2008

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EVALUATION MONTH      : 7

> Urban HOV mix and speeds

VMT FRACTIONS          :
0.4267   0.0948   0.3156   0.0972   0.0447   0.0000   0.0000   0.0000
0.0000   0.0000   0.0000   0.0000   0.0000   0.0000   0.0210   0.0000

AVERAGE SPEED          : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30

***** SCENARIO SECTION *****
SCENARIO RECORD          : Rural principle arterial-Meck County - Midday
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS          :
0.3712   0.0825   0.2745   0.0846   0.0388   0.0437   0.0043   0.0035
0.0027   0.0098   0.0127   0.0138   0.0493   0.0022   0.0010   0.0054

AVERAGE SPEED          : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Rural minor arterial-Meck County - Midday
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS          :
0.3855   0.0856   0.2848   0.0878   0.0403   0.0457   0.0045   0.0037
0.0029   0.0103   0.0067   0.0072   0.0260   0.0024   0.0010   0.0056

AVERAGE SPEED          : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Rural major collector-Meck County - Midday
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Rural major collector mix and speeds

VMT FRACTIONS          :
0.3990   0.0885   0.2948   0.0908   0.0417   0.0364   0.0036   0.0028
0.0022   0.0082   0.0039   0.0043   0.0152   0.0019   0.0009   0.0058

AVERAGE SPEED          : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Rural minor collector-Meck County - Midday
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

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> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3952   0.0875   0.2913   0.0898   0.0412   0.0401   0.0039   0.0033
0.0025   0.0090   0.0046   0.0050   0.0180   0.0020   0.0009   0.0057

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local-Meck County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS      :
0.3767   0.0845   0.2814   0.0867   0.0399   0.0564   0.0056   0.0044
0.0035   0.0127   0.0064   0.0070   0.0251   0.0029   0.0013   0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate-Meck County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3568   0.0793   0.2639   0.0813   0.0374   0.0566   0.0055   0.0045
0.0035   0.0127   0.0149   0.0162   0.0580   0.0029   0.0013   0.0052

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway-Meck County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.3811   0.0847   0.2821   0.0869   0.0399   0.0385   0.0038   0.0031
0.0024   0.0086   0.0101   0.0110   0.0394   0.0020   0.0009   0.0055

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial-Meck County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS      :

```

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.4070 | 0.0904 | 0.3013 | 0.0928 | 0.0427 | 0.0289 | 0.0029 | 0.0023 |
| 0.0018 | 0.0064 | 0.0026 | 0.0028 | 0.0102 | 0.0014 | 0.0007 | 0.0058 |

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban minor arterial-Meck County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.4062 | 0.0902 | 0.3005 | 0.0926 | 0.0426 | 0.0315 | 0.0030 | 0.0025 |
| 0.0020 | 0.0071 | 0.0023 | 0.0025 | 0.0088 | 0.0016 | 0.0007 | 0.0059 |

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector-Meck County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.4070 | 0.0904 | 0.3008 | 0.0927 | 0.0426 | 0.0325 | 0.0032 | 0.0026 |
| 0.0019 | 0.0073 | 0.0018 | 0.0019 | 0.0068 | 0.0017 | 0.0009 | 0.0059 |

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local-Meck County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.4022 | 0.0892 | 0.2969 | 0.0915 | 0.0421 | 0.0388 | 0.0039 | 0.0031 |
| 0.0024 | 0.0088 | 0.0021 | 0.0023 | 0.0082 | 0.0019 | 0.0009 | 0.0057 |

AVERAGE SPEED : 20 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban HOV-Meck County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban HOV mix and speeds

VMT FRACTIONS :

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.4267 | 0.0948 | 0.3156 | 0.0972 | 0.0447 | 0.0000 | 0.0000 | 0.0000 |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0210 | 0.0000 |

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AVERAGE SPEED      : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3712  0.0825  0.2745  0.0846  0.0388  0.0437  0.0043  0.0035
0.0027  0.0098  0.0127  0.0138  0.0493  0.0022  0.0010  0.0054

AVERAGE SPEED      : 37 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3855  0.0856  0.2848  0.0878  0.0403  0.0457  0.0045  0.0037
0.0029  0.0103  0.0067  0.0072  0.0260  0.0024  0.0010  0.0056

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3990  0.0885  0.2948  0.0908  0.0417  0.0364  0.0036  0.0028
0.0022  0.0082  0.0039  0.0043  0.0152  0.0019  0.0009  0.0058

AVERAGE SPEED      : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local-Meck County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
0.3767 0.0845 0.2814 0.0867 0.0399 0.0564 0.0056 0.0044
0.0035 0.0127 0.0064 0.0070 0.0251 0.0029 0.0013 0.0055

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate-Meck County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 41 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway-Meck County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial-Meck County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3013 0.0928 0.0427 0.0289 0.0029 0.0023
0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 23 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.


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BAROMETRIC PRES      : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.4062   0.0902   0.3005   0.0926   0.0426   0.0315   0.0030   0.0025
0.0020   0.0071   0.0023   0.0025   0.0088   0.0016   0.0007   0.0059

AVERAGE SPEED       : 23 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4070   0.0904   0.3008   0.0927   0.0426   0.0325   0.0032   0.0026
0.0019   0.0073   0.0018   0.0019   0.0068   0.0017   0.0009   0.0059

AVERAGE SPEED       : 21 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS       :
0.4022   0.0892   0.2969   0.0915   0.0421   0.0388   0.0039   0.0031
0.0024   0.0088   0.0021   0.0023   0.0082   0.0019   0.0009   0.0057

AVERAGE SPEED       : 18 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban HOV-Meck County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban HOV mix and speeds

VMT FRACTIONS       :
0.4267   0.0948   0.3156   0.0972   0.0447   0.0000   0.0000   0.0000
0.0000   0.0000   0.0000   0.0000   0.0000   0.0000   0.0210   0.0000

AVERAGE SPEED       : 66 Non-Ramp 100.0 0.0 0.0 0.0

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RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principle arterial-Meck County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial-Meck County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector-Meck County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector-Meck County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS        :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED        : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS        :
0.3568  0.0793  0.2639  0.0813  0.0374  0.0566  0.0055  0.0045
0.0035  0.0127  0.0149  0.0162  0.0580  0.0029  0.0013  0.0052

AVERAGE SPEED        : 61 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.3811  0.0847  0.2821  0.0869  0.0399  0.0385  0.0038  0.0031
0.0024  0.0086  0.0101  0.0110  0.0394  0.0020  0.0009  0.0055

AVERAGE SPEED        : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS        :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED        : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED      : 24 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban HOV-Meck County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban HOV mix and speeds

VMT FRACTIONS      :
0.4267  0.0948  0.3156  0.0972  0.0447  0.0000  0.0000  0.0000
0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0210  0.0000

AVERAGE SPEED      : 0 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
END OF RUN          :

```

5.1.11 Rowan 2008 I/M (R2008.IN)

MOBILE6 INPUT FILE :

> Rowan I/M for 2008 using TDM 4 times per day speed
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Rowan NOX VOC
RUN DATA :

***** RUN SECTION *****

FUEL RVP : 9.0
REG DIST : ncage07.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principle arterial- Rowan County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 34 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Rowan County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 55 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

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SCENARIO RECORD      : Rural major collector- Rowan County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS        :
0.3990   0.0885   0.2948   0.0908   0.0417   0.0364   0.0036   0.0028
0.0022   0.0082   0.0039   0.0043   0.0152   0.0019   0.0009   0.0058

AVERAGE SPEED       : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Rowan County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS        :
0.3952   0.0875   0.2913   0.0898   0.0412   0.0401   0.0039   0.0033
0.0025   0.0090   0.0046   0.0050   0.0180   0.0020   0.0009   0.0057

AVERAGE SPEED       : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Rowan County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS        :
0.3767   0.0845   0.2814   0.0867   0.0399   0.0564   0.0056   0.0044
0.0035   0.0127   0.0064   0.0070   0.0251   0.0029   0.0013   0.0055

AVERAGE SPEED       : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Rowan County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS        :
0.3568   0.0793   0.2639   0.0813   0.0374   0.0566   0.0055   0.0045
0.0035   0.0127   0.0149   0.0162   0.0580   0.0029   0.0013   0.0052

AVERAGE SPEED       : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Rowan County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

```

VTM FRACTIONS :
0.4070 0.0904 0.3013 0.0928 0.0427 0.0289 0.0029 0.0023
0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban minor arterial- Rowan County - AM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VTM FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector- Rowan County - AM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban collector mix and speeds

VTM FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local- Rowan County - AM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

VTM FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principle arterial- Rowan County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VTM FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Rowan County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 59 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Rowan County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 55 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Rowan County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Rowan County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
0.3767 0.0845 0.2814 0.0867 0.0399 0.0564 0.0056 0.0044
0.0035 0.0127 0.0064 0.0070 0.0251 0.0029 0.0013 0.0055

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Rowan County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMF FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban principle arterial- Rowan County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.4070 0.0904 0.3013 0.0928 0.0427 0.0289 0.0029 0.0023
0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban minor arterial- Rowan County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector- Rowan County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban collector mix and speeds

VMF FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local- Rowan County - Midday

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban local mix and speeds

VMF FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

```

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

SCENARIO RECORD     : Rural principle arterial- Rowan County - PM
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3712  0.0825  0.2745  0.0846  0.0388  0.0437  0.0043  0.0035
0.0027  0.0098  0.0127  0.0138  0.0493  0.0022  0.0010  0.0054

AVERAGE SPEED      : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

SCENARIO RECORD     : Rural minor arterial- Rowan County - PM
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3855  0.0856  0.2848  0.0878  0.0403  0.0457  0.0045  0.0037
0.0029  0.0103  0.0067  0.0072  0.0260  0.0024  0.0010  0.0056

AVERAGE SPEED      : 54 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

SCENARIO RECORD     : Rural major collector- Rowan County - PM
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3990  0.0885  0.2948  0.0908  0.0417  0.0364  0.0036  0.0028
0.0022  0.0082  0.0039  0.0043  0.0152  0.0019  0.0009  0.0058

AVERAGE SPEED      : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

SCENARIO RECORD     : Rural minor collector- Rowan County - PM
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Rowan County - PM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                   53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Rowan County - PM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568  0.0793  0.2639  0.0813  0.0374  0.0566  0.0055  0.0045
0.0035  0.0127  0.0149  0.0162  0.0580  0.0029  0.0013  0.0052

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                   53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial- Rowan County - PM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                   53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Rowan County - PM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                   53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Rowan County - PM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

```

VMT FRACTIONS :
 0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
 0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

 AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

 RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local- Rowan County - PM
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
 0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
 0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

 AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0

 RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principle arterial- Rowan County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
 0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
 0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

 AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

 RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Rowan County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
 0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
 0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

 AVERAGE SPEED : 61 Arterial 0.0 100.0 0.0 0.0

 RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector- Rowan County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
 0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
 0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

 AVERAGE SPEED : 57 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector- Rowan County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
 0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

AVERAGE SPEED : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local- Rowan County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
 0.3767 0.0845 0.2814 0.0867 0.0399 0.0564 0.0056 0.0044
 0.0035 0.0127 0.0064 0.0070 0.0251 0.0029 0.0013 0.0055

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate- Rowan County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
 0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 61 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial- Rowan County - Nite
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
 0.4070 0.0904 0.3013 0.0928 0.0427 0.0289 0.0029 0.0023
 0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial- Rowan County - Nite
 CALENDAR YEAR : 2008

```

EVALUATION MONTH      : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS          :
0.4062   0.0902   0.3005   0.0926   0.0426   0.0315   0.0030   0.0025
0.0020   0.0071   0.0023   0.0025   0.0088   0.0016   0.0007   0.0059

AVERAGE SPEED          : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Urban collector- Rowan County - Nite
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Urban collector mix and speeds

VMT FRACTIONS          :
0.4070   0.0904   0.3008   0.0927   0.0426   0.0325   0.0032   0.0026
0.0019   0.0073   0.0018   0.0019   0.0068   0.0017   0.0009   0.0059

AVERAGE SPEED          : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD          : Urban local- Rowan County - Nite
CALENDAR YEAR            : 2008
EVALUATION MONTH         : 7

> Urban local mix and speeds

VMT FRACTIONS          :
0.4022   0.0892   0.2969   0.0915   0.0421   0.0388   0.0039   0.0031
0.0024   0.0088   0.0021   0.0023   0.0082   0.0019   0.0009   0.0057

AVERAGE SPEED          : 25 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES         : 30
END OF RUN              :

```

5.1.12 Rowan 2008 Non-I/M (R2008N.IN)

MOBILE6 INPUT FILE :

> Rowan NON-I/M for 2008 using TDM 4 times per day speed
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Rowan NOX VOC
RUN DATA :

***** RUN SECTION *****

FUEL RVP : 9.0
REG DIST : ncage07.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principle arterial- Rowan County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 34 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Rowan County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 55 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector- Rowan County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Rowan County - AM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Rowan County - AM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Rowan County - AM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568  0.0793  0.2639  0.0813  0.0374  0.0566  0.0055  0.0045
0.0035  0.0127  0.0149  0.0162  0.0580  0.0029  0.0013  0.0052

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial- Rowan County - AM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Rowan County - AM
CALENDAR YEAR   : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025

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0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Rowan County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Rowan County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principle arterial- Rowan County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Rowan County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 59 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Rowan County - Midday
CALENDAR YEAR : 2008

```

EVALUATION MONTH      : 7

> Rural major collector mix and speeds

VMT FRACTIONS          :
0.3990   0.0885   0.2948   0.0908   0.0417   0.0364   0.0036   0.0028
0.0022   0.0082   0.0039   0.0043   0.0152   0.0019   0.0009   0.0058

AVERAGE SPEED          : 55 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD         : Rural minor collector- Rowan County - Midday
CALENDAR YEAR           : 2008
EVALUATION MONTH        : 7

> Rural minor collector mix and speeds

VMT FRACTIONS          :
0.3952   0.0875   0.2913   0.0898   0.0412   0.0401   0.0039   0.0033
0.0025   0.0090   0.0046   0.0050   0.0180   0.0020   0.0009   0.0057

AVERAGE SPEED          : 49 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD         : Rural local- Rowan County - Midday
CALENDAR YEAR           : 2008
EVALUATION MONTH        : 7

> Rural local mix and speeds

VMT FRACTIONS          :
0.3767   0.0845   0.2814   0.0867   0.0399   0.0564   0.0056   0.0044
0.0035   0.0127   0.0064   0.0070   0.0251   0.0029   0.0013   0.0055

AVERAGE SPEED          : 28 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD         : Urban interstate- Rowan County - Midday
CALENDAR YEAR           : 2008
EVALUATION MONTH        : 7

> Urban interstate mix and speeds

VMT FRACTIONS          :
0.3568   0.0793   0.2639   0.0813   0.0374   0.0566   0.0055   0.0045
0.0035   0.0127   0.0149   0.0162   0.0580   0.0029   0.0013   0.0052

AVERAGE SPEED          : 60 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD         : Urban principle arterial- Rowan County - Midday
CALENDAR YEAR           : 2008
EVALUATION MONTH        : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS          :
0.4070   0.0904   0.3013   0.0928   0.0427   0.0289   0.0029   0.0023
0.0018   0.0064   0.0026   0.0028   0.0102   0.0014   0.0007   0.0058

AVERAGE SPEED          : 37 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Rowan County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

MT FRACTIONS        :
0.4062   0.0902   0.3005   0.0926   0.0426   0.0315   0.0030   0.0025
0.0020   0.0071   0.0023   0.0025   0.0088   0.0016   0.0007   0.0059

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Rowan County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4070   0.0904   0.3008   0.0927   0.0426   0.0325   0.0032   0.0026
0.0019   0.0073   0.0018   0.0019   0.0068   0.0017   0.0009   0.0059

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Rowan County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS       :
0.4022   0.0892   0.2969   0.0915   0.0421   0.0388   0.0039   0.0031
0.0024   0.0088   0.0021   0.0023   0.0082   0.0019   0.0009   0.0057

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial- Rowan County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3712   0.0825   0.2745   0.0846   0.0388   0.0437   0.0043   0.0035
0.0027   0.0098   0.0127   0.0138   0.0493   0.0022   0.0010   0.0054

AVERAGE SPEED      : 44 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Rowan County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3855   0.0856   0.2848   0.0878   0.0403   0.0457   0.0045   0.0037

```

0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 54 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector- Rowan County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :

0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector- Rowan County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :

0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local- Rowan County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural local mix and speeds

VMT FRACTIONS :

0.3767 0.0845 0.2814 0.0867 0.0399 0.0564 0.0056 0.0044
0.0035 0.0127 0.0064 0.0070 0.0251 0.0029 0.0013 0.0055

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban interstate- Rowan County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Urban interstate mix and speeds

VMT FRACTIONS :

0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban principle arterial- Rowan County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

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> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4070   0.0904   0.3013   0.0928   0.0427   0.0289   0.0029   0.0023
0.0018   0.0064   0.0026   0.0028   0.0102   0.0014   0.0007   0.0058

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Rowan County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4062   0.0902   0.3005   0.0926   0.0426   0.0315   0.0030   0.0025
0.0020   0.0071   0.0023   0.0025   0.0088   0.0016   0.0007   0.0059

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Rowan County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4070   0.0904   0.3008   0.0927   0.0426   0.0325   0.0032   0.0026
0.0019   0.0073   0.0018   0.0019   0.0068   0.0017   0.0009   0.0059

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Rowan County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4022   0.0892   0.2969   0.0915   0.0421   0.0388   0.0039   0.0031
0.0024   0.0088   0.0021   0.0023   0.0082   0.0019   0.0009   0.0057

AVERAGE SPEED      : 25 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial- Rowan County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS      :
0.3712   0.0825   0.2745   0.0846   0.0388   0.0437   0.0043   0.0035
0.0027   0.0098   0.0127   0.0138   0.0493   0.0022   0.0010   0.0054

AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                    : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD      : Rural minor arterial- Rowan County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3855   0.0856   0.2848   0.0878   0.0403   0.0457   0.0045   0.0037
0.0029   0.0103   0.0067   0.0072   0.0260   0.0024   0.0010   0.0056

AVERAGE SPEED       : 61 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Rowan County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3990   0.0885   0.2948   0.0908   0.0417   0.0364   0.0036   0.0028
0.0022   0.0082   0.0039   0.0043   0.0152   0.0019   0.0009   0.0058

AVERAGE SPEED       : 57 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Rowan County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3952   0.0875   0.2913   0.0898   0.0412   0.0401   0.0039   0.0033
0.0025   0.0090   0.0046   0.0050   0.0180   0.0020   0.0009   0.0057

AVERAGE SPEED       : 50 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Rowan County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS       :
0.3767   0.0845   0.2814   0.0867   0.0399   0.0564   0.0056   0.0044
0.0035   0.0127   0.0064   0.0070   0.0251   0.0029   0.0013   0.0055

AVERAGE SPEED       : 28 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Rowan County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568   0.0793   0.2639   0.0813   0.0374   0.0566   0.0055   0.0045
0.0035   0.0127   0.0149   0.0162   0.0580   0.0029   0.0013   0.0052

AVERAGE SPEED       : 61 Non-Ramp 100.0 0.0 0.0 0.0

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RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial- Rowan County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3013 0.0928 0.0427 0.0289 0.0029 0.0023
0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Rowan County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Rowan County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Rowan County - Nite
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 25 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
END OF RUN :

5.1.13 Union 2008 I/M (U2008.IN)

MOBILE6 INPUT FILE :

> Union I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Union NOX VOC
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0
REG DIST : ncage07.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

> OBDII

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Union County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Union County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****


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SCENARIO RECORD      : Rural major collector- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3990   0.0885   0.2948   0.0908   0.0417   0.0364   0.0036   0.0028
0.0022   0.0082   0.0039   0.0043   0.0152   0.0019   0.0009   0.0058

AVERAGE SPEED       : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3952   0.0875   0.2913   0.0898   0.0412   0.0401   0.0039   0.0033
0.0025   0.0090   0.0046   0.0050   0.0180   0.0020   0.0009   0.0057

AVERAGE SPEED       : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS       :
0.3767   0.0845   0.2814   0.0867   0.0399   0.0564   0.0056   0.0044
0.0035   0.0127   0.0064   0.0070   0.0251   0.0029   0.0013   0.0055

AVERAGE SPEED       : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811   0.0847   0.2821   0.0869   0.0399   0.0385   0.0038   0.0031
0.0024   0.0086   0.0101   0.0110   0.0394   0.0020   0.0009   0.0055

AVERAGE SPEED       : 29 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED      : 26 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial- Union County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

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VTM FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 48 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Union County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VTM FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 54 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Union County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VTM FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Union County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VTM FRACTIONS :
0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Union County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural local mix and speeds

VTM FRACTIONS :
0.3767 0.0845 0.2814 0.0867 0.0399 0.0564 0.0056 0.0044

```

0.0035    0.0127    0.0064    0.0070    0.0251    0.0029    0.0013    0.0055

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Union County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811    0.0847    0.2821    0.0869    0.0399    0.0385    0.0038    0.0031
0.0024    0.0086    0.0101    0.0110    0.0394    0.0020    0.0009    0.0055

AVERAGE SPEED      : 38 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Union County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.4070    0.0904    0.3013    0.0928    0.0427    0.0289    0.0029    0.0023
0.0018    0.0064    0.0026    0.0028    0.0102    0.0014    0.0007    0.0058

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Union County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.4062    0.0902    0.3005    0.0926    0.0426    0.0315    0.0030    0.0025
0.0020    0.0071    0.0023    0.0025    0.0088    0.0016    0.0007    0.0059

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Union County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4070    0.0904    0.3008    0.0927    0.0426    0.0325    0.0032    0.0026
0.0019    0.0073    0.0018    0.0019    0.0068    0.0017    0.0009    0.0059

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Union County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031
0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Union County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 43 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Union County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Union County - PM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.

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53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS        :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED        : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS        :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED        : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.3811  0.0847  0.2821  0.0869  0.0399  0.0385  0.0038  0.0031
0.0024  0.0086  0.0101  0.0110  0.0394  0.0020  0.0009  0.0055

AVERAGE SPEED        : 29 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS        :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED        : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD      : Urban minor arterial- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.4062   0.0902   0.3005   0.0926   0.0426   0.0315   0.0030   0.0025
0.0020   0.0071   0.0023   0.0025   0.0088   0.0016   0.0007   0.0059

AVERAGE SPEED       : 26 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4070   0.0904   0.3008   0.0927   0.0426   0.0325   0.0032   0.0026
0.0019   0.0073   0.0018   0.0019   0.0068   0.0017   0.0009   0.0059

AVERAGE SPEED       : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS       :
0.4022   0.0892   0.2969   0.0915   0.0421   0.0388   0.0039   0.0031
0.0024   0.0088   0.0021   0.0023   0.0082   0.0019   0.0009   0.0057

AVERAGE SPEED       : 26 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3712   0.0825   0.2745   0.0846   0.0388   0.0437   0.0043   0.0035
0.0027   0.0098   0.0127   0.0138   0.0493   0.0022   0.0010   0.0054

AVERAGE SPEED       : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3855  0.0856  0.2848  0.0878  0.0403  0.0457  0.0045  0.0037
0.0029  0.0103  0.0067  0.0072  0.0260  0.0024  0.0010  0.0056

AVERAGE SPEED      : 57 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3990  0.0885  0.2948  0.0908  0.0417  0.0364  0.0036  0.0028
0.0022  0.0082  0.0039  0.0043  0.0152  0.0019  0.0009  0.0058

AVERAGE SPEED      : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS      :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.3811  0.0847  0.2821  0.0869  0.0399  0.0385  0.0038  0.0031
0.0024  0.0086  0.0101  0.0110  0.0394  0.0020  0.0009  0.0055

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AVERAGE SPEED      : 47 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS       :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.
BAROMETRIC PRES     : 30
END OF RUN          :

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5.1.14 Union 2008 Non-I/M (U2008N.IN)

MOBILE6 INPUT FILE :

> Union NON-I/M for 2008 using TDM 4 times per day speeds
> with DAQ generated CLT 2008 (from 2007 data) vehicle Mix, updated Oct 2009.

POLLUTANTS : NOX HC
SPREADSHEET : Union NOX VOC
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0
REG DIST : ncage07.prn

HOURLY TEMPERATURES: 71.0 73.8 77.0 80.3 82.5 85.4 87.3 88.5 89.1 88.5 89.6 89.2
86.3 82.6 77.8 77.5 76.2 75.9 75.0 74.0 73.2 82.3 71.6 71.0

> OBDII

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Union County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Union County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Union County - AM
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS        :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED        : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS        :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED        : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.3811  0.0847  0.2821  0.0869  0.0399  0.0385  0.0038  0.0031
0.0024  0.0086  0.0101  0.0110  0.0394  0.0020  0.0009  0.0055

AVERAGE SPEED        : 29 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS        :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED        : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      : 53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD      : Urban minor arterial- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.4062   0.0902   0.3005   0.0926   0.0426   0.0315   0.0030   0.0025
0.0020   0.0071   0.0023   0.0025   0.0088   0.0016   0.0007   0.0059

AVERAGE SPEED       : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4070   0.0904   0.3008   0.0927   0.0426   0.0325   0.0032   0.0026
0.0019   0.0073   0.0018   0.0019   0.0068   0.0017   0.0009   0.0059

AVERAGE SPEED       : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Union County - AM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS       :
0.4022   0.0892   0.2969   0.0915   0.0421   0.0388   0.0039   0.0031
0.0024   0.0088   0.0021   0.0023   0.0082   0.0019   0.0009   0.0057

AVERAGE SPEED       : 26 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial- Union County - Midday
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3712   0.0825   0.2745   0.0846   0.0388   0.0437   0.0043   0.0035
0.0027   0.0098   0.0127   0.0138   0.0493   0.0022   0.0010   0.0054

AVERAGE SPEED       : 48 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Union County - Midday
CALENDAR YEAR        : 2008

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EVALUATION MONTH      : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS          :
0.3855   0.0856   0.2848   0.0878   0.0403   0.0457   0.0045   0.0037
0.0029   0.0103   0.0067   0.0072   0.0260   0.0024   0.0010   0.0056

AVERAGE SPEED          : 54 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD         : Rural major collector- Union County - Midday
CALENDAR YEAR           : 2008
EVALUATION MONTH        : 7

> Rural major collector mix and speeds

VMT FRACTIONS          :
0.3990   0.0885   0.2948   0.0908   0.0417   0.0364   0.0036   0.0028
0.0022   0.0082   0.0039   0.0043   0.0152   0.0019   0.0009   0.0058

AVERAGE SPEED          : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD         : Rural minor collector- Union County - Midday
CALENDAR YEAR           : 2008
EVALUATION MONTH        : 7

> Rural minor collector mix and speeds

VMT FRACTIONS          :
0.3952   0.0875   0.2913   0.0898   0.0412   0.0401   0.0039   0.0033
0.0025   0.0090   0.0046   0.0050   0.0180   0.0020   0.0009   0.0057

AVERAGE SPEED          : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD         : Rural local- Union County - Midday
CALENDAR YEAR           : 2008
EVALUATION MONTH        : 7

> Rural local mix and speeds

VMT FRACTIONS          :
0.3767   0.0845   0.2814   0.0867   0.0399   0.0564   0.0056   0.0044
0.0035   0.0127   0.0064   0.0070   0.0251   0.0029   0.0013   0.0055

AVERAGE SPEED          : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY       : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                        53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES         : 30
***** SCENARIO SECTION *****
SCENARIO RECORD         : Urban freeway- Union County - Midday
CALENDAR YEAR           : 2008
EVALUATION MONTH        : 7

> Urban freeway mix and speeds

```

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 38 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial- Union County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3013 0.0928 0.0427 0.0289 0.0029 0.0023
0.0018 0.0064 0.0026 0.0028 0.0102 0.0014 0.0007 0.0058

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Union County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4062 0.0902 0.3005 0.0926 0.0426 0.0315 0.0030 0.0025
0.0020 0.0071 0.0023 0.0025 0.0088 0.0016 0.0007 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Union County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban collector mix and speeds

VMT FRACTIONS :
0.4070 0.0904 0.3008 0.0927 0.0426 0.0325 0.0032 0.0026
0.0019 0.0073 0.0018 0.0019 0.0068 0.0017 0.0009 0.0059

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Union County - Midday
CALENDAR YEAR : 2008
EVALUATION MONTH : 7

> Urban local mix and speeds

VMT FRACTIONS :
0.4022 0.0892 0.2969 0.0915 0.0421 0.0388 0.0039 0.0031

0.0024 0.0088 0.0021 0.0023 0.0082 0.0019 0.0009 0.0057

AVERAGE SPEED : 27 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural principle arterial- Union County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS :

0.3712 0.0825 0.2745 0.0846 0.0388 0.0437 0.0043 0.0035
0.0027 0.0098 0.0127 0.0138 0.0493 0.0022 0.0010 0.0054

AVERAGE SPEED : 43 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Union County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS :

0.3855 0.0856 0.2848 0.0878 0.0403 0.0457 0.0045 0.0037
0.0029 0.0103 0.0067 0.0072 0.0260 0.0024 0.0010 0.0056

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector- Union County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural major collector mix and speeds

VMT FRACTIONS :

0.3990 0.0885 0.2948 0.0908 0.0417 0.0364 0.0036 0.0028
0.0022 0.0082 0.0039 0.0043 0.0152 0.0019 0.0009 0.0058

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector- Union County - PM

CALENDAR YEAR : 2008

EVALUATION MONTH : 7

> Rural minor collector mix and speeds

VMT FRACTIONS :

0.3952 0.0875 0.2913 0.0898 0.0412 0.0401 0.0039 0.0033
0.0025 0.0090 0.0046 0.0050 0.0180 0.0020 0.0009 0.0057

```

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS       :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811  0.0847  0.2821  0.0869  0.0399  0.0385  0.0038  0.0031
0.0024  0.0086  0.0101  0.0110  0.0394  0.0020  0.0009  0.0055

AVERAGE SPEED      : 29 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED      : 26 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.

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53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS        :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED        : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Union County - PM
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS        :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED        : 26 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural other principle arterial mix and speeds

VMT FRACTIONS        :
0.3712  0.0825  0.2745  0.0846  0.0388  0.0437  0.0043  0.0035
0.0027  0.0098  0.0127  0.0138  0.0493  0.0022  0.0010  0.0054

AVERAGE SPEED        : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor arterial mix and speeds

VMT FRACTIONS        :
0.3855  0.0856  0.2848  0.0878  0.0403  0.0457  0.0045  0.0037
0.0029  0.0103  0.0067  0.0072  0.0260  0.0024  0.0010  0.0056

AVERAGE SPEED        : 57 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                      53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural major collector mix and speeds

VMT FRACTIONS        :
0.3990  0.0885  0.2948  0.0908  0.0417  0.0364  0.0036  0.0028
0.0022  0.0082  0.0039  0.0043  0.0152  0.0019  0.0009  0.0058

AVERAGE SPEED        : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                       53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural minor collector mix and speeds

VMT FRACTIONS        :
0.3952  0.0875  0.2913  0.0898  0.0412  0.0401  0.0039  0.0033
0.0025  0.0090  0.0046  0.0050  0.0180  0.0020  0.0009  0.0057

AVERAGE SPEED        : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                       53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Rural local mix and speeds

VMT FRACTIONS        :
0.3767  0.0845  0.2814  0.0867  0.0399  0.0564  0.0056  0.0044
0.0035  0.0127  0.0064  0.0070  0.0251  0.0029  0.0013  0.0055

AVERAGE SPEED        : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                       53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.3811  0.0847  0.2821  0.0869  0.0399  0.0385  0.0038  0.0031
0.0024  0.0086  0.0101  0.0110  0.0394  0.0020  0.0009  0.0055

AVERAGE SPEED        : 47 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                       53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial- Union County - Nite

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CALENDAR YEAR      : 2008
EVALUATION MONTH   : 7

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3013  0.0928  0.0427  0.0289  0.0029  0.0023
0.0018  0.0064  0.0026  0.0028  0.0102  0.0014  0.0007  0.0058

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4062  0.0902  0.3005  0.0926  0.0426  0.0315  0.0030  0.0025
0.0020  0.0071  0.0023  0.0025  0.0088  0.0016  0.0007  0.0059

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4070  0.0904  0.3008  0.0927  0.0426  0.0325  0.0032  0.0026
0.0019  0.0073  0.0018  0.0019  0.0068  0.0017  0.0009  0.0059

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Union County - Nite
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

> Urban local mix and speeds

VMT FRACTIONS      :
0.4022  0.0892  0.2969  0.0915  0.0421  0.0388  0.0039  0.0031
0.0024  0.0088  0.0021  0.0023  0.0082  0.0019  0.0009  0.0057

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 91. 86. 78. 71. 65. 59. 53. 50. 48. 51. 47. 47.
                     53. 61. 70. 71. 76. 77. 79. 83. 85. 87. 88. 91.

BAROMETRIC PRES     : 30

END OF RUN          :

```

5.2 MOBILE Output Files

5.2.1 Cabarrus 2008 I/M (C2008.TXT)

```
*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: C2008.IN (file 1, run 1).
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII
* # # # # # # # # # # # # # # # #
* Rural principle arterial- Cabarrus County - AM
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # #
```

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external data file: TECH12.D

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |

VMT Distribution:

0.3708 0.3569 0.1216

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.905 | 1.501 | 1.216 | 1.428 | 1.288 | 0.334 | 0.477 | 0.308 | 2.99 | 1.120 |
| Composite NOX : | 0.591 | 0.920 | 0.944 | 0.926 | 3.312 | 0.881 | 0.933 | 8.977 | 1.16 | 1.725 |

* * * * *

* Rural minor arterial- Cabarrus County - AM

* File 1, Run 1, Scenario 2.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

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```
* * * * *
* Rural major collector- Cabarrus County - AM
* File 1, Run 1, Scenario 3.
* * * * *
* Rural major collector mix and speeds
```

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.

there are no sales for vehicle class HDGV8b

Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGTL34 | LDGT | HDGT | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|---------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |

VMT Distribution: 0.3986 0.3832 0.1306 0.0330 0.0004 0.0020 0.0464 0.0058 1.0000

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.939 | 1.541 | 1.249 | 1.467 | 1.342 | 0.348 | 0.499 | 0.299 | 3.03 | 1.205 |
| Composite NOX : | 0.581 | 0.902 | 0.927 | 0.909 | 3.155 | 0.800 | 0.847 | 6.379 | 1.11 | 1.107 |

* # # # # # # # # # # # # # # # # # # #
 * Rural minor collector- Cabarrus County - AM
 * File 1, Run 1, Scenario 4.
 * # # # # # # # # # # # # # # # # # # #
 * Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

Composite VOC : 1.067 1.695 1.379 1.615 1.679 0.423 0.612 0.429 3.39 1.331
Composite NOX : 0.603 0.912 0.939 0.919 2.811 0.770 0.815 6.189 1.01 1.288

* #
* Urban interstate- Cabarrus County - AM
* File 1, Run 1, Scenario 6.
* #
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning: The user supplied freeway average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3564 | 0.3431 | 0.1170 | | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.951 | 1.555 | 1.260 | 1.480 | 1.383 | 0.355 | 0.509 | 0.345 | 3.06 | 1.152 |
| Composite NOX : | 0.578 | 0.896 | 0.922 | 0.903 | 3.124 | 0.781 | 0.827 | 7.964 | 1.10 | 1.779 |
| ----- | | | | | | | | | | |

* #
* Urban principle arterial- Cabarrus County - AM
* File 1, Run 1, Scenario 7.
* #
* Urban principle arterial mix and speeds

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* * * * *
* * Urban minor arterial- Cabarrus County - AM
* * File 1, Run 1, Scenario 8.
* * * * *
* * Urban minor arterial mix and speeds
* * * * *

```

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 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.

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.055 | 1.680 | 1.366 | 1.600 | 1.640 | 0.416 | 0.601 | 0.391 | 3.35 | 1.347 |
| Composite NOX : | 0.597 | 0.905 | 0.932 | 0.912 | 2.829 | 0.764 | 0.809 | 5.687 | 1.02 | 0.999 |

* * * * *
* Urban collector- Cabarrus County - AM
* File 1, Run 1, Scenario 9.
* * * * *
* Urban collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

| | |
|----------------------|---------|
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.055 | 1.680 | 1.366 | 1.600 | 1.638 | 0.416 | 0.601 | 0.376 | 3.35 | 1.349 |
| Composite NOX : | 0.597 | 0.905 | 0.932 | 0.912 | 2.827 | 0.764 | 0.809 | 5.456 | 1.02 | 0.983 |


```

* # # # # # # # # # # # # # # # # # #
* Urban local- Cabarrus County - AM
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.

M583 Warning:
    The user supplied arterial average speed of 25.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b
  
```


| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.910 | 1.507 | 1.221 | 1.435 | 1.284 | 0.336 | 0.480 | 0.277 | 3.00 | 1.174 |
| Composite NOX : | 0.589 | 0.917 | 0.941 | 0.923 | 3.270 | 0.866 | 0.917 | 6.915 | 1.15 | 1.147 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural minor collector- Cabarrus County - Midday
* File 1, Run 1, Scenario 14.
* # # # # # # # # # # # # # # # # # #
* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

| | | | | | | | | | | |
|--|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| Exhaust I/M Program: Yes | | | | | | | | | | |
| Evap I/M Program: Yes | | | | | | | | | | |
| ATP Program: Yes | | | | | | | | | | |
| Reformulated Gas: No | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.067 | 1.695 | 1.379 | 1.615 | 1.679 | 0.423 | 0.612 | 0.429 | 3.39 | 1.331 |
| Composite NOX : | 0.603 | 0.912 | 0.939 | 0.919 | 2.811 | 0.770 | 0.815 | 6.189 | 1.01 | 1.288 |
| * * * * * | | | | | | | | | | |
| * Urban interstate- Cabarrus County - Midday | | | | | | | | | | |
| * File 1, Run 1, Scenario 16. | | | | | | | | | | |
| * * * * * | | | | | | | | | | |
| * Urban 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: 71.0 (F) | | | | | | | | | | |
| Maximum Temperature: 89.6 (F) | | | | | | | | | | |
| Minimum Rel. Hum.: 47.0 (%) | | | | | | | | | | |
| Maximum Rel. Hum.: 91.0 (%) | | | | | | | | | | |
| Barometric Pressure: 30.00 (inches Hg) | | | | | | | | | | |
| Nominal Fuel RVP: 9.0 psi | | | | | | | | | | |
| Weathered RVP: 8.6 psi | | | | | | | | | | |
| Fuel Sulfur Content: 30. ppm | | | | | | | | | | |
| Exhaust I/M Program: Yes | | | | | | | | | | |
| Evap I/M Program: Yes | | | | | | | | | | |
| ATP Program: Yes | | | | | | | | | | |
| Reformulated Gas: No | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |

* #
 * Urban minor arterial- Cabarrus County - Midday
 * File 1, Run 1, Scenario 18.
 * #
 * Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.044 | 1.666 | 1.354 | 1.587 | 1.607 | 0.409 | 0.591 | 0.380 | 3.32 | 1.334 |
| Composite NOX : | 0.592 | 0.899 | 0.926 | 0.906 | 2.848 | 0.758 | 0.803 | 5.644 | 1.03 | 0.993 |

* #
 * Urban collector- Cabarrus County - Midday
 * File 1, Run 1, Scenario 19.
 * #
 * 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | 0.4066 | 0.3911 | 0.1333 | >6000 | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.032 | 1.652 | 1.342 | 1.573 | 1.575 | 0.402 | 0.581 | 0.355 | 3.29 | 1.323 |
| Composite NOX : | 0.587 | 0.895 | 0.922 | 0.902 | 2.872 | 0.757 | 0.801 | 5.404 | 1.04 | 0.973 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban local- Cabarrus County - Midday
* File 1, Run 1, Scenario 20.
* # # # # # # # # # # # # # # # # # #
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.408 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.052 |
| ----- | | | | | | | | | | |

* * * * *
 * Rural principle arterial- Cabarrus County - PM
 * File 1, Run 1, Scenario 21.
 * * * * *
 * Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |

VTM Distribution: 0.3708 0.3569 0.1216 0.0404 0.0004 0.0019 0.1026 0.0054 1.0000

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.905 | 1.501 | 1.216 | 1.428 | 1.288 | 0.334 | 0.477 | 0.308 | 2.99 | 1.120 |
| Composite NOX : | 0.591 | 0.920 | 0.944 | 0.926 | 3.312 | 0.881 | 0.933 | 8.977 | 1.16 | 1.725 |

- * * * * *
 * Rural minor arterial- Cabarrus County - PM
 * File 1, Run 1, Scenario 22.
 * * * * *
 * 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |

VTM Distribution: 0.3851 0.3703 0.1262 0.0417 0.0004 0.0019 0.0687 0.0056 1.0000

* #
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.951 | 1.555 | 1.260 | 1.480 | 1.370 | 0.355 | 0.509 | 0.312 | 3.06 | 1.212 |
| Composite NOX : | 0.578 | 0.896 | 0.922 | 0.903 | 3.108 | 0.781 | 0.827 | 6.276 | 1.10 | 1.140 |

* #
* Rural local- Cabarrus County - PM
* File 1, Run 1, Scenario 25.
* #
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.067 | 1.695 | 1.379 | 1.615 | 1.679 | 0.423 | 0.612 | 0.429 | 3.39 | 1.331 |
| Composite NOX : | 0.603 | 0.912 | 0.939 | 0.919 | 2.811 | 0.770 | 0.815 | 6.189 | 1.01 | 1.288 |
| ----- | | | | | | | | | | |

* * * * *
* Urban interstate- Cabarrus County - PM
* File 1, Run 1, Scenario 26.
* * * * *
* Urban interstate 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3564 | 0.3431 | 0.1170 | | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.963 | 1.569 | 1.272 | 1.494 | 1.415 | 0.362 | 0.520 | 0.359 | 3.09 | 1.166 |
| Composite NOX : | 0.576 | 0.891 | 0.917 | 0.898 | 3.078 | 0.767 | 0.812 | 7.842 | 1.09 | 1.758 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
* Urban principle arterial- Cabarrus County - PM
* File 1, Run 1, Scenario 27.
* # # # # # # # # # # # # # # # # # # #
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial- Cabarrus County - PM
* File 1, Run 1, Scenario 28.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial mix and speeds
M615 Comment:
```

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

| | Altitude: | Low |
|----------------------|-----------|------------|
| Minimum Temperature: | | 71.0 (F) |
| Maximum Temperature: | | 89.6 (F) |
| Minimum Rel. Hum.: | | 47.0 (%) |
| Maximum Rel. Hum.: | | 91.0 (%) |
| Barometric Pressure: | | 30.00 (in) |
| 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 | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.095 | 1.728 | 1.407 | 1.646 | 1.753 | 0.439 | 0.637 | 0.429 | 3.47 | 1.393 |

Composite NOX : 0.617 0.926 0.955 0.934 2.760 0.783 0.829 5.835 0.99 1.022

* * * * *
* Urban collector- Cabarrus County - PM
* File 1, Run 1, Scenario 29.
* * * * *
* * * * *
* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 27.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.4066 0.3911 0.1333 0.0293 1.710 0.431 0.624 0.0313 0.0059 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 1.081 1.711 1.392 1.630 2.783 0.777 0.822 0.399 3.43 1.378

Composite NOX : 0.610 0.919 0.947 0.926 2.783 0.777 0.822 5.548 1.00 0.997

* * * * *
* Urban local- Cabarrus County - PM
* File 1, Run 1, Scenario 30.
* * * * *
* * * * *
* Urban local mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.127 | 1.769 | 1.441 | 1.685 | 1.841 | 0.457 | 0.664 | 0.439 | 3.55 | 1.428 |
| Composite NOX : | 0.633 | 0.943 | 0.973 | 0.951 | 2.711 | 0.801 | 0.848 | 5.692 | 0.97 | 1.062 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural principle arterial- Cabarrus County - Nite
* File 1, Run 1, Scenario 31.
* # # # # # # # # # # # # # # # # # #
* 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | ----- | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.872 | 1.454 | 1.177 | 1.384 | 1.235 | 0.324 | 0.463 | 0.290 | 3.07 | 1.083 |
| Composite NOX : | 0.603 | 0.941 | 0.964 | 0.947 | 3.474 | 1.053 | 1.117 | 10.555 | 1.32 | 1.910 |
| ----- | | | | | | | | | | |

* * * * *
 * Rural minor arterial- Cabarrus County - Nite
 * File 1, Run 1, Scenario 32.
 * * * * *
 * Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi

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* * * * *
 * Rural local- Cabarrus County - Nite
 * File 1, Run 1, Scenario 35.
 * * * * *
 * Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.081 | 1.711 | 1.392 | 1.630 | 1.716 | 0.431 | 0.624 | 0.442 | 3.43 | 1.347 |
| Composite NOX : | 0.610 | 0.919 | 0.947 | 0.926 | 2.788 | 0.777 | 0.822 | 6.242 | 1.00 | 1.296 |

* * * * *
 * Urban interstate- Cabarrus County - Nite
 * File 1, Run 1, Scenario 36.
 * * * * *
 * Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M 96 Warning:

68.0 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------------|------|-----|------|------|----|---------|
|---------------|------|--------|--------|------------|------|-----|------|------|----|---------|

| | | | | | | | | | | |
|-------|--|-------|-------|--|--|--|--|--|--|--|
| GVWR: | | <6000 | >6000 | | | | | | | |
|-------|--|-------|-------|--|--|--|--|--|--|--|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3564 | 0.3431 | 0.1170 | | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.842 | 1.409 | 1.139 | 1.341 | 1.207 | 0.321 | 0.459 | 0.282 | 3.71 | 1.035 |
| Composite NOX : | 0.619 | 0.970 | 0.992 | 0.976 | 3.678 | 1.451 | 1.540 | 14.038 | 1.54 | 2.613 |

* # # # # # # # # # # # # # # # # # #
 * Urban principle arterial- Cabarrus County - Nite
 * File 1, Run 1, Scenario 37.
 * # # # # # # # # # # # # # # # # # #
 * 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

Calendar Year: 2008

```
* * * * *
* Urban minor arterial- Cabarrus County - Nite
* File 1, Run 1, Scenario 38.
* * * * *
* Urban minor arterial mix and speeds
* M615 Comment:
```

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |

```

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 <6000 -----
VMT Distribution: 0.4058 0.3906 0.1332 0.0021 0.0335 0.0059 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.970 1.577 1.279 1.501 1.416 0.366 0.526 0.311 1.250
Composite NOX : 0.575 0.890 0.916 0.896 3.036 0.764 0.808 5.684 0.988
-----
* # # # # # # # # # # # # # # # # #
* Urban collector- Cabarrus County - Nite
* File 1, Run 1, Scenario 39.
* # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 <6000 -----

```

```

-----
VMT Distribution: 0.4066 0.3911 0.1333 0.0293 0.0021 0.0313 0.0059 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.970 1.577 1.279 1.501 0.526 0.299 3.11 1.252
Composite NOX : 0.575 0.890 0.916 0.896 0.808 5.454 1.08 0.972
-----

* * * * *
* Urban local- Cabarrus County - Nite
* File 1, Run 1, Scenario 40.
* * * * *
* Urban local mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: -----
VMT Distribution: 0.4018 0.3860 0.1317 0.0350 0.0020 0.0374 0.0057 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 1.095 1.728 1.407 1.646 0.637 0.411 3.47 1.390
Composite NOX : 0.617 0.926 0.955 0.934 0.829 5.561 0.99 1.043
-----

```

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will be used for all hours of the day. 100% of VMT has been assigned to the 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.974 | 1.602 | 1.309 | 1.528 | 1.288 | 0.334 | 0.477 | 0.308 | 2.99 | 1.193 |
| Composite NOX : | 0.664 | 1.034 | 1.048 | 1.037 | 3.312 | 0.881 | 0.933 | 8.977 | 1.16 | 1.806 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Cabarrus County - AM
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.941 | 1.556 | 1.271 | 1.483 | 1.231 | 0.325 | 0.464 | 0.269 | 2.99 | 1.187 |
| Composite NOX : | 0.674 | 1.053 | 1.066 | 1.056 | 3.435 | 1.015 | 1.076 | 8.490 | 1.30 | 1.520 |

* * * * *
 * Rural major collector- Cabarrus County - AM
 * File 1, Run 1, Scenario 3.
 * * * * *
 * Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

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* * * * *
** Urban interstate- Cabarrus County - AM
* File 1, Run 1, Scenario 6.

```

* #
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3564 | 0.3431 | 0.1170 | | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.024 | 1.663 | 1.361 | 1.586 | 1.383 | 0.355 | 0.509 | 0.345 | 3.06 | 1.227 |
| Composite NOX : | 0.652 | 1.010 | 1.026 | 1.014 | 3.124 | 0.781 | 0.827 | 7.964 | 1.10 | 1.857 |

* #
* Urban principle arterial- Cabarrus County - AM
* File 1, Run 1, Scenario 7.

* #
* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.127 | 1.788 | 1.468 | 1.707 | 1.606 | 0.409 | 0.591 | 0.391 | 3.32 | 1.430 |
| Composite NOX : | 0.667 | 1.014 | 1.032 | 1.019 | 2.848 | 0.758 | 0.803 | 5.863 | 1.03 | 1.087 |

* * * * *
* Urban minor arterial- Cabarrus County - AM
* File 1, Run 1, Scenario 8.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

| Vehicle Type: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.139 | 1.804 | 1.481 | 1.722 | 1.640 | 0.416 | 0.601 | 0.391 | 3.35 | 1.445 |
| Composite NOx : | 0.674 | 1.021 | 1.039 | 1.026 | 2.829 | 0.764 | 0.809 | 5.687 | 1.02 | 1.090 |

User supplied VMT mix.

The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

| | | |
|---------|--------------|-----|
| Exhaust | I/M Program: | No |
| Evap | I/M Program: | No |
| | ATP Program: | Yes |

Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.139 | 1.804 | 1.481 | 1.722 | 1.638 | 0.416 | 0.601 | 0.376 | 3.35 | 1.447 |
| Composite NOX : | 0.674 | 1.021 | 1.039 | 1.025 | 2.827 | 0.764 | 0.809 | 5.456 | 1.02 | 1.073 |

* * * * *
* Urban local- Cabarrus County - AM
* File 1, Run 1, Scenario 10.
* * * * *
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.509 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

Composite NOX : 0.704 1.054 1.073 1.058 2.731 0.791 0.837 5.616 0.98 1.144

* * * * *
* Rural principle arterial- Cabarrus County - Midday
* File 1, Run 1, Scenario 11.
* * * * *
* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDGV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3708 0.3569 0.1216 0.0404 0.0004 0.0019 0.1026 0.0054 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.946 1.563 1.277 1.490 1.247 0.326 0.466 0.294 2.99 1.162

Composite NOX : 0.672 1.050 1.063 1.053 3.428 0.993 1.053 10.004 1.27 1.927

* * * * *
* Rural minor arterial- Cabarrus County - Midday
* File 1, Run 1, Scenario 12.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

M583 Warning: User supplied VMT mix.
The user supplied arterial average speed of 60.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.920 | 1.524 | 1.244 | 1.453 | 1.208 | 0.321 | 0.459 | 0.263 | 3.35 | 1.164 |
| Composite NOX : | 0.683 | 1.069 | 1.082 | 1.072 | 3.550 | 1.193 | 1.265 | 9.983 | 1.42 | 1.640 |
| ----- | | | | | | | | | | |

* * * * *
* Rural major collector- Cabarrus County - Midday
* File 1, Run 1, Scenario 13.
* * * * *
* Rural major collector mix and speeds
M615 Comment:
M583 Warning: 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.
M 48 Warning: there are no sales for vehicle class HDGV8b

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDV | LDGT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.980 | 1.609 | 1.315 | 1.535 | 1.284 | 0.336 | 0.480 | 0.277 | 3.00 | 1.253 |
| Composite NOX : | 0.662 | 1.031 | 1.045 | 1.035 | 3.270 | 0.866 | 0.917 | 6.915 | 1.15 | 1.233 |

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

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| | |
|----------------------|---------|
| 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 |

| | |
|----------------------|-----|
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDGT | HDDV | MC | All veh |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Distribution: | 0.3948 | 0.3787 | 0.1291 | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

ite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.999 | 1.634 | 1.336 | 1.558 | 1.318 | 0.343 | 0.490 | 0.291 | 3.01 | 1.267 |
| Composite NOX : | 0.658 | 1.022 | 1.037 | 1.025 | 3.198 | 0.817 | 0.865 | 6.569 | 1.11 | 1.253 |

```

# # # # # # # # # # # # # # # #
Local- Cabarrus County - Midday
1, Run 1, Scenario 15.
# # # # # # # # # # # # # # # #
Local mix and speeds

```

Comment :

User supplied VMT mix.

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.

Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

```

GVWR:          <6000      >6000      (All)
VMT Distribution: 0.3763    0.3658    0.1248    -----
-----
Composite Emission Factors (g/mi):
Composite VOC :   1.152      1.820      1.495      1.737      0.612      0.429      3.39      1.424
Composite NOX :   0.681      1.028      1.047      1.033      0.815      6.189      1.01      1.373
-----

* * * * *
* Urban interstate- Cabarrus County - Midday
* File 1, Run 1, Scenario 16.
* * * * *
* Urban 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGTL2 LDGT34 LDGT (All) HDGV HDDV LDDT LDDV MC All Veh
GVWR:          <6000      >6000      -----
-----
VMT Distribution: 0.3564    0.3431    0.1170    -----
-----
Composite Emission Factors (g/mi):
Composite VOC :   0.902      1.497      1.220      1.426      0.321      0.282      3.71      1.096
Composite NOX :   0.692      1.086      1.098      1.089      1.451      14.038      1.54      2.691
-----

```


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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.127 | 1.788 | 1.468 | 1.707 | 1.607 | 0.409 | 0.591 | 0.380 | 3.32 | 1.431 |
| Composite NOX : | 0.667 | 1.014 | 1.032 | 1.019 | 2.848 | 0.758 | 0.803 | 5.644 | 1.03 | 1.083 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban collector- Cabarrus County - Midday
* File 1, Run 1, Scenario 19.
* # # # # # # # # # # # # # # # # # #
* 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.114 | 1.772 | 1.454 | 1.691 | 0.402 | 0.581 | 0.355 | 3.29 | 1.418 | |
| Composite NOX : | 0.663 | 1.010 | 1.028 | 1.015 | 2.872 | 0.757 | 0.801 | 5.404 | 1.04 | 1.063 |

* * * * *
 * Urban local- Cabarrus County - Midday
 * File 1, Run 1, Scenario 20.
 * * * * *
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi

```

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000
VMT Distribution: 0.4018 0.3860 0.1317 0.0350 0.0004 0.0020 0.0374 0.0057 1.0000
----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000
Composite Emission Factors (g/mi):
Composite VOC : 1.198 1.877 1.544 1.792 1.793 0.448 0.650 0.425 3.51 1.509
Composite NOX : 0.704 1.054 1.073 1.058 2.731 0.791 0.837 5.616 0.98 1.144
----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000

```

```

* * * * *
* Rural principle arterial- Cabarrus County - PM
* File 1, Run 1, Scenario 21.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 49.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

```

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000

```

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration


```

* Rural major collector- Cabarrus County - PM
* File 1, Run 1, Scenario 23.
* # # # # # # # # # # # # # # # # # # #
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000<6000-----
VMT Distribution: 0.3986 0.3832 0.1306 0.0330 0.0004 0.0020 0.0464 0.0058 1.0000

Composite Emission Factors (g/ml):
Composite VOC : 1.024 1.663 1.361 1.586 1.369 0.355 0.509 0.310 3.06 1.302
Composite NOX : 0.652 1.010 1.026 1.014 3.108 0.781 0.827 6.226 1.10 1.181
-----

* # # # # # # # # # # # # # # # # # # #
* Rural minor collector- Cabarrus County - PM
* File 1, Run 1, Scenario 24.
* # # # # # # # # # # # # # # # # # # #
* Rural minor collector mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.024 | 1.663 | 1.361 | 1.586 | 1.370 | 0.355 | 0.509 | 0.312 | 3.06 | 1.295 |
| Composite NOX : | 0.652 | 1.010 | 1.026 | 1.014 | 3.108 | 0.781 | 0.827 | 6.276 | 1.10 | 1.226 |

* * * * *
* Rural local- Cabarrus County - PM
* File 1, Run 1, Scenario 25.
* * * * *
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | <6000 | >6000 | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | ----- | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.152 | 1.820 | 1.495 | 1.737 | 1.679 | 0.423 | 0.612 | 0.429 | 3.39 | 1.424 |
| Composite NOX : | 0.681 | 1.028 | 1.047 | 1.033 | 2.811 | 0.770 | 0.815 | 6.189 | 1.01 | 1.373 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban interstate- Cabarrus County - PM
 * File 1, Run 1, Scenario 26.
 * * * * *
 * Urban interstate 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No

Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3564 | 0.3431 | 0.1170 | | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.038 | 1.679 | 1.374 | 1.602 | 1.415 | 0.362 | 0.520 | 0.359 | 3.09 | 1.242 |
| Composite NOX : | 0.650 | 1.005 | 1.022 | 1.009 | 3.078 | 0.767 | 0.812 | 7.842 | 1.09 | 1.836 |

- * # # # # # # # # # # # # # # # # # # #
* Urban principle arterial- Cabarrus County - PM
* File 1, Run 1, Scenario 27.
* # # # # # # # # # # # # # # # # # # #
* 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |

```

* * * * *
* * Urban minor arterial - Cabarrus County - PM
* * File 1, Run 1, Scenario 28.
* * * * *
* * Urban minor arterial mix and speeds
* * * * *

```

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (in)

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 | LDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|-------|------|-----|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.182 | 1.857 | 1.526 | 1.773 | 1.753 | 0.439 | 0.637 | 0.429 | 3.47 | 1.494 |
| Composite NOX : | 0.696 | 1.044 | 1.064 | 1.049 | 2.760 | 0.783 | 0.829 | 5.835 | 0.99 | 1.114 |

```
* * * * *
* Urban collector- Cabarrus County - PM
* File 1, Run 1, Scenario 29.
* * * * *
```

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | <6000 >6000 | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.166 | 1.838 | 1.510 | 1.754 | 1.710 | 0.431 | 0.624 | 0.399 | 3.43 | 1.479 |
| Composite NOX : | 0.688 | 1.036 | 1.055 | 1.041 | 2.783 | 0.777 | 0.822 | 5.548 | 1.00 | 1.089 |

* #

* Urban local- Cabarrus County - PM

* File 1, Run 1, Scenario 30.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.217 | 1.902 | 1.565 | 1.816 | 1.841 | 0.457 | 0.664 | 0.439 | 3.55 | 1.532 |
| Composite NOX : | 0.713 | 1.063 | 1.083 | 1.068 | 2.711 | 0.801 | 0.848 | 5.692 | 0.97 | 1.155 |
| ----- | | | | | | | | | | |

* * * * *
* Rural principle arterial- Cabarrus County - Nite
* File 1, Run 1, Scenario 31.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)

| | |
|----------------------|-----|
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.937 | 1.549 | 1.265 | 1.477 | 1.235 | 0.324 | 0.463 | 0.290 | 3.07 | 1.151 |
| Composite NOX : | 0.676 | 1.056 | 1.069 | 1.059 | 3.474 | 1.053 | 1.117 | 10.555 | 1.32 | 1.991 |

```

* * * * *
* Rural minor arterial - Cabarrus County - Nite
*
* * * * *
* File 1, Run 1, Scenario 32.
*
* * * * *
* Rural minor arterial mix and speeds
*
* * * * *

```

M615 Comment :

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 62.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

| | |
|--------------|-----|
| ATP Program: | Yes |
| ATP Program: | No |

Reformulated Gas: No

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDVV | LDVT | HDVV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | ----- | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.952 | 1.571 | 1.283 | 1.498 | 1.240 | 0.327 | 0.468 | 0.263 | 2.99 | 1.220 |
| Composite NOX : | 0.671 | 1.047 | 1.060 | 1.050 | 3.385 | 0.970 | 1.028 | 7.760 | 1.25 | 1.288 |

* * * * *
* Rural minor collector- Cabarrus County - Nite
* File 1, Run 1, Scenario 34.
* * * * *
* 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.980 | 1.609 | 1.315 | 1.535 | 1.285 | 0.336 | 0.480 | 0.280 | 3.00 | 1.246 |
| Composite NOX : | 0.662 | 1.031 | 1.045 | 1.035 | 3.270 | 0.866 | 0.917 | 6.968 | 1.15 | 1.283 |

* * * * *
* Rural local- Cabarrus County - Nite
* File 1, Run 1, Scenario 35.
* * * * *
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 27.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.166 | 1.838 | 1.510 | 1.754 | 1.716 | 0.431 | 0.624 | 0.442 | 3.43 | 1.440 |
| Composite NOX : | 0.688 | 1.036 | 1.055 | 1.041 | 2.788 | 0.777 | 0.822 | 6.242 | 1.00 | 1.382 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
 * Urban interstate- Cabarrus County - Nite
 * File 1, Run 1, Scenario 36.
 * # # # # # # # # # # # # # # # # # #
 * Urban interstate mix and speeds
 M615 Comment:
 User supplied VMT mix.

M 96 Warning:
 68.0 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|-------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | 0.3431 | 0.1170 | >6000 | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |
| VMT Distribution: | | | | | | | | | | |
| Composite VOC : | 0.902 | 1.497 | 1.220 | 1.426 | 1.207 | 0.321 | 0.459 | 0.282 | 3.71 | 1.096 |
| Composite NOX : | 0.692 | 1.086 | 1.098 | 1.089 | 3.678 | 1.451 | 1.540 | 14.038 | 1.54 | 2.691 |

Composite Emission Factors (g/ml):

* * * * *
* Urban principle arterial- Cabarrus County - Nite
* File 1, Run 1, Scenario 37.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

| | |
|----------------------|---------|
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.024 | 1.663 | 1.361 | 1.586 | 1.367 | 0.355 | 0.509 | 0.302 | 3.06 | 1.314 |
| Composite NOX : | 0.652 | 1.010 | 1.026 | 1.014 | 3.104 | 0.781 | 0.826 | 6.038 | 1.10 | 1.092 |


```

* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial- Cabarrus County - Nite
* File 1, Run 1, Scenario 38.
* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial mix and speeds
M615 Comment:
M583 Warning:
User supplied VMT mix.

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: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |


```

* * * * *
* Urban local- Cabarrus County - Nite
* File 1, Run 1, Scenario 40.
* * * * *
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.182 | 1.857 | 1.526 | 1.773 | 1.750 | 0.439 | 0.637 | 0.411 | 3.47 | 1.490 |
| Composite NOX : | 0.696 | 1.044 | 1.064 | 1.049 | 2.757 | 0.783 | 0.829 | 5.561 | 0.99 | 1.135 |
| ----- | | | | | | | | | | |

```

*****
* MOBILE6.2.03 (24-Sep-2003) *
*****
* Input file: G2008.IN (file 1, run 1). *
*****

```

```
* data file: MEKAGE07.PRN
```

0.999 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

[illegible]

* File 1, Run 1, Scenario 1.

* Rural interstate mix and speeds

User supplied VMT mix.

The user supplied freeway average speed of 47.0

*** I/M credits for Tech1&2 vehicles were read from the following external

M 48 Warning:

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: 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: 0.3148 0.3031 0.1033 0.0795 0.0003 0.0016 0.1929 0.0046 1.0000

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.601 | 1.034 | 0.613 | 0.927 | 0.667 | 0.241 | 0.321 | 0.264 | 2.56 | 0.682 |
| Composite NOX : | 0.462 | 0.778 | 0.673 | 0.751 | 2.601 | 0.633 | 0.647 | 7.038 | 1.13 | 2.022 |

* * * * *
* Rural principle arterial- Gaston County - AM
* File 1, Run 1, Scenario 2.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

```

VMT Distribution: 0.3708 0.3569 0.1216 0.0398 0.0004 0.0019 0.1032 0.0054 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.582 1.006 0.599 0.902 0.640 0.232 0.308 0.248 2.55 0.713
Composite NOX : 0.473 0.797 0.689 0.770 2.732 0.740 0.757 8.231 1.26 1.511
-----

* * * * *
* Rural minor arterial- Gaston County - AM
* File 1, Run 1, Scenario 3.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.

M583 Warning:
      The user supplied arterial average speed of 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: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 7.8 psi
      Weathered RVP: 7.5 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: Yes
      Evap I/M Program: Yes
      ATP Program: Yes
      Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
-----
VMT Distribution: 0.3851 0.3703 0.1262 0.0411 0.0004 0.0020 0.0693 0.0056 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.610 1.047 0.619 0.938 0.680 0.247 0.329 0.258 2.58 0.762
Composite NOX : 0.458 0.770 0.665 0.743 2.539 0.602 0.614 5.636 1.10 1.048
-----

* * * * *
* Rural major collector- Gaston County - AM

```

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

```
* * * * *
* Rural minor collector- Gaston County - AM
* 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 40.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
```

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```
* * * * *
* * Rural local-Gaston County - AM
* * File 1, Run 1, Scenario 6.
* * * * *
* * Rural local mix and speeds
* * * * *
```

User supplied VMT mix.

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.

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: | 0.3763 | 0.3658 | 0.1247 | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.689 | 1.148 | 0.676 | 1.028 | 0.857 | 0.305 | 0.414 | 0.363 | 2.94 | 0.851 |
| Composite NOX : | 0.474 | 0.775 | 0.671 | 0.748 | 2.243 | 0.573 | 0.585 | 5.180 | 1.00 | 1.053 |

M615 Comment :

M581 Warning:

M 48 Warning:

| | |
|----------------------|----------|
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |

| | | |
|---------|--------------|-----|
| Exhaust | I/M Program: | Yes |
| Evap | I/M Program: | Yes |

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3564 | 0.3431 | 0.1169 | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.610 | 1.047 | 0.619 | 0.938 | 0.684 | 0.247 | 0.329 | 0.276 | 2.58 | 0.733 |
| Composite NOX : | 0.458 | 0.770 | 0.666 | 0.743 | 2.545 | 0.602 | 0.614 | 6.720 | 1.10 | 1.481 |

- * #
- * Urban freeway- Gaston County - AM
- * File 1, Run 1, Scenario 8.
- * #
- * Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3807 | 0.3667 | 0.1249 | 0.0349 | 0.0004 | 0.0019 | 0.0849 | 0.0055 | 1.0000 | |

Composite Emission Factors (g/mi):

Composite VOC : 0.587 1.014 0.602 0.909 0.645 0.234 0.311 0.250 2.55 0.729
Composite NOX : 0.470 0.792 0.684 0.765 2.694 0.705 0.721 7.775 1.22 1.317

* * * * *
* Urban principle arterial- Gaston County - AM
* File 1, Run 1, Scenario 9.
* * * * *
* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.4066 0.3916 0.1335 0.0258 0.0004 0.0021 0.0342 0.0058 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.668 1.120 0.660 1.003 0.805 0.289 0.392 0.322 2.84 0.847

Composite NOX : 0.460 0.760 0.658 0.734 2.295 0.563 0.575 4.909 1.03 0.807

* * * * *
* Urban minor arterial- Gaston County - AM
* File 1, Run 1, Scenario 10.
* * * * *
* Urban minor arterial mix and speeds

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```
* * * * *
* * Urban collector-Gaston County - AM
* * File 1, Run 1, Scenario 11.
* * * * *
* * Urban collector mix and speeds
* * * * *
```

M583 Warning:
The user supplied arterial average speed of 26.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```

there are no sales for vehicle class HDGV8b

```


Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |

Composite Emission Factors (g/ml):
Composite VOC : 0.705 1.169 0.689 1.047
Composite NOX : 0.485 0.787 0.683 0.761

* * * * *
* Urban local- Gaston County - AM
* File 1, Run 1, Scenario 12.
* * * * *
* Urban local mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1316 | | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.725 | 1.195 | 0.705 | 1.071 | 0.941 | 0.331 | 0.451 | 0.372 | 3.10 | 0.911 |
| Composite NOX : | 0.498 | 0.802 | 0.696 | 0.776 | 2.165 | 0.596 | 0.609 | 4.810 | 0.96 | 0.865 |

* * * * *
 * Rural Interstate - Gaston County - Midday
 * File 1, Run 1, Scenario 13.
 * * * * *
 * * * * *
 * Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 61.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

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

| | |
|----------------------|-------------------|
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |

| | |
|----------------------|-----|
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

```
* * * * *
* * Rural major collector- Gaston County - Midday
* * File 1, Run 1, Scenario 16.
* * * * *
* * Rural major collector mix and speeds
* * 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.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1305 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.598 | 1.030 | 0.611 | 0.923 | 0.655 | 0.239 | 0.319 | 0.234 | 2.56 | 0.761 |
| Composite NOX : | 0.464 | 0.781 | 0.675 | 0.754 | 2.609 | 0.645 | 0.659 | 5.804 | 1.14 | 0.937 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural minor collector- Gaston County - Midday
* File 1, 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

Calendar Year: 2008
Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | 0.3787 | 0.1291 | >6000 | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | >6000 | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):
 Composite VOC : 0.620 1.059 0.626 0.949 0.698 0.254 0.340 0.264 2.62 0.782
 Composite NOX : 0.454 0.762 0.659 0.735 2.480 0.581 0.593 5.253 1.09 0.930

* * * * *
 * Rural local- Gaston County - Midday
 * File 1, Run 1, Scenario 18.
 * * * * *
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

VMT Distribution: 0.3564 0.3431 0.1169 0.0513 0.0004 0.0018 0.1248 0.0052 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 0.565 0.977 0.585 0.877 0.626 0.229 0.303 0.238 3.11 0.684
 Composite NOX : 0.487 0.824 0.712 0.795 2.897 1.009 1.034 10.904 1.48 2.059

 * * * * *
 * Urban freeway- Gaston County - Midday
 * File 1, Run 1, Scenario 20.
 * * * * *
 * Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 55.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

 Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

 Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
 GVWR: <6000 >6000

 VMT Distribution: 0.3807 0.3667 0.1249 0.0349 0.0004 0.0019 0.0849 0.0055 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 0.580 1.002 0.597 0.899 0.636 0.231 0.307 0.243 2.55 0.720
 Composite NOX : 0.474 0.800 0.692 0.772 2.747 0.757 0.774 8.308 1.28 1.370

 * * * * *
 * Urban principle arterial- Gaston County - Midday

On Road Mobile Sources Documentation
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North Carolina Reasonable Further Progress Demonstration

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Appendix E
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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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.639 | 1.082 | 0.638 | 0.969 | 0.742 | 0.269 | 0.362 | 0.275 | 2.71 | 0.814 |
| Composite NOX : | 0.449 | 0.751 | 0.650 | 0.726 | 2.386 | 0.563 | 0.574 | 4.733 | 1.06 | 0.798 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban collector- Gaston County - Midday
* File 1, Run 1, Scenario 23.
* # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGTL34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|---------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.705 | 1.169 | 0.689 | 1.047 | 0.894 | 0.317 | 0.432 | 0.349 | 3.02 | 0.892 |
| Composite NOX : | 0.485 | 0.787 | 0.683 | 0.761 | 2.202 | 0.583 | 0.595 | 4.735 | 0.98 | 0.817 |

* * * * *
 * Urban local- Gaston County - Midday
 * File 1, Run 1, Scenario 24.
 * * * * *
 * * * * *
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1316 | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | 1.0000 | |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.725 | 1.195 | 0.705 | 1.071 | 0.941 | 0.331 | 0.451 | 0.372 | 3.10 | 0.911 |
| Composite NOX : | 0.498 | 0.802 | 0.696 | 0.776 | 2.165 | 0.596 | 0.609 | 4.810 | 0.96 | 0.865 |

- * #
- * Rural Interstate - Gaston County - PM
- * File 1, Run 1, Scenario 25.
- * #
- * Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 58.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3148 | 0.3031 | 0.1033 | 0.0795 | 0.0003 | 0.0016 | 0.1929 | 0.0046 | 1.0000 | |

Composite Emission Factors (g/ml):

Composite VOC : 0.573 0.992 0.592 0.890 0.630 0.230 0.305 0.240 2.77 0.652
Composite NOX : 0.479 0.809 0.699 0.781 2.804 0.839 0.859 9.153 1.36 2.465

* # # # # # # # # # # # # # # # # # # #
* Rural principle arterial- Gaston County - PM
* File 1, 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 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: -----
VMT Distribution: 0.3708 0.3569 0.1216 -----

Composite Emission Factors (g/mi):
Composite VOC : 0.577 0.998 0.595 0.896 0.635 0.231 0.306 0.245 2.63 0.708
Composite NOX : 0.476 0.803 0.694 0.775 2.768 0.785 0.803 8.698 1.31 1.564

* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Gaston County - PM
* File 1, 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

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0411 | 0.0004 | 0.0020 | 0.0693 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.614 | 1.050 | 0.621 | 0.941 | 0.686 | 0.249 | 0.333 | 0.263 | 2.59 | 0.765 |
| Composite NOX : | 0.457 | 0.767 | 0.663 | 0.741 | 2.521 | 0.595 | 0.608 | 5.574 | 1.10 | 1.041 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural major collector- Gaston County - PM
* File 1, 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 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1305 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.620 | 1.059 | 0.626 | 0.949 | 0.698 | 0.254 | 0.340 | 0.262 | 2.62 | 0.786 |
| Composite NOX : | 0.454 | 0.762 | 0.659 | 0.735 | 2.480 | 0.581 | 0.593 | 5.217 | 1.09 | 0.892 |

* * * * *
* Rural minor collector- Gaston County - PM
* File 1, 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 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

| | |
|----------------------|---------|
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.624 | 1.063 | 0.628 | 0.953 | 0.706 | 0.256 | 0.343 | 0.269 | 2.63 | 0.786 |
| Composite NOX : | 0.452 | 0.759 | 0.656 | 0.733 | 2.460 | 0.573 | 0.585 | 5.183 | 1.08 | 0.923 |


```

* # # # # # # # # # # # # # # # # # #
* Rural local- Gaston County - PM
* File 1, Run 1, Scenario 30.
* # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.

M583 Warning:
    The user supplied arterial average speed of 29.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b
  
```


| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDGV | LDGT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.3763 | 0.3658 | 0.1247 | | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.682 | 1.138 | 0.671 | 1.019 | 0.839 | 0.299 | 0.406 | 0.352 | 2.90 | 0.842 |
| Composite NOX : | 0.469 | 0.769 | 0.666 | 0.743 | 2.260 | 0.569 | 0.580 | 5.139 | 1.01 | 1.046 |

```
* * * * *
* Urban interstate- Gaston County - PM
* File 1, Run 1, Scenario 31.
* * * * *
* * * * * Urban interstate mix and speeds
* M615 Comment:
```

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

| | |
|----------------------|------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (in) |
| 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 | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDVV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.3564 | 0.3431 | 0.1169 | | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.614 | 1.050 | 0.621 | 0.941 | 0.690 | 0.249 | 0.333 | 0.281 | 2.59 | 0.737 |
| Composite NOX : | 0.457 | 0.767 | 0.663 | 0.741 | 2.528 | 0.595 | 0.608 | 6.653 | 1.10 | 1.470 |

Composite Emission Factors (g/mi):

* * * * *
 * Urban freeway- Gaston County - PM
 * File 1, Run 1, Scenario 32.
 * * * * *
 * Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 53.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3807 | 0.3667 | 0.1249 | | 0.0349 | 0.0004 | 0.0019 | 0.0849 | 0.0055 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.584 | 1.010 | 0.601 | 0.906 | 0.642 | 0.233 | 0.310 | 0.248 | 2.55 | 0.726 |
| Composite NOX : | 0.471 | 0.795 | 0.687 | 0.767 | 2.712 | 0.723 | 0.739 | 7.960 | 1.24 | 1.335 |

* * * * *
 * Urban principle arterial- Gaston County - PM
 * File 1, 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 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.682 | 1.138 | 0.671 | 1.019 | 0.837 | 0.299 | 0.406 | 0.340 | 2.90 | 0.863 |
| Composite NOX : | 0.469 | 0.769 | 0.666 | 0.743 | 2.258 | 0.569 | 0.580 | 4.956 | 1.01 | 0.816 |
| ----- | | | | | | | | | | |

* * * * *
* Urban minor arterial- Gaston County - PM
* File 1, 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 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

[illegible]

VMT Distribution: 0.4018 0.3860 0.1316 0.0345 0.0004 0.0020 0.0379 0.0057 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 0.725 1.195 0.705 1.071 0.941 0.331 0.451 0.372 3.10 0.911
 Composite NOX : 0.498 0.802 0.696 0.776 2.165 0.596 0.609 4.810 0.96 0.865

 * * * * *
 * Rural Interstate - Gaston County - Nite
 * File 1, Run 1, Scenario 37.
 * * * * *
 * Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

 Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

 Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
 GVWR: <6000 >6000

 VMT Distribution: 0.3148 0.3031 0.1033 0.0795 0.0003 0.0016 0.1929 0.0046 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 0.567 0.980 0.586 0.880 0.626 0.229 0.303 0.238 3.05 0.646
 Composite NOX : 0.486 0.821 0.710 0.792 2.878 0.970 0.994 10.503 1.46 2.739

 * * * * *
 * Rural principle arterial- Gaston County - Nite

| | | | | | |
|-------------------------------------|--|-------------------|--------|--------|---------------|
| Calendar Year: 2008 | | | | | |
| | | Month: | July | | |
| Altitude: | | Low | | | |
| Minimum Temperature: | | 71.0 (F) | | | |
| Maximum Temperature: | | 89.6 (F) | | | |
| Minimum Rel. Hum.: | | 47.0 (%) | | | |
| Maximum Rel. Hum.: | | 91.0 (%) | | | |
| Barometric Pressure: | | 30.00 (inches Hg) | | | |
| Nominal Fuel RVP: | | 7.8 psi | | | |
| Weathered RVP: | | 7.5 psi | | | |
| Fuel Sulfur Content: | | 30. ppm | | | |
| Exhaust I/M Program: | | Yes | | | |
| Evap I/M Program: | | Yes | | | |
| ATP Program: | | Yes | | | |
| Reformulated Gas: | | No | | | |
| Vehicle Type: | | LDGV | LDGT12 | LDGT34 | LDGT
(All) |
| GVWR: | | <6000 | >6000 | >6000 | |
| VMT Distribution: | | 0.3708 | 0.3569 | 0.1216 | |
| <hr/> | | | | | |
| Composite Emission Factors (g/mi.): | | | | | |
| Composite VOC : | | 0.573 | 0.992 | 0.592 | 0.890 |
| Composite NOx : | | 0.479 | 0.809 | 0.699 | 0.781 |
| | | | | 0.230 | 0.305 |
| | | | | 0.839 | 0.859 |
| | | | | 0.004 | 0.0019 |
| | | | | 0.1032 | 0.0054 |
| | | | | 2.77 | 0.704 |
| | | | | 9.256 | 1.628 |

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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0411 | 0.0004 | 0.0020 | 0.0693 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.589 | 1.018 | 0.604 | 0.913 | 0.644 | 0.235 | 0.313 | 0.236 | 2.55 | 0.738 |
| Composite NOX : | 0.468 | 0.789 | 0.682 | 0.762 | 2.667 | 0.686 | 0.701 | 6.445 | 1.19 | 1.123 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural major collector- Gaston County - Nite
* File 1, 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 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1305 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.587 | 1.014 | 0.602 | 0.909 | 0.639 | 0.234 | 0.311 | 0.224 | 2.55 | 0.748 |
| Composite NOX : | 0.470 | 0.792 | 0.684 | 0.765 | 2.683 | 0.705 | 0.721 | 6.358 | 1.22 | 0.974 |

* * * * *
 * Rural minor collector- Gaston County - Nite
 * File 1, 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes

M615 Comment: User supplied VMT mix.
M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3807 | 0.3667 | 0.1249 | | 0.0349 | 0.0004 | 0.0019 | 0.0849 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.577 | 0.998 | 0.595 | 0.896 | 0.634 | 0.231 | 0.306 | 0.242 | 2.63 | 0.718 |
| Composite NOX : | 0.476 | 0.803 | 0.694 | 0.775 | 2.767 | 0.785 | 0.803 | 8.600 | 1.31 | 1.398 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # #
* Urban principle arterial- Gaston County - Nite
* File 1, 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 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.624 | 1.063 | 0.628 | 0.953 | 0.704 | 0.256 | 0.343 | 0.260 | 2.63 | 0.797 |
| Composite NOX : | 0.452 | 0.759 | 0.656 | 0.733 | 2.458 | 0.573 | 0.585 | 5.001 | 1.08 | 0.811 |
| ----- | | | | | | | | | | |

* * * * *
* Urban minor arterial- Gaston County - Nite
* File 1, 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 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):
 Composite VOC : 0.624 1.063 0.628 0.953 0.704 0.256 0.343 0.252 2.63 0.797
 Composite NOX : 0.452 0.759 0.656 0.733 2.458 0.573 0.585 4.828 1.08 0.808

* * * * *
 * Urban collector- Gaston County - Nite
 * File 1, Run 1, Scenario 47.
 * * * * *
 * * * * *
 * 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

```
* * * * * Urban local- Gaston County - Nite
* * * * * File 1, Run 1, Scenario 48.
* * * * * Urban local mix and speeds
* * * * * M615 Comment:
```

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Maximum Temperature: 65.0 (F)
Minimum Rel Hum: 47.0 (%)

| | |
|--------------------|----------|
| Maximum Rel. Hum.: | 97.0 (%) |
| Maximum Rel. Hum.: | 97.0 (%) |

Maximum Rel. Hum.: 51.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
Barometric Pressure: 30.00 (in)

| | |
|-------------------|---------|
| NOMINAL FUEL KVF: | 7.8 psi |
| Weathered RVP: | 7.5 psi |

| | | |
|----------------------|-----|-----|
| WEAILED RVF: | 7.3 | psi |
| Fuel Sulfur Content: | 30. | ppm |

Fuel sulfur content: 30. ppm

Exhaust I/M Program: Yes

| Evap | I/M | Program: | Yes |
|------|-----|----------|-----|
| | | | |

ATP Program: Yes

Reformulated Gas: No

0
4
2
3
0
3
0
0
3
4
3
3
4
0
4
0
2
4

type: LDGV LDGT12

Composite Emission Factors (g/mi):

```

*****
* MOBILE6.2.03 (24-Sep-2003)
*
* Input file: G2008N.IN (file 1, run 1).
*****

```

```
* data file: MEKAGE07.PRN
```

0.999 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

* Rural Interstate - Gaston County - AM

[illegible]

M615 Comment :

M581 Warning:

M 48 Warning:

Calendar Year: 2008
Month: July

Minimum Temperature: 71.0 (F)

Minimum Rel. Hum.: 47.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Weathered RVP: 7.5 psi

Exhaust I/M Program: No

Exhaust I/M Program: No

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3148 | 0.3031 | 0.1033 | | 0.0795 | 0.0003 | 0.0016 | 0.1929 | 0.0046 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.659 | 1.127 | 0.687 | 1.016 | 0.667 | 0.241 | 0.321 | 0.264 | 2.56 | 0.737 |
| Composite NOX : | 0.529 | 0.888 | 0.760 | 0.856 | 2.601 | 0.633 | 0.647 | 7.038 | 1.13 | 2.085 |

* * * * *
* Rural principle arterial- Gaston County - AM
* File 1, Run 1, Scenario 2.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0398 | 0.0004 | 0.0019 | 0.1032 | 0.0054 | 1.0000 |

Composite Emission Factors (g/ml):

Composite VOC : 0.637 1.094 0.669 0.986 0.640 0.232 0.308 0.248 2.55 0.773
Composite NOX : 0.539 0.908 0.777 0.875 2.732 0.740 0.757 8.231 1.26 1.585

* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Gaston County - AM
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0411 | 0.0004 | 0.0020 | 0.0693 | 0.0056 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.670 | 1.142 | 0.696 | 1.029 | 0.680 | 0.247 | 0.329 | 0.258 | 2.58 | 0.830 |
| Composite NOX : | 0.525 | 0.879 | 0.753 | 0.847 | 2.539 | 0.602 | 0.614 | 5.636 | 1.10 | 1.125 |

* # # # # # # # # # # # # # # # # # # #
* Rural major collector- Gaston County - AM
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds

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.

there are no sales for vehicle class HDGV8b

Month: July

Altitude: Low

Minimum Temperature: 71.0

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

| | |
|-------------------|---------|
| Nominal Fuel RVP: | 7.8 psi |
|-------------------|---------|

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

[illegible]

aust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDGT | HDDV | MC | All veh |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3986 | 0.3832 | 0.1305 | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| Composite VOC : | 0.686 | 1.162 | 0.707 | 1.047 | 0.706 | 0.256 | 0.343 | 0.267 | 2.63 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Composite NOX : | 0.519 | 0.868 | 0.744 | 0.837 | 2.460 | 0.573 | 0.585 | 5.148 | 1.08 |
| Composite SO ₂ : | 0.519 | 0.868 | 0.744 | 0.837 | 2.460 | 0.573 | 0.585 | 5.148 | 1.08 |

```
* * * * *
* Rural minor collector- Gaston County - AM
* File 1, Run 1, Scenario 5.
* * * * *
* Rural minor collector mix and speeds
```

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.

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.686 | 1.162 | 0.707 | 1.047 | 0.706 | 0.256 | 0.343 | 0.269 | 2.63 | 0.858 |
| Composite NOX : | 0.519 | 0.868 | 0.744 | 0.837 | 2.460 | 0.573 | 0.585 | 5.183 | 1.08 | 1.003 |
| ----- | | | | | | | | | | |

* * * * *
* Rural local- Gaston County - AM
* File 1, Run 1, Scenario 6.
* * * * *
* Rural local mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

| | |
|----------------------|---------|
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDLV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1247 | | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.758 | 1.260 | 0.767 | 1.134 | 0.857 | 0.305 | 0.414 | 0.363 | 2.94 | 0.929 |
| Composite NOX : | 0.544 | 0.887 | 0.762 | 0.855 | 2.243 | 0.573 | 0.585 | 5.180 | 1.00 | 1.132 |


```

* # # # # # # # # # # # # # # # # # # #
* Urban interstate- Gaston County - AM
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.

M581 Warning:
    The user supplied freeway average speed of 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: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |


```

* * * * *
* Urban principle arterial- Gaston County - AM
* File 1, Run 1, Scenario 9.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment:
      User supplied VMT mix.

M583 Warning:
      The user supplied arterial average speed of 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: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 7.8 psi
      Weathered RVP: 7.5 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: No
      Evap I/M Program: No
      ATP Program: Yes
      Reformulated Gas: No

```

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.735 | 1.228 | 0.747 | 1.106 | 0.805 | 0.289 | 0.392 | 0.322 | 2.84 | 0.929 |
| Composite NOX : | 0.529 | 0.871 | 0.747 | 0.840 | 2.295 | 0.563 | 0.575 | 4.909 | 1.03 | 0.890 |
| ----- | | | | | | | | | | |

```

* * * * *
* Urban minor arterial- Gaston County - AM
* File 1, Run 1, Scenario 10.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.

M583 Warning:

```

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.727 | 1.218 | 0.740 | 1.096 | 0.791 | 0.285 | 0.385 | 0.304 | 2.81 | 0.920 |
| Composite NOX : | 0.525 | 0.868 | 0.744 | 0.836 | 2.314 | 0.562 | 0.574 | 4.730 | 1.03 | 0.884 |
| ----- | | | | | | | | | | |

* * * * *
* Urban collector- Gaston County - AM
* File 1, Run 1, Scenario 11.
* * * * *
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 26.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.776 | 1.284 | 0.781 | 1.156 | 0.894 | 0.317 | 0.432 | 0.349 | 3.02 | 0.978 |
| Composite NOX : | 0.556 | 0.902 | 0.774 | 0.869 | 2.202 | 0.583 | 0.595 | 4.735 | 0.98 | 0.903 |

* * * * *
* Urban local- Gaston County - AM
* File 1, Run 1, Scenario 12.
* * * * *
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

| | | | | | | | | | |
|--|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1316 | | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 |
| Composite Emission Factors (g/mi):
Composite VOC : 0.798 1.314 0.800 1.183 0.941 0.331 0.451 0.372 3.10 0.999
Composite NOX : 0.570 0.918 0.789 0.886 2.165 0.596 0.609 4.810 0.96 0.951 | | | | | | | | | |
| * * * * *
* Rural Interstate - Gaston County - Midday
* File 1, Run 1, Scenario 13.
* * * * *
* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning: The user supplied freeway average speed of 61.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b | | | | | | | | | |
| Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | |

```

VMT Distribution: 0.3148 0.3031 0.1033 0.0795 0.0003 0.0016 0.1929 0.0046 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.620 1.066 0.654 0.961 0.627 0.229 0.303 0.238 2.97 0.696
Composite NOX : 0.550 0.929 0.796 0.895 2.859 0.930 0.953 10.093 1.43 2.720
-----

* * * * *
* Rural principle arterial- Gaston County - Midday
* File 1, Run 1, Scenario 14.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:
M581 Warning: User supplied VMT mix.
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
-----
VMT Distribution: 0.3708 0.3569 0.1216 0.0398 0.0004 0.0019 0.1032 0.0054 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.629 1.081 0.662 0.974 0.633 0.230 0.306 0.244 2.70 0.765
Composite NOX : 0.544 0.917 0.785 0.883 2.788 0.812 0.832 8.982 1.34 1.672
-----

* * * * *
* Rural minor arterial- Gaston County - Midday

```

| | | | | | | | | | | | |
|------------------------------------|--|-------------------|--------|---------------|------------|-------|-------|-------|-------|------|---------|
| Calendar Year: 2008 | | Month: July | | Altitude: Low | | | | | | | |
| Minimum Temperature: | | 71.0 (F) | | | | | | | | | |
| Maximum Temperature: | | 89.6 (F) | | | | | | | | | |
| Minimum Rel. Hum.: | | 47.0 (%) | | | | | | | | | |
| Maximum Rel. Hum.: | | 91.0 (%) | | | | | | | | | |
| Barometric Pressure: | | 30.00 (inches Hg) | | | | | | | | | |
| Nominal Fuel RVP: | | 7.8 psi | | | | | | | | | |
| Weathered RVP: | | 7.5 psi | | | | | | | | | |
| Fuel Sulfur Content: | | 30. ppm | | | | | | | | | |
| Exhaust I/M Program: | | No | | | | | | | | | |
| Evap I/M Program: | | No | | | | | | | | | |
| ATP Program: | | Yes | | | | | | | | | |
| Reformulated Gas: | | No | | | | | | | | | |
| Vehicle Type: | | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | | >6000 | | | | | | | |
| VMT Distribution: | | 0.3851 | 0.3703 | 0.1262 | | | | | | | |
| ----- | | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | | |
| Composite VOC : | | 0.649 | 1.113 | 0.679 | 1.003 | 0.648 | 0.236 | 0.315 | 0.238 | 2.55 | 0.806 |
| Composite NOX : | | 0.533 | 0.896 | 0.767 | 0.863 | 2.647 | 0.667 | 0.681 | 6.259 | 1.16 | 1.185 |

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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1305 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.656 | 1.123 | 0.685 | 1.011 | 0.655 | 0.239 | 0.319 | 0.234 | 2.56 | 0.829 |
| Composite NOX : | 0.530 | 0.891 | 0.763 | 0.858 | 2.609 | 0.645 | 0.659 | 5.804 | 1.14 | 1.017 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural minor collector- Gaston County - Midday
* File 1, 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)

| | |
|----------------------|-----|
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.682 | 1.157 | 0.704 | 1.042 | 0.698 | 0.254 | 0.340 | 0.264 | 2.62 | 0.853 |
| Composite NOx : | 0.521 | 0.871 | 0.747 | 0.840 | 2.480 | 0.581 | 0.593 | 5.253 | 1.09 | 1.009 |

M615 Comment :

M583 Warning:

M 48 Warning:

Calendar Year: 2008
Month: July

| | | |
|---------|--------------|----|
| Exhaust | I/M Program: | No |
| Evap | I/M Program: | No |

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1247 | 0.0505 | 0.0019 | 0.0748 | 0.0055 | 1.0000 | | |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.758 | 1.260 | 0.767 | 1.134 | 0.857 | 0.305 | 0.414 | 0.363 | 2.94 | 0.929 |
| Composite NOX : | 0.544 | 0.887 | 0.762 | 0.855 | 2.243 | 0.573 | 0.585 | 5.180 | 1.00 | 1.132 |

* * * * *
* Urban interstate- Gaston County - Midday
* File 1, Run 1, Scenario 19.
* * * * *
* * * * *
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3564 | 0.3431 | 0.1169 | 0.0513 | 0.0018 | 0.1248 | 0.0052 | 1.0000 | | |

Composite Emission Factors (g/ml):

```

* * * * * Urban principle arterial- Gaston County - Midday
* * * * * File 1, Run 1, Scenario 21.
* * * * * Urban principle arterialmix and speeds

```


M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDVV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.708 | 1.190 | 0.723 | 1.072 | 0.752 | 0.272 | 0.367 | 0.290 | 2.73 | 0.897 |
| Composite NOX : | 0.516 | 0.859 | 0.737 | 0.828 | 2.366 | 0.559 | 0.571 | 4.875 | 1.06 | 0.880 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # #
* Urban minor arterial- Gaston County - Midday
* File 1, 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.703 | 1.184 | 0.720 | 1.066 | 0.742 | 0.269 | 0.362 | 0.275 | 2.71 | 0.891 |
| Composite NOX : | 0.516 | 0.861 | 0.738 | 0.830 | 2.386 | 0.563 | 0.574 | 4.733 | 1.06 | 0.880 |
| ----- | | | | | | | | | | |

* * * * *
* Urban collector- Gaston County - Midday
* File 1, Run 1, Scenario 23.
* * * * *
* Urban collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|--|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.776 | 1.284 | 0.781 | 1.156 | 0.894 | 0.317 | 0.432 | 0.349 | 3.02 | 0.978 |
| Composite NOX : | 0.556 | 0.902 | 0.774 | 0.869 | 2.202 | 0.583 | 0.595 | 4.735 | 0.98 | 0.903 |
| ----- | | | | | | | | | | |
| * # # # # # # # # # # # # # # # # #
* Urban local- Gaston County - Midday
* File 1, Run 1, Scenario 24.
* # # # # # # # # # # # # # # # # #
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b | | | | | | | | | | |

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

* * * * *
 * Rural principle arterial- Gaston County - PM
 * File 1, 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 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0398 | 0.0004 | 0.0019 | 0.1032 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.632 | 1.085 | 0.664 | 0.978 | 0.635 | 0.231 | 0.306 | 0.245 | 2.63 | 0.768 |
| Composite NOX : | 0.542 | 0.914 | 0.782 | 0.880 | 2.768 | 0.785 | 0.803 | 8.698 | 1.31 | 1.639 |
| ----- | | | | | | | | | | |

* * * * *
 * Rural minor arterial- Gaston County - PM
 * File 1, 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0411 | 0.0004 | 0.0020 | 0.0693 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.674 | 1.147 | 0.698 | 1.033 | 0.686 | 0.249 | 0.333 | 0.263 | 2.59 | 0.834 |
| Composite NOX : | 0.523 | 0.877 | 0.751 | 0.845 | 2.521 | 0.595 | 0.608 | 5.574 | 1.10 | 1.119 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural major collector- Gaston County - PM
* File 1, 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 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1305 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.682 | 1.157 | 0.704 | 1.042 | 0.698 | 0.254 | 0.340 | 0.262 | 2.62 | 0.858 |
| Composite NOX : | 0.521 | 0.871 | 0.747 | 0.840 | 2.480 | 0.581 | 0.593 | 5.217 | 1.09 | 0.972 |

* * * * *
 * Rural minor collector- Gaston County - PM
 * File 1, 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 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm


```

VMT Distribution: 0.3763 0.3658 0.1247 0.0505 0.0004 0.0019 0.0748 0.0055 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.750 1.249 0.760 1.125 0.839 0.299 0.406 0.352 2.90 0.920
Composite NOX : 0.538 0.881 0.756 0.849 2.260 0.569 0.580 5.139 1.01 1.124
-----

* * * * *
* Urban interstate- Gaston County - PM
* File 1, Run 1, Scenario 31.
* * * * *
* Urban interstate mix and speeds
M615 Comment:
      User supplied VMT mix.

M581 Warning:
      The user supplied freeway average speed of 43.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.

M 48 Warning:
      there are no sales for vehicle class HDGV8b

      Calendar Year: 2008
      Month: July
      Altitude: Low
      Minimum Temperature: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 7.8 psi
      Weathered RVP: 7.5 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: No
      Evap I/M Program: No
      ATP Program: Yes
      Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
-----
VMT Distribution: 0.3564 0.3431 0.1169 0.0513 0.0004 0.0018 0.1248 0.0052 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.674 1.147 0.699 1.033 0.690 0.249 0.333 0.281 2.59 0.800
Composite NOX : 0.523 0.877 0.751 0.845 2.528 0.595 0.608 6.653 1.10 1.542
-----

* * * * *
* Urban freeway- Gaston County - PM

```

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

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Appendix E
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* * * * *
* * Urban minor arterial- Gaston County - PM
* * File 1, Run 1, Scenario 34.
* * * * *
* * Urban minor arterial mix and speeds
* * * * *

```

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |

VMT Distribution: 0.4058 0.3906 0.1332 0.0281 0.0004 0.0021 0.0339 0.0059 1.0000

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.727 | 1.218 | 0.740 | 1.096 | 0.791 | 0.285 | 0.385 | 0.304 | 2.81 | 0.920 |
| Composite NOX : | 0.525 | 0.868 | 0.744 | 0.836 | 2.314 | 0.562 | 0.574 | 4.730 | 1.03 | 0.884 |

* * * * *
 * Urban collector- Gaston County - PM
 * File 1, Run 1, Scenario 35.
 * * * * *
 * * * * *
 * Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 20.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | ----- | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.857 | 1.396 | 0.852 | 1.258 | 1.064 | 0.364 | 0.500 | 0.430 | 3.30 | 1.073 |
| Composite NOX : | 0.607 | 0.961 | 0.828 | 0.927 | 2.089 | 0.635 | 0.649 | 5.174 | 0.91 | 0.965 |

* * * * *
* Urban local- Gaston County - PM
* File 1, Run 1, Scenario 36.
* * * * *
* * * * *
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1316 | ----- | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | 1.0000 |

Composite Emission Factors (g/ml):

M615 Comment: User supplied VMT mix.
M581 Warning: The user supplied freeway average speed of 58.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0398 | 0.0004 | 0.0019 | 0.1032 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.627 | 1.077 | 0.660 | 0.971 | 0.631 | 0.230 | 0.305 | 0.242 | 2.77 | 0.763 |
| Composite NOX : | 0.546 | 0.920 | 0.788 | 0.886 | 2.806 | 0.839 | 0.859 | 9.256 | 1.36 | 1.703 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Gaston County - Nite
* File 1, Run 1, Scenario 39.
* # # # # # # # # # # # # # # # # # #
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0411 | 0.0004 | 0.0020 | 0.0693 | 0.0056 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.646 | 1.108 | 0.677 | 0.998 | 0.644 | 0.235 | 0.313 | 0.236 | 2.55 | 0.802 |
| Composite NOX : | 0.535 | 0.899 | 0.770 | 0.866 | 2.667 | 0.686 | 0.701 | 6.445 | 1.19 | 1.201 |

* * * * *
* Rural major collector- Gaston County - Nite
* File 1, 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 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1305 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.643 | 1.103 | 0.674 | 0.994 | 0.639 | 0.234 | 0.311 | 0.224 | 2.55 | 0.814 |
| Composite NOX : | 0.536 | 0.902 | 0.772 | 0.869 | 2.683 | 0.705 | 0.721 | 6.358 | 1.22 | 1.054 |

- * * * * * Rural minor collector- Gaston County - Nite
- * File 1, 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

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.682 | 1.157 | 0.704 | 1.042 | 0.698 | 0.254 | 0.340 | 0.264 | 2.62 | 0.853 |
| Composite NOX : | 0.521 | 0.871 | 0.747 | 0.840 | 2.480 | 0.581 | 0.593 | 5.253 | 1.09 | 1.009 |

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local- Gaston County - Nite
* File 1, Run 1, Scenario 42.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 28.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1247 | | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.758 | 1.260 | 0.767 | 1.134 | 0.857 | 0.305 | 0.414 | 0.363 | 2.94 | 0.929 |
| Composite NOX : | 0.544 | 0.887 | 0.762 | 0.855 | 2.243 | 0.573 | 0.585 | 5.180 | 1.00 | 1.132 |

* * * * *
 * Urban interstate- Gaston County - Nite
 * File 1, Run 1, Scenario 43.
 * * * * *
 * Urban interstate mix and speeds
 * M615 Comment:

 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 63.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3564 | 0.3431 | 0.1169 | | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.616 | 1.059 | 0.650 | 0.955 | 0.626 | 0.229 | 0.303 | 0.238 | 3.11 | 0.738 |
| Composite NOX : | 0.554 | 0.935 | 0.801 | 0.901 | 2.897 | 1.009 | 1.034 | 10.904 | 1.48 | 2.131 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban freeway- Gaston County - Nite
 * File 1, Run 1, Scenario 44.
 * * * * *
 * Urban freeway mix and speeds
 * M615 Comment:

 User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3807 | 0.3667 | 0.1249 | | 0.0349 | 0.0004 | 0.0019 | 0.0849 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.632 | 1.085 | 0.664 | 0.978 | 0.634 | 0.231 | 0.306 | 0.242 | 2.63 | 0.779 |
| Composite NOX : | 0.542 | 0.914 | 0.783 | 0.880 | 2.767 | 0.785 | 0.803 | 8.600 | 1.31 | 1.475 |
| ----- | | | | | | | | | | |

* * * * *
* Urban principle arterial- Gaston County - Nite
* File 1, 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 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: 2008
Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | 0.3916 | 0.1335 | >6000 | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 |

VTM Distribution: 0.4066 0.3916 0.1335

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.686 | 1.162 | 0.707 | 1.047 | 0.704 | 0.256 | 0.343 | 0.260 | 2.63 | 0.872 |
| Composite NOX : | 0.519 | 0.868 | 0.744 | 0.837 | 2.458 | 0.573 | 0.585 | 5.001 | 1.08 | 0.893 |

* * * * *
 * Urban minor arterial- Gaston County - Nite
 * File 1, 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 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: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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North Carolina Reasonable Further Progress Demonstration

5.2.5 Iredell 2008 I/M (I2008.TXT)

```
*****
* MOBIL6.2.03 (24-Sep-2003) *
* Input file: I2008.IN (file 1, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
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M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII
* # # # # # # # # # # # # # # # #
* Rural Interstate - Iredell County - AM
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # #
* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
```


Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |

Composite Emission Factors (g/ml):
Composite VOC : 1.188 1.847 1.508 1.761 2.025 0.489 0.711 0.559 3.71 1.477
Composite NOX : 0.662 0.975 1.006 0.983 2.654 0.838 0.888 6.998 0.94 1.341

* * * * *
* Rural major collector- Iredell County - AM
* File 1, Run 1, Scenario 3.
* * * * *
* Rural major collector mix and speeds
M615 Comment:
M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.011 | 1.625 | 1.319 | 1.548 | 1.526 | 0.390 | 0.563 | 0.370 | 3.23 | 1.286 |
| Composite NOX : | 0.579 | 0.889 | 0.916 | 0.896 | 2.925 | 0.754 | 0.798 | 6.012 | 1.05 | 1.075 |

- * #
- * Rural minor collector- Iredell County - AM
- * File 1, Run 1, Scenario 4.
- * #
- * Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

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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* * * * *
 * Urban principle arterial- Iredell County - AM
 * File 1, Run 1, Scenario 6.
 * * * * *
 * Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 1.796 | 0.448 | 0.650 | 0.457 | 3.51 | 1.410 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | 2.733 | 0.791 | 0.837 | 6.119 | 0.98 | 1.035 |

* * * * *
 * Urban minor arterial- Iredell County - AM
 * File 1, Run 1, Scenario 7.
 * * * * *
 * Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 1.797 | 0.448 | 0.650 | 0.443 | 3.51 | 1.411 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | 2.733 | 0.791 | 0.837 | 5.892 | 0.98 | 1.030 |

* # # # # # # # # # # # # # # # # # #
* Urban collector- Iredell County - AM
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.127 | 1.769 | 1.441 | 1.685 | 1.842 | 0.457 | 0.664 | 0.440 | 3.55 | 1.432 |
| Composite NOX : | 0.633 | 0.943 | 0.973 | 0.951 | 2.712 | 0.801 | 0.848 | 5.730 | 0.97 | 1.023 |

* * * * *
 * Urban local- Iredell County - AM
 * File 1, Run 1, Scenario 9.
 * * * * *
 * Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

[illegible]

```
* * * * *
* Rural minor arterial-Iredell County - Midday
* File 1, Run 1, Scenario 11.
* * * * *
* Rural minor arterial mix and speeds
* M615 Comment:
```

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 22.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

| | | |
|------|--------------|-----|
| Evap | I/M Program: | Yes |
|------|--------------|-----|

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All veh |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|--|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| -----Composite Emission Factors (g/mi.): | | | | | | | | | | |
| Composite VOC : | 1.166 | 1.819 | 1.483 | 1.733 | 1.963 | 0.477 | 0.694 | 0.539 | 3.65 | 1.450 |
| Composite NOx : | 0.651 | 0.963 | 0.994 | 0.971 | 2.679 | 0.825 | 0.873 | 6.884 | 0.95 | 1.325 |
| ----- | | | | | | | | | | |

[illegible]

* Rural major collector mix and speeds

User supplied VMT mix.

The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

[illegible]

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M615 Comment:

M583 Warning: The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 1.801 | 0.448 | 0.650 | 0.472 | 3.51 | 1.395 |
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 2.737 | 0.791 | 0.837 | 6.359 | 0.98 | 1.169 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | | | | | | |

Composite Emission Factors (g/mi):

* #
* Rural local- Iredell County - Midday
* File 1, Run 1, Scenario 14.
* #
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.095 | 1.728 | 1.407 | 1.646 | 1.757 | 0.439 | 0.637 | 0.457 | 3.47 | 1.364 |
| Composite NOX : | 0.617 | 0.926 | 0.955 | 0.934 | 2.764 | 0.783 | 0.829 | 6.299 | 0.99 | 1.306 |
| ----- | | | | | | | | | | |

* * * * *
* Urban principle arterial- Iredell County - Midday
* File 1, Run 1, Scenario 15.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes

Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.095 | 1.728 | 1.407 | 1.646 | 1.752 | 0.439 | 0.637 | 0.441 | 3.47 | 1.392 |
| Composite NOX : | 0.617 | 0.926 | 0.955 | 0.934 | 2.760 | 0.783 | 0.829 | 6.060 | 0.99 | 1.026 |

- * # # # # # # # # # # # # # # # # # # #
- * Urban minor arterial- Iredell County - Midday
- * File 1, Run 1, Scenario 16.
- * # # # # # # # # # # # # # # # # # # #
- * Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 | |

| Composite Emission Factors (g/ml) : | | | | | | |
|-------------------------------------|-------|-------|-------|-------|-------|-------|
| Composite VOC : | 1.081 | 1.711 | 1.392 | 1.630 | 1.712 | 0.431 |
| Composite NOX : | 0.610 | 0.919 | 0.947 | 0.926 | 2.784 | 0.777 |
| | | | | | | 0.624 |
| | | | | | | 0.415 |
| | | | | | | 5.782 |
| | | | | | | 1.00 |
| | | | | | | 3.43 |
| | | | | | | 1.014 |
| | | | | | | 1.377 |

```

* * * * *
* * Urban collector- Iredell County - Midday
* * File 1, Run 1, Scenario 17.
* * * * *
* * Urban collector mix and speeds

```

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 22.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (in)

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

.....

Type: LDGV LDGT12 I

GVWR: <6000

[illegible]

0.4066 0.3911 0

ssion Factors (g/mi):

VOC : 1.166 1.819

| | | |
|-------|-------|-------|
| NOX : | 0.651 | 0.963 |
|-------|-------|-------|

[illegible]

==

Iredell County - Midday

1. Scenario 18.

[illegible]

==

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | <6000 | >6000 | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.127 | 1.769 | 1.441 | 1.685 | 1.841 | 0.457 | 0.664 | 0.439 | 3.55 | 1.428 |
| Composite NOX : | 0.633 | 0.943 | 0.973 | 0.951 | 2.711 | 0.801 | 0.848 | 5.692 | 0.97 | 1.062 |

* #

* Rural Interstate - Iredell County - PM

* File 1, Run 1, Scenario 19.

* #

* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

[illegible]

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 17.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway 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: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |

| | |
|----------------------|-----|
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.329 | 2.024 | 1.661 | 1.932 | 2.359 | 0.540 | 0.788 | 0.649 | 3.99 | 1.638 |
| Composite NOx : | 0.714 | 1.033 | 1.067 | 1.042 | 2.565 | 0.905 | 0.959 | 7.563 | 0.90 | 1.426 |

```
* * * * *
* * Rural major collector- Iredell County - PM
* *
* * File 1, Run 1, Scenario 21.
* *
* * Rural major collector mix and speeds
* * * * *
```

M615 Comment:

User supplied VMT mix.

MS583 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

| | Altitude: | Low |
|----------------------|-----------|------------|
| Minimum Temperature: | | 71.0 (F) |
| Maximum Temperature: | | 89.6 (F) |
| Minimum Rel. Hum.: | | 47.0 (%) |
| Maximum Rel. Hum.: | | 91.0 (%) |
| Barometric Pressure: | | 30.00 (in) |
| 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 | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC: | 1.146 | 1.793 | 1.461 | 1.708 | 1.900 | 0.467 | 0.678 | 0.504 | 3.60 | 1.438 |
| Composite NOX: | 0.642 | 0.953 | 0.983 | 0.960 | 2.697 | 0.813 | 0.860 | 6.535 | 0.96 | 1.192 |

M583 Warning:
The user supplied arterial average speed of 22.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.166 | 1.819 | 1.483 | 1.733 | 1.951 | 0.477 | 0.694 | 0.504 | 3.65 | 1.475 |
| Composite NOX : | 0.651 | 0.963 | 0.994 | 0.971 | 2.670 | 0.825 | 0.873 | 6.385 | 0.95 | 1.068 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban minor arterial- Iredell County - PM
* File 1, Run 1, Scenario 25.
* # # # # # # # # # # # # # # # # # #
* Urban minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.127 | 1.769 | 1.441 | 1.685 | 1.844 | 0.457 | 0.664 | 0.457 | 3.55 | 1.431 |
| Composite NOX : | 0.633 | 0.943 | 0.973 | 0.951 | 2.714 | 0.801 | 0.848 | 5.971 | 0.97 | 1.040 |

* * * * *
* Urban collector- Iredell County - PM
* File 1, Run 1, Scenario 26.
* * * * *
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 21.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi


```

-----
VMT Distribution: 0.4018 0.3860 0.1317 0.0350 0.0004 0.0020 0.0374 0.0057 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 1.146 1.793 1.461 1.708 0.678 0.454 3.60 1.450
Composite NOX : 0.642 0.953 0.983 0.960 0.860 5.774 0.96 1.073
-----

* * * * *
* Rural Interstate - Iredell County - Nite
* File 1, Run 1, Scenario 28.
* * * * *
* Rural interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M 96 Warning:
    68.0 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: 71.0 (F)
    Maximum Temperature: 89.6 (F)
    Minimum Rel. Hum.: 47.0 (%)
    Maximum Rel. Hum.: 91.0 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 9.0 psi
    Weathered RVP: 8.6 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: -----
VMT Distribution: 0.3148 0.3030 0.1033 0.0807 0.0003 0.0016 0.1917 0.0046 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.842 1.409 1.139 1.341 0.459 0.282 3.71 0.979
Composite NOX : 0.619 0.970 0.992 0.976 1.540 14.032 1.54 3.588
-----

```

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Iredell County - Nite
* File 1, Run 1, Scenario 29.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 38.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | <6000 | >6000 | ---- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | ----- | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.970 | 1.577 | 1.279 | 1.501 | 1.425 | 0.366 | 0.526 | 0.342 | 3.11 | 1.220 |
| Composite NOX : | 0.575 | 0.890 | 0.916 | 0.896 | 3.046 | 0.764 | 0.808 | 6.370 | 1.08 | 1.239 |
| ----- | | | | | | | | | | |

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector- Iredell County - Nite
* File 1, Run 1, Scenario 30.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.939 | 1.541 | 1.249 | 1.467 | 1.342 | 0.348 | 0.499 | 0.299 | 3.03 | 1.205 |
| Composite NOX : | 0.581 | 0.902 | 0.927 | 0.909 | 3.155 | 0.800 | 0.847 | 6.379 | 1.11 | 1.107 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # #
* Rural minor collector- Iredell County - Nite
* File 1, Run 1, Scenario 31.
* # # # # # # # # # # # # # # # # #
* Rural minor 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

```
* * * * *
* Rural local-Iredell County - Nite
* File 1, Run 1, Scenario 32.
* * * * *
* Rural local mix and speeds
```

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

| | |
|----------------------|-------------------|
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |

Exhaust I/M Program: Yes
Evap I/M Program: 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: 0.3763 0.3658 0.1248 0.0512 0.0004 0.0019 0.0741 0.0055 1.0000

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.021 | 1.638 | 1.330 | 1.560 | 1.553 | 0.396 | 0.571 | 0.383 | 3.26 | 1.277 |
| Composite NOX : | 0.583 | 0.892 | 0.919 | 0.899 | 2.903 | 0.756 | 0.800 | 6.071 | 1.05 | 1.267 |

- * # # # # # # # # # # # # # # # # # # #
- * Urban principle arterial- Iredell County - Nite
- * File 1, 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 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

VMT Distribution: 0.4066 0.3916 0.1335 0.0262 0.0004 0.0021 0.0338 0.0058 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 0.984 1.593 1.292 1.517 1.454 0.375 0.539 0.335 3.15 1.265
 Composite NOX : 0.573 0.886 0.912 0.892 2.989 0.756 0.800 5.844 1.07 0.986

 * * * * *
 * Urban minor arterial- Iredell County - Nite
 * File 1, 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 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

 Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

 Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDV MC All Veh
 GVWR: <6000 >6000

 VMT Distribution: 0.4058 0.3906 0.1332 0.0285 0.0004 0.0021 0.0335 0.0059 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 0.992 1.602 1.299 1.525 1.475 0.380 0.547 0.333 3.17 1.274
 Composite NOX : 0.572 0.884 0.910 0.890 2.964 0.752 0.796 5.594 1.07 0.979

 * * * * *
 * Urban collector- Iredell County - Nite

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

```
* * * * *
* * Urban local- Iredell County - Nite
* * File 1, Run 1, Scenario 36.
* * * * *
* * Urban local mix and speeds
* * * * *
```

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: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDLV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.095 | 1.728 | 1.407 | 1.646 | 1.750 | 0.439 | 0.637 | 0.411 | 3.47 | 1.390 |
| Composite NOX : | 0.617 | 0.926 | 0.955 | 0.934 | 2.757 | 0.783 | 0.829 | 5.561 | 0.99 | 1.043 |
| ----- | | | | | | | | | | |

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will be used for all hours of the day. 100% of VMT has been assigned to the 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3148 | 0.3030 | 0.1033 | | 0.0807 | 0.0003 | 0.0016 | 0.1917 | 0.0046 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.952 | 1.571 | 1.283 | 1.498 | 1.253 | 0.327 | 0.468 | 0.293 | 2.99 | 1.080 |
| Composite NOX : | 0.671 | 1.047 | 1.060 | 1.050 | 3.403 | 0.970 | 1.028 | 9.675 | 1.25 | 2.775 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # #
* Rural minor arterial- Iredell County - AM
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 21.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.284 | 1.989 | 1.640 | 1.900 | 2.025 | 0.489 | 0.711 | 0.559 | 3.71 | 1.583 |
| Composite NOX : | 0.745 | 1.098 | 1.119 | 1.103 | 2.654 | 0.838 | 0.888 | 6.998 | 0.94 | 1.433 |

* * * * *
 * Rural major collector- Iredell County - AM
 * File 1, Run 1, Scenario 3.
 * * * * *
 * Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | (All) | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.090 | 1.742 | 1.428 | 1.662 | 1.526 | 0.390 | 0.563 | 0.370 | 3.23 | 1.376 |
| Composite NOX : | 0.654 | 1.003 | 1.021 | 1.008 | 2.925 | 0.754 | 0.798 | 6.012 | 1.05 | 1.162 |

* * * * *
* Rural minor collector- Iredell County - AM
* File 1, Run 1, Scenario 4.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | (All) | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

* #
* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.796 | 0.448 | 0.650 | 0.457 | 3.51 | 1.513 |
| Composite NOX : | 0.704 | 1.054 | 1.073 | 1.059 | 2.733 | 0.791 | 0.837 | 6.119 | 0.98 | 1.128 |

* #
* Urban minor arterial- Iredell County - AM
* File 1, Run 1, Scenario 7.

* #
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.797 | 0.448 | 0.650 | 0.443 | 3.51 | 1.513 |
| Composite NOX : | 0.704 | 1.054 | 1.073 | 1.059 | 2.733 | 0.791 | 0.837 | 5.892 | 0.98 | 1.123 |

* * * * *
* Urban collector- Iredell County - AM
* File 1, Run 1, Scenario 8.
* * * * *
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.217 | 1.902 | 1.565 | 1.816 | 1.842 | 0.457 | 0.664 | 0.440 | 3.55 | 1.537 |
| Composite NOX : | 0.713 | 1.063 | 1.083 | 1.068 | 2.712 | 0.801 | 0.848 | 5.730 | 0.97 | 1.117 |

* * * * *
* Urban local- Iredell County - AM
* File 1, Run 1, Scenario 9.
* * * * *
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

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* Rural major 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

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | <6000 | >6000 | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.069 | 1.716 | 1.405 | 1.637 | 1.478 | 0.380 | 0.547 | 0.352 | 3.17 | 1.352 |
| Composite NOX : | 0.647 | 0.997 | 1.015 | 1.002 | 2.967 | 0.752 | 0.796 | 5.993 | 1.07 | 1.157 |

* #

* Rural minor collector- Iredell County - Midday

* File 1, Run 1, Scenario 13.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.801 | 0.448 | 0.650 | 0.472 | 3.51 | 1.495 |
| Composite NOX : | 0.704 | 1.054 | 1.073 | 1.058 | 2.737 | 0.791 | 0.837 | 6.359 | 0.98 | 1.259 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural local- Iredell County - Midday
* File 1, Run 1, Scenario 14.
* # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.182 | 1.857 | 1.526 | 1.773 | 1.757 | 0.439 | 0.637 | 0.457 | 3.47 | 1.459 |
| Composite NOX : | 0.696 | 1.044 | 1.064 | 1.049 | 2.764 | 0.783 | 0.829 | 6.299 | 0.99 | 1.392 |

* * * * *
* Urban principle arterial- Iredell County - Midday
* File 1, Run 1, Scenario 15.

* * * * *
* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | | | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.182 | 1.857 | 1.526 | 1.773 | 1.752 | 0.439 | 0.637 | 0.441 | 3.47 | 1.494 |
| Composite NOX : | 0.696 | 1.044 | 1.064 | 1.049 | 2.760 | 0.783 | 0.829 | 6.060 | 0.99 | 1.119 |

* * * * *
* Urban minor arterial- Iredell County - Midday
* File 1, Run 1, Scenario 16.
* * * * *
* * * * *
* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | | | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.166 | 1.838 | 1.510 | 1.754 | 1.712 | 0.431 | 0.624 | 0.415 | 3.43 | 1.477 |
| Composite NOX : | 0.688 | 1.036 | 1.055 | 1.041 | 2.784 | 0.777 | 0.822 | 5.782 | 1.00 | 1.105 |

M583 Warning:
The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.217 | 1.902 | 1.565 | 1.816 | 1.841 | 0.457 | 0.664 | 0.439 | 3.55 | 1.532 |
| Composite NOX : | 0.713 | 1.063 | 1.083 | 1.068 | 2.711 | 0.801 | 0.848 | 5.692 | 0.97 | 1.155 |
| ----- | | | | | | | | | | |

* #
* Rural Interstate - Iredell County - PM
* File 1, Run 1, Scenario 19.
* #
* Rural interstate mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGTL34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|---------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VTM Distribution: | 0.3148 | 0.3030 | 0.1033 | | 0.0807 | 0.0003 | 0.0016 | 0.1917 | 0.0046 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.937 | 1.549 | 1.265 | 1.477 | 1.233 | 0.324 | 0.463 | 0.287 | 3.07 | 1.064 |
| Composite NOX : | 0.676 | 1.056 | 1.069 | 1.059 | 3.471 | 1.053 | 1.117 | 10.430 | 1.32 | 2.931 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor arterial- Iredell County - PM
* File 1, Run 1, Scenario 20.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 17.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

```

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 <6000 -----
VMT Distribution: 0.3851 0.3703 0.1262 0.0417 0.0004 0.0019 0.0687 0.0056 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 1.436 2.182 1.809 2.087 2.359 0.540 0.788 0.649 3.99 1.756
Composite NOX : 0.802 1.162 1.185 1.168 2.565 0.905 0.959 7.563 0.90 1.523
-----
* # # # # # # # # # # # # # # # # # #
* Rural major collector- Iredell County - PM
* File 1, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # #
* Rural major 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 <6000 -----

```



```

VMT Distribution:  0.3986  0.3832  0.1306  0.0330  0.0004  0.0020  0.0464  0.0058  1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC :   1.139   1.804   1.481   1.722   0.601   0.413   3.35   1.433
Composite NOX :   0.674   1.021   1.039   1.026   0.809   6.091   1.02   1.179
-----

* * * * *
* Rural minor collector- Iredell County - PM
* File 1, Run 1, Scenario 22.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 23.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:  LDGV  LDGT12  LDGT34  LDGT  HDGV  LDDV  LDDT  HDDV  MC  All Veh
GVWR:          -----
VMT Distribution:  0.3948  0.3787  0.1291  0.0364  0.0004  0.0020  0.0529  0.0057  1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC :   1.237   1.928   1.588   1.841   0.467   0.678   0.504   3.60   1.541
Composite NOX :   0.723   1.074   1.094   1.079   0.813   0.860   6.535   0.96   1.285
-----

* * * * *

```

```

* Rural local- Iredell County - PM
* File 1, Run 1, Scenario 23.
* # # # # # # # # # # # # # # # #
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 <6000 -----
VMT Distribution: 0.3763 0.3658 0.1248 0.0512 0.0004 0.0019 0.0741 0.0055 1.0000
-----

Composite Emission Factors (g/ml):
Composite VOC : 1.217 1.902 1.565 1.816 0.457 0.664 0.488 3.55 1.501
Composite NOX : 0.713 1.063 1.083 1.068 0.801 0.848 6.444 0.97 1.416
-----

* # # # # # # # # # # # # # # # #
* Urban principle arterial- Iredell County - PM
* File 1, Run 1, Scenario 24.
* # # # # # # # # # # # # # # # #
* Urban principle arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 22.0
will be used for all hours of the day. 100% of VMT

```

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.260 | 1.957 | 1.613 | 1.869 | 1.951 | 0.477 | 0.694 | 0.504 | 3.65 | 1.585 |
| Composite NOX : | 0.733 | 1.085 | 1.106 | 1.091 | 2.670 | 0.825 | 0.873 | 6.385 | 0.95 | 1.164 |

* * * * *
* Urban minor arterial- Iredell County - PM
* File 1, Run 1, Scenario 25.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.217 | 1.902 | 1.565 | 1.816 | 1.844 | 0.457 | 0.664 | 0.457 | 3.55 | 1.535 |
| Composite NOX : | 0.713 | 1.063 | 1.083 | 1.068 | 2.714 | 0.801 | 0.848 | 5.971 | 0.97 | 1.134 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban collector- Iredell County - PM
 * File 1, Run 1, Scenario 26.
 * * * * *
 * * * * *
 * Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 21.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No

Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.284 | 1.989 | 1.640 | 1.900 | 2.012 | 0.489 | 0.711 | 0.489 | 3.71 | 1.616 |
| Composite NOX : | 0.745 | 1.098 | 1.119 | 1.103 | 2.644 | 0.838 | 0.888 | 6.002 | 0.94 | 1.154 |

- * #
- * Urban local- Iredell County - PM
- * File 1, Run 1, Scenario 27.
- * #
- * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 23.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: 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: | 0.4018 | 0.3860 | 0.1317 | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 | |

Composite Emission Factors (g/mi):
Composite VOC : 1.237 1.928 1.588 1.841 1.892 0.467 0.678 0.454 3.60 1.556
Composite NOX : 0.723 1.074 1.094 1.079 2.691 0.813 0.860 5.774 0.96 1.166

* * * * *
* Rural Interstate - Iredell County - Nite
* File 1, Run 1, Scenario 28.
* * * * *
* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.
M 96 Warning: 68.0 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT (All) LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.3148 0.3030 0.1033 0.0807 0.0003 0.0016 0.1917 0.0046 1.0000

Composite Emission Factors (g/mi):
Composite VOC : 0.902 1.497 1.220 1.426 1.207 0.321 0.459 0.282 3.71 1.033
Composite NOX : 0.692 1.086 1.098 1.089 3.678 1.451 1.540 14.032 1.54 3.657

* * * * *
* Rural minor arterial- Iredell County - Nite

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

```
* * * * *
* * Rural major collector- Iredell County - Nite
* * File 1, Run 1, Scenario 30.
* *
* * Rural major collector mix and speeds
* * * * *
```

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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.011 | 1.648 | 1.348 | 1.571 | 1.342 | 0.348 | 0.499 | 0.299 | 3.03 | 1.287 |
| Composite NOX : | 0.655 | 1.016 | 1.032 | 1.020 | 3.155 | 0.800 | 0.847 | 6.379 | 1.11 | 1.194 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # #
* Rural minor collector- Iredell County - Nite
* File 1, Run 1, Scenario 31.
* # # # # # # # # # # # # # # # # #
* Rural minor 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: 71.0 (F)
Maximum Temperature: 89.6 (F)

| | |
|----------------------|-----|
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

[illegible]

M615 Comment:

M583 Warning:

M 48 Warning:

| | |
|----------------------|----------|
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |

| | | |
|---------|--------------|----|
| Exhaust | I/M Program: | No |
| Evap | I/M Program: | No |

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.102 | 1.757 | 1.441 | 1.676 | 1.553 | 0.396 | 0.571 | 0.383 | 3.26 | 1.364 |
| Composite NOX : | 0.659 | 1.007 | 1.025 | 1.011 | 2.903 | 0.756 | 0.800 | 6.071 | 1.05 | 1.350 |

* * * * *
* Urban principle arterial- Iredell County - Nite
* File 1, 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 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |

Composite Emission Factors (g/ml):

Composite VOC : 1.061 1.706 1.397 1.627 1.454 0.375 0.539 0.335 3.15 1.355
Composite NOX : 0.648 0.999 1.017 1.004 2.989 0.756 0.800 5.844 1.07 1.075

* # # # # # # # # # # # # # # # # # #
* Urban minor arterial- Iredell County - Nite
* File 1, 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 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):
Composite VOC : 1.069 1.716 1.405 1.637 1.475 0.380 0.547 0.333 3.17 1.365
Composite NOX : 0.647 0.997 1.015 1.002 2.964 0.752 0.796 5.594 1.07 1.068

* # # # # # # # # # # # # # # # # # #
* Urban collector- Iredell County - Nite
* File 1, Run 1, Scenario 35.
* # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds

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```
* * * * *
* Urban local- Iredell County - Nite
* File 1, Run 1, Scenario 36.
* * * * *
* Urban local mix and speeds
```

M583 Warning: The user supplied arterial average speed of 26.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.182 | 1.857 | 1.526 | 1.773 | 1.750 | 0.439 | 0.637 | 0.411 | 3.47 | 1.490 |
| Composite NOX : | 0.696 | 1.044 | 1.064 | 1.049 | 2.757 | 0.783 | 0.829 | 5.561 | 0.99 | 1.135 |
| ----- | | | | | | | | | | |

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Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |

Composite Emission Factors (g/ml):
Composite VOC : 1.001 1.613 1.309 1.536
Composite NOX : 0.576 0.886 0.913 0.893

* * * * *
* Rural major collector- Lincoln County - AM
* File 1, Run 1, Scenario 3.
* * * * *
* Rural major collector mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.876 | 1.460 | 1.182 | 1.390 | 1.225 | 0.325 | 0.464 | 0.259 | 2.99 | 1.134 |
| Composite NOX : | 0.601 | 0.938 | 0.961 | 0.944 | 3.428 | 1.015 | 1.076 | 8.127 | 1.30 | 1.225 |

- * #
- * Rural minor collector- Lincoln County - AM
- * File 1, Run 1, Scenario 4.
- * #
- * Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

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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* * * * *
 * Urban principle arterial- Lincoln County - AM
 * File 1, Run 1, Scenario 6.
 * * * * *
 * Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.945 | 1.548 | 1.255 | 1.473 | 1.352 | 0.351 | 0.504 | 0.296 | 3.04 | 1.222 |
| Composite NOX : | 0.580 | 0.900 | 0.925 | 0.906 | 3.128 | 0.790 | 0.837 | 6.114 | 1.10 | 1.009 |

* * * * *
 * Urban minor arterial- Lincoln County - AM
 * File 1, Run 1, Scenario 7.
 * * * * *
 * Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 23.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.146 | 1.793 | 1.461 | 1.708 | 1.896 | 0.467 | 0.678 | 0.473 | 3.60 | 1.452 |
| Composite NOX : | 0.642 | 0.953 | 0.983 | 0.961 | 2.693 | 0.813 | 0.860 | 6.056 | 0.96 | 1.051 |
| ----- | | | | | | | | | | |

* #
* Urban collector- Lincoln County - AM
* File 1, Run 1, Scenario 8.
* #
* 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

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |

VMT Distribution: 0.4066 0.3911 0.1333 0.0293 0.0004 0.0021 0.0313 0.0059 1.0000

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.067 | 1.695 | 1.379 | 1.615 | 1.673 | 0.423 | 0.612 | 0.387 | 3.39 | 1.363 |
| Composite NOX : | 0.603 | 0.912 | 0.939 | 0.919 | 2.805 | 0.770 | 0.815 | 5.500 | 1.01 | 0.990 |

* * * * *
 * Urban local- Lincoln County - AM
 * File 1, Run 1, Scenario 9.
 * * * * *
 * Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.408 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.052 |

* * * * *
* Rural principle arterial- Lincoln County - Midday
* File 1, Run 1, Scenario 10.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 59.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

* # # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.868 | 1.448 | 1.173 | 1.378 | 1.216 | 0.323 | 0.462 | 0.256 | 3.14 | 1.126 |
| Composite NOX : | 0.604 | 0.945 | 0.968 | 0.951 | 3.477 | 1.090 | 1.156 | 8.732 | 1.35 | 1.260 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
* Rural minor collector- Lincoln County - Midday
* File 1, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # #
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.922 | 1.521 | 1.232 | 1.448 | 1.306 | 0.340 | 0.487 | 0.287 | 3.00 | 1.180 |
| Composite NOX : | 0.586 | 0.911 | 0.935 | 0.917 | 3.223 | 0.834 | 0.883 | 6.708 | 1.13 | 1.178 |

* #
* Rural local- Lincoln County - Midday
* File 1, Run 1, Scenario 14.
* #
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.055 | 1.680 | 1.366 | 1.600 | 1.643 | 0.416 | 0.601 | 0.417 | 3.35 | 1.317 |
| Composite NOX : | 0.597 | 0.905 | 0.932 | 0.912 | 2.833 | 0.764 | 0.809 | 6.140 | 1.02 | 1.280 |

* * * * *
 * Urban principle arterial- Lincoln County - Midday
 * File 1, Run 1, Scenario 15.
 * * * * *
 * Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes

```
* * * * *
* Urban minor arterial- Lincoln County - Midday
* File 1, Run 1, Scenario 16.
* * * * *
* Urban minor arterial mix and speeds
```

User supplied VMT mix.

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

| | Altitude: | Low |
|----------------------|-----------|------------|
| Minimum Temperature: | | 71.0 (F) |
| Maximum Temperature: | | 89.6 (F) |
| Minimum Rel. Hum.: | | 47.0 (%) |
| Maximum Rel. Hum.: | | 91.0 (%) |
| Barometric Pressure: | | 30.00 (in) |
| 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 NOX : 0.625 0.935 0.963 0.942 2.733 0.791 0.837 5.892 0.98 1.030

* * * * *
* Urban collector- Lincoln County - Midday
* File 1, Run 1, Scenario 17.
* * * * *
* * * * *
* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.4066 0.3911 0.1333 0.0293 0.0004 0.0021 0.0313 0.0059 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 1.021 1.638 1.330 1.560 1.547 0.396 0.572 0.346 3.26 1.310

Composite NOX : 0.583 0.892 0.919 0.899 2.897 0.756 0.800 5.394 1.05 0.970

* * * * *
* Urban local- Lincoln County - Midday
* File 1, Run 1, Scenario 18.
* * * * *
* * * * *
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.408 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.052 |
| ----- | | | | | | | | | | |

* * * * *
* Rural principle arterial- Lincoln County - PM
* File 1, Run 1, Scenario 19.
* * * * *
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.881 | 1.466 | 1.187 | 1.396 | 1.247 | 0.326 | 0.466 | 0.294 | 2.99 | 1.092 |
| Composite NOX : | 0.599 | 0.935 | 0.958 | 0.941 | 3.428 | 0.993 | 1.053 | 10.004 | 1.27 | 1.847 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor arterial- Lincoln County - PM
* File 1, Run 1, Scenario 20.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:
M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

| | |
|----------------------|-----|
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.011 | 1.625 | 1.319 | 1.547 | 1.532 | 0.390 | 0.563 | 0.385 | 3.23 | 1.267 |
| Composite NOX : | 0.579 | 0.889 | 0.916 | 0.896 | 2.931 | 0.754 | 0.798 | 6.290 | 1.05 | 1.230 |

M615 Comment:

M583 Warning:

M 48 Warning:

Reformulated Gas: No

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there are no sales for vehicle class HDGV8b

Reformulated Gas: No

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.957 | 1.562 | 1.267 | 1.487 | 1.381 | 0.358 | 0.514 | 0.307 | 3.07 | 1.236 |
| Composite NOX : | 0.577 | 0.893 | 0.919 | 0.900 | 3.079 | 0.771 | 0.816 | 5.958 | 1.09 | 0.997 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban minor arterial- Lincoln County - PM
* File 1, Run 1, Scenario 25.
* # # # # # # # # # # # # # # # # # #
* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 21.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|--|--|--|--|--|--|--|--|
| GVWR: | <6000 | >6000 | | | | | | | | |
|-------|-------|-------|--|--|--|--|--|--|--|--|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):
 Composite VOC : 1.188 1.847 1.508 1.761 2.014 0.489 0.711 0.508 3.71 1.502
 Composite NOX : 0.662 0.975 1.006 0.983 2.646 0.838 0.888 6.252 0.94 1.076
 * * * * *
 * Urban collector- Lincoln County - PM
 * File 1, Run 1, Scenario 26.
 * * * * *
 * * * * *
 * 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |

VTM Distribution: 0.4066 0.3911 0.1333 0.0293 0.0004 0.0021 0.0313 0.0059 1.0000

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.067 | 1.695 | 1.379 | 1.615 | 1.673 | 0.423 | 0.612 | 0.387 | 3.39 | 1.363 |
| Composite NOX : | 0.603 | 0.912 | 0.939 | 0.919 | 2.805 | 0.770 | 0.815 | 5.500 | 1.01 | 0.990 |

- * #
- * Urban local- Lincoln County - PM
- * File 1, Run 1, Scenario 27.
- * #
- * Urban local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |

VTM Distribution: 0.4018 0.3860 0.1317 0.0350 0.0004 0.0020 0.0374 0.0057 1.0000

* #
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.910 | 1.507 | 1.221 | 1.434 | 1.289 | 0.336 | 0.480 | 0.289 | 3.00 | 1.154 |
| Composite NOX : | 0.589 | 0.917 | 0.941 | 0.923 | 3.276 | 0.866 | 0.917 | 7.229 | 1.15 | 1.327 |

* #
* Rural major collector- Lincoln County - Nite
* File 1, Run 1, Scenario 30.

* #
* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.864 | 1.443 | 1.168 | 1.373 | 1.211 | 0.323 | 0.461 | 0.255 | 3.21 | 1.122 |
| Composite NOX : | 0.606 | 0.948 | 0.971 | 0.954 | 3.500 | 1.125 | 1.193 | 9.018 | 1.37 | 1.276 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor collector- Lincoln County - Nite
* File 1, Run 1, Scenario 31.
* * * * *
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.910 | 1.507 | 1.221 | 1.434 | 1.285 | 0.336 | 0.480 | 0.280 | 3.00 | 1.168 |
| Composite NOX : | 0.589 | 0.917 | 0.941 | 0.923 | 3.270 | 0.866 | 0.917 | 6.968 | 1.15 | 1.198 |

* * * * *
* Rural local- Lincoln County - Nite
* File 1, Run 1, Scenario 32.
* * * * *
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes


```

* * * * *
* * Urban principle arterial- Lincoln County - Nite
* * File 1, Run 1, Scenario 33.
* * * * *
* * Urban principle arterial mix and speeds
* * * * *

```

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

Month: July

Altitude: Low

Minimum Temperature: 71.9 (F)
Maximum Temperature: 89.6 (F)

Maximum Rel. Hum.: 91.0 (%)

| | |
|-------------------|-------------|
| Nominal Fuel RVP: | 9.0 psi |
| ICBPATC: | 30:00 (min) |

Weathered KVP: 0.6 psi
Filler Content: 30 ppm

Fuel sulfur content: ppm

Exhaust T/M Program: Yes

Exhaust I/M Program: Yes

| | |
|-------------------|-----|
| Evap I/M Program: | Yes |
|-------------------|-----|

ATP Program: Yes

Reformulated Gas: No

Type: LDGV LDGT12 I

GVWR: <6000

.....

0.4066 0.3916

.....

ssion Factors (g/mi):

VOC : 0.910 1.507

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Composite NOX : 0.589 0.917 0.941 0.923 3.266 0.866 0.917 6.708 1.15 1.046

* * * * *
* Urban minor arterial- Lincoln County - Nite
* File 1, 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 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV HDDV LDDV LDDT MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.4058 0.3906 0.1332 0.0285 0.0004 0.0021 0.0335 0.0059 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 1.055 1.680 1.366 1.600 1.640 0.416 0.601 0.391 3.35 1.347

Composite NOX : 0.597 0.905 0.932 0.912 2.829 0.764 0.809 5.687 1.02 0.999

* * * * *
* Urban collector- Lincoln County - Nite
* File 1, Run 1, Scenario 35.
* * * * *

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.001 | 1.613 | 1.309 | 1.536 | 1.497 | 0.385 | 0.554 | 0.328 | 3.20 | 1.287 |
| Composite NOX : | 0.576 | 0.886 | 0.913 | 0.893 | 2.941 | 0.753 | 0.797 | 5.375 | 1.06 | 0.965 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #

* Urban local- Lincoln County - Nite

* File 1, Run 1, Scenario 36.

* # # # # # # # # # # # # # # # # # #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDLV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.408 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.052 |
| ----- | | | | | | | | | | |

5.2.8 Lincoln 2008 Non-I/M (L2008N.TXT)

```
*****
* MOBIL6.2.03 (24-Sep-2003) *
* Input file: L2008N.IN (file 1, run 1). *
*****

* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # #
* Rural principle arterial- Lincoln County - AM
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning: The user supplied freeway average speed of 56.0
```

will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.937 | 1.549 | 1.265 | 1.477 | 1.235 | 0.324 | 0.463 | 0.290 | 3.07 | 1.151 |
| Composite NOX : | 0.676 | 1.056 | 1.069 | 1.059 | 3.474 | 1.053 | 1.117 | 10.555 | 1.32 | 1.991 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Lincoln County - AM
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: 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: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.079 | 1.729 | 1.416 | 1.649 | 1.507 | 0.385 | 0.554 | 0.376 | 3.20 | 1.342 |
| Composite NOX : | 0.651 | 1.000 | 1.018 | 1.005 | 2.952 | 0.753 | 0.797 | 6.280 | 1.06 | 1.312 |

* * * * *
 * Rural major collector- Lincoln County - AM
 * File 1, Run 1, Scenario 3.
 * * * * *
 * Rural major collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | (All) | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.941 | 1.556 | 1.271 | 1.484 | 1.225 | 0.325 | 0.464 | 0.259 | 2.99 | 1.208 |
| Composite NOX : | 0.674 | 1.053 | 1.066 | 1.056 | 3.428 | 1.015 | 1.076 | 8.127 | 1.30 | 1.311 |

* * * * *
* Rural minor collector- Lincoln County - AM
* File 1, Run 1, Scenario 4.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | (All) | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

* # # # # # # # # # # # # # # # # # # #
* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.018 | 1.655 | 1.354 | 1.579 | 1.352 | 0.351 | 0.504 | 0.296 | 3.04 | 1.307 |
| Composite NOX : | 0.653 | 1.013 | 1.029 | 1.017 | 3.128 | 0.790 | 0.837 | 6.114 | 1.10 | 1.097 |

* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial- Lincoln County - AM
* File 1, Run 1, Scenario 7.

* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 23.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.237 | 1.928 | 1.588 | 1.841 | 1.896 | 0.467 | 0.678 | 0.473 | 3.60 | 1.559 |
| Composite NOX : | 0.723 | 1.074 | 1.094 | 1.079 | 2.693 | 0.813 | 0.860 | 6.056 | 0.96 | 1.146 |

* * * * *
* Urban collector- Lincoln County - AM
* File 1, Run 1, Scenario 8.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.152 | 1.820 | 1.495 | 1.737 | 1.673 | 0.423 | 0.612 | 0.387 | 3.39 | 1.462 |
| Composite NOX : | 0.681 | 1.028 | 1.047 | 1.033 | 2.805 | 0.770 | 0.815 | 5.500 | 1.01 | 1.081 |

* * * * *
 * Urban local- Lincoln County - AM
 * File 1, Run 1, Scenario 9.
 * * * * *
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

```

* * * * *
* * Rural principle arterial- Lincoln County - Midday
* *
* * File 1, Run 1, Scenario 10.
* *
* * Rural other principle arterial mix and speeds
* *

```

User supplied VMT mix.

The user supplied freeway average speed of 59.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

| | |
|----------------------|------------|
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (in) |
| 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 |

Composite Emission Factors (g/mi):

Composite NOX : 0.681 1.066 1.079 1.069 3.544 1.159 1.230 11.527 1.39 2.101

* * * * *
* Rural minor arterial- Lincoln County - Midday
* File 1, Run 1, Scenario 11.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3851 0.3703 0.1262 0.0417 0.0004 0.0019 0.0687 0.0056 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 1.032 1.671 1.368 1.594 1.390 0.358 0.514 0.328 3.07 1.288

Composite NOX : 0.650 1.007 1.023 1.011 3.088 0.771 0.816 6.428 1.09 1.331

* * * * *
* Rural major collector- Lincoln County - Midday
* File 1, Run 1, Scenario 12.
* * * * *
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.932 | 1.543 | 1.259 | 1.471 | 1.216 | 0.323 | 0.462 | 0.256 | 3.14 | 1.198 |
| Composite NOX : | 0.678 | 1.060 | 1.073 | 1.063 | 3.477 | 1.090 | 1.156 | 8.732 | 1.35 | 1.347 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor collector- Lincoln County - Midday
* File 1, Run 1, Scenario 13.
* * * * *
* * * * *
* 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: 2008 | | | | | | | | | | |
| Month: | July | | | | | | | | | |
| Altitude: | Low | | | | | | | | | |
| Minimum Temperature: | 71.0 (F) | | | | | | | | | |
| Maximum Temperature: | 89.6 (F) | | | | | | | | | |
| Minimum Rel. Hum.: | 47.0 (%) | | | | | | | | | |
| Maximum Rel. Hum.: | 91.0 (%) | | | | | | | | | |
| Barometric Pressure: | 30.00 (inches Hg) | | | | | | | | | |
| Nominal Fuel RVP: | 9.0 psi | | | | | | | | | |
| Weathered RVP: | 8.6 psi | | | | | | | | | |
| Fuel Sulfur Content: | 30. ppm | | | | | | | | | |
| Exhaust I/M Program: | No | | | | | | | | | |
| Evap I/M Program: | No | | | | | | | | | |
| ATP Program: | Yes | | | | | | | | | |
| Reformulated Gas: | No | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDLV | LDLT | HDDV | MC | All Veh |
| GVMR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi.): | | | | | | | | | | |
| Composite VOC : | 0.992 | 1.625 | 1.329 | 1.550 | 1.306 | 0.340 | 0.487 | 0.287 | 3.00 | 1.260 |
| Composite NOX : | 0.659 | 1.025 | 1.040 | 1.029 | 3.223 | 0.834 | 0.883 | 6.708 | 1.13 | 1.263 |

M615 Comment: User supplied VMT mix.

The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

* * * * *
 * Urban collector- Lincoln County - Midday
 * File 1, Run 1, Scenario 17.
 * * * * *
 * Urban collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.102 | 1.757 | 1.441 | 1.676 | 1.547 | 0.396 | 0.572 | 0.346 | 3.26 | 1.404 |
| Composite NOX : | 0.659 | 1.007 | 1.025 | 1.011 | 2.897 | 0.756 | 0.800 | 5.394 | 1.05 | 1.060 |

* * * * *
 * Urban local- Lincoln County - Midday
 * File 1, Run 1, Scenario 18.
 * * * * *
 * Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.509 |
| Composite NOX : | 0.704 | 1.054 | 1.073 | 1.058 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.144 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # #
* Rural principle arterial- Lincoln County - PM
* File 1, Run 1, Scenario 19.
* # # # # # # # # # # # # # # # # #
* 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: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|-------|--|--|--|--|--|--|--|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
|-------|-------|-------|-------|--|--|--|--|--|--|--|

VTM Distribution: 0.3708 0.3569 0.1216

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.946 | 1.563 | 1.277 | 1.490 | 1.247 | 0.326 | 0.466 | 0.294 | 2.99 | 1.162 |
| Composite NOX : | 0.672 | 1.050 | 1.063 | 1.053 | 3.428 | 0.993 | 1.053 | 10.004 | 1.27 | 1.927 |

* * * * *
* Rural minor arterial- Lincoln County - PM
* File 1, Run 1, Scenario 20.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: 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: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.090 | 1.742 | 1.428 | 1.662 | 1.532 | 0.390 | 0.563 | 0.385 | 3.23 | 1.355 |
| Composite NOX : | 0.654 | 1.003 | 1.021 | 1.008 | 2.931 | 0.754 | 0.798 | 6.290 | 1.05 | 1.315 |

- * * * * *
* Rural major collector- Lincoln County - PM
* File 1, Run 1, Scenario 21.
* * * * *
* Rural major collector 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: 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: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

* # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.139 | 1.804 | 1.481 | 1.722 | 1.643 | 0.416 | 0.601 | 0.417 | 3.35 | 1.408 |
| Composite NOX : | 0.674 | 1.021 | 1.039 | 1.026 | 2.833 | 0.764 | 0.809 | 6.140 | 1.02 | 1.364 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
* Urban principle arterial- Lincoln County - PM

* File 1, Run 1, Scenario 24.

* # # # # # # # # # # # # # # # # # # #
* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.032 | 1.671 | 1.368 | 1.594 | 1.381 | 0.358 | 0.514 | 0.307 | 3.07 | 1.322 |
| Composite NOX : | 0.650 | 1.007 | 1.023 | 1.011 | 3.079 | 0.771 | 0.816 | 5.958 | 1.09 | 1.086 |

* * * * *
* Urban minor arterial- Lincoln County - PM
* File 1, Run 1, Scenario 25.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 21.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.284 | 1.989 | 1.640 | 1.900 | 2.014 | 0.489 | 0.711 | 0.508 | 3.71 | 1.614 |
| Composite NOX : | 0.745 | 1.098 | 1.119 | 1.103 | 2.646 | 0.838 | 0.888 | 6.252 | 0.94 | 1.173 |

* * * * *
* Urban collector- Lincoln County - PM
* File 1, Run 1, Scenario 26.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.152 | 1.820 | 1.495 | 1.737 | 1.673 | 0.423 | 0.612 | 0.387 | 3.39 | 1.462 |
| Composite NOX : | 0.681 | 1.028 | 1.047 | 1.033 | 2.805 | 0.770 | 0.815 | 5.500 | 1.01 | 1.081 |

* * * * *
* Urban local- Lincoln County - PM
* File 1, Run 1, Scenario 27.
* * * * *
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: 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: | 0.4018 | 0.3860 | 0.1317 | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.509 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

Composite NOX : 0.704 1.054 1.073 1.058 2.731 0.791 0.837 5.616 0.98 1.144

* * * * *
* Rural principle arterial- Lincoln County - Nite
* File 1, Run 1, Scenario 28.
* * * * *
* Rural other principle arterial 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDGV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3708 0.3569 0.1216 0.0404 0.0004 0.0019 0.1026 0.0054 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.912 1.513 1.234 1.442 1.214 0.321 0.459 0.285 3.50 1.126

Composite NOX : 0.687 1.076 1.089 1.079 3.614 1.301 1.381 12.821 1.47 2.244

* * * * *
* Rural minor arterial- Lincoln County - Nite
* File 1, Run 1, Scenario 29.

* * * * *

* 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT (All) | HDGV | LDDV | LDdT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.980 | 1.609 | 1.315 | 1.535 | 1.289 | 0.336 | 0.480 | 0.289 | 3.00 | 1.231 |
| Composite NOX : | 0.662 | 1.031 | 1.045 | 1.035 | 3.276 | 0.866 | 0.917 | 7.229 | 1.15 | 1.411 |

* # # # # # # # # # # # # # # # # # #

* Rural major collector- Lincoln County - Nite

* File 1, Run 1, Scenario 30.

* # # # # # # # # # # # # # # # # # #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 58.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |

Composite Emission Factors (g/ml):
Composite VOC : 0.928 1.536 1.254 1.464
Composite NOX : 0.679 1.063 1.076 1.066

* * * * *
* Rural minor collector- Lincoln County - Nite
* File 1, Run 1, Scenario 31.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:
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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.980 | 1.609 | 1.315 | 1.535 | 1.285 | 0.336 | 0.480 | 0.280 | 3.00 | 1.246 |
| Composite NOX : | 0.662 | 1.031 | 1.045 | 1.035 | 3.270 | 0.866 | 0.917 | 6.968 | 1.15 | 1.283 |

- * #
- * Rural local- Lincoln County - Nite
- * File 1, Run 1, Scenario 32.
- * #
- * Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

On Road Mobile Sources Documentation
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North Carolina Reasonable Further Progress Demonstration

there are no sales for vehicle class HDGV8b

Reformulated Gas: No

M583 Warning: The user supplied arterial average speed of 34.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.079 | 1.729 | 1.416 | 1.649 | 1.497 | 0.385 | 0.554 | 0.328 | 3.20 | 1.378 |
| Composite NOX : | 0.651 | 1.000 | 1.018 | 1.005 | 2.941 | 0.753 | 0.797 | 5.375 | 1.06 | 1.054 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # #
* Urban local- Lincoln County - Nite
* File 1, Run 1, Scenario 36.
* # # # # # # # # # # # # # # # #
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.509 |
| Composite NOX : | 0.704 | 1.054 | 1.073 | 1.058 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.144 |
| ----- | | | | | | | | | | |

5.2.9 Mecklenburg 2008 I/M (M2008.TXT)

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: M2008.IN (file 1, run 1). *
*****

* Reading Registration Distributions from the following external
* data file: MEKAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)

M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

* OBDII

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial-Meck County - AM
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 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.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
```

Exhaust I/M Program: Yes
Evap I/M Program: 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: | 0.3708 | 0.3569 | 0.1216 | | 0.0398 | 0.0004 | 0.0019 | 0.1032 | 0.0054 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.631 | 1.072 | 0.633 | 0.961 | 0.731 | 0.262 | 0.352 | 0.312 | 2.67 | 0.770 |
| Composite NOX : | 0.451 | 0.755 | 0.653 | 0.729 | 2.437 | 0.568 | 0.580 | 6.452 | 1.07 | 1.286 |

* # # # # # # # # # # # # # # # # # #
* Rural minor arterial-Meck County - AM
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

```

VMT Distribution: 0.3851 0.3703 0.1262 0.0411 0.0004 0.0020 0.0693 0.0056 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.715 1.181 0.696 1.058 0.923 0.324 0.442 0.412 3.06 0.885
Composite NOX : 0.491 0.795 0.689 0.768 2.187 0.589 0.601 5.512 0.97 1.049
-----

* * * * *
* Rural major collector-Meck County - AM
* File 1, Run 1, Scenario 3.
* * * * *
* Rural major collector mix and speeds
M615 Comment:
      User supplied VMT mix.

M583 Warning:
      The user supplied arterial average speed of 23.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.

M 48 Warning:
      there are no sales for vehicle class HDGV8b

      Calendar Year: 2008
      Month: July
      Altitude: Low
      Minimum Temperature: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 7.8 psi
      Weathered RVP: 7.5 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: Yes
      Evap I/M Program: Yes
      ATP Program: Yes
      Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
-----
VMT Distribution: 0.3986 0.3832 0.1305 0.0325 0.0004 0.0020 0.0469 0.0058 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.736 1.211 0.714 1.085 0.971 0.338 0.462 0.423 3.14 0.922
Composite NOX : 0.505 0.811 0.704 0.784 2.152 0.605 0.618 5.437 0.95 0.936
-----

* * * * *
* Rural minor collector-Meck County - AM

```

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

```
* * * * *
* Rural local-Meck County - AM
* File 1, Run 1, Scenario 5.
* * * * *
* Rural local mix and speeds
* * * * *
```

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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3763 | 0.3658 | 0.1247 | | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.675 | 1.129 | 0.665 | 1.011 | 0.822 | 0.294 | 0.399 | 0.342 | 2.87 | 0.834 |
| Composite NOX : | 0.464 | 0.763 | 0.661 | 0.737 | 2.276 | 0.564 | 0.576 | 5.100 | 1.02 | 1.040 |
| ----- | | | | | | | | | | |

* #
* Urban interstate-Meck County - AM
* File 1, Run 1, Scenario 6.
* #
* Urban interstate mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGTL34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|---------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |

VTM Distribution: 0.3564 0.3431 0.1169 0.0513 0.0004 0.0018 0.1248 0.0052 1.0000

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.607 | 1.043 | 0.617 | 0.935 | 0.677 | 0.244 | 0.326 | 0.272 | 2.57 | 0.729 |
| Composite NOX : | 0.459 | 0.772 | 0.668 | 0.746 | 2.562 | 0.608 | 0.621 | 6.784 | 1.10 | 1.492 |

* * * * *
 * Urban freeway-Meck County - AM
 * File 1, Run 1, Scenario 7.
 * * * * *
 * * * * *
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3807 | 0.3667 | 0.1249 | 0.0349 | 0.0004 | 0.0019 | 0.0849 | 0.0055 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.589 | 1.018 | 0.604 | 0.913 | 0.649 | 0.235 | 0.313 | 0.252 | 2.55 | 0.732 |
| Composite NOX : | 0.468 | 0.789 | 0.682 | 0.762 | 2.675 | 0.686 | 0.701 | 7.584 | 1.19 | 1.298 |

* * * * *
* Urban principle arterial-Weck County - AM
* 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 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 | |

Composite Emission Factors (g/mi):

Composite VOC : 0.715 1.181 0.696 1.058 0.918 0.324 0.442 0.386 0.902
Composite NOX : 0.491 0.795 0.689 0.768 2.182 0.589 0.601 5.137 0.97 0.842

* * * * *
* Urban minor arterial-Meck County - AM
* 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 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):
Composite VOC : 0.725 1.195 0.705 1.071 0.943 0.331 0.451 0.387 3.10 0.914
Composite NOX : 0.498 0.803 0.696 0.776 2.167 0.596 0.609 5.028 0.96 0.847

* * * * *
* Urban collector-Meck County - AM
* File 1, Run 1, Scenario 10.
* * * * *
* Urban collector mix and speeds

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 21.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

| Evap | I/M Program: | Yes |
|------|--------------|-----|
| | | |

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVT | HDVT | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | | | | | | |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | Composite VOC | Composite NOX | Composite SO _x | Composite PM ₁₀ | Composite PM _{2.5} | Composite CO | Composite Ozone | Composite Lead | Composite Mercury | Composite PCBs | Composite Dioxin/Furan | Composite HCB | Composite PAHs | Composite Organochlorine Pesticides | Composite Organophosphate Pesticides | Composite Insecticides | Composite Herbicides | Composite Fungicides | Composite Rodenticides | Composite Antifouling Paints | Composite Solvents | Composite Pharmaceuticals | Composite Personal Care Products | Composite Industrial Chemicals | Composite Consumer Electronics | Composite Construction Materials | Composite Automotive Emissions | Composite Air Pollution Index | Composite Environmental Quality Index | Composite Sustainability Index | Composite Resilience Index | Composite Well-being Index | Composite Life Satisfaction Index | Composite Happiness Index | Composite Mental Health Index | Composite Physical Health Index | Composite Social Capital Index | Composite Trust Index | Composite Civic Engagement Index | Composite Political Participation Index | Composite Economic Stability Index | Composite Financial Security Index | Composite Housing Affordability Index | Composite Food Security Index | Composite Water Security Index | Composite Energy Security Index | Composite Climate Change Mitigation Index | Composite Climate Change Adaptation Index | Composite Disaster Preparedness Index | Composite Emergency Response Index | Composite Crisis Management Index | Composite Risk Reduction Index | Composite Vulnerability Index | Composite Exposure Index | Composite Sensitivity Index | Composite Impact Index | Composite Contribution Index | Composite Responsibility Index | Composite Accountability Index | Composite Transparency Index | Composite Integrity Index | Composite Ethics Index | Composite Governance Index | Composite Leadership Index | Composite Innovation Index | Composite Creativity Index | Composite Problem Solving Index | Composite Decision Making Index | Composite Communication Index | Composite Collaboration Index | Composite Teamwork Index | Composite Productivity Index | Composite Efficiency Index | Composite Effectiveness Index | Composite Success Index | Composite Achievement Index | Composite Fulfillment Index | Composite Meaning Index | Composite Purpose Index | Composite Values Index | Composite Beliefs Index | Composite Attitudes Index | Composite Emotions Index | Composite Behaviors Index | Composite Habits Index | Composite Skills Index | Composite Knowledge Index | Composite Understanding Index | Composite Awareness Index | Composite Interest Index | Composite Curiosity Index | Composite Open-mindedness Index | Composite Tolerance Index | Composite Respect Index | Composite Compassion Index | Composite Empathy Index | Composite Sympathy Index | Composite Kindness Index | Composite Generosity Index | Composite Altruism Index | Composite Philanthropy Index | Composite Volunteering Index | Composite Citizenship Index | Composite Patriotism Index | Composite Nationalism Index | Composite Globalization Index | Composite International Cooperation Index | Composite Multilateralism Index | Composite Diplomacy Index | Composite Trade Policy Index | Composite Investment Policy Index | Composite Regulatory Policy Index | Composite Tax Policy Index | Composite Fiscal Policy Index | Composite Monetary Policy Index | Composite Exchange Rate Policy Index | Composite Trade Agreement Index | Composite Partnership Index | Composite Alliance Index | Composite Coalition Index | Composite Consensus Index | Composite Majority Index | Composite Supermajority Index | Composite Unanimity Index | Composite Abstention Index | Composite Refusal Index | Composite Withdrawal Index | Composite Exit Index | Composite Boycott Index | Composite Sanctions Index | Composite Embargoes Index | Composite Tariffs Index | Composite Duties Index | Composite Taxes Index | Composite Fees Index | Composite Charges Index | Composite Penalties Index | Composite Fines Index | Composite Imprisonment Index | Composite Deportation Index | Composite Exile Index | Composite Execution Index | Composite Capital Punishment Index | Composite Life Sentence Index | Composite Parole Index | Composite Probation Index | Composite Community Service Index | Composite Restorative Justice Index | Composite Mediation Index | Composite Arbitration Index | Composite Litigation Index | Composite Trial Process Index | Composite Jury System Index | Composite Judicial Review Index | Composite Constitutional Review Index | Composite Supreme Court Index | Composite Appellate Courts Index | Composite District Courts Index | Composite Trial Courts Index | Composite Magistrate Courts Index | Composite Juvenile Courts Index | Composite Family Courts Index | Composite Labor Courts Index | Composite Commercial Courts Index | Composite Civil Courts Index | Composite Criminal Courts Index | Composite Military Courts Index | Composite Religious Courts Index | Composite Traditional Courts Index | Composite Customary Courts Index | Composite Informal Courts Index | Composite Dispute Resolution Index | Composite Alternative Dispute Resolution Index | Composite Conciliation Index | Composite Reconciliation Index | Composite Forgiveness Index | Composite Mercy Index | Composite Clemency Index | Composite Pardons Index | Comprehensive Index | Overall Score | Total Points | Average Rating | Final Grade | Overall Status | Summary Report | Key Findings | Recommendations | Action Plan | Implementation Timeline | Monitoring & Evaluation | Feedback Mechanism | Stakeholder Engagement | Communication Strategy | Public Reporting | Transparency Measures | Accountability Framework | Governance Structure | Leadership Commitment | Innovation Initiatives | Creativity Programs | Problem Solving Workshops | Decision Making Processes | Communication Channels | Collaboration Opportunities | Teamwork Exercises | Productivity Tools | Efficiency Improvements | Effectiveness Assessments | Success Stories | Achievement Celebrations | Fulfillment Surveys | Purpose Driven Actions | Values Based Decisions | Belief Shaping Activities | Attitude Transformations | Emotion Regulation Techniques | Behavior Change Strategies | Habit Formation Programs | Skill Development Courses | Knowledge Acquisition Methods | Understanding Building Exercises | Awareness Raising Campaigns | Interest Sparking Initiatives | Curiosity Encouraging Programs | Open-mindedness Training | Tolerance Building Exercises | Respect Promotion Activities | Compassion Cultivation Practices | Empathy Enhancement Programs | Sympathy Building Exercises | Kindness Campaigns | Generosity Promotions | Altruism Encouragements | Philanthropy Support | Volunteering Opportunities | Citizenship Education | Patriotism Training | Nationalism Awareness | Globalization Promotion | International Cooperation Efforts | Multilateralism Advocacy | Diplomacy Skills Training | Trade Policy Formulation | Investment Policy Development | Regulatory Policy Design | Tax Policy Implementation | Fiscal Policy Management | Monetary Policy Control | Exchange Rate Stabilization | Trade Agreement Negotiations | Partnership Building | Alliance Strengthening | Coalition Formation | Consensus Seeking | Majority Building | Supermajority Achievements | Unanimity Gains | Abstention Reduction | Refusal Avoidance | Withdrawal Prevention | Exit Strategies | Boycott Organization | Sanctions Enforcement | Embargo Implementation | Tariff Collection | Duty Assessment | Tax Compliance | Fee Collection | Charge Imposition | Penalty Enforcement | Fine Collection | Imprisonment Management | Deportation Procedures | Exile Supervision | Execution Oversight | Capital Punishment Review | Life Sentence Monitoring | Parole Board Operations | Probation Supervision | Community Service Coordination | Restorative Justice Facilitation | Mediation Services | Arbitration Administration | Litigation Management | Trial Process Oversight | Jury System Maintenance | Judicial Review Mechanisms | Constitutional Review Proceedings | Supreme Court Functioning | Appellate Courts Performance | District Courts Efficiency | Trial Courts Effectiveness | Magistrate Courts Reliability | Juvenile Courts Reform | Family Courts Modernization | Labor Courts Strengthening | Commercial Courts Expansion | Civil Courts Streamlining | Criminal Courts Reform | Military Courts Discipline | Religious Courts Integration | Traditional Courts Revival | Customary Courts Recognition | Informal Courts Formalization | Dispute Resolution Improvement | Alternative Dispute Resolution Promotion | Conciliation Services | Reconciliation Programs | Forgiveness Training | Mercy Dispensing | Clemency Recommendations | Pardons Issuance | Comprehensive Index Score | Overall Score | Total Points | Average Rating | Final Grade | Overall Status | Summary Report | Key Findings | Recommendations | Action Plan | Implementation Timeline | Monitoring & Evaluation | Feedback Mechanism | Stakeholder Engagement | Communication Strategy | Public Reporting | Transparency Measures | Accountability Framework | Governance Structure | Leadership Commitment | Innovation Initiatives | Creativity Programs | Problem Solving Workshops | Decision Making Processes | Communication Channels | Collaboration Opportunities | Teamwork Exercises | Productivity Tools | Efficiency Improvements | Effectiveness Assessments | Success Stories | Achievement Celebrations | Fulfillment Surveys | Purpose Driven Actions | Values Based Decisions | Belief Shaping Activities | Attitude Transformations | Emotion Regulation Techniques | Behavior Change Strategies | Habit Formation Programs | Skill Development Courses | Knowledge Acquisition Methods | Understanding Building Exercises | Awareness Raising Campaigns | Interest Sparking Initiatives | Curiosity Encouraging Programs | Open-mindedness Training | Tolerance Building Exercises | Respect Promotion Activities | Compassion Cultivation Practices | Empathy Enhancement Programs | Sympathy Building Exercises | Kindness Campaigns | Generosity Promotions | Altruism Encouragements | Philanthropy Support | Volunteering Opportunities | Citizenship Education | Patriotism Training | Nationalism Awareness | Globalization Promotion | International Cooperation Efforts | Multilateralism Advocacy | Diplomacy Skills Training | Trade Policy Formulation | Investment Policy Development | Regulatory Policy Design | Tax Policy Implementation | Fiscal Policy Management | Monetary Policy Control | Exchange Rate Stabilization | Trade Agreement Negotiations | Partnership Building | Alliance Strengthening | Coalition Formation | Consensus Seeking | Majority Building | Supermajority Achievements | Unanimity Gains | Abstention Reduction | Refusal Avoidance | Withdrawal Prevention | Exit Strategies | Boycott Organization | Sanctions Enforcement | Embargo Implementation | Tariff Collection | Duty Assessment | Tax Compliance | Fee Collection | Charge Imposition | Penalty Enforcement | Fine Collection | Imprisonment Management | Deportation Procedures | Exile Supervision | Execution Oversight | Capital Punishment Review | Life Sentence Monitoring | Parole Board Operations | Probation Supervision | Community Service Coordination | Restorative Justice Facilitation | Mediation Services | Arbitration Administration | Litigation Management | Trial Process Oversight | Jury System Maintenance | Judicial Review Mechanisms | Constitutional Review Proceedings | Supreme Court Functioning | Appellate Courts Performance | District Courts Efficiency | Trial Courts Effectiveness | Magistrate Courts Reliability | Juvenile Courts Reform | Family Courts Modernization | Labor Courts Strengthening | Commercial Courts Expansion | Civil Courts Streamlining | Criminal Courts Reform | Military Courts Discipline | Religious Courts Integration | Traditional Courts Revival | Customary Courts Recognition | Informal Courts Formalization | Dispute Resolution Improvement | Alternative Dispute Resolution Promotion | Conciliation Services | Reconciliation Programs | Forgiveness Training | Mercy Dispensing | Clemency Recommendations | Pardons Issuance | Comprehensive Index Score |
|-----------------|---------------|---------------|---------------------------|----------------------------|-----------------------------|--------------|-----------------|----------------|-------------------|----------------|------------------------|---------------|----------------|-------------------------------------|--------------------------------------|------------------------|----------------------|----------------------|------------------------|------------------------------|--------------------|---------------------------|----------------------------------|--------------------------------|--------------------------------|----------------------------------|--------------------------------|-------------------------------|---------------------------------------|--------------------------------|----------------------------|----------------------------|-----------------------------------|---------------------------|-------------------------------|---------------------------------|--------------------------------|-----------------------|----------------------------------|---|------------------------------------|------------------------------------|---------------------------------------|-------------------------------|--------------------------------|---------------------------------|---|---|---------------------------------------|------------------------------------|-----------------------------------|--------------------------------|-------------------------------|--------------------------|-----------------------------|------------------------|------------------------------|--------------------------------|--------------------------------|------------------------------|---------------------------|------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|--------------------------|------------------------------|----------------------------|-------------------------------|-------------------------|-----------------------------|-----------------------------|-------------------------|-------------------------|------------------------|-------------------------|---------------------------|--------------------------|---------------------------|------------------------|------------------------|---------------------------|-------------------------------|---------------------------|--------------------------|---------------------------|---------------------------------|---------------------------|-------------------------|----------------------------|-------------------------|--------------------------|--------------------------|----------------------------|--------------------------|------------------------------|------------------------------|-----------------------------|----------------------------|-----------------------------|-------------------------------|---|---------------------------------|---------------------------|------------------------------|-----------------------------------|-----------------------------------|----------------------------|-------------------------------|---------------------------------|--------------------------------------|---------------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|--------------------------|-------------------------------|---------------------------|----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------------------------|---------------------------|-------------------------|------------------------|-----------------------|----------------------|-------------------------|---------------------------|-----------------------|------------------------------|-----------------------------|-----------------------|---------------------------|------------------------------------|-------------------------------|------------------------|---------------------------|-----------------------------------|-------------------------------------|---------------------------|-----------------------------|----------------------------|-------------------------------|-----------------------------|---------------------------------|---------------------------------------|-------------------------------|----------------------------------|---------------------------------|------------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------------|-----------------------------------|------------------------------|---------------------------------|---------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------------|-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| Composite VOC : | 0.762 | 0.830 | 0.721 | 0.802 | 2.110 | 0.624 | 0.486 | 0.354 | 1.029 | 1.117 | 0.736 | 1.247 | 0.762 | 0.830 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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* * * * *
* Urban local-Neck County - AM
* 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 22.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1316 | | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | 1.0000 |

Composite Emission Factors (g/ml):
Composite VOC : 0.749 1.228 0.724 1.100
Composite NOX : 0.513 0.820 0.712 0.793

* Urban HOV-Neck County - AM
* File 1, Run 1, Scenario 12.
* *****
* Urban HOV 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4263 | 0.4103 | 0.1398 | | 0.0000 | 0.0004 | 0.0022 | 0.0210 | 0.0000 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.565 | 0.977 | 0.585 | 0.877 | 0.000 | 0.229 | 0.303 | 0.200 | 0.00 | 0.729 |
| Composite NOX : | 0.487 | 0.824 | 0.712 | 0.795 | 0.000 | 1.009 | 1.034 | 18.855 | 0.00 | 1.044 |
| ----- | | | | | | | | | | |

* * * * *
* Rural principle arterial-Meck County - Midday
* File 1, Run 1, Scenario 13.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDGV | LDGT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0398 | 0.0004 | 0.0019 | 0.1032 | 0.0054 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.604 | 1.038 | 0.615 | 0.931 | 0.673 | 0.243 | 0.324 | 0.271 | 2.57 | 0.739 |
| Composite NOX : | 0.461 | 0.775 | 0.670 | 0.748 | 2.584 | 0.621 | 0.634 | 6.994 | 1.12 | 1.361 |

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector-Meck County - Midday
* File 1, Run 1, Scenario 15.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major 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

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | <6000 | >6000 | ---- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1305 | ----- | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.644 | 1.088 | 0.641 | 0.974 | 0.754 | 0.272 | 0.367 | 0.298 | 2.73 | 0.812 |
| Composite NOX : | 0.448 | 0.749 | 0.648 | 0.724 | 2.368 | 0.559 | 0.571 | 5.018 | 1.06 | 0.870 |
| ----- | | | | | | | | | | |

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector-Meck County - Midday
* File 1, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| GVWR: | <6000 | <6000 | >6000 | (All) | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.614 | 1.050 | 0.621 | 0.941 | 0.684 | 0.249 | 0.333 | 0.254 | 2.59 | 0.774 |
| Composite NOX : | 0.457 | 0.767 | 0.663 | 0.741 | 2.518 | 0.595 | 0.608 | 5.384 | 1.10 | 0.942 |

* #
* Rural local-Meck County - Midday
* File 1, Run 1, Scenario 17.
* #
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1247 | | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |

Composite Emission Factors (g/mi):
Composite VOC : 0.682 1.138 0.671 1.019 0.839 0.299 0.406 0.352 2.90 0.842
Composite NOX : 0.469 0.769 0.666 0.743 2.260 0.569 0.580 5.139 1.01 1.046

* * * * *
* Urban interstate-Meck County - Midday
* File 1, Run 1, Scenario 18.
* * * * *
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

| | | | | | | | | | | |
|--|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| Exhaust I/M Program: Yes | | | | | | | | | | |
| Evap I/M Program: Yes | | | | | | | | | | |
| ATP Program: Yes | | | | | | | | | | |
| Reformulated Gas: No | | | | | | | | | | |
| | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| ----- | | | | | | | | | | |
| VMT Distribution: | 0.3564 | 0.3431 | 0.1169 | | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.575 | 0.995 | 0.594 | 0.893 | 0.632 | 0.230 | 0.306 | 0.241 | 2.70 | 0.693 |
| Composite NOX : | 0.478 | 0.806 | 0.697 | 0.778 | 2.786 | 0.812 | 0.832 | 8.885 | 1.34 | 1.789 |
| ----- | | | | | | | | | | |
| * # # # # # # # # # # # # # # # # # # # | | | | | | | | | | |
| * Urban freeway-Meck County - Midday | | | | | | | | | | |
| * File 1, Run 1, Scenario 19. | | | | | | | | | | |
| * # # # # # # # # # # # # # # # # # # # | | | | | | | | | | |
| * Urban freeway mix and speeds | | | | | | | | | | |
| M615 Comment: | | | | | | | | | | |
| User supplied VMT mix. | | | | | | | | | | |
| M581 Warning: | | | | | | | | | | |
| The user supplied freeway average speed of 56.0 | | | | | | | | | | |
| will be used for all hours of the day. 100% of VMT | | | | | | | | | | |
| has been assigned to the freeway roadway type for | | | | | | | | | | |
| all hours of the day and all vehicle types. | | | | | | | | | | |
| M 48 Warning: | | | | | | | | | | |
| there are no sales for vehicle class HDGV8b | | | | | | | | | | |
| | | | | | | | | | | |
| Calendar Year: 2008 | | | | | | | | | | |
| Month: July | | | | | | | | | | |
| Altitude: Low | | | | | | | | | | |
| Minimum Temperature: 71.0 (F) | | | | | | | | | | |
| Maximum Temperature: 89.6 (F) | | | | | | | | | | |
| Minimum Rel. Hum.: 47.0 (%) | | | | | | | | | | |
| Maximum Rel. Hum.: 91.0 (%) | | | | | | | | | | |
| Barometric Pressure: 30.00 (inches Hg) | | | | | | | | | | |
| Nominal Fuel RVP: 7.8 psi | | | | | | | | | | |
| Weathered RVP: 7.5 psi | | | | | | | | | | |
| Fuel Sulfur Content: 30. ppm | | | | | | | | | | |
| | | | | | | | | | | |
| Exhaust I/M Program: Yes | | | | | | | | | | |
| Evap I/M Program: Yes | | | | | | | | | | |
| ATP Program: Yes | | | | | | | | | | |
| Reformulated Gas: No | | | | | | | | | | |
| | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

VMT Distribution: 0.3807 0.3667 0.1249 0.0349 0.0004 0.0019 0.0849 0.0055 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 0.577 0.998 0.595 0.896 0.231 0.306 0.242 2.63 0.718
 Composite NOX : 0.476 0.803 0.694 0.775 0.785 0.803 8.600 1.31 1.398

 * * * * *
 * Urban principle arterial-Meck County - Midday
 * File 1, Run 1, Scenario 20.
 * * * * *
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

 Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV HDDV LDDT MC All Veh
 GVWR: <6000 >6000

 VMT Distribution: 0.4066 0.3916 0.1335 0.0258 0.0004 0.0021 0.0342 0.0058 1.0000

 Composite Emission Factors (g/mi):
 Composite VOC : 0.689 1.148 0.676 1.028 0.305 0.414 0.351 2.94 0.872
 Composite NOX : 0.474 0.775 0.671 0.748 0.573 0.585 4.997 1.00 0.822

 * * * * *
 * Urban minor arterial-Meck County - Midday

| Calendar Year: | 2008 |
|----------------------|------|
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 |
| Maximum Temperature: | 89.6 |
| Minimum Rel. Hum.: | 47.0 |
| Maximum Rel. Hum.: | 91.0 |
| Barometric Pressure: | 30.0 |
| Nominal Fuel RVP: | 7.8 |
| Weathered RVP: | 7.5 |
| Fuel Sulfur Content: | 30. |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

```

* * * * *
* * Urban collector-Meck County - Midday
* * File 1, Run 1, Scenario 22.
* * * * *
* * Urban collector mix and speeds
* * M615 Comment:

```

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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.697 | 1.158 | 0.682 | 1.037 | 0.874 | 0.311 | 0.423 | 0.338 | 2.98 | 0.882 |
| Composite NOX : | 0.479 | 0.781 | 0.677 | 0.754 | 2.221 | 0.578 | 0.590 | 4.691 | 0.99 | 0.811 |

* #
* Urban local-Meck County - Midday
* File 1, Run 1, Scenario 23.
* #
* Urban local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 20.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

VMT Distribution: 0.4018 0.3860 0.1316 0.0345 1.063 0.364 0.499 0.0020 0.0379 0.0057 1.0000

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.777 | 1.267 | 0.748 | 1.135 | 1.063 | 0.364 | 0.499 | 0.429 | 3.30 | 0.973 |
| Composite NOX : | 0.531 | 0.841 | 0.731 | 0.813 | 2.088 | 0.635 | 0.649 | 5.134 | 0.91 | 0.908 |

* * * * *
 * Urban HOV-Neck County - Midday
 * File 1, Run 1, Scenario 24.
 * * * * *
 * * * * *
 * Urban HOV 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4263 | 0.4103 | 0.1398 | 0.0000 | 0.0000 | 0.0004 | 0.0022 | 0.0210 | 0.0000 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.563 | 0.975 | 0.583 | 0.875 | 0.000 | 0.229 | 0.303 | 0.200 | 0.00 | 0.727 |
| Composite NOX : | 0.489 | 0.826 | 0.715 | 0.798 | 0.000 | 1.046 | 1.073 | 19.587 | 0.00 | 1.062 |

* * * * *
* Rural principle arterial-Weck County - PM
* File 1, Run 1, Scenario 25.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | 0.0398 | 0.0004 | 0.0019 | 0.1032 | 0.0054 | 0.0000 | 1.0000 |

Composite Emission Factors (g/ml):

Composite VOC : 0.635 1.077 0.636 0.965 0.741 0.265 0.357 0.319 2.69 0.775
Composite NOX : 0.450 0.753 0.652 0.728 2.419 0.566 0.577 6.423 1.07 1.281

* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial-Meck County - PM
* File 1, Run 1, Scenario 26.
* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.3851 0.3703 0.1262 0.0411 0.0004 0.0020 0.0693 0.0056 1.0000

Composite Emission Factors (g/mi):
Composite VOC : 0.715 1.181 0.696 1.058 0.923 0.324 0.442 0.412 3.06 0.885
Composite NOX : 0.491 0.795 0.689 0.768 2.187 0.589 0.601 5.512 0.97 1.049

* # # # # # # # # # # # # # # # # # # #
* Rural major collector-Meck County - PM
* File 1, Run 1, Scenario 27.
* # # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

Month: July

Altitude: Low

Minimum Temperature: 71.0

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

.
0
0

0
4
0
0
4
4
0
0

4
5
4
4
5
2

4
0
5
4

Exhaust I/M Program: Yes

| | | |
|------|--------------|-----|
| Evap | I/M Program: | Yes |
|------|--------------|-----|

ATP Program: Yes

Reformulated Gas: No

```

* * * * *
* Rural minor collector-Meck County - PM
* File 1, Run 1, Scenario 28.
* * * * *
* Rural minor collector mix and speeds
* * * * *

```

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.635 | 1.077 | 0.636 | 0.965 | 0.733 | 0.265 | 0.357 | 0.286 | 2.69 | 0.799 |
| Composite NOX : | 0.450 | 0.753 | 0.652 | 0.728 | 2.408 | 0.566 | 0.577 | 5.109 | 1.07 | 0.914 |
| ----- | | | | | | | | | | |
| * * * * * | # | # | # | # | # | # | # | # | # | # |
| * Rural local-Meck County - PM | | | | | | | | | | |
| * File 1, Run 1, Scenario 29. | | | | | | | | | | |
| * * * * * | # | # | # | # | # | # | # | # | # | # |
| * Rural local mix and speeds | | | | | | | | | | |
| M615 Comment: | User supplied VMT mix. | | | | | | | | | |
| M583 Warning: | The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types. | | | | | | | | | |
| M 48 Warning: | there are no sales for vehicle class HDGV8b | | | | | | | | | |

| | |
|----------------------|---------|
| 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
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
| GVWR: | ----- | <6000 | >6000 | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1247 | ----- | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.675 | 1.129 | 0.665 | 1.011 | 0.822 | 0.294 | 0.399 | 0.342 | 2.87 | 0.834 |
| Composite NOX : | 0.464 | 0.763 | 0.661 | 0.737 | 2.276 | 0.564 | 0.576 | 5.100 | 1.02 | 1.040 |


```

* # # # # # # # # # # # # # # # # # # #
* Urban interstate-Meck County - PM
* File 1, Run 1, Scenario 30.
* # # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.

M581 Warning:
    The user supplied freeway average speed of 41.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the 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: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |


```

* * * * *
* Urban principle arterial-Meck County - PM
* File 1, Run 1, Scenario 32.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 23.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.736 | 1.211 | 0.714 | 1.085 | 0.969 | 0.338 | 0.462 | 0.412 | 3.14 | 0.927 |
| Composite NOX : | 0.505 | 0.811 | 0.704 | 0.784 | 2.150 | 0.605 | 0.618 | 5.282 | 0.95 | 0.860 |
| ----- | | | | | | | | | | |

```

* * * * *
* Urban minor arterial-Meck County - PM
* File 1, Run 1, Scenario 33.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:

```

The user supplied arterial average speed of 23.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.736 | 1.211 | 0.714 | 1.085 | 0.969 | 0.338 | 0.462 | 0.400 | 3.14 | 0.927 |
| Composite NOX : | 0.505 | 0.811 | 0.704 | 0.784 | 2.150 | 0.605 | 0.618 | 5.101 | 0.95 | 0.856 |
| ----- | | | | | | | | | | |

* * * * *
* Urban collector-Meck County - PM
* File 1, Run 1, Scenario 34.
* * * * *
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 21.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

[illegible][illegible]

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 18.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1316 | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.821 | 1.326 | 0.786 | 1.188 | 1.149 | 0.526 | 0.461 | 3.44 | 1.023 |
| Composite NOX : | 0.552 | 0.867 | 0.754 | 0.838 | 2.058 | 0.674 | 5.340 | 0.90 | 0.936 |

* * * * *
* Urban HOV-Neck County - PM
* File 1, Run 1, Scenario 36.
* * * * *
* Urban HOV 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

470
Appendix E
November 30, 2009

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low

```

* * * * * Rural minor collector-Meck County - Nite
* * * * * File 1, Run 1, Scenario 40.
* * * * * Rural minor collector mix and speeds
* * * * *

```

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

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDGV | LDGT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.3986 | 0.3832 | 0.1305 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.620 | 1.059 | 0.626 | 0.949 | 0.698 | 0.254 | 0.340 | 0.262 | 2.62 | 0.786 |
| Composite NOx : | 0.454 | 0.762 | 0.659 | 0.735 | 2.480 | 0.581 | 0.593 | 5.217 | 1.09 | 0.892 |

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
|-------|-------|-------|-------|-------|--|--|--|--|--|--|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3763 | 0.3658 | 0.1247 | | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.682 | 1.138 | 0.671 | 1.019 | 0.839 | 0.299 | 0.406 | 0.352 | 2.90 | 0.842 |
| Composite NOX : | 0.469 | 0.769 | 0.666 | 0.743 | 2.260 | 0.569 | 0.580 | 5.139 | 1.01 | 1.046 |

- * #
- * Urban interstate-Meck County - Nite
- * File 1, Run 1, Scenario 42.
- * #
- * Urban interstate mix and speeds
- M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 61.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
|-------|-------|-------|-------|-------|--|--|--|--|--|--|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3564 | 0.3431 | 0.1169 | | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

```

* * * * *
* * Urban freeway-Meck County - Nite
* *
* * File 1, Run 1, Scenario 43.
* *
* * Urban freeway mix and speeds
* *

```

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 58.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

| | | |
|------|--------------|-----|
| Evap | I/M Program: | Yes |
|------|--------------|-----|

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3807 | 0.3667 | 0.1249 | 0.0349 | 0.0004 | 0.0019 | 0.0849 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.573 | 0.992 | 0.592 | 0.890 | 0.630 | 0.230 | 0.305 | 0.240 | 2.77 | 0.714 |
| Composite NOX : | 0.479 | 0.809 | 0.699 | 0.781 | 2.805 | 0.839 | 0.859 | 9.153 | 1.36 | 1.451 |

```

* * * * *
* * Urban principle arterial-Meck County - Nite
* * File 1, Run 1, Scenario 44.

```

* # # # # # # # # # # # # # # # # # # #
* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 | |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.635 | 1.077 | 0.636 | 0.965 | 0.732 | 0.265 | 0.357 | 0.277 | 2.69 | 0.810 |
| Composite NOX : | 0.450 | 0.753 | 0.652 | 0.728 | 2.405 | 0.566 | 0.577 | 4.929 | 1.07 | 0.803 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial-Meck County - Nite

* File 1, Run 1, Scenario 45.

* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.635 | 1.077 | 0.636 | 0.965 | 0.732 | 0.265 | 0.357 | 0.269 | 2.69 | 0.810 |
| Composite NOX : | 0.450 | 0.753 | 0.652 | 0.728 | 2.406 | 0.566 | 0.577 | 4.759 | 1.07 | 0.800 |

* * * * *
* Urban collector-Meck County - Nite
* File 1, Run 1, Scenario 46.
* * * * *
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 36.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.639 | 1.082 | 0.638 | 0.970 | 0.741 | 0.269 | 0.362 | 0.265 | 2.71 | 0.815 |
| Composite NOX : | 0.449 | 0.751 | 0.650 | 0.726 | 2.385 | 0.563 | 0.574 | 4.562 | 1.06 | 0.784 |

* * * * *
* Urban local-Meck County - Nite
* File 1, Run 1, Scenario 47.
* * * * *
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

| | | | | | | | | | | |
|--|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Reformulated Gas: No | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| ----- | | | | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1316 | | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.725 | 1.195 | 0.705 | 1.071 | 0.941 | 0.331 | 0.451 | 0.372 | 3.10 | 0.911 |
| Composite NOX : | 0.498 | 0.802 | 0.696 | 0.776 | 2.165 | 0.596 | 0.609 | 4.810 | 0.96 | 0.865 |
| ----- | | | | | | | | | | |
| * # | | | | | | | | | | |
| * Urban HOV-Meck County - Nite | | | | | | | | | | |
| * File 1, Run 1, Scenario 48. | | | | | | | | | | |
| * # | | | | | | | | | | |
| * Urban HOV mix and speeds | | | | | | | | | | |
| M615 Comment: | | | | | | | | | | |
| User supplied VMT mix. | | | | | | | | | | |
| M 52 Warning: | | | | | | | | | | |
| 0.000 speed increased to 2.5 mph minimum | | | | | | | | | | |
| M581 Warning: | | | | | | | | | | |
| The user supplied freeway average speed of 2.5 | | | | | | | | | | |
| will be used for all hours of the day. 100% of VMT | | | | | | | | | | |
| has been assigned to the freeway roadway type for | | | | | | | | | | |
| all hours of the day and all vehicle types. | | | | | | | | | | |
| M 48 Warning: | | | | | | | | | | |
| there are no sales for vehicle class HDGV8b | | | | | | | | | | |
| Calendar Year: 2008 | | | | | | | | | | |
| Month: July | | | | | | | | | | |
| Altitude: Low | | | | | | | | | | |
| Minimum Temperature: 71.0 (F) | | | | | | | | | | |
| Maximum Temperature: 89.6 (F) | | | | | | | | | | |
| Minimum Rel. Hum.: 47.0 (%) | | | | | | | | | | |
| Maximum Rel. Hum.: 91.0 (%) | | | | | | | | | | |
| Barometric Pressure: 30.00 (inches Hg) | | | | | | | | | | |
| Nominal Fuel RVP: 7.8 psi | | | | | | | | | | |
| Weathered RVP: 7.5 psi | | | | | | | | | | |
| Fuel Sulfur Content: 30. ppm | | | | | | | | | | |
| Exhaust I/M Program: Yes | | | | | | | | | | |
| Evap I/M Program: Yes | | | | | | | | | | |
| ATP Program: Yes | | | | | | | | | | |
| Reformulated Gas: No | | | | | | | | | | |
| ----- | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| ----- | | | | | | | | | | |
| VMT Distribution: | 0.4263 | 0.4103 | 0.1398 | | 0.0000 | 0.0004 | 0.0022 | 0.0210 | 0.0000 | 1.0000 |
| ----- | | | | | | | | | | |

| | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 5.525 | 7.727 | 4.112 | 6.808 | 0.000 | 0.661 | 0.930 | 0.974 | 0.00 | 6.123 |
| Composite NOX : | 1.092 | 1.498 | 1.330 | 1.455 | 0.000 | 1.088 | 1.115 | 20.394 | 0.00 | 1.697 |
| ----- | | | | | | | | | | |

```

*****
* MOBILE6.2.03 (24-Sep-2003) *
*****
* Input file: M2008N.IN (file 1, run 1). *
*****

```

```
* data file: MEKAGE07.PRN
```

0.999 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

1.00 MYR sum not = 1. (will normalize)

* Rural principle arterial-Meck County - AM

[illegible]

M615 Comment :

M581 Warning:

M 48 Warning:

Calendar Year: 2008
Month: July

Minimum Temperature: 71.0 (F)

Minimum Rel. Hum.: 47.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Weathered RVP: 7.5 psi

Exhaust I/M Program: No

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ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0398 | 0.0004 | 0.0019 | 0.1032 | 0.0054 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.694 | 1.173 | 0.713 | 1.056 | 0.731 | 0.262 | 0.352 | 0.312 | 2.67 | 0.839 |
| Composite NOX : | 0.518 | 0.865 | 0.741 | 0.834 | 2.437 | 0.568 | 0.580 | 6.452 | 1.07 | 1.361 |

* * * * *
* Rural minor arterial-Weck County - AM
* File 1, Run 1, Scenario 2.
* * * * *
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0411 | 0.0004 | 0.0020 | 0.0693 | 0.0056 | 1.0000 |

Composite Emission Factors (g/ml):

Composite VOC : 0.787 1.297 0.790 1.168 0.923 0.324 0.442 0.412 3.06 0.968
Composite NOX : 0.563 0.910 0.782 0.877 2.187 0.589 0.601 5.512 0.97 1.131

* # # # # # # # # # # # # # # # # # #
* Rural major collector-Meck County - AM
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 23.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1305 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

Composite VOC : 0.811 1.332 0.812 1.200 0.971 0.338 0.462 0.423 3.14 1.010
Composite NOX : 0.578 0.928 0.798 0.895 2.152 0.605 0.618 5.437 0.95 1.022

* # # # # # # # # # # # # # # # # # #
* Rural minor collector-Meck County - AM
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # #
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.694 | 1.173 | 0.713 | 1.056 | 0.724 | 0.262 | 0.352 | 0.280 | 2.67 | 0.867 |
| Composite NOX : | 0.518 | 0.865 | 0.741 | 0.834 | 2.426 | 0.568 | 0.580 | 5.135 | 1.07 | 0.997 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural local-Meck County - AM
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3763 | 0.3658 | 0.1247 | | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.743 | 1.239 | 0.754 | 1.116 | 0.822 | 0.294 | 0.399 | 0.342 | 2.87 | 0.911 |
| Composite NOX : | 0.533 | 0.875 | 0.750 | 0.843 | 2.276 | 0.564 | 0.576 | 5.100 | 1.02 | 1.117 |

* * * * *
* Urban interstate-Meck County - AM
* File 1, Run 1, Scenario 6.
* * * * *
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.3564 | 0.3431 | 0.1169 | | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.667 | 1.138 | 0.693 | 1.025 | 0.677 | 0.244 | 0.326 | 0.272 | 2.57 | 0.792 |
| Composite NOX : | 0.526 | 0.882 | 0.756 | 0.850 | 2.562 | 0.608 | 0.621 | 6.784 | 1.10 | 1.563 |

* * * * *
* Urban freeway-Meck County - AM
* File 1, Run 1, Scenario 7.
* * * * *
* * * * *
* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

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```

* * * * *
* Urban minor arterial-Meck County - AM
* 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 24.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.

M 48 Warning:
      there are no sales for vehicle class HDGV8b

```

```

      Calendar Year: 2008
      Month: July
      Altitude: Low
      Minimum Temperature: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 7.8 psi
      Weathered RVP: 7.5 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: No
      Evap I/M Program: No
      ATP Program: Yes
      Reformulated Gas: No

```

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.798 | 1.314 | 0.800 | 1.183 | 0.943 | 0.331 | 0.451 | 0.387 | 3.10 | 1.003 |
| Composite NOX : | 0.570 | 0.918 | 0.789 | 0.886 | 2.167 | 0.596 | 0.609 | 5.028 | 0.96 | 0.934 |
| ----- | | | | | | | | | | |

```

* * * * *
* Urban collector-Meck County - AM
* 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 21.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|-------|--|--|--|--|--|--|--|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
|-------|-------|-------|-------|--|--|--|--|--|--|--|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.840 | 1.373 | 0.838 | 1.237 | 1.029 | 0.354 | 0.486 | 0.414 | 3.25 | 1.053 |
| Composite NOX : | 0.597 | 0.949 | 0.817 | 0.915 | 2.110 | 0.624 | 0.637 | 5.081 | 0.92 | 0.952 |

* * * * *
* Urban local-Meck County - AM
* 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 22.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

```

* * * * *
* * Urban Hov-Meck County - AM
* * File 1, Run 1, Scenario 12.
* * * * *
* * Urban Hov mix and speeds
* * M615 Comment:      User supplied VMT mix.

```

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |


```

VMT Distribution: 0.3708 0.3569 0.1216 0.0398 0.0004 0.0019 0.1032 0.0054 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.663 1.133 0.690 1.020 0.673 0.243 0.324 0.271 2.57 0.803
Composite NOX : 0.527 0.885 0.758 0.853 2.584 0.621 0.634 6.994 1.12 1.436
-----

* * * * *
* Rural minor arterial-Meck County - Midday
* File 1, Run 1, Scenario 14.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.

M583 Warning:
      The user supplied arterial average speed of 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: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 7.8 psi
      Weathered RVP: 7.5 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: No
      Evap I/M Program: No
      ATP Program: Yes
      Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 <6000 >6000 -----
VMT Distribution: 0.3851 0.3703 0.1262 0.0411 0.0004 0.0020 0.0693 0.0056 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.743 1.239 0.754 1.116 0.824 0.294 0.399 0.353 2.87 0.915
Composite NOX : 0.533 0.874 0.750 0.843 2.279 0.564 0.576 5.279 1.02 1.090
-----

* * * * *
* Rural major collector-Meck County - Midday

```


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```
* * * * *
* * Rural minor collector-Meck County - Midday
* * File 1, Run 1, Scenario 16.
* * * * *
* * 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.674 | 1.147 | 0.698 | 1.033 | 0.684 | 0.249 | 0.333 | 0.254 | 2.59 | 0.844 |
| Composite NOX : | 0.523 | 0.877 | 0.751 | 0.845 | 2.518 | 0.595 | 0.608 | 5.384 | 1.10 | 1.021 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural local-Meck County - Midday
* File 1, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)

| | |
|-------------------|-----|
| aust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3763 | 0.3658 | 0.1247 | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.750 | 1.249 | 0.760 | 1.125 | 0.839 | 0.299 | 0.406 | 0.352 | 2.90 | 0.920 |
| Composite NOX : | 0.538 | 0.881 | 0.756 | 0.849 | 2.260 | 0.569 | 0.580 | 5.139 | 1.01 | 1.124 |

M615 Comment:

M581 Warning:

M 48 Warning:

Calendar Year: 2008
Month: July

| | | |
|---------|--------------|----|
| Exhaust | I/M Program: | No |
| Evap | I/M Program: | No |

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3564 | 0.3431 | 0.1169 | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 | |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.629 | 1.081 | 0.662 | 0.974 | 0.632 | 0.230 | 0.306 | 0.241 | 2.70 | 0.750 |
| Composite NOX : | 0.544 | 0.917 | 0.785 | 0.884 | 2.786 | 0.812 | 0.832 | 8.885 | 1.34 | 1.861 |

* * * * *
* Urban freeway-Meck County - Midday
* File 1, Run 1, Scenario 19.
* * * * *
* * * * *
* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3807 | 0.3667 | 0.1249 | 0.0349 | 0.0004 | 0.0019 | 0.0849 | 0.0055 | 1.0000 | |

Composite Emission Factors (g/ml):

Composite VOC : 0.632 1.085 0.664 0.978 0.634 0.231 0.306 0.242 2.63 0.779
Composite NOX : 0.542 0.914 0.783 0.880 2.767 0.785 0.803 8.600 1.31 1.475

* * * * *
* Urban principle arterial-Meck County - Midday
* File 1, Run 1, Scenario 20.
* * * * *
* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.4066 0.3916 0.1335 0.0258 0.0004 0.0021 0.0342 0.0058 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.758 1.260 0.767 1.134 0.855 0.305 0.414 0.351 2.94 0.956
Composite NOX : 0.544 0.887 0.762 0.855 2.241 0.573 0.585 4.997 1.00 0.906

* * * * *
* Urban minor arterial-Meck County - Midday
* File 1, Run 1, Scenario 21.
* * * * *
* Urban minor arterial mix and speeds

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

Month: July

Altitude: Low

Fuel Sulfur Content: 30. ppm

RETORTED GAS: NO

```

* * * * *
* * Urban collector-Meck County - Midday
* * File 1, Run 1, Scenario 22.
* * * * *
* * Urban collector mix and speeds
* * * * *

```

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.767 | 1.271 | 0.774 | 1.145 | 0.874 | 0.311 | 0.423 | 0.338 | 2.98 | 0.967 |
| Composite NOX : | 0.550 | 0.894 | 0.768 | 0.862 | 2.221 | 0.578 | 0.590 | 4.691 | 0.99 | 0.896 |
| ----- | | | | | | | | | | |
| * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |
| * Urban local-Meck County - Midday | | | | | | | | | | |
| * File 1, Run 1, Scenario 23. | | | | | | | | | | |
| * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |
| * Urban local mix and speeds | | | | | | | | | | |
| M615 Comment: | User supplied VMT mix. | | | | | | | | | |
| M583 Warning: | The user supplied arterial average speed of 20.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types. | | | | | | | | | |
| M 48 Warning: | there are no sales for vehicle class HDGV8b | | | | | | | | | |

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDLV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1316 | | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.857 | 1.396 | 0.852 | 1.258 | 1.063 | 0.364 | 0.499 | 0.429 | 3.30 | 1.068 |
| Composite NOX : | 0.607 | 0.961 | 0.828 | 0.927 | 2.088 | 0.635 | 0.649 | 5.134 | 0.91 | 0.997 |
| ----- | | | | | | | | | | |

* * * * *
* Urban HOV-Meck County - Midday
* File 1, Run 1, Scenario 24.
* * * * *
* Urban HOV 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDGV | LDGT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.4263 | 0.4103 | 0.1398 | | 0.0000 | 0.0004 | 0.0022 | 0.0210 | 0.0000 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.614 | 1.055 | 0.648 | 0.952 | 0.000 | 0.229 | 0.303 | 0.200 | 0.00 | 0.790 |
| Composite NOX : | 0.555 | 0.938 | 0.804 | 0.904 | 0.000 | 1.046 | 1.073 | 19.587 | 0.00 | 1.148 |

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial-Meck County - PM
* File 1, Run 1, Scenario 26.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 25.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b

```

```

      Calendar Year: 2008
      Month: July
      Altitude: Low
      Minimum Temperature: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 7.8 psi
      Weathered RVP: 7.5 psi
      Fuel Sulfur Content: 30. ppm
      Exhaust I/M Program: No
      Evap I/M Program: No
      ATP Program: Yes
      Reformulated Gas: No

```

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | <6000 | >6000 | ---- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | ----- | 0.0411 | 0.0004 | 0.0020 | 0.0693 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.787 | 1.297 | 0.790 | 1.168 | 0.923 | 0.324 | 0.442 | 0.412 | 3.06 | 0.968 |
| Composite NOX : | 0.563 | 0.910 | 0.782 | 0.877 | 2.187 | 0.589 | 0.601 | 5.512 | 0.97 | 1.131 |
| ----- | | | | | | | | | | |

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector-Meck County - PM
* File 1, Run 1, Scenario 27.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:

```

The user supplied arterial average speed of 27.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|-------|--|--------|--------|--------|--------|--------|--------|
| GVWR: | <6000 | <6000 | >6000 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |
|-------|-------|-------|-------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.767 | 1.271 | 0.774 | 1.145 | 0.876 | 0.311 | 0.423 | 0.371 | 2.98 | 0.958 |
| Composite NOX : | 0.550 | 0.894 | 0.768 | 0.862 | 2.225 | 0.578 | 0.590 | 5.188 | 0.99 | 0.985 |

* #
* Rural minor collector-Meck County - PM
* File 1, Run 1, Scenario 28.
* #
* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):
 Composite VOC : 0.698 1.178 0.716 1.061 0.733 0.265 0.357 0.286 2.69 0.872
 Composite NOX : 0.517 0.863 0.740 0.832 2.408 0.566 0.577 5.109 1.07 0.993

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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1247 | | 0.0505 | 0.0004 | 0.0019 | 0.0748 | 0.0055 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.743 | 1.239 | 0.754 | 1.116 | 0.822 | 0.294 | 0.399 | 0.342 | 2.87 | 0.911 |
| Composite NOX : | 0.533 | 0.875 | 0.750 | 0.843 | 2.276 | 0.564 | 0.576 | 5.100 | 1.02 | 1.117 |

* # # # # # # # # # # # # # # # # # #
* Urban interstate-Meck County - PM
* File 1, Run 1, Scenario 30.
* # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3564 | 0.3431 | 0.1169 | 0.0513 | 0.0004 | 0.0018 | 0.1248 | 0.0052 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.682 | 1.157 | 0.704 | 1.042 | 0.705 | 0.254 | 0.340 | 0.291 | 2.62 | 0.809 |
| Composite NOX : | 0.521 | 0.871 | 0.747 | 0.840 | 2.490 | 0.581 | 0.593 | 6.508 | 1.09 | 1.519 |

```

* * * * *
* * * * * Urban freeway-Meck County - PM
* * * * *
* * * * * File 1, Run 1, Scenario 31.
* * * * *
* * * * * Urban freeway mix and speeds
* * * * *

```

M615 Comment :

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

| Evap | I/M | Program: | No |
|------|-----|----------|----|
| | | | |

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3807 | 0.3667 | 0.1249 | 0.0349 | 0.0004 | 0.0019 | 0.0849 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| Composite VOC : | 1.113 | 0.679 | 1.003 | 0.652 | 0.236 | 0.315 | 0.254 | 2.55 | 0.799 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Composite NOX : | 0.533 | 0.896 | 0.767 | 0.863 | 2.655 | 0.667 | 0.681 | 7.384 | 1.355 |

* * * * *
* Urban principle arterial-Meck County - PM

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 7.8 psi |
| Weathered RVP: | 7.5 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

```
* * * * *
* Urban minor arterial-Meck County - PM
* File 1, Run 1, Scenario 33.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 23.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
```

type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 | |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.811 | 1.332 | 0.812 | 1.199 | 0.969 | 0.338 | 0.462 | 0.400 | 3.14 | 1.018 |
| Composite NOX : | 0.578 | 0.928 | 0.798 | 0.895 | 2.150 | 0.605 | 0.618 | 5.101 | 0.95 | 0.944 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban collector-Meck County - PM
* File 1, Run 1, Scenario 34.
* # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 21.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|-------|--|--|--|--|--|--|--|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
|-------|-------|-------|-------|--|--|--|--|--|--|--|

VTM Distribution: 0.4066 0.3911 0.1333 0.0289 0.0004 0.0021 0.0317 0.0059 1.0000

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.840 | 1.373 | 0.838 | 1.237 | 1.029 | 0.354 | 0.486 | 0.414 | 3.25 | 1.053 |
| Composite NOX : | 0.597 | 0.949 | 0.817 | 0.915 | 2.110 | 0.624 | 0.637 | 5.081 | 0.92 | 0.952 |

* * * * *
* Urban local-Meck County - PM
* File 1, Run 1, Scenario 35.
* * * * *
* * * * *
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 18.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1316 | | 0.0345 | 0.0004 | 0.0020 | 0.0379 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.904 | 1.462 | 0.896 | 1.318 | 1.149 | 0.382 | 0.526 | 0.461 | 3.44 | 1.124 |
| Composite NOX : | 0.631 | 0.990 | 0.853 | 0.955 | 2.058 | 0.660 | 0.674 | 5.340 | 0.90 | 1.028 |

* * * * *
* Urban HOV-Meck County - PM
* File 1, Run 1, Scenario 36.
* * * * *
* * * * *
* Urban HOV 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4263 | 0.4103 | 0.1398 | | 0.0000 | 0.0004 | 0.0022 | 0.0210 | 0.0000 | 1.0000 |

* #
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0411 | 0.0004 | 0.0020 | 0.0693 | 0.0056 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.674 | 1.147 | 0.698 | 1.033 | 0.686 | 0.249 | 0.333 | 0.263 | 2.59 | 0.834 |
| Composite NOX : | 0.523 | 0.877 | 0.751 | 0.845 | 2.521 | 0.595 | 0.608 | 5.574 | 1.10 | 1.119 |

* #
* Rural major collector-Meck County - Nite
* File 1, Run 1, Scenario 39.
* #
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1305 | | 0.0325 | 0.0004 | 0.0020 | 0.0469 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.682 | 1.157 | 0.704 | 1.042 | 0.698 | 0.254 | 0.340 | 0.262 | 2.62 | 0.858 |
| Composite NOX : | 0.521 | 0.871 | 0.747 | 0.840 | 2.480 | 0.581 | 0.593 | 5.217 | 1.09 | 0.972 |

* # # # # # # # # # # # # # # # # # #
* Rural minor collector-Meck County - Nite
* File 1, Run 1, Scenario 40.
* # # # # # # # # # # # # # # # # # #
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0359 | 0.0004 | 0.0020 | 0.0534 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.663 | 1.133 | 0.690 | 1.020 | 0.666 | 0.243 | 0.324 | 0.243 | 2.57 | 0.832 |
| Composite NOX : | 0.527 | 0.885 | 0.758 | 0.853 | 2.572 | 0.621 | 0.634 | 5.621 | 1.12 | 1.042 |

* * * * *
* Rural local-Meck County - Nite
* File 1, Run 1, Scenario 41.
* * * * *
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

Composite NOX : 0.550 0.929 0.796 0.895 2.859 0.930 0.953 10.097 1.43 2.024

* * * * *
* Urban freeway-Meck County - Nite
* File 1, Run 1, Scenario 43.
* * * * *
* * * * *
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDV LDVT MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3807 0.3667 0.1249 0.0349 0.0004 0.0019 0.0849 0.0055 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.627 1.077 0.660 0.971 0.630 0.230 0.305 0.240 2.77 0.774
Composite NOX : 0.546 0.920 0.788 0.886 2.805 0.839 0.859 9.153 1.36 1.528

* * * * *
* Urban principle arterial-Meck County - Nite
* File 1, Run 1, Scenario 44.
* * * * *
* * * * *
* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0258 | 0.0004 | 0.0021 | 0.0342 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.698 | 1.178 | 0.717 | 1.061 | 0.732 | 0.265 | 0.357 | 0.277 | 2.69 | 0.886 |
| Composite NOX : | 0.517 | 0.863 | 0.740 | 0.832 | 2.405 | 0.566 | 0.577 | 4.929 | 1.07 | 0.885 |
| ----- | | | | | | | | | | |

* * * * *

* Urban minor arterial-Meck County - Nite

* File 1, Run 1, Scenario 45.

* * * * *

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0281 | 0.0004 | 0.0021 | 0.0339 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.698 | 1.178 | 0.717 | 1.061 | 0.732 | 0.265 | 0.357 | 0.269 | 2.69 | 0.885 |
| Composite NOX : | 0.517 | 0.863 | 0.740 | 0.832 | 2.406 | 0.566 | 0.577 | 4.759 | 1.07 | 0.882 |
| ----- | | | | | | | | | | |

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector-Meck County - Nite
* File 1, Run 1, Scenario 46.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
M615 Comment:
M583 Warning:
User supplied VMT mix.
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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0289 | 0.0004 | 0.0021 | 0.0317 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.703 | 1.184 | 0.720 | 1.066 | 0.741 | 0.269 | 0.362 | 0.265 | 2.71 | 0.891 |
| Composite NOX : | 0.516 | 0.861 | 0.738 | 0.830 | 2.385 | 0.563 | 0.574 | 4.562 | 1.06 | 0.867 |

- * #
- * Urban local-Meck County - Nite
- * File 1, Run 1, Scenario 47.
- * #
- * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: 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: 0.4018 0.3860 0.1316 0.0345 0.0004 0.0020 0.0379 0.0057 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.798 1.314 0.800 1.183 0.941 0.331 0.451 0.372 3.10 0.999

Composite NOX : 0.570 0.918 0.789 0.886 2.165 0.596 0.609 4.810 0.96 0.951

* * * * *

* Urban HOV-Meck County - Nite

* File 1, Run 1, Scenario 48.

* * * * *

* Urban HOV mix and speeds

M615 Comment: User supplied VMT mix.

M 52 Warning: 0.000 speed increased to 2.5 mph minimum

M581 Warning: The user supplied freeway average speed of 2.5 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)

GVWR: <6000 >6000

VTM Distribution: 0.4263 0.4103 0.1398 0.0000 0.0004 0.0022 0.0210 0.0000 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 5.943 8.346 4.612 7.397 0.000 0.661 0.930 0.974 0.00 6.626

Composite NOX : 1.232 1.702 1.492 1.649 0.000 1.088 1.115 20.394 0.00 1.863

5.2.11 Rowan 2008 I/M (R2008.TXT)

```
*****
* MOBIL6.2.03 (24-Sep-2003) *
* Input file: R2008.IN (file 1, run 1). *
*****

* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
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M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII

* # # # # # # # # # # # # # # # # # # #
* Rural principle arterial- Rowan County - AM
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
```


Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.876 | 1.460 | 1.182 | 1.389 | 1.231 | 0.325 | 0.464 | 0.269 | 2.99 | 1.115 |
| Composite NOX : | 0.601 | 0.938 | 0.961 | 0.944 | 3.435 | 1.015 | 1.076 | 8.490 | 1.30 | 1.436 |
| ----- | | | | | | | | | | |

* * * * *
 * Rural major collector- Rowan County - AM
 * File 1, Run 1, Scenario 3.
 * * * * *
 * Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 51.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

there are no sales for vehicle class HDGV8b

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: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.984 | 1.593 | 1.292 | 1.517 | 1.454 | 0.375 | 0.539 | 0.335 | 3.15 | 1.265 |
| Composite NOX : | 0.573 | 0.886 | 0.912 | 0.892 | 2.989 | 0.756 | 0.800 | 5.844 | 1.07 | 0.986 |
| ----- | | | | | | | | | | |

* #
* Urban minor arterial- Rowan County - AM
* File 1, Run 1, Scenario 8.
* #
* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.970 | 1.577 | 1.279 | 1.501 | 1.416 | 0.366 | 0.526 | 0.311 | 3.11 | 1.250 |
| Composite NOX : | 0.575 | 0.890 | 0.916 | 0.896 | 3.036 | 0.764 | 0.808 | 5.684 | 1.08 | 0.988 |

* * * * *
 * Urban collector- Rowan County - AM
 * File 1, Run 1, Scenario 9.
 * * * * *
 * Urban collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | (All) | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.011 | 1.625 | 1.319 | 1.547 | 1.521 | 0.390 | 0.563 | 0.337 | 3.23 | 1.298 |
| Composite NOX : | 0.579 | 0.889 | 0.916 | 0.896 | 2.920 | 0.754 | 0.798 | 5.384 | 1.05 | 0.968 |

- * # # # # # # # # # # # # # # # # # #
- * Urban local- Rowan County - AM
- * File 1, Run 1, Scenario 10.
- * # # # # # # # # # # # # # # # # # #
- * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | (All) | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 59.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/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 | LDGTL2
<6000 | LDGT34
>6000 | LDGT12
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|-----------------|-----------------|-----------------|--------|--------|--------|--------|--------|---------|
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.861 | 1.438 | 1.163 | 1.368 | 1.212 | 0.322 | 0.460 | 0.265 | 3.28 | 1.099 |
| Composite NOX : | 0.608 | 0.951 | 0.974 | 0.957 | 3.529 | 1.159 | 1.230 | 9.705 | 1.39 | 1.534 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.861 | 1.438 | 1.163 | 1.368 | 1.212 | 0.322 | 0.460 | 0.265 | 3.28 | 1.099 |
| Composite NOX : | 0.608 | 0.951 | 0.974 | 0.957 | 3.529 | 1.159 | 1.230 | 9.705 | 1.39 | 1.534 |

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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.876 | 1.460 | 1.182 | 1.390 | 1.225 | 0.325 | 0.464 | 0.259 | 2.99 | 1.134 |
| Composite NOX : | 0.601 | 0.938 | 0.961 | 0.944 | 3.428 | 1.015 | 1.076 | 8.127 | 1.30 | 1.225 |
| ----- | | | | | | | | | | |

* #
* Rural minor collector- Rowan County - Midday
* File 1, Run 1, Scenario 14.
* #
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.905 | 1.501 | 1.216 | 1.428 | 1.275 | 0.334 | 0.477 | 0.276 | 2.99 | 1.162 |
| Composite NOX : | 0.591 | 0.920 | 0.944 | 0.926 | 3.292 | 0.881 | 0.933 | 7.091 | 1.16 | 1.207 |
| ----- | | | | | | | | | | |

* * * * *
 * Rural local- Rowan County - Midday
 * File 1, Run 1, Scenario 15.
 * * * * *
 * Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes

| Reformulated Gas: No | | | | | | | | | | |
|------------------------------------|--------|-----------------|-----------------|---------------|--------|--------|--------|--------|--------|---------|
| Vehicle Type:
GVWR: | LDGV | LDGT12
<6000 | LDGT34
>6000 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | ----- | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.067 | 1.695 | 1.379 | 1.615 | 1.679 | 0.423 | 0.612 | 0.429 | 3.39 | 1.331 |
| Composite NOx : | 0.603 | 0.912 | 0.939 | 0.919 | 2.811 | 0.770 | 0.815 | 6.189 | 1.01 | 1.288 |

```

* * * * *
* * Urban interstate- Rowan County - Midday
* * File 1, Run 1, Scenario 16.
* * * * *
* * Urban interstate mix and speeds
* * * * *

```

M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 60.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

| | Altitude: | Low |
|----------------------|-----------|------------|
| Minimum Temperature: | | 71.0 (F) |
| Maximum Temperature: | | 89.6 (F) |
| Minimum Rel. Hum.: | | 47.0 (%) |
| Maximum Rel. Hum.: | | 91.0 (%) |
| Barometric Pressure: | | 30.00 (in) |
| 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 |

| Reformulated Gas: | | No | | | | | | | | | | | | | |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|--|--|--|--|--|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh | | | | | |
| GVMR: | | <6000 | >6000 | (All) | | | | | | | | | | | |
| VMT Distribution: | 0.3564 | 0.3431 | 0.1170 | | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | | | | | | |
| Composite VOC : | 0.857 | 1.432 | 1.159 | 1.363 | 1.216 | 0.321 | 0.459 | 0.282 | 3.35 | 1.049 | | | | | |

Composite NOX : 0.610 0.954 0.977 0.960 3.563 1.193 1.265 11.695 1.42 2.305

* * * * *
* Urban principle arterial- Rowan County - Midday
* File 1, Run 1, Scenario 17.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.4066 0.3916 0.1335 0.0262 0.0004 0.0021 0.0338 0.0058 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.977 1.585 1.285 1.509 1.434 0.370 0.533 0.328 3.13 1.257

Composite NOX : 0.574 0.888 0.914 0.894 3.013 0.760 0.804 5.875 1.08 0.989

* * * * *
* Urban minor arterial- Rowan County - Midday
* File 1, Run 1, Scenario 18.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.963 | 1.569 | 1.272 | 1.494 | 1.399 | 0.362 | 0.520 | 0.305 | 3.09 | 1.243 |
| Composite NOX : | 0.576 | 0.892 | 0.917 | 0.898 | 3.058 | 0.767 | 0.812 | 5.711 | 1.09 | 0.991 |
| ----- | | | | | | | | | | |

* * * * *

* Urban collector- Rowan County - Midday

* File 1, Run 1, Scenario 19.

* * * * *

* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000
VMT Distribution: 0.4066 0.3911 0.1333 0.0293 0.0004 0.0021 0.0313 0.0059 1.0000
----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000
Composite Emission Factors (g/ml):
Composite VOC : 1.032 1.652 1.342 1.573 0.402 0.581 0.355 3.29 1.323
Composite NOX : 0.587 0.895 0.922 0.902 0.757 0.801 5.404 1.04 0.973
----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000

* * * * *
* Urban local- Rowan County - Midday
* File 1, Run 1, Scenario 20.
* * * * *
* Urban local mix and speeds
M615 Comment:
M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

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| | |
|----------------------|---------|
| 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: | 0.4018 | 0.3860 | 0.1317 | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.408 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.052 |

```

* * * * *
* * Rural principle arterial - Rowan County - PM
* * * * *
* * File 1, Run 1, Scenario 21.
* * * * *
* * Rural other principle arterial mix and speeds
* * * * *

```

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

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Exhaust I/M Program: Yes

| Evap | I/M Program: | Yes |
|------|--------------|-----|
| | | |

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.916 | 1.514 | 1.227 | 1.441 | 1.295 | 0.338 | 0.483 | 0.283 | 3.00 | 1.174 |
| Composite NOX : | 0.587 | 0.914 | 0.938 | 0.920 | 3.247 | 0.850 | 0.900 | 6.841 | 1.14 | 1.188 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # #
* Rural local- Rowan County - PM
* File 1, Run 1, Scenario 25.
* # # # # # # # # # # # # # # # #
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.067 | 1.695 | 1.379 | 1.615 | 1.679 | 0.423 | 0.612 | 0.429 | 3.39 | 1.331 |
| Composite NOX : | 0.603 | 0.912 | 0.939 | 0.919 | 2.811 | 0.770 | 0.815 | 6.189 | 1.01 | 1.288 |

* * * * *
 * Urban interstate- Rowan County - PM
 * File 1, Run 1, Scenario 26.
 * * * * *
 * 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

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3564 | 0.3431 | 0.1170 | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.864 | 1.443 | 1.168 | 1.373 | 1.224 | 0.323 | 0.461 | 0.285 | 3.21 | 1.057 |
| Composite NOX : | 0.606 | 0.948 | 0.971 | 0.954 | 3.519 | 1.125 | 1.193 | 11.086 | 1.37 | 2.222 |

* * * * *
* Urban principle arterial- Rowan County - PM
* File 1, Run 1, Scenario 27.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

* #
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.067 | 1.695 | 1.379 | 1.615 | 1.673 | 0.423 | 0.612 | 0.387 | 3.39 | 1.363 |
| Composite NOX : | 0.603 | 0.912 | 0.939 | 0.919 | 2.805 | 0.770 | 0.815 | 5.500 | 1.01 | 0.990 |
| ----- | | | | | | | | | | |

* #
* Urban local- Rowan County - PM

* File 1, Run 1, Scenario 30.

* #
* Urban local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.408 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.052 |

* * * * *
* Rural principle arterial- Rowan County - Nite
* File 1, Run 1, Scenario 31.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.861 | 1.438 | 1.163 | 1.368 | 1.222 | 0.322 | 0.460 | 0.286 | 3.28 | 1.071 |
| Composite NOX : | 0.608 | 0.951 | 0.974 | 0.957 | 3.544 | 1.159 | 1.230 | 11.527 | 1.39 | 2.020 |

* * * * *
* Rural minor arterial- Rowan County - Nite
* File 1, Run 1, Scenario 32.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 61.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.854 | 1.428 | 1.155 | 1.358 | 1.206 | 0.321 | 0.459 | 0.263 | 3.42 | 1.092 |
| Composite NOX : | 0.612 | 0.957 | 0.980 | 0.963 | 3.575 | 1.248 | 1.324 | 10.448 | 1.44 | 1.592 |

* * * * *
* Rural major collector- Rowan County - Nite
* File 1, Run 1, Scenario 33.
* * * * *
* * * * *
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.868 | 1.448 | 1.173 | 1.378 | 1.216 | 0.323 | 0.462 | 0.256 | 3.14 | 1.126 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

Composite NOX : 0.604 0.945 0.968 0.951 3.477 1.090 1.156 8.732 1.35 1.260

* * * * *
* Rural minor collector- Rowan County - Nite
* File 1, Run 1, Scenario 34.
* * * * *
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 50.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3948 0.3787 0.1291 0.0364 0.0004 0.0020 0.0529 0.0057 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.900 1.494 1.210 1.422 1.265 0.332 0.474 0.273 2.99 1.156

Composite NOX : 0.592 0.923 0.946 0.929 3.314 0.895 0.948 7.208 1.18 1.216

* * * * *
* Rural local- Rowan County - Nite
* File 1, Run 1, Scenario 35.
* * * * *
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.067 | 1.695 | 1.379 | 1.615 | 1.679 | 0.423 | 0.612 | 0.429 | 3.39 | 1.331 |
| Composite NOX : | 0.603 | 0.912 | 0.939 | 0.919 | 2.811 | 0.770 | 0.815 | 6.189 | 1.01 | 1.288 |

* # # # # # # # # # # # # # # # # # # #

* Urban interstate- Rowan County - Nite

* File 1, Run 1, Scenario 36.

* # # # # # # # # # # # # # # # # # # #

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 61.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000
VMT Distribution: 0.3564 0.3431 0.1170 0.0521 0.0004 0.0018 0.1240 0.0052 1.0000
----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000
Composite Emission Factors (g/ml):
Composite VOC : 0.854 1.428 1.155 1.358 1.214 0.321 0.459 0.282 3.42 1.046
Composite NOX : 0.612 0.957 0.980 0.963 3.587 1.248 1.324 12.195 1.44 2.370
----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000

* * * * *
* Urban principle arterial- Rowan County - Nite
* File 1, Run 1, Scenario 37.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment:
M583 Warning:
User supplied VMT mix.
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

```

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.939 | 1.541 | 1.249 | 1.467 | 1.339 | 0.348 | 0.499 | 0.291 | 3.03 | 1.216 |
| Composite NOX : | 0.581 | 0.902 | 0.927 | 0.909 | 3.151 | 0.800 | 0.846 | 6.186 | 1.11 | 1.014 |

- * #
- * Urban minor arterial- Rowan County - Nite
- * File 1, Run 1, Scenario 38.
- * #
- * Urban 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

* * * * *
 * Urban local- Rowan County - Nite
 * File 1, Run 1, Scenario 40.
 * * * * *
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.110 | 1.747 | 1.422 | 1.664 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.408 |
| Composite NOX : | 0.625 | 0.935 | 0.963 | 0.942 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.052 |
| ----- | | | | | | | | | | |

```
5.2.12 Rowan 2008 Non-I/M (R2008N.TXT)
*****
* MOBIL6.2.03 (24-Sep-2003) *
* Input file: R2008N.IN (file 1, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* # # # # # # # # # # # # # # # # # #
* Rural principle arterial- Rowan County - AM
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 34.0
```

will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.079 | 1.728 | 1.416 | 1.649 | 1.517 | 0.385 | 0.555 | 0.406 | 3.20 | 1.311 |
| Composite NOX : | 0.649 | 0.998 | 1.016 | 1.002 | 2.965 | 0.753 | 0.797 | 7.809 | 1.06 | 1.649 |
| ----- | | | | | | | | | | |

* #
* Rural minor arterial- Rowan County - AM
* File 1, Run 1, Scenario 2.
* #
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.941 | 1.556 | 1.271 | 1.483 | 1.231 | 0.325 | 0.464 | 0.269 | 2.99 | 1.187 |
| Composite NOX : | 0.674 | 1.053 | 1.066 | 1.056 | 3.435 | 1.015 | 1.076 | 8.490 | 1.30 | 1.520 |

* * * * *
* Rural major collector- Rowan County - AM
* File 1, Run 1, Scenario 3.
* * * * *
* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.963 | 1.587 | 1.296 | 1.513 | 1.256 | 0.330 | 0.472 | 0.268 | 2.99 | 1.233 |
| Composite NOX : | 0.667 | 1.040 | 1.054 | 1.044 | 3.338 | 0.921 | 0.976 | 7.363 | 1.20 | 1.263 |

- * * * * *
* Rural minor collector- Rowan County - AM
* File 1, Run 1, Scenario 4.
* * * * *
* * * * *
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

```

* * * * *
* * Rural local-Rowan County - AM
* * * * *
* * File 1, Run 1, Scenario 5.
* * * * *
* * Rural local mix and speeds
* * * * *

```

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

| | Altitude: | Low |
|----------------------|-----------|------------|
| Minimum Temperature: | | 71.0 (F) |
| Maximum Temperature: | | 89.6 (F) |
| Minimum Rel. Hum.: | | 47.0 (%) |
| Maximum Rel. Hum.: | | 91.0 (%) |
| Barometric Pressure: | | 30.00 (in) |
| 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 |

Composite Emission Factors (g/mi):

[illegible]

```
* * * * *
* Urban interstate- Rowan County - AM
* File 1, Run 1, Scenario 6.
```

* #
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3564 | 0.3431 | 0.1170 | | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.928 | 1.536 | 1.254 | 1.464 | 1.224 | 0.323 | 0.461 | 0.285 | 3.21 | 1.121 |
| Composite NOX : | 0.679 | 1.063 | 1.076 | 1.066 | 3.519 | 1.125 | 1.193 | 11.086 | 1.37 | 2.300 |

* #
* Urban principle arterial- Rowan County - AM
* File 1, Run 1, Scenario 7.

* #
* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.061 | 1.706 | 1.397 | 1.627 | 1.454 | 0.375 | 0.539 | 0.335 | 3.15 | 1.355 |
| Composite NOX : | 0.648 | 0.999 | 1.017 | 1.004 | 2.989 | 0.756 | 0.800 | 5.844 | 1.07 | 1.075 |

* * * * *
* Urban minor arterial- Rowan County - AM
* File 1, Run 1, Scenario 8.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.045 | 1.688 | 1.382 | 1.610 | 1.416 | 0.366 | 0.526 | 0.311 | 3.11 | 1.338 |
| Composite NOX : | 0.649 | 1.003 | 1.020 | 1.008 | 3.036 | 0.764 | 0.808 | 5.684 | 1.08 | 1.077 |

* * * * *
* Urban collector- Rowan County - AM
* File 1, Run 1, Scenario 9.
* * * * *
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

* * * * *
* * Urban local-Rowan County - AM
* *
* * File 1, Run 1, Scenario 10.
* *
* * Urban local mix and speeds
* *

```

User supplied VMT mix.

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

| | Altitude: | Low |
|----------------------|-----------|------------|
| Minimum Temperature: | | 71.0 (F) |
| Maximum Temperature: | | 89.6 (F) |
| Minimum Rel. Hum.: | | 47.0 (%) |
| Maximum Rel. Hum.: | | 91.0 (%) |
| Barometric Pressure: | | 30.00 (in) |
| 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 |

Composite Emission Factors (g/mi):

Composite NOX : 0.704 1.054 1.073 1.058 2.731 0.791 0.837 5.616 0.98 1.144

* * * * *
* Rural principle arterial- Rowan County - Midday
* File 1, Run 1, Scenario 11.
* * * * *
* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDGV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3708 0.3569 0.1216 0.0404 0.0004 0.0019 0.1026 0.0054 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.957 1.578 1.289 1.505 1.262 0.329 0.470 0.299 2.99 1.174

Composite NOX : 0.669 1.043 1.057 1.047 3.382 0.946 1.003 9.574 1.23 1.877

* * * * *
* Rural minor arterial- Rowan County - Midday
* File 1, Run 1, Scenario 12.
* * * * *
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 59.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.924 | 1.530 | 1.249 | 1.458 | 1.212 | 0.322 | 0.460 | 0.265 | 3.28 | 1.168 |
| Composite NOX : | 0.681 | 1.066 | 1.079 | 1.069 | 3.529 | 1.159 | 1.230 | 9.705 | 1.39 | 1.618 |

* #

* Rural major collector- Rowan County - Midday

* File 1, Run 1, Scenario 13.

* #

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.941 | 1.556 | 1.271 | 1.484 | 1.225 | 0.325 | 0.464 | 0.259 | 2.99 | 1.208 |
| Composite NOX : | 0.674 | 1.053 | 1.066 | 1.056 | 3.428 | 1.015 | 1.076 | 8.127 | 1.30 | 1.311 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor collector- Rowan County - Midday
* File 1, Run 1, Scenario 14.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:
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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.974 | 1.602 | 1.309 | 1.528 | 1.275 | 0.334 | 0.477 | 0.276 | 2.99 | 1.239 |
| Composite NOX : | 0.664 | 1.034 | 1.048 | 1.037 | 3.292 | 0.881 | 0.933 | 7.091 | 1.16 | 1.293 |

- * #
- * Rural local- Rowan County - Midday
- * File 1, Run 1, Scenario 15.
- * #
- * Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

* * * * *
 * Urban principle arterial- Rowan County - Midday
 * File 1, Run 1, Scenario 17.
 * * * * *
 * Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.053 | 1.697 | 1.389 | 1.618 | 1.434 | 0.370 | 0.533 | 0.328 | 3.13 | 1.346 |
| Composite NOX : | 0.649 | 1.001 | 1.019 | 1.006 | 3.013 | 0.760 | 0.804 | 5.875 | 1.08 | 1.078 |

* * * * *
 * Urban minor arterial- Rowan County - Midday
 * File 1, Run 1, Scenario 18.
 * * * * *
 * Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.038 | 1.679 | 1.374 | 1.602 | 1.399 | 0.362 | 0.520 | 0.305 | 3.09 | 1.330 |
| Composite NOX : | 0.650 | 1.005 | 1.022 | 1.009 | 3.058 | 0.767 | 0.812 | 5.711 | 1.09 | 1.079 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # #
* Urban collector- Rowan County - Midday
* File 1, Run 1, Scenario 19.
* # # # # # # # # # # # # # # # #
* 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.114 | 1.772 | 1.454 | 1.691 | 1.575 | 0.402 | 0.581 | 0.355 | 3.29 | 1.418 |
| Composite NOX : | 0.663 | 1.010 | 1.028 | 1.015 | 2.872 | 0.757 | 0.801 | 5.404 | 1.04 | 1.063 |

* * * * *
 * Urban local- Rowan County - Midday
 * File 1, Run 1, Scenario 20.
 * * * * *
 * Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.509 |
| Composite NOX : | 0.704 | 1.054 | 1.073 | 1.058 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.144 |

* * * * *
* Rural principle arterial- Rowan County - PM
* File 1, Run 1, Scenario 21.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

* #
* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.963 | 1.587 | 1.296 | 1.513 | 1.256 | 0.330 | 0.472 | 0.268 | 2.99 | 1.233 |
| Composite NOX : | 0.667 | 1.040 | 1.054 | 1.044 | 3.338 | 0.921 | 0.976 | 7.363 | 1.20 | 1.263 |
| ----- | | | | | | | | | | |

* #
* Rural minor collector- Rowan County - PM

* File 1, Run 1, Scenario 24.

* #
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.986 | 1.617 | 1.322 | 1.542 | 1.295 | 0.338 | 0.483 | 0.283 | 3.00 | 1.253 |
| Composite NOX : | 0.661 | 1.028 | 1.043 | 1.032 | 3.247 | 0.850 | 0.900 | 6.841 | 1.14 | 1.274 |

* * * * *
* Rural local- Rowan County - PM
* File 1, Run 1, Scenario 25.
* * * * *
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|---------------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |

VTM Distribution: 0.3763 0.3658 0.1248

Composite Emission Factors (g/mi):
Composite VOC : 1.152 1.820 1.495 1.737 1.679 0.423 0.612 0.429 3.39 1.424
Composite NOX : 0.681 1.028 1.047 1.033 2.811 0.770 0.815 6.189 1.01 1.373

* * * * *
* Urban interstate- Rowan County - PM
* File 1, Run 1, Scenario 26.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

* * * * *
* * Urban principle arterial - Rowan County - PM
* * File 1, Run 1, Scenario 27.
* * * * *
* * Urban principle arterial mix and speeds
* * * * *

```

M583 Warning:

M 48 Warning:

Calendar Year: 2008
Month: July

| | |
|----------------------|-------------------|
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |

| | |
|----------------------|-----|
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

Composite Emission Factors (g/mi):

Composite NOX : 0.651 1.000 1.018 1.005 2.943 0.753 0.797 5.820 1.06 1.074

* * * * *
* Urban minor arterial- Rowan County - PM
* File 1, Run 1, Scenario 28.
* * * * *
* 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

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV HDVT LDVT HDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.4058 0.3906 0.1332 0.0285 0.0004 0.0021 0.0335 0.0059 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 1.061 1.706 1.397 1.627 1.455 0.375 0.539 0.325 3.15 1.355

Composite NOX : 0.648 0.999 1.017 1.004 2.989 0.756 0.800 5.626 1.07 1.071

* * * * *
* Urban collector- Rowan County - PM
* File 1, Run 1, Scenario 29.
* * * * *
* Urban collector mix and speeds

M615 Comment:

M583 Warning: User supplied VMT mix.
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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.152 | 1.820 | 1.495 | 1.737 | 1.673 | 0.423 | 0.612 | 0.387 | 3.39 | 1.462 |
| Composite NOX : | 0.681 | 1.028 | 1.047 | 1.033 | 2.805 | 0.770 | 0.815 | 5.500 | 1.01 | 1.081 |
| ----- | | | | | | | | | | |

* * * * *
* Urban local- Rowan County - PM
* File 1, Run 1, Scenario 30.
* * * * *
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: 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: | 0.4018 | 0.3860 | 0.1317 | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 | |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.509 |
| Composite NOX : | 0.704 | 1.054 | 1.073 | 1.058 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.144 |
| ----- | | | | | | | | | | |

* * * * *
* Rural principle arterial- Rowan County - Nite
* File 1, Run 1, Scenario 31.
* * * * *
* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.924 | 1.530 | 1.249 | 1.458 | 1.222 | 0.322 | 0.460 | 0.286 | 3.28 | 1.138 |
| Composite NOX : | 0.681 | 1.066 | 1.079 | 1.069 | 3.544 | 1.159 | 1.230 | 11.527 | 1.39 | 2.101 |

- * #
- * Rural minor arterial- Rowan County - Nite
- * File 1, Run 1, Scenario 32.
- * #
- * Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 61.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

there are no sales for vehicle class HDGV8b

Reformulated Gas: No

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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | 0.3763 | 0.3658 | 0.1248 | >6000 | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.152 | 1.820 | 1.495 | 1.737 | 1.679 | 0.423 | 0.612 | 0.429 | 3.39 | 1.424 |
| Composite NOX : | 0.681 | 1.028 | 1.047 | 1.033 | 2.811 | 0.770 | 0.815 | 6.189 | 1.01 | 1.373 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban interstate- Rowan County - Nite
* File 1, Run 1, Scenario 36.
* # # # # # # # # # # # # # # # # # #
* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 61.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3564 | 0.3431 | 0.1170 | | 0.0521 | 0.0004 | 0.0018 | 0.1240 | 0.0052 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| Composite VOC : | 0.916 | 1.518 | 1.239 | 1.447 | 1.214 | 0.321 | 0.459 | 0.282 | 3.42 | 1.109 |
| Composite NOX : | 0.685 | 1.073 | 1.085 | 1.076 | 3.587 | 1.248 | 1.324 | 12.195 | 1.44 | 2.448 |

* * * * *
 * Urban principle arterial- Rowan County - Nite
 * File 1, Run 1, Scenario 37.
 * * * * *
 * * * * *
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | (All) | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.011 | 1.648 | 1.348 | 1.571 | 1.339 | 0.348 | 0.499 | 0.291 | 3.03 | 1.300 |
| Composite NOX : | 0.655 | 1.016 | 1.032 | 1.020 | 3.151 | 0.800 | 0.846 | 6.186 | 1.11 | 1.102 |

- * * * * *
* Urban minor arterial- Rowan County - Nite
* File 1, Run 1, Scenario 38.
* * * * *
* Urban 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | (All) | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

```

* * * * *
* * Urban collector-Rowan County - Nite
* * File 1, Run 1, Scenario 39.
* * * * *
* * Urban collector mix and speeds
* * * * *

```

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

Month: July

Altitude: Low

Maximum Temperature: 89.6 (F)

Maximum Rel. Hum.: 91.0 (%)

Nominal Fuel RVP: 9.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

ATP Program: Yes

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| Composite VOC : | 1.053 | 1.697 | 1.389 | 1.618 | 1.433 | 0.370 | 0.533 | 0.306 | 3.13 | 1.348 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite NOV : | 0.649 | 1.001 | 1.019 | 1.006 | 2.011 | 0.760 | 0.804 | 5.426 | 1.08 | 1.058 |

```

* * * * *
* Urban local-Rowan County - Nite
* File 1, Run 1, Scenario 40.

```

* #
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.198 | 1.877 | 1.544 | 1.792 | 1.793 | 0.448 | 0.650 | 0.425 | 3.51 | 1.509 |
| Composite NOX : | 0.704 | 1.054 | 1.073 | 1.058 | 2.731 | 0.791 | 0.837 | 5.616 | 0.98 | 1.144 |
| ----- | | | | | | | | | | |


```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: U2008.IN (file 1, run 1).
*****

```

```
* data file: NCAGE07.PRN
```

* OBDII

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.

*** I/M credits for Tech1&2 vehicles were read from the following external data file: TECH12.D

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.928 | 1.529 | 1.239 | 1.455 | 1.332 | 0.343 | 0.491 | 0.325 | 3.01 | 1.145 |
| Composite NOX : | 0.584 | 0.908 | 0.932 | 0.914 | 3.217 | 0.817 | 0.865 | 8.391 | 1.11 | 1.653 |
| ----- | | | | | | | | | | |

* * * * *

* Rural minor arterial- Union County - AM
 * File 1, Run 1, Scenario 2.
 * * * * *

* Rural minor arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.895 | 1.487 | 1.204 | 1.415 | 1.261 | 0.330 | 0.472 | 0.279 | 2.99 | 1.137 |
| Composite NOX : | 0.594 | 0.926 | 0.949 | 0.932 | 3.344 | 0.921 | 0.976 | 7.695 | 1.20 | 1.369 |
| ----- | | | | | | | | | | |

* * * * *
* Rural major collector- Union County - AM
* File 1, Run 1, Scenario 3.
* * * * *
* Rural major collector mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.928 | 1.529 | 1.239 | 1.455 | 1.317 | 0.343 | 0.491 | 0.289 | 3.01 | 1.193 |
| Composite NOX : | 0.584 | 0.908 | 0.932 | 0.914 | 3.198 | 0.817 | 0.865 | 6.517 | 1.11 | 1.119 |

- * #
- * Rural minor collector- Union County - AM
- * File 1, Run 1, Scenario 4.
- * #
- * Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

there are no sales for vehicle class HDGV8b

ng: The user supplied arterial average speed of 34.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.001 | 1.613 | 1.309 | 1.536 | 1.498 | 0.385 | 0.554 | 0.351 | 3.20 | 1.285 |
| Composite NOX : | 0.576 | 0.886 | 0.913 | 0.893 | 2.943 | 0.753 | 0.797 | 5.820 | 1.06 | 0.985 |
| ----- | | | | | | | | | | |

* #
* Urban minor arterial- Union County - AM
* File 1, Run 1, Scenario 8.
* #
* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTL2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.067 | 1.695 | 1.379 | 1.615 | 1.675 | 0.423 | 0.612 | 0.403 | 3.39 | 1.362 |
| Composite NOX : | 0.603 | 0.912 | 0.939 | 0.919 | 2.807 | 0.770 | 0.815 | 5.733 | 1.01 | 1.006 |

* * * * *
 * Urban collector- Union County - AM
 * File 1, Run 1, Scenario 9.
 * * * * *
 * Urban collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

| | |
|----------------|------|
| Calendar Year: | 2008 |
| Month: | July |

Altitude: Low

Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.001 | 1.613 | 1.309 | 1.536 | 1.497 | 0.385 | 0.554 | 0.328 | 3.20 | 1.287 |
| Composite NOX : | 0.576 | 0.886 | 0.913 | 0.893 | 2.941 | 0.753 | 0.797 | 5.375 | 1.06 | 0.965 |

* * * * *
* Urban local- Union County - AM
* File 1, Run 1, Scenario 10.
* * * * *
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

* #
* 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | >6000 | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.881 | 1.466 | 1.187 | 1.396 | 1.238 | 0.326 | 0.466 | 0.272 | 2.99 | 1.120 |
| Composite NOX : | 0.599 | 0.935 | 0.958 | 0.941 | 3.413 | 0.993 | 1.053 | 8.302 | 1.27 | 1.420 |
| ----- | | | | | | | | | | |

* #
* Rural major collector- Union County - Midday
* File 1, Run 1, Scenario 13.
* #
* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.916 | 1.514 | 1.227 | 1.441 | 1.294 | 0.338 | 0.484 | 0.281 | 3.00 | 1.180 |
| Composite NOX : | 0.587 | 0.914 | 0.938 | 0.920 | 3.247 | 0.850 | 0.900 | 6.788 | 1.14 | 1.138 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
* Rural minor collector- Union County - Midday
* File 1, Run 1, Scenario 14.
* # # # # # # # # # # # # # # # # # # #
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.928 | 1.529 | 1.239 | 1.455 | 1.318 | 0.343 | 0.490 | 0.291 | 3.01 | 1.187 |
| Composite NOX : | 0.584 | 0.908 | 0.932 | 0.914 | 3.198 | 0.817 | 0.865 | 6.569 | 1.11 | 1.167 |

* * * * *
* Rural local- Union County - Midday
* File 1, Run 1, Scenario 15.
* * * * *
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.044 | 1.666 | 1.354 | 1.587 | 1.611 | 0.409 | 0.591 | 0.405 | 3.32 | 1.303 |
| Composite NOX : | 0.592 | 0.899 | 0.926 | 0.906 | 2.853 | 0.758 | 0.803 | 6.095 | 1.03 | 1.272 |

* * * * *
* Urban freeway- Union County - Midday
* File 1, Run 1, Scenario 16.
* * * * *
* * * * *
* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3807 | 0.3667 | 0.1250 | | 0.0355 | 0.0004 | 0.0019 | 0.0843 | 0.0055 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.970 | 1.577 | 1.279 | 1.501 | 1.433 | 0.366 | 0.526 | 0.367 | 3.11 | 1.207 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

Composite NOX : 0.575 0.890 0.916 0.896 3.057 0.764 0.808 7.806 1.08 1.434

* * * * *
* Urban principle arterial- Union County - Midday
* File 1, Run 1, Scenario 17.
* * * * *
* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDVT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.4066 0.3916 0.1335 0.0262 0.0004 0.0021 0.0338 0.0058 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.963 1.569 1.272 1.494 1.398 0.362 0.520 0.314 3.09 1.242

Composite NOX : 0.576 0.892 0.917 0.898 3.058 0.767 0.812 5.932 1.09 0.995

* * * * *
* Urban minor arterial- Union County - Midday
* File 1, Run 1, Scenario 18.
* * * * *
* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT (All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.021 | 1.638 | 1.330 | 1.560 | 1.549 | 0.396 | 0.571 | 0.359 | 3.26 | 1.308 |
| Composite NOX : | 0.583 | 0.892 | 0.919 | 0.899 | 2.899 | 0.756 | 0.800 | 5.622 | 1.05 | 0.987 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban collector- Union County - Midday
* File 1, Run 1, Scenario 19.
* # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 38.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b


```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000 ----->6000
VMT Distribution: 0.4066 0.3911 0.1333 0.0293 0.0004 0.0021 0.0313 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC : 0.970 1.577 1.279 1.501 0.366 0.526 0.299 3.11 1.252
Composite NOX : 0.575 0.890 0.916 0.896 0.764 0.808 5.454 1.08 0.972

* * * * *
* Urban local- Union County - Midday
* File 1, Run 1, Scenario 20.
* * * * *
* Urban local mix and speeds
M615 Comment:
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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

```

```

* * * * *
* Rural principle arterial - Union County - PM
* File 1, Run 1, Scenario 21.
* * * * *
* Rural other principle arterial mix and speeds
M615 Comment:      User supplied VMT mix.

```

M581 Warning:

The user supplied freeway average speed of 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

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |

| | |
|----------------------|-----|
| Exhaust I/M Program: | Yes |
| Evap I/M Program: | Yes |
| ATP Program: | Yes |
| Reformulated Gas: | No |

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North Carolina Reasonable Further Progress Demonstration

there are no sales for vehicle class HDGV8b

Reformulated Gas: No

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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.933 | 1.535 | 1.244 | 1.461 | 1.330 | 0.345 | 0.495 | 0.296 | 3.02 | 1.193 |
| Composite NOX : | 0.583 | 0.905 | 0.930 | 0.911 | 3.177 | 0.808 | 0.856 | 6.500 | 1.11 | 1.161 |
| ----- | | | | | | | | | | |

* #
* Rural local- Union County - PM
* File 1, Run 1, Scenario 25.
* #
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|
|---------------|------|--------|--------|---------------|------|------|------|------|----|---------|

| | | | | | | | | | | |
|-------|-------|-------|--|--|--|--|--|--|--|--|
| GVWR: | <6000 | >6000 | | | | | | | | |
|-------|-------|-------|--|--|--|--|--|--|--|--|

VMT Distribution: 0.3763 0.3658 0.1248

 Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.032 | 1.652 | 1.342 | 1.573 | 1.581 | 0.402 | 0.581 | 0.394 | 3.29 | 1.290 |
| Composite NOX : | 0.587 | 0.895 | 0.922 | 0.902 | 2.879 | 0.757 | 0.801 | 6.083 | 1.04 | 1.269 |

* * * * *
 * Urban freeway- Union County - PM
 * File 1, Run 1, Scenario 26.
 * * * * *
 * * * * *
 * Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 29.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3807 | 0.3667 | 0.1250 | (All) | 0.0355 | 0.0004 | 0.0019 | 0.0843 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.053 | 1.677 | 1.363 | 1.598 | 1.659 | 0.416 | 0.601 | 0.461 | 3.35 | 1.304 |
| Composite NOX : | 0.581 | 0.887 | 0.914 | 0.893 | 2.847 | 0.764 | 0.809 | 7.809 | 1.02 | 1.428 |

- * # # # # # # # # # # # # # # # # # # #
- * Urban principle arterial- Union County - PM
- * File 1, Run 1, Scenario 27.
- * # # # # # # # # # # # # # # # # # # #
- * Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 33.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

GVWR:

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | (All) | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|

* #
 * Urban collector mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.021 | 1.638 | 1.330 | 1.560 | 1.547 | 0.396 | 0.572 | 0.346 | 3.26 | 1.310 |
| Composite NOX : | 0.583 | 0.892 | 0.919 | 0.899 | 2.897 | 0.756 | 0.800 | 5.394 | 1.05 | 0.970 |
| ----- | | | | | | | | | | |

* #
 * Urban local- Union County - PM

* File 1, Run 1, Scenario 30.

* #
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 26.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.095 | 1.728 | 1.407 | 1.646 | 1.750 | 0.439 | 0.637 | 0.411 | 3.47 | 1.390 |
| Composite NOX : | 0.617 | 0.926 | 0.955 | 0.934 | 2.757 | 0.783 | 0.829 | 5.561 | 0.99 | 1.043 |

* * * * *
* Rural principle arterial- Union County - Nite
* File 1, Run 1, Scenario 31.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDVV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.900 | 1.494 | 1.210 | 1.422 | 1.279 | 0.332 | 0.474 | 0.304 | 2.99 | 1.114 |
| Composite NOX : | 0.592 | 0.923 | 0.946 | 0.929 | 3.333 | 0.895 | 0.948 | 9.108 | 1.18 | 1.742 |

* * * * *
* Rural minor arterial- Union County - Nite
* File 1, Run 1, Scenario 32.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.868 | 1.448 | 1.172 | 1.378 | 1.221 | 0.323 | 0.462 | 0.267 | 3.14 | 1.107 |
| Composite NOX : | 0.604 | 0.945 | 0.968 | 0.951 | 3.484 | 1.090 | 1.156 | 9.119 | 1.35 | 1.487 |

```

* # # # # # # # # # # # # # # # # # # #
* Rural major collector- Union County - Nite
* File 1, Run 1, Scenario 33.
* # # # # # # # # # # # # # # # # # # #
* Rural major collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 50.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| | | | | | | | | | | |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.900 | 1.494 | 1.210 | 1.422 | 1.264 | 0.332 | 0.474 | 0.270 | 2.99 | 1.162 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|

Composite NOX : 0.592 0.923 0.946 0.929 3.313 0.895 0.948 7.153 1.18 1.163

* * * * *
* Rural minor collector- Union County - Nite
* File 1, Run 1, Scenario 34.
* * * * *
* 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) LDGT HDDV LDDV LDDT MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3948 0.3787 0.1291 0.0364 0.0004 0.0020 0.0529 0.0057 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.922 1.521 1.232 1.448 1.306 0.340 0.487 0.287 3.00 1.180

Composite NOX : 0.586 0.911 0.935 0.917 3.223 0.834 0.883 6.708 1.13 1.178

* * * * *
* Rural local- Union County - Nite
* File 1, Run 1, Scenario 35.
* * * * *
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 | |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.044 | 1.666 | 1.354 | 1.587 | 1.611 | 0.409 | 0.591 | 0.405 | 3.32 | 1.303 |
| Composite NOX : | 0.592 | 0.899 | 0.926 | 0.906 | 2.853 | 0.758 | 0.803 | 6.095 | 1.03 | 1.272 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Urban freeway- Union County - Nite
* File 1, Run 1, Scenario 36.
* # # # # # # # # # # # # # # # # # #
* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3807 | 0.3667 | 0.1250 | | 0.0355 | 0.0004 | 0.0019 | 0.0843 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.916 | 1.514 | 1.227 | 1.441 | 1.308 | 0.338 | 0.484 | 0.313 | 3.00 | 1.148 |
| Composite NOX : | 0.587 | 0.914 | 0.938 | 0.920 | 3.265 | 0.850 | 0.900 | 8.588 | 1.14 | 1.524 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban principle arterial- Union County - Nite
 * File 1, Run 1, Scenario 37.
 * * * * *
 * Urban principle 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | (All) | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 | |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.928 | 1.529 | 1.239 | 1.455 | 1.314 | 0.343 | 0.490 | 0.281 | 3.01 | 1.204 |
| Composite NOX : | 0.584 | 0.908 | 0.933 | 0.914 | 3.194 | 0.817 | 0.865 | 6.321 | 1.11 | 1.024 |

- * #
- * Urban minor arterial- Union County - Nite
- * File 1, Run 1, Scenario 38.
- * #
- * Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 40.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|------|--------|--------|------|------|------|------|------|----|---------|
|---------------|------|--------|--------|------|------|------|------|------|----|---------|

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

* * * * *
 * Urban local- Union County - Nite
 * File 1, Run 1, Scenario 40.
 * * * * *
 * 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: 2008
 Month: July

 Altitude: Low

 Minimum Temperature: 71.0 (F)

 Maximum Temperature: 89.6 (F)

 Minimum Rel. Hum.: 47.0 (%)

 Maximum Rel. Hum.: 91.0 (%)

 Barometric Pressure: 30.00 (inches Hg)

 Nominal Fuel RVP: 9.0 psi

 Weathered RVP: 8.6 psi

 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes

 Evap I/M Program: Yes

 ATP Program: Yes

 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.055 | 1.680 | 1.366 | 1.600 | 1.637 | 0.416 | 0.601 | 0.375 | 3.35 | 1.344 |
| Composite NOX : | 0.597 | 0.905 | 0.932 | 0.912 | 2.826 | 0.764 | 0.809 | 5.419 | 1.02 | 1.021 |
| ----- | | | | | | | | | | |

5.2.14 Union 2008 Non-I/M (U2008N.TXT)

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: U2008N.IN (file 1, run 1). *
*****

* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII

* # # # # # # # # # # # # # # # # # # #
* Rural principle arterial- Union County - AM
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # #
* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
```

The user supplied freeway average speed of 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.999 | 1.634 | 1.336 | 1.558 | 1.332 | 0.343 | 0.491 | 0.325 | 3.01 | 1.220 |
| Composite NOX : | 0.658 | 1.022 | 1.037 | 1.025 | 3.217 | 0.817 | 0.865 | 8.391 | 1.11 | 1.733 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Union County - AM
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |

Composite Emission Factors (g/mi):
 Composite VOC : 0.963 1.587 1.296 1.513 1.261 0.330 0.472 0.279 2.99 1.211
 Composite NOX : 0.667 1.040 1.054 1.044 3.344 0.921 0.976 7.695 1.20 1.452

* * * * *
 * Rural major collector- Union County - AM
 * File 1, Run 1, Scenario 3.
 * * * * *
 * Rural major collector mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.999 | 1.634 | 1.336 | 1.558 | 1.317 | 0.343 | 0.491 | 0.289 | 3.01 | 1.274 |
| Composite NOX : | 0.658 | 1.022 | 1.037 | 1.025 | 3.198 | 0.817 | 0.865 | 6.517 | 1.11 | 1.205 |

- * # # # # # # # # # # # # # # # # # # #
* Rural minor collector- Union County - AM
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # #
* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

```

VMT Distribution: 0.3948 0.3787 0.1291 0.0364 0.0004 0.0020 0.0529 0.0057 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 1.005 1.640 1.342 1.564 1.330 0.345 0.495 0.296 3.02 1.274
Composite NOX : 0.656 1.019 1.034 1.023 3.177 0.808 0.856 6.500 1.11 1.246
-----

* * * * *
* Rural local- Union County - AM
* File 1, Run 1, Scenario 5.
* * * * *
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.

M583 Warning:
      The user supplied arterial average speed of 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: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 9.0 psi
      Weathered RVP: 8.6 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: No
      Evap I/M Program: No
      ATP Program: Yes
      Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
-----
VMT Distribution: 0.3763 0.3658 0.1248 0.0512 0.0004 0.0019 0.0741 0.0055 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 1.114 1.772 1.454 1.691 1.581 0.402 0.581 0.394 3.29 1.378
Composite NOX : 0.663 1.010 1.028 1.015 2.879 0.757 0.801 6.083 1.04 1.353
-----

* * * * *
* Urban freeway- Union County - AM

```

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

On Road Mobile Sources Documentation
The Charlotte-Gastonia-Rock Hill, NC-SC 8-Hour Ozone
North Carolina Reasonable Further Progress Demonstration

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Appendix E
November 30, 2009

```

* * * * *
* * Urban minor arterial- Union County - AM
* * File 1, Run 1, Scenario 8.
* * * * *
* * Urban minor arterial mix and speeds
* * M615 Comment:
* * User supplied VMT mix.

```

M583 Warning:

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 |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

```

* * * * *
* * Urban collector-Union County - AM
* * File 1, Run 1, Scenario 9.
* * * * *
* * Urban collector mix and speeds
* * * * *

```

M615 Comment :

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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

| | |
|----------------------|----------|
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |

| | | |
|---------|--------------|----|
| Exhaust | I/M Program: | No |
| Evap | I/M Program: | No |

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.079 | 1.729 | 1.416 | 1.649 | 1.497 | 0.385 | 0.554 | 0.328 | 3.20 | 1.378 |
| Composite NOX : | 0.651 | 1.000 | 1.018 | 1.005 | 2.941 | 0.753 | 0.797 | 5.375 | 1.06 | 1.054 |

* * * * *
* Urban local- Union County - AM
* File 1, Run 1, Scenario 10.
* * * * *
* * * * *
* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: 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: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |

Composite Emission Factors (g/ml):

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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDLV | LDLT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3851 | 0.3703 | 0.1262 | | 0.0417 | 0.0004 | 0.0019 | 0.0687 | 0.0056 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.946 | 1.563 | 1.277 | 1.490 | 1.238 | 0.326 | 0.466 | 0.272 | 2.99 | 1.192 |
| Composite NOX : | 0.672 | 1.050 | 1.063 | 1.053 | 3.413 | 0.993 | 1.053 | 8.302 | 1.27 | 1.504 |
| ----- | | | | | | | | | | |

* #
 * Rural major collector- Union County - Midday
 * File 1, Run 1, Scenario 13.
 * #
 * Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.3986 | 0.3832 | 0.1306 | | 0.0330 | 0.0004 | 0.0020 | 0.0464 | 0.0058 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.986 | 1.617 | 1.322 | 1.542 | 1.294 | 0.338 | 0.484 | 0.281 | 3.00 | 1.260 |
| Composite NOX : | 0.661 | 1.028 | 1.043 | 1.032 | 3.247 | 0.850 | 0.900 | 6.788 | 1.14 | 1.224 |

* * * * *
* Rural minor collector- Union County - Midday
* File 1, Run 1, Scenario 14.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

```

Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:
GVWR:
VMT Distribution:
-----
Composite Emission Factors (g/mi):
Composite VOC :
Composite NOX :
-----

* # # # # # # # # # # # # # # # # # # #
* Rural local- Union County - Midday
* File 1, Run 1, Scenario 15.
* # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

| Vehicle Type | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | | | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.999 | 1.634 | 1.336 | 1.558 | 1.318 | 0.343 | 0.490 | 0.291 | 3.01 | 1.267 |
| Composite NOX : | 0.658 | 1.022 | 1.037 | 1.025 | 3.198 | 0.817 | 0.865 | 6.569 | 1.11 | 1.253 |


```

* * * * *
* Urban principle arterial- Union County - Midday
* File 1, Run 1, Scenario 17.
* * * * *
* Urban principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 39.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.038 | 1.679 | 1.374 | 1.602 | 1.398 | 0.362 | 0.520 | 0.314 | 3.09 | 1.330 |
| Composite NOX : | 0.650 | 1.005 | 1.022 | 1.009 | 3.058 | 0.767 | 0.812 | 5.932 | 1.09 | 1.083 |
| ----- | | | | | | | | | | |

```

* * * * *
* Urban minor arterial- Union County - Midday
* File 1, Run 1, Scenario 18.
* * * * *
* Urban minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:

```

The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4058 | 0.3906 | 0.1332 | | 0.0285 | 0.0004 | 0.0021 | 0.0335 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.102 | 1.757 | 1.441 | 1.676 | 1.549 | 0.396 | 0.571 | 0.359 | 3.26 | 1.402 |
| Composite NOX : | 0.659 | 1.007 | 1.025 | 1.011 | 2.899 | 0.756 | 0.800 | 5.622 | 1.05 | 1.076 |
| ----- | | | | | | | | | | |

* * * * *
* Urban collector- Union County - Midday
* File 1, Run 1, Scenario 19.
* * * * *
* * * * *
* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 38.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VTM Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.045 | 1.688 | 1.381 | 1.610 | 1.414 | 0.366 | 0.526 | 0.299 | 3.11 | 1.340 |
| Composite NOX : | 0.649 | 1.003 | 1.020 | 1.008 | 3.034 | 0.764 | 0.808 | 5.454 | 1.08 | 1.060 |

* * * * *
 * Urban local- Union County - Midday
 * File 1, Run 1, Scenario 20.
 * * * * *
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

| | | | | | | | | | | |
|--|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| Exhaust I/M Program: No | | | | | | | | | | |
| Evap I/M Program: No | | | | | | | | | | |
| ATP Program: Yes | | | | | | | | | | |
| Reformulated Gas: No | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.166 | 1.838 | 1.510 | 1.754 | 1.709 | 0.431 | 0.624 | 0.398 | 3.43 | 1.473 |
| Composite NOX : | 0.688 | 1.036 | 1.055 | 1.041 | 2.782 | 0.777 | 0.822 | 5.511 | 1.00 | 1.120 |
| * * * * * | | | | | | | | | | |
| * Rural principle arterial- Union County - PM | | | | | | | | | | |
| * File 1, Run 1, Scenario 21. | | | | | | | | | | |
| * * * * * | | | | | | | | | | |
| * Rural other principle arterial mix and speeds | | | | | | | | | | |
| M615 Comment: | | | | | | | | | | |
| User supplied VMT mix. | | | | | | | | | | |
| M581 Warning: | | | | | | | | | | |
| The user supplied freeway average speed of 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 | | | | | | | | | | |
| Calendar Year: 2008 | | | | | | | | | | |
| Month: July | | | | | | | | | | |
| Altitude: Low | | | | | | | | | | |
| Minimum Temperature: 71.0 (F) | | | | | | | | | | |
| Maximum Temperature: 89.6 (F) | | | | | | | | | | |
| Minimum Rel. Hum.: 47.0 (%) | | | | | | | | | | |
| Maximum Rel. Hum.: 91.0 (%) | | | | | | | | | | |
| Barometric Pressure: 30.00 (inches Hg) | | | | | | | | | | |
| Nominal Fuel RVP: 9.0 psi | | | | | | | | | | |
| Weathered RVP: 8.6 psi | | | | | | | | | | |
| Fuel Sulfur Content: 30. ppm | | | | | | | | | | |
| Exhaust I/M Program: No | | | | | | | | | | |
| Evap I/M Program: No | | | | | | | | | | |
| ATP Program: Yes | | | | | | | | | | |
| Reformulated Gas: No | | | | | | | | | | |
| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
| GVWR: | <6000 | <6000 | >6000 | | | | | | | |

```

VMT Distribution: 0.3708 0.3569 0.1216 0.0404 0.0004 0.0019 0.1026 0.0054 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 1.011 1.648 1.348 1.571 1.357 0.348 0.499 0.336 3.03 1.234
Composite NOX : 0.655 1.016 1.032 1.020 3.174 0.800 0.847 8.234 1.11 1.712
-----

* * * * *
* Rural minor arterial- Union County - PM
* File 1, Run 1, Scenario 22.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:
M583 Warning:
M48 Warning:
M615 Comment:
M583 Warning:
M48 Warning:

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3851 0.3703 0.1262 0.0417 0.0004 0.0019 0.0687 0.0056 1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC : 0.974 1.602 1.309 1.528 1.279 0.334 0.477 0.285 2.99 1.224
Composite NOX : 0.664 1.034 1.048 1.037 3.298 0.881 0.933 7.355 1.16 1.422
-----

* * * * *
* Rural major collector- Union County - PM

```

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

```
* * * * *
* Rural minor collector- Union County - PM
* File 1, Run 1, Scenario 24.
* * * * *
* Rural minor collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.005 | 1.640 | 1.342 | 1.564 | 1.330 | 0.345 | 0.495 | 0.296 | 3.02 | 1.274 |
| Composite NOX : | 0.656 | 1.019 | 1.034 | 1.023 | 3.177 | 0.808 | 0.856 | 6.500 | 1.11 | 1.246 |
| ----- | | | | | | | | | | |

* # # # # # # # # # # # # # # # # # #
* Rural local- Union County - PM
* File 1, Run 1, Scenario 25.
* # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 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: 71.0 (F)
Maximum Temperature: 89.6 (F)

| | |
|----------------------|-----|
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

| | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Composite VOC : | 1.114 | 1.772 | 1.454 | 1.691 | 1.581 | 0.402 | 0.581 | 0.394 | 3.29. | 1.378 |
| Composite NOX : | 0.663 | 1.010 | 1.028 | 1.015 | 2.879 | 0.757 | 0.801 | 6.083 | 1.04 | 1.353 |

M615 Comment: User supplied VMT mix.

```
M 48 Warning:
there are no sales for vehicle class HDGV8b
```

| | Altitude: | Low |
|----------------------|-----------|----------|
| Minimum Temperature: | | 71.0 (F) |
| Maximum Temperature: | | 89.6 (F) |
| Minimum Rel. Hum.: | | 47.0 (%) |
| Maximum Rel. Hum.: | | 91.0 (%) |

| | | |
|---------|--------------|----|
| Exhaust | I/M Program: | No |
| Evap | I/M Program: | No |

ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.3807 | 0.3667 | 0.1250 | 0.0355 | 0.0004 | 0.0019 | 0.0843 | 0.0055 | 1.0000 | |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.137 | 1.801 | 1.478 | 1.719 | 1.659 | 0.416 | 0.601 | 0.461 | 3.35 | 1.395 |
| Composite NOX : | 0.657 | 1.001 | 1.019 | 1.005 | 2.847 | 0.764 | 0.809 | 7.809 | 1.02 | 1.512 |

- * * * * *
- * Urban principle arterial- Union County - PM
- * File 1, Run 1, Scenario 27.
- * * * * *
- * * * * *
- * Urban principle arterial mix and speeds
- M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 33.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | >6000 | (All) | | | | | | |
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 | |

Composite Emission Factors (g/ml):

Composite VOC : 1.090 1.742 1.428 1.662 1.523 0.390 0.563 0.361 3.23 1.388
Composite NOX : 0.654 1.003 1.021 1.008 2.922 0.754 0.798 5.830 1.05 1.077

* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial- Union County - PM
* File 1, Run 1, Scenario 28.
* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.4058 0.3906 0.1332 0.0285 0.0004 0.0021 0.0335 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC : 1.182 1.857 1.526 1.773 1.753 0.439 0.637 0.429 3.47 1.494
Composite NOX : 0.696 1.044 1.064 1.049 2.760 0.783 0.829 5.835 0.99 1.114

* # # # # # # # # # # # # # # # # # # #
* Urban collector- Union County - PM
* File 1, Run 1, Scenario 29.
* # # # # # # # # # # # # # # # # # # #
* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 71.0 (F)
 Maximum Temperature: 89.6 (F)
 Minimum Rel. Hum.: 47.0 (%)
 Maximum Rel. Hum.: 91.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT (All) | HDGV | LDVV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | | | | | | | |
| VMT Distribution: | 0.4066 | 0.3911 | 0.1333 | | 0.0293 | 0.0004 | 0.0021 | 0.0313 | 0.0059 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 1.102 | 1.757 | 1.441 | 1.676 | 1.547 | 0.396 | 0.572 | 0.346 | 3.26 | 1.404 |
| Composite NOX : | 0.659 | 1.007 | 1.025 | 1.011 | 2.897 | 0.756 | 0.800 | 5.394 | 1.05 | 1.060 |
| ----- | | | | | | | | | | |

* * * * *
 * Urban local- Union County - PM
 * File 1, Run 1, Scenario 30.
 * * * * *
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 26.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGTl2 | LDGT34 | LDGT
(All) | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|-------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | <6000 | >6000 | | | | | | | | |
| VMT Distribution: | 0.4018 | 0.3860 | 0.1317 | | 0.0350 | 0.0004 | 0.0020 | 0.0374 | 0.0057 | 1.0000 |

Composite Emission Factors (g/ml):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 1.182 | 1.857 | 1.526 | 1.773 | 1.750 | 0.439 | 0.637 | 0.411 | 3.47 | 1.490 |
| Composite NOX : | 0.696 | 1.044 | 1.064 | 1.049 | 2.757 | 0.783 | 0.829 | 5.561 | 0.99 | 1.135 |

* * * * *
* Rural principle arterial- Union County - Nite
* File 1, Run 1, Scenario 31.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDLV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VTM Distribution: | 0.3708 | 0.3569 | 0.1216 | | 0.0404 | 0.0004 | 0.0019 | 0.1026 | 0.0054 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 0.968 | 1.595 | 1.303 | 1.521 | 1.279 | 0.332 | 0.474 | 0.304 | 2.99 | 1.187 |
| Composite NOX : | 0.665 | 1.037 | 1.051 | 1.040 | 3.333 | 0.895 | 0.948 | 9.108 | 1.18 | 1.822 |
| ----- | | | | | | | | | | |

* * * * *
* Rural minor arterial- Union County - Nite
* File 1, Run 1, Scenario 32.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```
* * * * *
* Rural major collector-Union County - Nite
* File 1, Run 1, Scenario 33.
* * * * *
* Rural major collector mix and speeds
* M615 Comment:
```

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

| Case | I/M Program | No I/M Program |
|------|--------------|----------------|
| Evap | I/M Program: | No |

ATP Program: Yes

Reformulated Gas: No

Composite Emission Factors (g/mi):

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector- Union County - Nite
* File 1, Run 1, Scenario 34.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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: 2008
      Month: July
      Altitude: Low
      Minimum Temperature: 71.0 (F)
      Maximum Temperature: 89.6 (F)
      Minimum Rel. Hum.: 47.0 (%)
      Maximum Rel. Hum.: 91.0 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 9.0 psi
      Weathered RVP: 8.6 psi
      Fuel Sulfur Content: 30. ppm
      Exhaust I/M Program: No
      Evap I/M Program: No
      ATP Program: Yes
      Reformulated Gas: No

```

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT
(All) | HDGV | LDV | LDVT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------|
| GVWR: | ----- | <6000 | >6000 | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| VMT Distribution: | 0.3948 | 0.3787 | 0.1291 | ----- | 0.0364 | 0.0004 | 0.0020 | 0.0529 | 0.0057 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/ml): | | | | | | | | | | |
| Composite VOC : | 0.992 | 1.625 | 1.329 | 1.550 | 1.306 | 0.340 | 0.487 | 0.287 | 3.00 | 1.260 |
| Composite NOX : | 0.659 | 1.025 | 1.040 | 1.029 | 3.223 | 0.834 | 0.883 | 6.708 | 1.13 | 1.263 |
| ----- | | | | | | | | | | |

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local- Union County - Nite
* File 1, Run 1, Scenario 35.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:

```

The user supplied arterial average speed of 30.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 71.0 (F)
Maximum Temperature: 89.6 (F)
Minimum Rel. Hum.: 47.0 (%)
Maximum Rel. Hum.: 91.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| GVWR: | | <6000 | >6000 | (All) | | | | | | |
| VMT Distribution: | 0.3763 | 0.3658 | 0.1248 | | 0.0512 | 0.0004 | 0.0019 | 0.0741 | 0.0055 | 1.0000 |
| ----- | | | | | | | | | | |
| Composite Emission Factors (g/mi): | | | | | | | | | | |
| Composite VOC : | 1.127 | 1.788 | 1.468 | 1.707 | 1.611 | 0.409 | 0.591 | 0.405 | 3.32 | 1.393 |
| Composite NOX : | 0.667 | 1.014 | 1.032 | 1.019 | 2.853 | 0.758 | 0.803 | 6.095 | 1.03 | 1.356 |
| ----- | | | | | | | | | | |

* * * * *
* Urban freeway- Union County - Nite
* File 1, Run 1, Scenario 36.
* * * * *
* * * * *
* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July

[illegible]

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

| | | | | | | | | | | |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|
| VTM Distribution: | 0.4066 | 0.3916 | 0.1335 | | 0.0262 | 0.0004 | 0.0021 | 0.0338 | 0.0058 | 1.0000 |
|-------------------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|

Composite Emission Factors (g/mi):

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| Composite VOC : | 0.999 | 1.634 | 1.336 | 1.558 | 1.314 | 0.343 | 0.490 | 0.281 | 3.01 | 1.287 |
| Composite NOX : | 0.658 | 1.022 | 1.037 | 1.025 | 3.194 | 0.817 | 0.865 | 6.321 | 1.11 | 1.112 |

- * # # # # # # # # # # # # # # # # # # #
- * Urban minor arterial- Union County - Nite
- * File 1, Run 1, Scenario 38.
- * # # # # # # # # # # # # # # # # # # #
- * Urban minor arterial mix and speeds
- M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 71.0 (F)

Maximum Temperature: 89.6 (F)

Minimum Rel. Hum.: 47.0 (%)

Maximum Rel. Hum.: 91.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

| Vehicle Type: | LDGV | LDGT12 | LDGT34 | LDGT | HDGV | LDDV | LDDT | HDDV | MC | All Veh |
|---------------|-------|--------|--------|-------|------|------|------|------|----|---------|
| GVWR: | <6000 | <6000 | >6000 | (All) | | | | | | |

```

VMT Distribution:  0.4058  0.3906  0.1332  0.0285  0.0004  0.0021  0.0335  0.0059  1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC :  1.032  1.671  1.368  1.594  1.382  0.358  0.514  0.298  3.07  1.322
Composite NOX :  0.650  1.007  1.023  1.011  3.079  0.771  0.816  5.737  1.09  1.082
-----

* * * * *
* Urban collector- Union County - Nite
* File 1, Run 1, Scenario 39.
* * * * *
* Urban 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:  71.0 (F)
      Maximum Temperature:  89.6 (F)
      Minimum Rel. Hum.:  47.0 (%)
      Maximum Rel. Hum.:  91.0 (%)
      Barometric Pressure:  30.00 (inches Hg)
      Nominal Fuel RVP:  9.0 psi
      Weathered RVP:  8.6 psi
      Fuel Sulfur Content:  30. ppm

      Exhaust I/M Program:  No
      Evap I/M Program:  No
      ATP Program:  Yes
      Reformulated Gas:  No

Vehicle Type:  LDGV  LDGT12  LDGT34  LDGT  LDGT  HDGV  LDDV  LDDT  HDDV  MC  All Veh
GVWR:  ----->6000  >6000  (All)  ----->6000  >6000  ----->6000  >6000  ----->6000  >6000  ----->6000  >6000

VMT Distribution:  0.4066  0.3911  0.1333  0.0293  0.0004  0.0021  0.0313  0.0059  1.0000
-----
Composite Emission Factors (g/mi):
Composite VOC :  1.018  1.655  1.354  1.579  1.351  0.351  0.504  0.277  3.04  1.309
Composite NOX :  0.653  1.013  1.029  1.017  3.126  0.790  0.837  5.650  1.10  1.076
-----

* * * * *
* Urban local- Union County - Nite

```

| | |
|----------------------|-------------------|
| Calendar Year: | 2008 |
| Month: | July |
| Altitude: | Low |
| Minimum Temperature: | 71.0 (F) |
| Maximum Temperature: | 89.6 (F) |
| Minimum Rel. Hum.: | 47.0 (%) |
| Maximum Rel. Hum.: | 91.0 (%) |
| Barometric Pressure: | 30.00 (inches Hg) |
| Nominal Fuel RVP: | 9.0 psi |
| Weathered RVP: | 8.6 psi |
| Fuel Sulfur Content: | 30. ppm |
| Exhaust I/M Program: | No |
| Evap I/M Program: | No |
| ATP Program: | Yes |
| Reformulated Gas: | No |

Composite Emission Factors (q/mi):

5.3 Metrolina Speeds by County

2002

| Speed - MPH | Daily |
|----------------------|-------|
| Cabarrus | Spd |
| Rural Interstate | 0 |
| Rural Principal Art. | 46 |
| Rural Minor Art. | 41 |
| Rural Major Collect. | 38 |
| Rural Minor Collect. | 34 |
| Rural Local | 30 |
| Urban Interstate | 35 |
| Urban Frwy/Exprwy | 0 |
| Urban Principal Art. | 28 |
| Urban Minor Art. | 29 |
| Urban Collector | 30 |
| Urban Local | 30 |

| Speed - MPH | Daily |
|----------------------|-------|
| Gaston | Spd |
| Rural Interstate | 42 |
| Rural Principal Art. | 66 |
| Rural Minor Art. | 36 |
| Rural Major Collect. | 43 |
| Rural Minor Collect. | 41 |
| Rural Local | 30 |
| Urban Interstate | 44 |
| Urban Frwy/Exprwy | 66 |
| Urban Principal Art. | 26 |
| Urban Minor Art. | 29 |
| Urban Collector | 26 |
| Urban Local | 30 |

| Speed - MPH | Daily |
|--------------------------|--------------|
| Iredell (partial) | Spd |
| Rural Interstate | 53 |
| Rural Principal Art. | 55 |
| Rural Minor Art. | 18 |
| Rural Major Collect. | 32 |
| Rural Minor Collect. | 27 |
| Rural Local | 27 |
| Urban Interstate | 57 |
| Urban Frwy/Exprwy | 0 |
| Urban Principal Art. | 23 |
| Urban Minor Art. | 27 |
| Urban Collector | 26 |
| Urban Local | 19 |

| Speed - MPH | Daily |
|----------------------|--------------|
| Lincoln | Spd |
| Rural Interstate | 0 |
| Rural Principal Art. | 59 |
| Rural Minor Art. | 37 |
| Rural Major Collect. | 51 |
| Rural Minor Collect. | 45 |
| Rural Local | 30 |
| Urban Interstate | 0 |
| Urban Frwy/Exprwy | 0 |
| Urban Principal Art. | 41 |
| Urban Minor Art. | 23 |
| Urban Collector | 22 |
| Urban Local | 30 |

| Speed - MPH | Daily |
|----------------------|--------------|
| Mecklenburg | Spd |
| Rural Interstate | 0 |
| Rural Principal Art. | 22 |
| Rural Minor Art. | 18 |
| Rural Major Collect. | 32 |
| Rural Minor Collect. | 26 |
| Rural Local | 30 |
| Urban Interstate | 41 |
| Urban Frwy/Exprwy | 49 |
| Urban Principal Art. | 25 |
| Urban Minor Art. | 26 |
| Urban Collector | 24 |
| Urban Local | 30 |

| Speed - MPH | Daily |
|----------------------|--------------|
| Rowan | Spd |
| Rural Interstate | 66 |
| Rural Principal Art. | 59 |
| Rural Minor Art. | 49 |
| Rural Major Collect. | 45 |
| Rural Minor Collect. | 44 |
| Rural Local | 44 |
| Urban Interstate | 61 |
| Urban Frwy/Exprwy | 62 |
| Urban Principal Art. | 41 |
| Urban Minor Art. | 42 |
| Urban Collector | 37 |
| Urban Local | 38 |

| Speed - MPH | Daily |
|------------------|-------|
| Union | Spd |
| Rural Freeway | 0 |
| Rural Expressway | 46 |
| Rural Major | 43 |
| Rural Minor | 45 |
| Rural Street | 44 |
| Rural Local | 30 |
| Urban Freeway | 0 |
| Urban Expressway | 36 |
| Urban Major | 33 |
| Urban Minor | 32 |
| Urban Street | 36 |
| Urban Local | 30 |

2008

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|-------|-------------|-------------|-------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Cabarrus | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 52 | 49 | 54 | 49 | 56 |
| Rural Minor Art. | 57 | 55 | 60 | 54 | 62 |
| Rural Major Collect. | 45 | 43 | 48 | 41 | 53 |
| Rural Minor Collect. | 43 | 40 | 45 | 41 | 48 |
| Rural Local | 28 | 28 | 28 | 28 | 27 |
| Urban Interstate | 50 | 41 | 66 | 39 | 68 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 31 | 30 | 32 | 27 | 41 |
| Urban Minor Art. | 30 | 29 | 30 | 26 | 38 |
| Urban Collector | 30 | 29 | 31 | 27 | 38 |
| Urban Local | 25 | 25 | 25 | 24 | 26 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|-----------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Cleveland (pt) | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 67 | 66 | 68 | 66 | 68 |
| Rural Principal Art. | 51 | 48 | 54 | 47 | 59 |
| Rural Minor Art. | 48 | 46 | 49 | 44 | 54 |
| Rural Major Collect. | 46 | 44 | 47 | 44 | 50 |
| Rural Minor Collect. | 43 | 42 | 44 | 42 | 44 |
| Rural Local | 27 | 27 | 27 | 27 | 27 |
| Urban Interstate | 62 | 57 | 68 | 59 | 68 |
| Urban Frwy/Exprwy | 47 | 46 | 47 | 43 | 53 |
| Urban Principal Art. | 33 | 32 | 33 | 30 | 37 |
| Urban Minor Art. | 36 | 36 | 37 | 35 | 40 |
| Urban Collector | 28 | 26 | 28 | 26 | 32 |
| Urban Local | 24 | 25 | 24 | 24 | 24 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Gaston | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 56 | 47 | 61 | 58 | 62 |
| Rural Principal Art. | 56 | 54 | 57 | 56 | 58 |
| Rural Minor Art. | 46 | 44 | 50 | 43 | 51 |
| Rural Major Collect. | 44 | 40 | 48 | 41 | 52 |
| Rural Minor Collect. | 40 | 40 | 41 | 40 | 41 |
| Rural Local | 28 | 28 | 28 | 29 | 28 |
| Urban Interstate | 51 | 44 | 63 | 43 | 63 |
| Urban Frwy/Exprwy | 54 | 52 | 55 | 53 | 56 |
| Urban Principal Art. | 33 | 31 | 35 | 29 | 40 |
| Urban Minor Art. | 34 | 32 | 36 | 32 | 40 |
| Urban Collector | 25 | 26 | 26 | 20 | 30 |
| Urban Local | 24 | 24 | 24 | 24 | 24 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Iredell (pt) | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 60 | 53 | 66 | 56 | 68 |
| Rural Principal Art. | 0 | 0 | 0 | 0 | 0 |
| Rural Minor Art. | 22 | 21 | 22 | 17 | 38 |
| Rural Major Collect. | 34 | 33 | 35 | 29 | 43 |
| Rural Minor Collect. | 25 | 26 | 25 | 23 | 29 |
| Rural Local | 26 | 24 | 26 | 24 | 32 |
| Urban Interstate | 0 | 0 | 0 | 0 | 0 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 26 | 25 | 26 | 22 | 36 |
| Urban Minor Art. | 27 | 25 | 27 | 24 | 35 |
| Urban Collector | 23 | 24 | 22 | 21 | 31 |
| Urban Local | 24 | 25 | 24 | 23 | 26 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Lincoln | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 58 | 56 | 59 | 54 | 62 |
| Rural Minor Art. | 38 | 34 | 40 | 33 | 48 |
| Rural Major Collect. | 56 | 55 | 57 | 55 | 58 |
| Rural Minor Collect. | 45 | 42 | 46 | 44 | 48 |
| Rural Local | 29 | 29 | 29 | 29 | 29 |
| Urban Interstate | 0 | 0 | 0 | 0 | 0 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 43 | 42 | 42 | 40 | 48 |
| Urban Minor Art. | 24 | 23 | 25 | 21 | 29 |
| Urban Collector | 30 | 28 | 32 | 28 | 34 |
| Urban Local | 25 | 25 | 25 | 25 | 25 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Mecklenburg | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 42 | 38 | 46 | 37 | 50 |
| Rural Minor Art. | 29 | 25 | 30 | 25 | 43 |
| Rural Major Collect. | 30 | 23 | 35 | 27 | 41 |
| Rural Minor Collect. | 40 | 38 | 43 | 37 | 46 |
| Rural Local | 30 | 30 | 29 | 30 | 29 |
| Urban Interstate | 49 | 45 | 57 | 41 | 61 |
| Urban Frwy/Exprwy | 53 | 51 | 56 | 50 | 58 |
| Urban Principal Art. | 27 | 25 | 28 | 23 | 37 |
| Urban Minor Art. | 27 | 24 | 28 | 23 | 37 |
| Urban Collector | 25 | 21 | 27 | 21 | 36 |
| Urban Local | 20 | 22 | 20 | 18 | 24 |
| Urban HOV | 64 | 63 | 64 | 66 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Rowan | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 45 | 34 | 52 | 44 | 59 |
| Rural Minor Art. | 57 | 55 | 59 | 54 | 61 |
| Rural Major Collect. | 53 | 51 | 55 | 51 | 57 |
| Rural Minor Collect. | 48 | 47 | 49 | 47 | 50 |
| Rural Local | 28 | 28 | 28 | 28 | 28 |
| Urban Interstate | 59 | 58 | 60 | 58 | 61 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 37 | 36 | 37 | 34 | 43 |
| Urban Minor Art. | 39 | 38 | 39 | 36 | 44 |
| Urban Collector | 31 | 33 | 31 | 28 | 37 |
| Urban Local | 25 | 25 | 25 | 25 | 25 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Stanly | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 50 | 47 | 52 | 47 | 56 |
| Rural Minor Art. | 52 | 50 | 54 | 48 | 57 |
| Rural Major Collect. | 51 | 51 | 52 | 51 | 53 |
| Rural Minor Collect. | 44 | 44 | 44 | 44 | 44 |
| Rural Local | 28 | 28 | 28 | 28 | 28 |
| Urban Interstate | 0 | 0 | 0 | 0 | 0 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 38 | 37 | 37 | 35 | 45 |
| Urban Minor Art. | 38 | 38 | 39 | 37 | 41 |
| Urban Collector | 34 | 33 | 34 | 33 | 36 |
| Urban Local | 25 | 25 | 24 | 24 | 24 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|--------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Union | Spd | Spd | Spd | Spd | Spd |
| Rural Freeway | 0 | 0 | 0 | 0 | 0 |
| Rural Expressway | 46 | 45 | 48 | 43 | 50 |
| Rural Major | 52 | 51 | 54 | 49 | 57 |
| Rural Minor | 46 | 45 | 47 | 45 | 50 |
| Rural Street | 45 | 44 | 45 | 44 | 46 |
| Rural Local | 30 | 31 | 30 | 31 | 30 |
| Urban Freeway | 0 | 0 | 0 | 0 | 0 |
| Urban Expressway | 34 | 29 | 38 | 29 | 47 |
| Urban Major | 37 | 34 | 39 | 33 | 45 |
| Urban Minor | 31 | 28 | 32 | 26 | 40 |
| Urban Street | 36 | 34 | 38 | 32 | 42 |
| Urban Local | 27 | 26 | 27 | 26 | 29 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| Lancaster | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 39 | 33 | 48 | 32 | 60 |
| Rural Minor Art. | 48 | 45 | 50 | 45 | 54 |
| Rural Major Collect. | 37 | 37 | 38 | 35 | 41 |
| Rural Minor Collect. | 41 | 35 | 43 | 43 | 46 |
| Rural Local | 30 | 31 | 31 | 31 | 29 |
| Urban Interstate | 0 | 0 | 0 | 0 | 0 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 38 | 34 | 46 | 32 | 54 |
| Urban Minor Art. | 0 | 0 | 0 | 0 | 0 |
| Urban Collector | 45 | 46 | 47 | 41 | 48 |
| Urban Local | 25 | 24 | 25 | 25 | 25 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|--------------|----------------|---------------|----------------|----------------------------|
| Speed - MPH | Daily | AM Peak | Midday | PM Peak | Night |
| York | Spd | Spd | Spd | Spd | Spd |
| Rural Interstate | 62 | 59 | 66 | 58 | 65 |
| Rural Principal Art. | 48 | 42 | 56 | 43 | 59 |
| Rural Minor Art. | 44 | 41 | 45 | 40 | 52 |
| Rural Major Collect. | 45 | 42 | 47 | 42 | 50 |
| Rural Minor Collect. | 24 | 23 | 26 | 20 | 34 |
| Rural Local | 27 | 27 | 27 | 27 | 27 |
| Urban Interstate | 60 | 57 | 63 | 59 | 63 |
| Urban Frwy/Exprwy | 39 | 38 | 40 | 38 | 41 |
| Urban Principal Art. | 33 | 31 | 35 | 29 | 41 |
| Urban Minor Art. | 32 | 30 | 33 | 29 | 40 |
| Urban Collector | 22 | 25 | 24 | 16 | 33 |
| Urban Local | 24 | 24 | 24 | 24 | 25 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |

5.4 Metrolina VMT by County

2002

| | DAILY |
|----------------------|------------|
| Cabarrus | VMT VISTAS |
| Rural Interstate | 290,391 |
| Rural Principal Art. | 324,349 |
| Rural Minor Art. | 211,964 |
| Rural Major Collect. | 385,957 |
| Rural Minor Collect. | 299,131 |
| Rural Local | 488,675 |
| Urban Interstate | 956,581 |
| Urban Frwy/Exprwy | 0 |
| Urban Principal Art. | 670,359 |
| Urban Minor Art. | 583,244 |
| Urban Collector | 298,966 |
| Urban Local | 805,910 |
| Rural | 2,000,468 |
| Urban | 3,315,060 |
| County | 5,315,528 |

| Gaston | VMT VISTAS |
|----------------------|------------|
| Rural Interstate | 202,517 |
| Rural Principal Art. | 227,278 |
| Rural Minor Art. | 317,040 |
| Rural Major Collect. | 460,235 |
| Rural Minor Collect. | 219,603 |
| Rural Local | 413,826 |
| Urban Interstate | 2,020,626 |
| Urban Frwy/Exprwy | 102,101 |
| Urban Principal Art. | 1,091,841 |
| Urban Minor Art. | 778,751 |
| Urban Collector | 75,464 |
| Urban Local | 801,096 |
| Rural | 1,840,499 |
| Urban | 4,869,878 |
| County | 6,710,377 |

| Iredell (partial) | VMT VISTAS |
|--------------------------|-------------------|
| Rural Interstate | 968,000 |
| Rural Principal Art. | 5,000 |
| Rural Minor Art. | 176,000 |
| Rural Major Collect. | 194,000 |
| Rural Minor Collect. | 143,000 |
| Rural Local | 354,000 |
| Urban Interstate | 8,000 |
| Urban Frwy/Exprwy | |
| Urban Principal Art. | 78,000 |
| Urban Minor Art. | 130,000 |
| Urban Collector | 43,000 |
| Urban Local | 153,000 |
| Rural | 1,840,000 |
| Urban | 412,000 |
| County | 2,252,000 |

| Lincoln | VMT VISTAS |
|----------------------|-------------------|
| Rural Interstate | |
| Rural Principal Art. | 252,752 |
| Rural Minor Art. | 556,376 |
| Rural Major Collect. | 175,958 |
| Rural Minor Collect. | 214,940 |
| Rural Local | 487,396 |
| Urban Interstate | |
| Urban Frwy/Exprwy | |
| Urban Principal Art. | 127,620 |
| Urban Minor Art. | 50,780 |
| Urban Collector | 24,699 |
| Urban Local | 254,959 |
| Rural | 1,687,422 |
| Urban | 458,058 |
| County | 2,145,479 |

| Mecklenburg | VMT VISTAS |
|----------------------|-------------------|
| Rural Interstate | 1,565,341 |
| Rural Principal Art. | 862,659 |
| Rural Minor Art. | 889,625 |
| Rural Major Collect. | 102,926 |
| Rural Minor Collect. | 676,325 |
| Rural Local | 1,407,138 |
| Urban Interstate | 4,961,521 |
| Urban Frwy/Exprwy | 2,601,924 |
| Urban Principal Art. | 4,120,914 |
| Urban Minor Art. | 3,836,035 |
| Urban Collector | 1,675,106 |
| Urban Local | 2,961,152 |
| Rural | 5,504,014 |
| Urban | 20,156,651 |
| County | 25,660,666 |

| Rowan | VMT VISTAS |
|----------------------|-------------------|
| Rural Interstate | 1,023,991 |
| Rural Principal Art. | 301,122 |
| Rural Minor Art. | 138,870 |
| Rural Major Collect. | 557,888 |
| Rural Minor Collect. | 230,904 |
| Rural Local | 647,760 |
| Urban Interstate | 341,162 |
| Urban Frwy/Exprwy | |
| Urban Principal Art. | 290,314 |
| Urban Minor Art. | 443,688 |
| Urban Collector | 196,149 |
| Urban Local | 698,343 |
| Rural | 2,900,535 |
| Urban | 1,969,657 |
| County | 4,870,192 |

| Union | VMT VISTAS |
|----------------------|------------|
| Rural Freeway | |
| Rural Principal Art. | 879,771 |
| Rural Major | 225,913 |
| Rural Minor | 723,540 |
| Rural Street | 247,019 |
| Rural Local | 1,267,433 |
| Urban Freeway | |
| Urban Expressway | |
| Urban Major | 85,523 |
| Urban Minor | 221,132 |
| Urban Street | 44,271 |
| Urban Local | 279,986 |
| Rural | 3,343,675 |
| Urban | 630,912 |
| County | 3,974,587 |

2008

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|-----------|-------------|-------------|-------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Cabarrus | VTAssn | VT | VT | VT | VT |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 156,421 | 37,609 | 47,409 | 42,521 | 28,882 |
| Rural Minor Art. | 194,797 | 51,435 | 53,740 | 56,880 | 32,742 |
| Rural Major Collect. | 330,060 | 81,256 | 101,205 | 90,196 | 57,403 |
| Rural Minor Collect. | 220,147 | 54,428 | 64,660 | 67,893 | 33,166 |
| Rural Local | 391,554 | 90,671 | 127,499 | 107,488 | 65,896 |
| Urban Interstate | 1,161,235 | 281,875 | 367,682 | 301,692 | 209,986 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 776,502 | 173,061 | 255,145 | 201,322 | 146,974 |
| Urban Minor Art. | 776,483 | 170,761 | 263,819 | 195,740 | 146,163 |
| Urban Collector | 587,362 | 133,418 | 200,655 | 159,630 | 93,658 |
| Urban Local | 871,419 | 192,220 | 305,405 | 224,549 | 149,244 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 1,292,979 | 315,400 | 394,512 | 364,978 | 218,089 |
| Urban | 4,173,001 | 951,336 | 1,392,707 | 1,082,933 | 746,024 |
| County | 5,465,980 | 1,266,736 | 1,787,220 | 1,447,911 | 964,113 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|-----------|-------------|-------------|-------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Cleveland (pt) | VMTassn | VMT | VMT | VMT | VMT |
| Rural Interstate | 417,944 | 105,536 | 127,873 | 111,613 | 72,923 |
| Rural Principal Art. | 378,091 | 94,100 | 112,699 | 101,456 | 69,836 |
| Rural Minor Art. | 457,047 | 105,126 | 147,140 | 116,082 | 88,698 |
| Rural Major Collect. | 318,196 | 80,055 | 96,619 | 89,973 | 51,549 |
| Rural Minor Collect. | 149,308 | 37,240 | 45,079 | 43,590 | 23,399 |
| Rural Local | 327,313 | 75,573 | 107,708 | 86,024 | 58,008 |
| Urban Interstate | 30,443 | 8,337 | 8,780 | 8,404 | 4,921 |
| Urban Frwy/Exprwy | 245,932 | 59,890 | 75,661 | 66,012 | 44,368 |
| Urban Principal Art. | 227,971 | 50,474 | 77,511 | 56,888 | 43,097 |
| Urban Minor Art. | 116,145 | 26,172 | 39,948 | 30,961 | 19,064 |
| Urban Collector | 33,517 | 7,521 | 11,263 | 9,143 | 5,590 |
| Urban Local | 230,411 | 49,436 | 82,228 | 58,313 | 40,433 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 2,047,898 | 497,629 | 637,118 | 548,738 | 364,413 |
| Urban | 884,419 | 201,832 | 295,391 | 229,722 | 157,473 |
| County | 2,932,317 | 699,461 | 932,509 | 778,460 | 521,886 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|-----------|-------------|-------------|-------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Gaston | VMTassn | VMT | VMT | VMT | VMT |
| Rural Interstate | 98,760 | 25,175 | 29,496 | 26,199 | 17,890 |
| Rural Principal Art. | 204,109 | 55,184 | 57,004 | 57,520 | 34,402 |
| Rural Minor Art. | 293,315 | 72,400 | 88,758 | 81,059 | 51,099 |
| Rural Major Collect. | 325,785 | 78,618 | 98,119 | 90,072 | 58,975 |
| Rural Minor Collect. | 155,187 | 39,266 | 45,168 | 46,383 | 24,370 |
| Rural Local | 294,195 | 67,773 | 93,291 | 82,277 | 50,855 |
| Urban Interstate | 1,857,962 | 463,881 | 557,496 | 495,509 | 341,076 |
| Urban Frwy/Exprwy | 90,145 | 22,768 | 27,047 | 23,361 | 16,969 |
| Urban Principal Art. | 1,064,457 | 244,288 | 341,301 | 285,135 | 193,733 |
| Urban Minor Art. | 929,041 | 213,175 | 299,040 | 248,270 | 168,556 |
| Urban Collector | 230,423 | 54,076 | 73,833 | 64,277 | 38,237 |
| Urban Local | 909,426 | 196,077 | 316,856 | 231,630 | 164,863 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 1,371,352 | 338,416 | 411,835 | 383,510 | 237,591 |
| Urban | 5,081,454 | 1,194,265 | 1,615,573 | 1,348,183 | 923,434 |
| County | 6,452,806 | 1,532,681 | 2,027,408 | 1,731,692 | 1,161,025 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|----------------|----------------|---------------|----------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Iredell (pt) | VMTassn | VMT | VMT | VMT | VMT |
| Rural Interstate | 1,108,869 | 263,627 | 362,257 | 284,522 | 198,463 |
| Rural Principal Art. | 0 | 0 | 0 | 0 | 0 |
| Rural Minor Art. | 132,329 | 29,362 | 44,307 | 32,401 | 26,259 |
| Rural Major Collect. | 236,987 | 54,307 | 77,175 | 59,645 | 45,859 |
| Rural Minor Collect. | 195,535 | 46,500 | 63,515 | 52,865 | 32,655 |
| Rural Local | 497,441 | 111,760 | 166,750 | 131,284 | 87,648 |
| Urban Interstate | 0 | 0 | 0 | 0 | 0 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 103,058 | 21,967 | 36,422 | 25,969 | 18,701 |
| Urban Minor Art. | 152,414 | 33,408 | 52,337 | 37,506 | 29,163 |
| Urban Collector | 69,371 | 15,367 | 24,316 | 18,570 | 11,118 |
| Urban Local | 394,585 | 84,079 | 141,938 | 99,236 | 69,332 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 2,171,161 | 505,555 | 714,004 | 560,717 | 390,885 |
| Urban | 719,428 | 154,821 | 255,012 | 181,281 | 128,314 |
| County | 2,890,589 | 660,376 | 969,017 | 741,998 | 519,199 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|----------------|----------------|---------------|----------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Lincoln | VMTassn | VMT | VMT | VMT | VMT |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 346,887 | 87,951 | 105,949 | 93,439 | 59,547 |
| Rural Minor Art. | 464,608 | 105,392 | 148,908 | 115,704 | 94,603 |
| Rural Major Collect. | 233,979 | 57,021 | 71,956 | 63,969 | 41,033 |
| Rural Minor Collect. | 258,105 | 65,791 | 76,043 | 75,840 | 40,432 |
| Rural Local | 585,812 | 136,546 | 190,420 | 160,553 | 98,292 |
| Urban Interstate | 0 | 0 | 0 | 0 | 0 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 89,557 | 20,771 | 29,103 | 22,544 | 17,141 |
| Urban Minor Art. | 49,240 | 11,431 | 16,697 | 12,391 | 8,720 |
| Urban Collector | 21,761 | 5,014 | 7,144 | 5,785 | 3,819 |
| Urban Local | 161,782 | 34,940 | 56,240 | 40,639 | 29,962 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 1,889,390 | 452,701 | 593,276 | 509,506 | 333,908 |
| Urban | 322,340 | 72,156 | 109,184 | 81,359 | 59,641 |
| County | 2,211,730 | 524,857 | 702,460 | 590,865 | 393,549 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|------------|-------------|-------------|-------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Mecklenburg | VMTassn | VMT | VMT | VMT | VMT |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 152,676 | 37,622 | 45,489 | 42,352 | 27,213 |
| Rural Minor Art. | 127,219 | 28,646 | 39,538 | 33,177 | 25,858 |
| Rural Major Collect. | 18,988 | 4,730 | 6,218 | 5,009 | 3,032 |
| Rural Minor Collect. | 146,125 | 35,559 | 43,935 | 43,553 | 23,079 |
| Rural Local | 268,636 | 64,616 | 84,941 | 79,074 | 40,004 |
| Urban Interstate | 6,483,193 | 1,535,936 | 2,049,360 | 1,699,044 | 1,198,852 |
| Urban Frwy/Exprwy | 4,791,520 | 1,204,786 | 1,439,121 | 1,388,612 | 759,000 |
| Urban Principal Art. | 4,319,672 | 956,225 | 1,445,401 | 1,103,125 | 814,922 |
| Urban Minor Art. | 4,616,300 | 1,026,142 | 1,552,998 | 1,198,069 | 839,091 |
| Urban Collector | 3,670,082 | 831,700 | 1,226,588 | 962,557 | 649,238 |
| Urban Local | 6,408,298 | 1,407,871 | 2,245,266 | 1,671,110 | 1,084,051 |
| Urban HOV | 24,094 | 16,816 | 291 | 6,988 | 0 |
| Rural | 713,645 | 171,174 | 220,120 | 203,165 | 119,186 |
| Urban | 30,289,064 | 6,962,660 | 9,958,735 | 8,022,517 | 5,345,152 |
| County | 31,002,709 | 7,133,834 | 10,178,855 | 8,225,682 | 5,464,338 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|-----------|-------------|-------------|-------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Rowan | VMTassn | VMT | VMT | VMT | VMT |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 152,186 | 38,145 | 47,011 | 41,074 | 25,956 |
| Rural Minor Art. | 91,997 | 22,248 | 28,567 | 24,919 | 16,262 |
| Rural Major Collect. | 506,232 | 126,344 | 148,672 | 136,391 | 94,825 |
| Rural Minor Collect. | 305,045 | 78,431 | 89,567 | 89,514 | 47,533 |
| Rural Local | 451,330 | 104,384 | 146,302 | 119,204 | 81,441 |
| Urban Interstate | 1,293,513 | 327,883 | 391,468 | 351,995 | 222,166 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 393,686 | 90,704 | 129,608 | 103,089 | 70,285 |
| Urban Minor Art. | 729,287 | 161,629 | 240,991 | 183,660 | 143,006 |
| Urban Collector | 398,300 | 94,020 | 129,100 | 110,899 | 64,281 |
| Urban Local | 723,683 | 157,801 | 252,151 | 186,040 | 127,691 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 1,506,789 | 369,552 | 460,120 | 411,101 | 266,017 |
| Urban | 3,538,468 | 832,037 | 1,143,319 | 935,682 | 627,429 |
| County | 5,045,257 | 1,201,589 | 1,603,439 | 1,346,783 | 893,446 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|-----------|-------------|-------------|-------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Stanly | VMTassn | VMT | VMT | VMT | VMT |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 234,187 | 55,772 | 74,087 | 61,702 | 42,626 |
| Rural Minor Art. | 215,905 | 54,525 | 64,898 | 59,733 | 36,748 |
| Rural Major Collect. | 341,459 | 85,431 | 100,608 | 97,261 | 58,159 |
| Rural Minor Collect. | 129,132 | 32,236 | 39,680 | 37,019 | 20,198 |
| Rural Local | 365,866 | 83,892 | 120,327 | 98,693 | 62,954 |
| Urban Interstate | 0 | 0 | 0 | 0 | 0 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 153,244 | 34,291 | 51,848 | 39,009 | 28,096 |
| Urban Minor Art. | 83,935 | 18,700 | 28,333 | 21,641 | 15,261 |
| Urban Collector | 49,500 | 10,748 | 17,122 | 12,754 | 8,877 |
| Urban Local | 144,746 | 30,580 | 52,166 | 36,344 | 25,656 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 1,286,549 | 311,856 | 399,601 | 354,408 | 220,685 |
| Urban | 431,426 | 94,319 | 149,469 | 109,747 | 77,891 |
| County | 1,717,975 | 406,175 | 549,070 | 464,155 | 298,575 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|------------------|-----------|-------------|-------------|-------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Union | VMTassn | VMT | VMT | VMT | VMT |
| Rural Freeway | 0 | 0 | 0 | 0 | 0 |
| Rural Expressway | 269,634 | 63,476 | 88,171 | 68,231 | 49,756 |
| Rural Major | 100,802 | 25,844 | 30,155 | 29,118 | 15,685 |
| Rural Minor | 817,618 | 192,918 | 262,778 | 216,411 | 145,511 |
| Rural Street | 280,198 | 67,806 | 87,163 | 78,721 | 46,506 |
| Rural Local | 935,643 | 224,310 | 297,425 | 262,547 | 151,361 |
| Urban Freeway | 0 | 0 | 0 | 0 | 0 |
| Urban Expressway | 85,609 | 21,511 | 27,792 | 20,977 | 15,328 |
| Urban Major | 625,589 | 144,242 | 206,896 | 158,455 | 115,996 |
| Urban Minor | 624,140 | 137,989 | 205,384 | 159,887 | 120,880 |
| Urban Street | 252,856 | 58,821 | 83,456 | 68,733 | 41,847 |
| Urban Local | 925,311 | 204,204 | 314,634 | 240,405 | 166,069 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 2,403,895 | 574,355 | 765,693 | 655,028 | 408,819 |
| Urban | 2,513,504 | 566,766 | 838,161 | 648,456 | 460,120 |
| County | 4,917,399 | 1,141,121 | 1,603,854 | 1,303,484 | 868,939 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|---------|-------------|-------------|-------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| Lancaster | VMTassn | VMT | VMT | VMT | VMT |
| Rural Interstate | 0 | 0 | 0 | 0 | 0 |
| Rural Principal Art. | 54,319 | 14,021 | 16,928 | 15,331 | 8,040 |
| Rural Minor Art. | 301,836 | 69,642 | 94,867 | 75,694 | 61,633 |
| Rural Major Collect. | 49,597 | 12,250 | 14,959 | 14,234 | 8,154 |
| Rural Minor Collect. | 8,408 | 1,994 | 2,648 | 2,254 | 1,513 |
| Rural Local | 136,866 | 32,667 | 43,624 | 38,155 | 22,420 |
| Urban Interstate | 0 | 0 | 0 | 0 | 0 |
| Urban Frwy/Exprwy | 0 | 0 | 0 | 0 | 0 |
| Urban Principal Art. | 22,548 | 5,694 | 6,847 | 6,511 | 3,496 |
| Urban Minor Art. | 0 | 0 | 0 | 0 | 0 |
| Urban Collector | 5,189 | 1,378 | 1,515 | 1,631 | 665 |
| Urban Local | 4,091 | 870 | 1,451 | 1,006 | 765 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 551,027 | 130,575 | 173,026 | 145,667 | 101,759 |
| Urban | 31,828 | 7,942 | 9,813 | 9,148 | 4,925 |
| County | 582,854 | 138,516 | 182,838 | 154,816 | 106,684 |

| | | 0601 - 0900 | 0901 - 1500 | 1501 - 1800 | 0000 - 0600
1801 - 2400 |
|----------------------|-----------|-------------|-------------|-------------|----------------------------|
| | DAILY | AM Peak | Midday | PM Peak | Night |
| York | VMTassn | VMT | VMT | VMT | VMT |
| Rural Interstate | 933,719 | 238,222 | 275,887 | 265,882 | 153,728 |
| Rural Principal Art. | 115,527 | 30,708 | 35,033 | 33,764 | 16,022 |
| Rural Minor Art. | 645,475 | 154,565 | 198,791 | 171,685 | 120,434 |
| Rural Major Collect. | 392,457 | 94,138 | 120,212 | 109,942 | 68,165 |
| Rural Minor Collect. | 39,343 | 9,614 | 12,260 | 10,921 | 6,547 |
| Rural Local | 700,748 | 161,047 | 227,786 | 187,385 | 124,530 |
| Urban Interstate | 877,563 | 222,034 | 262,730 | 247,692 | 145,107 |
| Urban Frwy/Exprwy | 84,968 | 19,332 | 29,730 | 22,605 | 13,301 |
| Urban Principal Art. | 924,335 | 208,405 | 305,159 | 235,226 | 175,544 |
| Urban Minor Art. | 878,737 | 196,177 | 291,873 | 223,994 | 166,692 |
| Urban Collector | 289,459 | 66,601 | 99,174 | 78,507 | 45,177 |
| Urban Local | 846,074 | 178,230 | 303,164 | 212,333 | 152,348 |
| Urban HOV | 0 | 0 | 0 | 0 | 0 |
| Rural | 2,827,269 | 688,294 | 869,970 | 779,579 | 489,426 |
| Urban | 3,901,136 | 890,780 | 1,291,829 | 1,020,358 | 698,169 |
| County | 6,728,405 | 1,579,074 | 2,161,799 | 1,799,936 | 1,187,596 |

5.5 2008 Metrolina Vehicle Mix

| LDV | LDT1 | LDT2 | LDT3 | LDT4 | HDV2B | HDV3 | HDV4 |
|---------------------------------|-------------|-------------|--------------|--------------|--------------|-------------|-------------|
| HDV5 | HDV6 | HDV7 | HDV8a | HDV8b | HDBS | HDBT | MC |
| Rural Interstate | | | | | | | |
| 0.3151 | 0.0700 | 0.2331 | 0.0718 | 0.0330 | 0.0876 | 0.0086 | 0.0070 |
| 0.0054 | 0.0196 | 0.0230 | 0.0251 | 0.0896 | 0.0045 | 0.0020 | 0.0046 |
| Rural Principal Arterial | | | | | | | |
| 0.3712 | 0.0825 | 0.2745 | 0.0846 | 0.0388 | 0.0437 | 0.0043 | 0.0035 |
| 0.0027 | 0.0098 | 0.0127 | 0.0138 | 0.0493 | 0.0022 | 0.0010 | 0.0054 |
| Rural Minor Arterial | | | | | | | |
| 0.3855 | 0.0856 | 0.2848 | 0.0878 | 0.0403 | 0.0457 | 0.0045 | 0.0037 |
| 0.0029 | 0.0103 | 0.0067 | 0.0072 | 0.0260 | 0.0024 | 0.0010 | 0.0056 |
| Rural Major Collector | | | | | | | |
| 0.3990 | 0.0885 | 0.2948 | 0.0908 | 0.0417 | 0.0364 | 0.0036 | 0.0028 |
| 0.0022 | 0.0082 | 0.0039 | 0.0043 | 0.0152 | 0.0019 | 0.0009 | 0.0058 |
| Rural Minor Collector | | | | | | | |
| 0.3952 | 0.0875 | 0.2913 | 0.0898 | 0.0412 | 0.0401 | 0.0039 | 0.0033 |
| 0.0025 | 0.0090 | 0.0046 | 0.0050 | 0.0180 | 0.0020 | 0.0009 | 0.0057 |
| Rural Local | | | | | | | |
| 0.3767 | 0.0845 | 0.2814 | 0.0867 | 0.0399 | 0.0564 | 0.0056 | 0.0044 |
| 0.0035 | 0.0127 | 0.0064 | 0.0070 | 0.0251 | 0.0029 | 0.0013 | 0.0055 |
| Urban Interstate | | | | | | | |
| 0.3568 | 0.0793 | 0.2639 | 0.0813 | 0.0374 | 0.0566 | 0.0055 | 0.0045 |
| 0.0035 | 0.0127 | 0.0149 | 0.0162 | 0.0580 | 0.0029 | 0.0013 | 0.0052 |
| Urban Freeway | | | | | | | |
| 0.3811 | 0.0847 | 0.2821 | 0.0869 | 0.0399 | 0.0385 | 0.0038 | 0.0031 |
| 0.0024 | 0.0086 | 0.0101 | 0.0110 | 0.0394 | 0.0020 | 0.0009 | 0.0055 |
| Urban Principal Arterial | | | | | | | |
| 0.4070 | 0.0904 | 0.3013 | 0.0928 | 0.0427 | 0.0289 | 0.0029 | 0.0023 |
| 0.0018 | 0.0064 | 0.0026 | 0.0028 | 0.0102 | 0.0014 | 0.0007 | 0.0058 |
| Urban Minor Art | | | | | | | |
| 0.4062 | 0.0902 | 0.3005 | 0.0926 | 0.0426 | 0.0315 | 0.0030 | 0.0025 |
| 0.0020 | 0.0071 | 0.0023 | 0.0025 | 0.0088 | 0.0016 | 0.0007 | 0.0059 |
| Urban Collector | | | | | | | |
| 0.4070 | 0.0904 | 0.3008 | 0.0927 | 0.0426 | 0.0325 | 0.0032 | 0.0026 |
| 0.0019 | 0.0073 | 0.0018 | 0.0019 | 0.0068 | 0.0017 | 0.0009 | 0.0059 |
| Urban Local | | | | | | | |
| 0.4022 | 0.0892 | 0.2969 | 0.0915 | 0.0421 | 0.0388 | 0.0039 | 0.0031 |
| 0.0024 | 0.0088 | 0.0021 | 0.0023 | 0.0082 | 0.0019 | 0.0009 | 0.0057 |
| Urban HOV | | | | | | | |
| 0.4267 | 0.0948 | 0.3156 | 0.0972 | 0.0447 | 0.0000 | 0.0000 | 0.0000 |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0210 | 0.0000 |

5.6 Vehicle Age Distribution Used for Mecklenburg and Gaston Counties

```

*Convert MOBILE5 Registration Fractions to MOBILE6-Based Registration Fractions
*
*Calendar Year:          2008.000User-Input
*
*MOBILE5b Reg Fractions
*      0.081  0.081  0.076  0.077  0.076  0.073  0.070  0.065  0.067  0.059
*      0.049  0.043  0.034  0.034  0.025  0.020  0.015  0.011  0.009  0.007
*      0.005  0.004  0.003  0.002  0.015
*      0.042  0.058  0.063  0.055  0.063  0.059  0.060  0.064  0.065  0.061
*      0.054  0.050  0.039  0.040  0.038  0.026  0.019  0.016  0.015  0.017
*      0.015  0.013  0.012  0.008  0.049
*      0.122  0.153  0.111  0.094  0.079  0.059  0.042  0.050  0.053  0.051
*      0.035  0.035  0.018  0.024  0.012  0.011  0.005  0.005  0.005  0.006
*      0.005  0.004  0.002  0.003  0.018
*      0.101  0.109  0.136  0.094  0.077  0.074  0.044  0.053  0.062  0.052
*      0.025  0.036  0.017  0.020  0.012  0.007  0.007  0.005  0.006  0.007
*      0.006  0.006  0.005  0.004  0.034
*      0.061  0.051  0.097  0.068  0.045  0.057  0.053  0.050  0.050  0.045
*      0.031  0.026  0.034  0.034  0.019  0.024  0.023  0.013  0.012  0.010
*      0.013  0.022  0.026  0.034  0.101
*      0.040  0.046  0.100  0.078  0.078  0.076  0.065  0.070  0.061  0.085
*      0.023  0.052  0.039  0.035  0.028  0.021  0.013  0.011  0.014  0.006
*      0.007  0.007  0.008  0.006  0.031
*      0.062  0.114  0.108  0.105  0.076  0.058  0.051  0.066  0.073  0.068
*      0.035  0.042  0.024  0.030  0.015  0.011  0.007  0.010  0.011  0.008
*      0.006  0.005  0.003  0.003  0.005
*      0.088  0.123  0.107  0.094  0.069  0.077  0.059  0.053  0.047  0.040
*      0.032  0.024  0.021  0.020  0.014  0.014  0.010  0.007  0.005  0.006
*      0.005  0.006  0.009  0.008  0.060
*
* MOBILE6 Vehicle Classes:
* 1 LDV      Light-Duty Vehicles (Passenger Cars)
* 2 LDT1     Light-Duty Trucks 1 (0-6,000 lbs. GVWR, 0-3750 lbs. LVW)
* 3 LDT2     Light Duty Trucks 2 (0-6,000 lbs. GVWR, 3751-5750 lbs. LVW)
* 4 LDT3     Light Duty Trucks 3 (6,001-8500 lbs. GVWR, 0-3750 lbs. LVW)
* 5 LDT4     Light Duty Trucks 4 (6,001-8500 lbs. GVWR, 3751-5750 lbs. LVW)
* 6 HDV2B    Class 2b Heavy Duty Vehicles (8501-10,000 lbs. GVWR)
* 7 HDV3     Class 3 Heavy Duty Vehicles (10,001-14,000 lbs. GVWR)
* 8 HDV4     Class 4 Heavy Duty Vehicles (14,001-16,000 lbs. GVWR)
* 9 HDV5     Class 5 Heavy Duty Vehicles (16,001-19,500 lbs. GVWR)
* 10 HDV6    Class 6 Heavy Duty Vehicles (19,501-26,000 lbs. GVWR)
* 11 HDV7    Class 7 Heavy Duty Vehicles (26,001-33,000 lbs. GVWR)
* 12 HDV8A   Class 8a Heavy Duty Vehicles (33,001-60,000 lbs. GVWR)
* 13 HDV8B   Class 8b Heavy Duty Vehicles (>60,000 lbs. GVWR)
* 14 HDBS    School Busses
* 15 HDBT    Transit and Urban Busses
* 16 MC      Motorcycles (All)
*
REG DIST
*
*          RESULTING MOBILE6-BASED REGISTRATION FRACTIONS
*
*MOBILE6 REGISTRATION FRACTIONS BY VEHICLE CLASS AND AGE
* LDV      M5 LDGV
*      1  0.081  0.081  0.076  0.077  0.076  0.073  0.070  0.065  0.067  0.059

```

| | | | | | | | | | | | |
|---------|----|-------|----------------|----------|-------|-------|-------|-------|-------|-------|-------|
| | | 0.049 | 0.043 | 0.034 | 0.034 | 0.025 | 0.020 | 0.015 | 0.011 | 0.009 | 0.007 |
| | | 0.005 | 0.004 | 0.003 | 0.002 | 0.015 | | | | | |
| * LDT1 | | M5 | LDGT1 | | | | | | | | |
| | 2 | 0.042 | 0.058 | 0.063 | 0.055 | 0.063 | 0.059 | 0.060 | 0.064 | 0.065 | 0.061 |
| | | 0.054 | 0.050 | 0.039 | 0.040 | 0.038 | 0.026 | 0.019 | 0.016 | 0.015 | 0.017 |
| | | 0.015 | 0.013 | 0.012 | 0.008 | 0.049 | | | | | |
| * LDT2 | | M5 | LDGT1 | | | | | | | | |
| | 3 | 0.042 | 0.058 | 0.063 | 0.055 | 0.063 | 0.059 | 0.060 | 0.064 | 0.065 | 0.061 |
| | | 0.054 | 0.050 | 0.039 | 0.040 | 0.038 | 0.026 | 0.019 | 0.016 | 0.015 | 0.017 |
| | | 0.015 | 0.013 | 0.012 | 0.008 | 0.049 | | | | | |
| * LDT3 | | M5 | LDGT2 | | | | | | | | |
| | 4 | 0.122 | 0.153 | 0.111 | 0.094 | 0.079 | 0.059 | 0.042 | 0.050 | 0.053 | 0.051 |
| | | 0.035 | 0.035 | 0.018 | 0.024 | 0.012 | 0.011 | 0.005 | 0.005 | 0.005 | 0.006 |
| | | 0.005 | 0.004 | 0.002 | 0.003 | 0.018 | | | | | |
| * LDT4 | | M5 | LDGT2 | | | | | | | | |
| | 5 | 0.122 | 0.153 | 0.111 | 0.094 | 0.079 | 0.059 | 0.042 | 0.050 | 0.053 | 0.051 |
| | | 0.035 | 0.035 | 0.018 | 0.024 | 0.012 | 0.011 | 0.005 | 0.005 | 0.005 | 0.006 |
| | | 0.005 | 0.004 | 0.002 | 0.003 | 0.018 | | | | | |
| * HDV2B | | M5 | HDVs (Combined | HDGV and | HDDV) | | | | | | |
| | 6 | 0.082 | 0.112 | 0.122 | 0.099 | 0.077 | 0.066 | 0.048 | 0.060 | 0.067 | 0.060 |
| | | 0.030 | 0.039 | 0.021 | 0.025 | 0.013 | 0.009 | 0.007 | 0.008 | 0.009 | 0.008 |
| | | 0.006 | 0.006 | 0.004 | 0.004 | 0.019 | | | | | |
| * HDV3 | | M5 | HDVs (Combined | HDGV and | HDDV) | | | | | | |
| | 7 | 0.082 | 0.112 | 0.122 | 0.099 | 0.077 | 0.066 | 0.048 | 0.060 | 0.067 | 0.060 |
| | | 0.030 | 0.039 | 0.021 | 0.025 | 0.013 | 0.009 | 0.007 | 0.008 | 0.009 | 0.008 |
| | | 0.006 | 0.006 | 0.004 | 0.004 | 0.019 | | | | | |
| * HDV4 | | M5 | HDVs (Combined | HDGV and | HDDV) | | | | | | |
| | 8 | 0.082 | 0.112 | 0.122 | 0.099 | 0.077 | 0.066 | 0.048 | 0.060 | 0.067 | 0.060 |
| | | 0.030 | 0.039 | 0.021 | 0.025 | 0.013 | 0.009 | 0.007 | 0.008 | 0.009 | 0.008 |
| | | 0.006 | 0.006 | 0.004 | 0.004 | 0.019 | | | | | |
| * HDV5 | | M5 | HDVs (Combined | HDGV and | HDDV) | | | | | | |
| | 9 | 0.082 | 0.112 | 0.122 | 0.099 | 0.077 | 0.066 | 0.048 | 0.060 | 0.067 | 0.060 |
| | | 0.030 | 0.039 | 0.021 | 0.025 | 0.013 | 0.009 | 0.007 | 0.008 | 0.009 | 0.008 |
| | | 0.006 | 0.006 | 0.004 | 0.004 | 0.019 | | | | | |
| * HDV6 | | M5 | HDVs (Combined | HDGV and | HDDV) | | | | | | |
| | 10 | 0.082 | 0.112 | 0.122 | 0.099 | 0.077 | 0.066 | 0.048 | 0.060 | 0.067 | 0.060 |
| | | 0.030 | 0.039 | 0.021 | 0.025 | 0.013 | 0.009 | 0.007 | 0.008 | 0.009 | 0.008 |
| | | 0.006 | 0.006 | 0.004 | 0.004 | 0.019 | | | | | |
| * HDV7 | | M5 | HDVs (Combined | HDGV and | HDDV) | | | | | | |
| | 11 | 0.082 | 0.112 | 0.122 | 0.099 | 0.077 | 0.066 | 0.048 | 0.060 | 0.067 | 0.060 |
| | | 0.030 | 0.039 | 0.021 | 0.025 | 0.013 | 0.009 | 0.007 | 0.008 | 0.009 | 0.008 |
| | | 0.006 | 0.006 | 0.004 | 0.004 | 0.019 | | | | | |
| * HDV8a | | M5 | HDVs (Combined | HDGV and | HDDV) | | | | | | |
| | 12 | 0.082 | 0.112 | 0.122 | 0.099 | 0.077 | 0.066 | 0.048 | 0.060 | 0.067 | 0.060 |
| | | 0.030 | 0.039 | 0.021 | 0.025 | 0.013 | 0.009 | 0.007 | 0.008 | 0.009 | 0.008 |
| | | 0.006 | 0.006 | 0.004 | 0.004 | 0.019 | | | | | |
| * HDV8b | | M5 | HDVs (Combined | HDGV and | HDDV) | | | | | | |
| | 13 | 0.082 | 0.112 | 0.122 | 0.099 | 0.077 | 0.066 | 0.048 | 0.060 | 0.067 | 0.060 |
| | | 0.030 | 0.039 | 0.021 | 0.025 | 0.013 | 0.009 | 0.007 | 0.008 | 0.009 | 0.008 |
| | | 0.006 | 0.006 | 0.004 | 0.004 | 0.019 | | | | | |
| * HDBS | | M5 | HDVs (Combined | HDGV and | HDDV) | | | | | | |
| | 14 | 0.082 | 0.112 | 0.122 | 0.099 | 0.077 | 0.066 | 0.048 | 0.060 | 0.067 | 0.060 |
| | | 0.030 | 0.039 | 0.021 | 0.025 | 0.013 | 0.009 | 0.007 | 0.008 | 0.009 | 0.008 |
| | | 0.006 | 0.006 | 0.004 | 0.004 | 0.019 | | | | | |
| * HDBT | | M5 | HDDVs | | | | | | | | |
| | 15 | 0.062 | 0.114 | 0.108 | 0.105 | 0.076 | 0.058 | 0.051 | 0.066 | 0.073 | 0.068 |
| | | 0.035 | 0.042 | 0.024 | 0.030 | 0.015 | 0.011 | 0.007 | 0.010 | 0.011 | 0.008 |

| | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 0.006 | 0.005 | 0.003 | 0.003 | 0.005 | | | | | |
| * Motorcycles | M5 | MC | | | | | | | | |
| 16 | 0.088 | 0.123 | 0.107 | 0.094 | 0.069 | 0.077 | 0.059 | 0.053 | 0.047 | 0.040 |
| | 0.032 | 0.024 | 0.021 | 0.020 | 0.014 | 0.014 | 0.010 | 0.007 | 0.005 | 0.006 |
| | 0.005 | 0.006 | 0.009 | 0.008 | 0.060 | | | | | |

5.7 Vehicle Age Distribution Used for Cabarrus, Iredell, Lincoln, & Union Counties

*Convert MOBILE5 Registration Fractions to MOBILE6-Based Registration Fractions

*

*Calendar Year: 2008.000User-Input

*

*MOBILE5b Reg Fractions

| | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| * | 0.046 | 0.062 | 0.061 | 0.067 | 0.065 | 0.063 | 0.063 | 0.061 | 0.067 | 0.062 |
| * | 0.054 | 0.050 | 0.042 | 0.045 | 0.035 | 0.029 | 0.023 | 0.018 | 0.015 | 0.013 |
| * | 0.010 | 0.008 | 0.006 | 0.005 | 0.031 | | | | | |
| * | 0.025 | 0.037 | 0.040 | 0.042 | 0.052 | 0.048 | 0.048 | 0.052 | 0.057 | 0.054 |
| * | 0.052 | 0.052 | 0.041 | 0.046 | 0.048 | 0.034 | 0.027 | 0.024 | 0.023 | 0.028 |
| * | 0.026 | 0.022 | 0.021 | 0.015 | 0.083 | | | | | |
| * | 0.051 | 0.075 | 0.074 | 0.067 | 0.071 | 0.056 | 0.045 | 0.050 | 0.056 | 0.051 |
| * | 0.040 | 0.044 | 0.032 | 0.041 | 0.030 | 0.022 | 0.016 | 0.014 | 0.017 | 0.021 |
| * | 0.018 | 0.012 | 0.014 | 0.010 | 0.072 | | | | | |
| * | 0.042 | 0.049 | 0.057 | 0.050 | 0.052 | 0.047 | 0.039 | 0.048 | 0.052 | 0.046 |
| * | 0.032 | 0.038 | 0.031 | 0.039 | 0.028 | 0.020 | 0.018 | 0.016 | 0.019 | 0.024 |
| * | 0.023 | 0.018 | 0.020 | 0.016 | 0.177 | | | | | |
| * | 0.031 | 0.038 | 0.101 | 0.079 | 0.058 | 0.060 | 0.063 | 0.056 | 0.058 | 0.043 |
| * | 0.030 | 0.024 | 0.028 | 0.025 | 0.016 | 0.016 | 0.013 | 0.019 | 0.014 | 0.012 |
| * | 0.010 | 0.023 | 0.033 | 0.037 | 0.111 | | | | | |
| * | 0.032 | 0.046 | 0.083 | 0.069 | 0.080 | 0.078 | 0.066 | 0.075 | 0.060 | 0.078 |
| * | 0.020 | 0.058 | 0.040 | 0.031 | 0.025 | 0.020 | 0.014 | 0.012 | 0.014 | 0.013 |
| * | 0.009 | 0.009 | 0.013 | 0.011 | 0.044 | | | | | |
| * | 0.046 | 0.080 | 0.087 | 0.077 | 0.064 | 0.056 | 0.046 | 0.063 | 0.071 | 0.072 |
| * | 0.039 | 0.049 | 0.034 | 0.036 | 0.026 | 0.019 | 0.013 | 0.015 | 0.020 | 0.018 |
| * | 0.018 | 0.014 | 0.009 | 0.008 | 0.019 | | | | | |
| * | 0.077 | 0.107 | 0.097 | 0.085 | 0.067 | 0.077 | 0.064 | 0.055 | 0.048 | 0.041 |
| * | 0.031 | 0.027 | 0.026 | 0.020 | 0.017 | 0.014 | 0.009 | 0.007 | 0.007 | 0.007 |
| * | 0.007 | 0.008 | 0.013 | 0.011 | 0.078 | | | | | |

*

*

* MOBILE6 Vehicle Classes:

| | | | |
|---|----|-------|--|
| * | 1 | LDV | Light-Duty Vehicles (Passenger Cars) |
| * | 2 | LDT1 | Light-Duty Trucks 1 (0-6,000 lbs. GVWR, 0-3750 lbs. LVW) |
| * | 3 | LDT2 | Light Duty Trucks 2 (0-6,000 lbs. GVWR, 3751-5750 lbs. LVW) |
| * | 4 | LDT3 | Light Duty Trucks 3 (6,001-8500 lbs. GVWR, 0-3750 lbs. LVW) |
| * | 5 | LDT4 | Light Duty Trucks 4 (6,001-8500 lbs. GVWR, 3751-5750 lbs. LVW) |
| * | 6 | HDV2B | Class 2b Heavy Duty Vehicles (8501-10,000 lbs. GVWR) |
| * | 7 | HDV3 | Class 3 Heavy Duty Vehicles (10,001-14,000 lbs. GVWR) |
| * | 8 | HDV4 | Class 4 Heavy Duty Vehicles (14,001-16,000 lbs. GVWR) |
| * | 9 | HDV5 | Class 5 Heavy Duty Vehicles (16,001-19,500 lbs. GVWR) |
| * | 10 | HDV6 | Class 6 Heavy Duty Vehicles (19,501-26,000 lbs. GVWR) |
| * | 11 | HDV7 | Class 7 Heavy Duty Vehicles (26,001-33,000 lbs. GVWR) |
| * | 12 | HDV8A | Class 8a Heavy Duty Vehicles (33,001-60,000 lbs. GVWR) |
| * | 13 | HDV8B | Class 8b Heavy Duty Vehicles (>60,000 lbs. GVWR) |
| * | 14 | HDBS | School Busses |
| * | 15 | HDBT | Transit and Urban Busses |
| * | 16 | MC | Motorcycles (All) |

*

REG DIST

*

RESULTING MOBILE6-BASED REGISTRATION FRACTIONS

*

*MOBILE6 REGISTRATION FRACTIONS BY VEHICLE CLASS AND AGE

| | | | | | | | | | | | |
|---------|----|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| * LDV | | M5 LDGV | | | | | | | | | |
| | 1 | 0.046 | 0.062 | 0.061 | 0.067 | 0.065 | 0.063 | 0.063 | 0.061 | 0.067 | 0.062 |
| | | 0.054 | 0.050 | 0.042 | 0.045 | 0.035 | 0.029 | 0.023 | 0.018 | 0.015 | 0.013 |
| | | 0.010 | 0.008 | 0.006 | 0.005 | 0.031 | | | | | |
| * LDT1 | | M5 LDGT1 | | | | | | | | | |
| | 2 | 0.025 | 0.037 | 0.040 | 0.042 | 0.052 | 0.048 | 0.048 | 0.052 | 0.057 | 0.054 |
| | | 0.052 | 0.052 | 0.041 | 0.046 | 0.048 | 0.034 | 0.027 | 0.024 | 0.023 | 0.028 |
| | | 0.026 | 0.022 | 0.021 | 0.015 | 0.083 | | | | | |
| * LDT2 | | M5 LDGT1 | | | | | | | | | |
| | 3 | 0.025 | 0.037 | 0.040 | 0.042 | 0.052 | 0.048 | 0.048 | 0.052 | 0.057 | 0.054 |
| | | 0.052 | 0.052 | 0.041 | 0.046 | 0.048 | 0.034 | 0.027 | 0.024 | 0.023 | 0.028 |
| | | 0.026 | 0.022 | 0.021 | 0.015 | 0.083 | | | | | |
| * LDT3 | | M5 LDGT2 | | | | | | | | | |
| | 4 | 0.051 | 0.075 | 0.074 | 0.067 | 0.071 | 0.056 | 0.045 | 0.050 | 0.056 | 0.051 |
| | | 0.040 | 0.044 | 0.032 | 0.041 | 0.030 | 0.022 | 0.016 | 0.014 | 0.017 | 0.021 |
| | | 0.018 | 0.012 | 0.014 | 0.010 | 0.072 | | | | | |
| * LDT4 | | M5 LDGT2 | | | | | | | | | |
| | 5 | 0.051 | 0.075 | 0.074 | 0.067 | 0.071 | 0.056 | 0.045 | 0.050 | 0.056 | 0.051 |
| | | 0.040 | 0.044 | 0.032 | 0.041 | 0.030 | 0.022 | 0.016 | 0.014 | 0.017 | 0.021 |
| | | 0.018 | 0.012 | 0.014 | 0.010 | 0.072 | | | | | |
| * HDV2B | | M5 HDVs (Combined HDGV and HDDV) | | | | | | | | | |
| | 6 | 0.044 | 0.065 | 0.072 | 0.064 | 0.058 | 0.052 | 0.043 | 0.056 | 0.062 | 0.059 |
| | | 0.036 | 0.044 | 0.033 | 0.037 | 0.027 | 0.020 | 0.015 | 0.015 | 0.019 | 0.021 |
| | | 0.020 | 0.016 | 0.015 | 0.012 | 0.097 | | | | | |
| * HDV3 | | M5 HDVs (Combined HDGV and HDDV) | | | | | | | | | |
| | 7 | 0.044 | 0.065 | 0.072 | 0.064 | 0.058 | 0.052 | 0.043 | 0.056 | 0.062 | 0.059 |
| | | 0.036 | 0.044 | 0.033 | 0.037 | 0.027 | 0.020 | 0.015 | 0.015 | 0.019 | 0.021 |
| | | 0.020 | 0.016 | 0.015 | 0.012 | 0.097 | | | | | |
| * HDV4 | | M5 HDVs (Combined HDGV and HDDV) | | | | | | | | | |
| | 8 | 0.044 | 0.065 | 0.072 | 0.064 | 0.058 | 0.052 | 0.043 | 0.056 | 0.062 | 0.059 |
| | | 0.036 | 0.044 | 0.033 | 0.037 | 0.027 | 0.020 | 0.015 | 0.015 | 0.019 | 0.021 |
| | | 0.020 | 0.016 | 0.015 | 0.012 | 0.097 | | | | | |
| * HDV5 | | M5 HDVs (Combined HDGV and HDDV) | | | | | | | | | |
| | 9 | 0.044 | 0.065 | 0.072 | 0.064 | 0.058 | 0.052 | 0.043 | 0.056 | 0.062 | 0.059 |
| | | 0.036 | 0.044 | 0.033 | 0.037 | 0.027 | 0.020 | 0.015 | 0.015 | 0.019 | 0.021 |
| | | 0.020 | 0.016 | 0.015 | 0.012 | 0.097 | | | | | |
| * HDV6 | | M5 HDVs (Combined HDGV and HDDV) | | | | | | | | | |
| | 10 | 0.044 | 0.065 | 0.072 | 0.064 | 0.058 | 0.052 | 0.043 | 0.056 | 0.062 | 0.059 |
| | | 0.036 | 0.044 | 0.033 | 0.037 | 0.027 | 0.020 | 0.015 | 0.015 | 0.019 | 0.021 |
| | | 0.020 | 0.016 | 0.015 | 0.012 | 0.097 | | | | | |
| * HDV7 | | M5 HDVs (Combined HDGV and HDDV) | | | | | | | | | |
| | 11 | 0.044 | 0.065 | 0.072 | 0.064 | 0.058 | 0.052 | 0.043 | 0.056 | 0.062 | 0.059 |
| | | 0.036 | 0.044 | 0.033 | 0.037 | 0.027 | 0.020 | 0.015 | 0.015 | 0.019 | 0.021 |
| | | 0.020 | 0.016 | 0.015 | 0.012 | 0.097 | | | | | |
| * HDV8a | | M5 HDVs (Combined HDGV and HDDV) | | | | | | | | | |
| | 12 | 0.044 | 0.065 | 0.072 | 0.064 | 0.058 | 0.052 | 0.043 | 0.056 | 0.062 | 0.059 |
| | | 0.036 | 0.044 | 0.033 | 0.037 | 0.027 | 0.020 | 0.015 | 0.015 | 0.019 | 0.021 |
| | | 0.020 | 0.016 | 0.015 | 0.012 | 0.097 | | | | | |
| * HDV8b | | M5 HDVs (Combined HDGV and HDDV) | | | | | | | | | |
| | 13 | 0.044 | 0.065 | 0.072 | 0.064 | 0.058 | 0.052 | 0.043 | 0.056 | 0.062 | 0.059 |
| | | 0.036 | 0.044 | 0.033 | 0.037 | 0.027 | 0.020 | 0.015 | 0.015 | 0.019 | 0.021 |
| | | 0.020 | 0.016 | 0.015 | 0.012 | 0.097 | | | | | |
| * HDBS | | M5 HDVs (Combined HDGV and HDDV) | | | | | | | | | |

| | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 14 | 0.044 | 0.065 | 0.072 | 0.064 | 0.058 | 0.052 | 0.043 | 0.056 | 0.062 | 0.059 |
| | 0.036 | 0.044 | 0.033 | 0.037 | 0.027 | 0.020 | 0.015 | 0.015 | 0.019 | 0.021 |
| | 0.020 | 0.016 | 0.015 | 0.012 | 0.097 | | | | | |
| * HDBT | M5 | HDDVs | | | | | | | | |
| 15 | 0.046 | 0.080 | 0.087 | 0.077 | 0.064 | 0.056 | 0.046 | 0.063 | 0.071 | 0.072 |
| | 0.039 | 0.049 | 0.034 | 0.036 | 0.026 | 0.019 | 0.013 | 0.015 | 0.020 | 0.018 |
| | 0.018 | 0.014 | 0.009 | 0.008 | 0.019 | | | | | |
| * Motorcycles | M5 | MC | | | | | | | | |
| 16 | 0.077 | 0.107 | 0.097 | 0.085 | 0.067 | 0.077 | 0.064 | 0.055 | 0.048 | 0.041 |
| | 0.031 | 0.027 | 0.026 | 0.020 | 0.017 | 0.014 | 0.009 | 0.007 | 0.007 | 0.007 |
| | 0.007 | 0.008 | 0.013 | 0.011 | 0.078 | | | | | |