Transportation Conformity Analysis

for the

2030 Long Range Transportation Plan UPDATE

Prepared by:

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The Nashville Area Metropolitan Planning Organization

Adopted: October 19, 2005

U.S. Department
of Transportation

Federal Highway Administration
Tennessee Division Office
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Federal Transit Administration
Region 4
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Atlanta, GA 30303

November 7, 2005

Mr. Gerald Nicely, Commissoner
Tennessee Department of Transportation
Suite 700, James K. Polk Building
Nashville, Tennessee 37243-0349

Honorable Rogers Anderson
Mayor of Williamson County
1320 West Main Street, Suite 125
Franklin, TN 37064

Subject: 1-hr Conformity Determination for Nashville 2030 Long Range Transportation Plan

Dear Messers. Nicely, and Anderson:

The Tennessee Division of the Federal Highway Administration (FHWA) and Region 4 of the Federal Transit Administration (FTA) in coordination with Region 4 of the Environmental Protection Agency (EPA) have reviewed the Nashville Area Metropolitan Planning Organization's (MPO) 2030 Long Range Transportation Plan and Conformity Determination, adopted on October 19, 2005. The Tennessee Department of Environment and Conservation, the Tennessee Department of Transportation, and the Metro Transit System, also had an opportunity to review and comment on the above-mentioned documents.

The Conformity Determination must be based on a Long Range Transportation Plan that meets the Federal Planning Regulations listed under 23 CFR 450.322. FHWA and FTA have reviewed the Nashville Area MPO's 2030 LRTP for consistency with the Federal requirements, and have determined consistency.

FHWA and FTA found that the Conformity Document for the Nashville Area MPO meets the five primary criteria of the Transportation Conformity Rule (62 FR 43779, August 15, 1997):

- use of the latest planning assumptions;
- use of the latest emissions model;
- use of appropriate consultation procedures;
- consistency with the mobile source emission budgets in the State Implementation Plan (SIP); and
- provisions for timely implementation of transportation control measures in the SIP.

BUCKLE UP AMERICA

We also found that these documents met the criteria outlined in the Transportation Conformity Rule for the 1-hour Ozone Standard.

Therefore, the FHWA and the FTA approve the Conformity Determination for the 1-hour ozone standard for the adopted Nashville Area 2030 Long Range Transportation Plan.

If you have any questions regarding this approval, please contact Theresa Hutchins (FHWA) at 615-781-5767 or James Garland (FTA) at 440-562-3507.

Sincerely,

Bobby W Blackmon

Bobby W. Blackmon
Division Administrator
Federal Highway Administration, Tennessee Division

Cc: Ed Cole, TDOT - Planning
Angie Midgett, TDOT - Planning
Fred Schwartz, Nashville MPO
James Garland, FTA Region 4
Theresa Hutchins, FHWA
Lynorae Benjamin, EPA Region 4

NASHVILLE AREA
METROPOLITAN PLANNING ORGANIZATION

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Section I Executive Summary

The Nashville Area Metropolitan Planning Organization (NAMPO) is an over five-county agency consisting of federal, state and local governments working together to develop solutions to future transportation needs within the MPO's jurisdictional area. While striving to meet these needs, it is the responsibility of the MPO to show these proposed projects will conform to the Motor Vehicle Emissions Budgets (MVEB) based on the National Ambient Air Quality Standards (NAAQS) in non-attainment or maintenance areas as specified in Federal Regulation 40 CFR 93.118. A portion of the MPO region is currently designated as nonattainment-deferred under the Environmental Protection Agency, (EPA), EAC 8-hr designation for Ozone (O_3), which is one of the Clean Air Act's (CAA) six criteria pollutants. Ozone is created by atmospheric chemical reactions and can pose many health risks including eye and lung irritation. Therefore, it is necessary to minimize ozone formation by regulating ozone and its precursor pollutants, Nitrogen Oxides (NO_x) and Volatile Organic Compounds (VOC).

The EPA has developed a model, (known as MOBILE), capable of estimating pollutant emission rates based on regionally specific input parameters. Using the outputs obtained from both the Nashville area's Travel Demand Model and the MOBILE model, it is possible to determine whether or not future transportation projects, and the emissions associated with these projects, will conform to the MVEB.

Throughout the planning process, it is essential to establish an understanding and agreement on the travel demand model, air quality model, and financial assumptions used in the Nashville Area's Long Range Transportation Plan, (LRTP). Periodic Interagency Consultation accomplishes this process. At critical stages of LRTP development, members of the MPO staff, Tennessee Department of Transportation, (TDOT), Federal Highway Administration, (FHWA), EPA, local and state air quality agencies, and federal and regional transit agencies convene to discuss these assumptions and results.

This conformity document provides the level of detail required by Federal Regulations 40 CFR 93.106 and 40 CFR 93.122 and identifies the assumptions, as well as results, of the models used and approved by the Interagency Committee (IAC) while complying with the following State and Federal mandates:

- State of Tennessee State Implementation Plan (SIP);
- Clean Air Act;
- Tennessee Transportation Conformity Regulations;
- TEA-21 (Transportation Equity Act for the 21st Century);
- Metropolitan Planning Regulations (23 CFR 450.322)

Section II Federal Air Quality Requirements

According to the Clean Air Act Amendments of 1977 and 1990, transportation plans must be coordinated with, and conform to, local air quality budgets in the local SIP in geographic areas designated by the EPA as non-attainment or maintenance for any of the criteria pollutants. There are five counties in Middle Tennessee that form the boundaries of the Nashville Area MPO, (Davidson, Rutherford, Sumner, Williamson and Wilson). These counties were designated non-attainment in 1978 and declared maintenance areas in 1996 for the ozone precursor pollutants of NO_x and VOC. In April, 2004, EPA developed new regulations for air quality conformity and established an 8-hour standard overwriting the existing 1-hour standard. This 8-hour standard established a longer period of sustained clean air than with the previous standard. Because of this, areas that once were designated attainment under the 1-hour standard could possibly fall into nonattainment status under the 8-hour standard.

In the Nashville Area, the 8-hour nonattainment area remained the same as the previous nonattainment area. However, on December 29, 2004, the region entered into an Early Action Compact (EAC), and is currently on a "fast-track" towards air quality attainment. During this period, the 8-hour nonattainment

status is deferred until 2007 when, according to the EAC timeline, the region will be designated maintenance, or "on probation" through 2017. Prior to 2007, and while the Nashville Area is under nonattainment-defferred designation, the region is still required to abide by the 1-hour emissions budget in the current State's current SIP. Of important note for Middle Tennessee, is that the 1-hour ozone standard was revoked for most 1-hour ozone maintenance areas on June 15, 2005, but was not revoked for this area because of its participation in the 8-hour ozone Early Action Compact process. As such, Middle Tennessee is still subject to 1-hour ozone transportation conformity requirements until the area successfully completes the EAC process and is declared attainment for the 8-hour ozone standard. One year after the effective date of the 8-hour ozone attainment designation for this area, the area will no longer be subject to transportation conformity requirements for the 1-hour ozone standard.

Section III 2030 Long Range Transportation Plan

The Nashville area's Long Range Transportation Plan (LRTP) prepared by the Nashville Area MPO is a federally mandated document intended to provide methods to accommodate future transportation demand for a minimum of 20 years. The LRTP must also be fiscally constrained by describing sources of funding for projects in the Plan.

In some planning areas, the Long Range Plan incorporates Transportation Control Measures, or TCMs, that have been placed in the State's SIP. However, Tennessee's State Implementation Plan does not contain any TCMs, so none are contained in the Long Range Transportation Plan. However, if TCMs become an element of a current SIP, the LRTP will be amended to incorporate such control measures and Plan conformity will be reevaluated at that time.

Horizon Years

During the Plan's life, there are timeframes (also called horizon years) established to create transportation network "checkpoints". These horizon years help stage transportation projects and also help keep the Plan fiscally constrained by distributing costs over a period of time. In air quality analysis, horizon years are used to set benchmarks during the Plan's years where pollutant emissions must fall below a stated budget set forth in the State's State Implementation Plan. For the Nashville Area, these horizon years have been set, and agreed upon, through interagency consultation and federal requirements, (40 CFR 93.118 (b)), as the following:

Table 1 – Horizon Years

Horizon Year	
2006	▪ No more than 10 years from the base year, (2002) ▪ Last year of 1-hour AQ maintenance plan
2016	▪ No more than 10 years from previous horizon year ▪ Last year of 1-hour AQ maintenance plan update
2025	▪ No more than 10 years from previous horizon year
2030	▪ Last year of Plan

Section IV Interagency Consultation (IAC)

Under the Code of Federal Regulations, (40 CFR 93.105), the development of the Long Range Transportation Plan must include other federal, state and local agencies directly or indirectly impacted by the Plan's implementation. The Nashville Area's Interagency Consultation committee includes a variety of professionals involved in either air quality or transportation issues of the Nashville region. Members include the Tennessee Department of Transportation (TDOT), Federal Highway Administration (FHWA), Federal Transit Administration (FTA), Environmental Protection Agency (EPA), Tennessee Department of Environment and Conservation (TDEC), Metropolitan Nashville/Davidson County Health Department, the

Metropolitan Nashville Transit Authority (MTA), the Regional Transit Authority (RTA), and the Nashville Area MPO staff.

This committee meets periodically during Plan development to discuss the assumptions, modeling methods, and preliminary results of the LRTP process. (Minutes from the IAC meetings can be found in Appendix G.)

Section V Nashville Area Travel Demand Model

The Nashville Area's travel demand model process is performed using TransCAD, a software product developed by Caliper Corporation. The model follows the traditional 4-step travel forecasting process, consisting of (1) Trip Production, (2) Trip Distribution, (3) Modal Split and (4) Traffic Assignment. During the final step, the model assigns volume and travel speed to all links in the travel network. The link volumes, when multiplied by the link lengths, produce the total daily vehicle miles of travel (DVMT) for all links in the model network. To analyze air quality conformity, the VMT is then grouped by facility type in each nonattainment county and multiplied by the emission factor produced by the MOBILE model.

The model has been updated to include the latest planning assumptions, as described below.

V.1 Population and Employment

The base year (2002) employment data come directly from the State Department of Labor and Workforce Development's fourth quarter ES-202 data set. Base year (2002) population data are derived from the U.S. Census Bureau's 2000 Census. However, in order to establish population figures for 2002, building permits were used in Davidson County and parcel data with building construction dates from the State Office of the Comptroller of the Treasury were used for each of the other MPO counties.

To determine future employment and population projections by county for each of the horizon years (2006, 2016, 2025, 2030), 2030 employment and population control totals were extracted from TDOT's Long Range Transportation Plan. Once these control totals were established, they were input into the Urban Land Use Allocation Model, know as ULAM. This analytical model, developed for NAMPO by Transportation Planning Services, Inc., allocates forcasted population and employment to the region's Traffic Analyisis zones, (TAZ), based on a number of user inputs such as land use, building permits, highway travel times, market trends, and the region's topography. Two land use scenarios were presented to MPO members: one based on a historic growth scenario, and one based on adopted land use plans. MPO members decided the scenario based on current land use plans was the preferred scenario. Once this scenario was run, the future population and employment demographics are input into the travel demand model.

V.2 Exempt Projects

Exempt projects were determined during the Interagency Consultation process and generally follow the requirements of 40 CFR 93.126. Projects were classified as exempt from conformity analysis if they: (1) add only bicycle or pedestrian facilities; (2) fund operations, vehicles, or other equipment for transit/rideshare agencies; (3) add or upgrade signals without changing the total number of thru lanes; (4) add signs, lighting, crosswalks or other amenities without changing the total number of thru lanes; (5) reconstruct roadways or bridges without changing the total number of lanes, including shoulder improvements and bringing lane widths up to standards. It was also agreed through Interagency Consultation that two additional types of projects would be reviewed on a case-by-case basis to determine exempt status: (6) extend an auxiliary lane between interchanges on an access-controlled facility; and (7) signal interconnects or other corridor-wide signal projects. Since these two project types were not included in the conformity modeling, the committee determined that inclusion of these projects

in a future Transportation Improvement Program may require a Long Range Plan amendment, at which point they will be discussed in the Interagency Consultation process and explicitly included in a new conformity determination.

V.3 Model Network

During model development, MPO staff, with the help of local agencies, made a concerted effort to incorporate all noteworthy roads into the travel demand model. The product was a model network that included all regionally significant roads with the added ability to update each local agency's Major Thoroughfare Plans using the same model network system. Some benefits of this effort are:

1. Allows for easier coordination between local planning agencies and the MPO during Major Thoroughfare Plan updates;
2. Produces vehicle assignments more conducive to actual traffic volumes than a network with less roads;
3. Assists with more accurate emission results. This is due to the fact that each facility type has a different speed and vehicle mix, which contribute to a region's emission factors. For example, having more collector-level roads in the network can remove vehicles from the arterial system, consequently assigning a portion of VMT to a lower emission factor because of the lower average speed and favorable vehicle mix.

Local streets are not included in the model's network, but have a generalized representation in the form of centroid connectors. These centroid connectors provide access for the vehicles produced from, or attracted to each centroid in the traffic analysis zone (TAZ) once it leaves the street network. Connectors are drawn with a position and length that best represents the actual local street network to achieve the best VMT prediction for local roads during the traffic assignment process. This ensures that VMT forecasts include those facilities that are not regionally significant.

V.4 Model Validation

Conformity for this Plan update relies heavily on the results of the Travel Demand Model. Identifying this need, the model was dramatically reconstructed for 2005 to meet the growing demand for improvement. As mentioned in the last segment, more roads were added to the traffic network which caused the current Traffic Analysis Zone, (TAZ), structure to change. TAZs for the Nashville region were reworked and now contain over 1400 zones; *almost 3 times the previous zone total*. The result of this undertaking produced a validated travel demand model capable of producing answers to most model-related transportation questions.

The calibration/validation process was based on locally adopted criteria derived from Federal, State and Local guidelines and are as follows:

Table 2 – Model Validation Criteria

Criteria	Guideline	Model
Regional HPMS VMT vs. model VMT	±5%	-4.6%
Cutline/Screenline Analysis	±10%	6.6%
Percent Root Mean Square Error (RMSE)	<30.0%	27.7%
Percent Volume Differences by Functional Class		
Interstate/Freeway	±7%	-7%
Principal Arterial	±10%	-3%
Minor Arterial	±15%	-13%
Collector	±25%	5%
Coefficient of Determination (R^2)	≥0.88	0.89

V.5 Existing + Committed Network

The Existing Plus Committed network (E+C), also referred to as the "no build" option, includes existing roads, as well as new roads funded, or "committed" in the Transportation Improvement Plan, (TIP), through a certain stage of project funding. E+C projects are the only *capacity-adding* roadway projects that can continue towards completion if federal dollars were no longer available for funding projects in the Plan. FHWA currently sets the preliminary design phase (PS&E) as the funding limit for project continuation. However, in the Nashville Area, with agreement from interagency consultation, E+C projects are those projects with funding in the latest TIP through the construction phase. The Construction phase is a few steps beyond the PS&E stage, but the IAC agreed this is a more realistic funding point for guaranteeing project completion.

This E+C network, along with projected population and employment data is then run through the travel demand model, to analyze the impacts of this network on future travel demands. Results of the Nashville Area's E+C network are shown in the following table. Emission worksheets and VMT data can be found in Appendix E.

Table 3 – Results of the Existing Plus Committed Network

Year	Summer VMT	VOC				NO_x			
		Emissions	Budget	Difference	*Result*	Emissions	Budget	Difference	*Result*
2030	***62,352,745***	***13.30***	***21.93***	-8.63	***Pass***	***10.65***	***45.76***	-35.11	***Pass***

Section VI Air Quality Model (MOBILE 6.2.3)

The following list the ONE-TIME RUN DATA inputs used to run the MOBILE6 model:

Table 4 – MIN/MAX TEMPERATURE & REED VAPOR PRESSURE

Minimum Temperature	64.7° F
Maximum Temperature	86.5° F
RVP	7.8 psi

Table 5 – ANTI-TAMPERING PROGRAM DATA

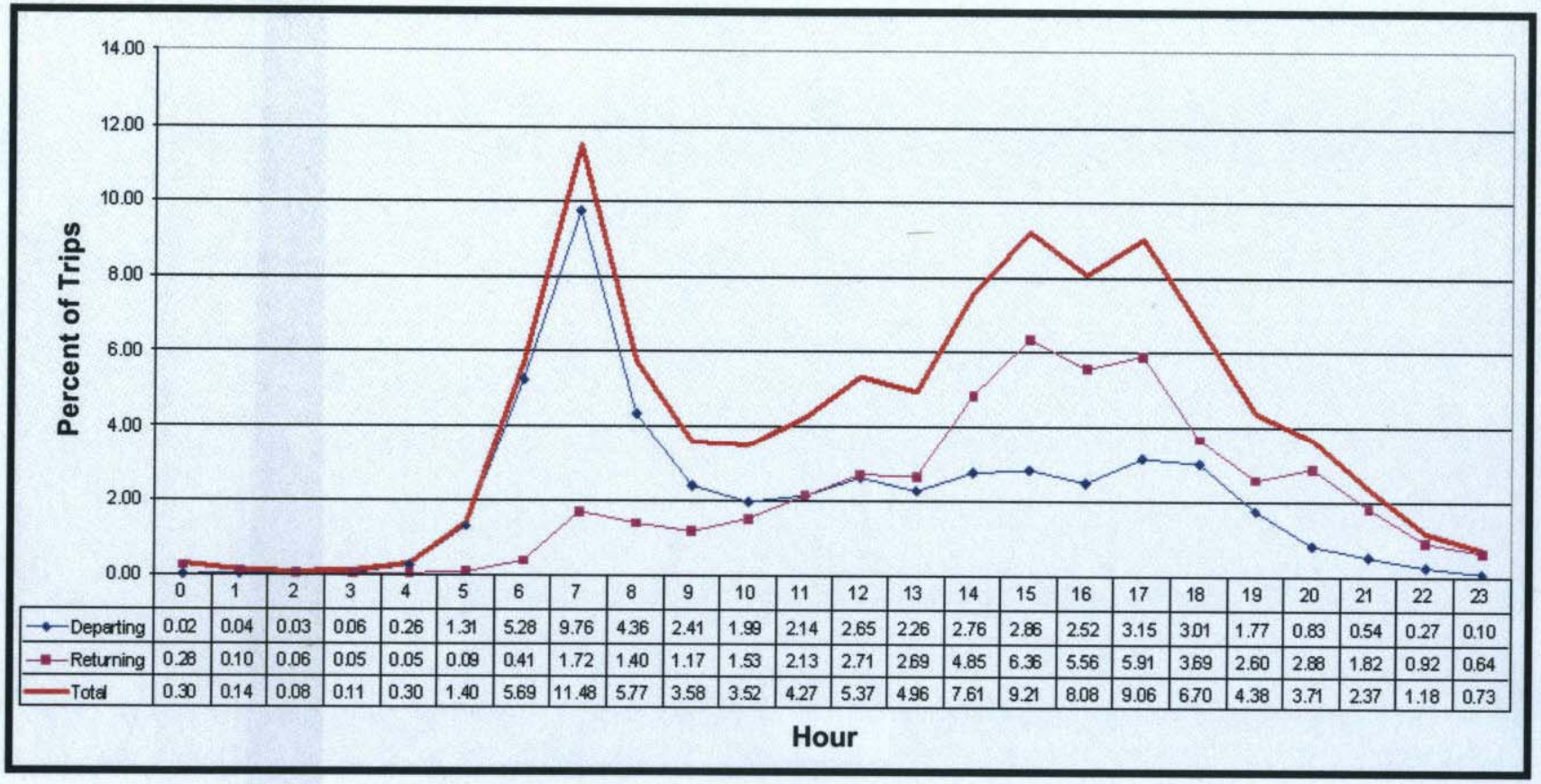
	Davidson Co.	Rutherford, Sumner, Williamson, Wilson Co.
Program Start Year	1995	
Model Years Covered	1975-2030	
Inspection Frequency	Annual	
Compliance Rate	98%	95%
Vehicle Types Subject to ATP Inspection	LDGV, LDGT1 thru LDGT4, HDGV2b*	
Inspections Performed	Catalyst Removal Fuel Inlet Restrictor Missing Gas Cap	

*HDGV2b Type included in 2006, 2016, 2025 and 2030

Table 6 – VMT BY HOUR (from Travel Demand Model)
filename: vmt_hour.d

Time	VMT Split	Time	VMT Split
6 a.m.	0.0569	6 p.m.	0.067
7 a.m.	0.1148	7 p.m.	0.0438
8 a.m.	0.0577	8 p.m.	0.0371
9 a.m.	0.0358	9 p.m.	0.0237
10 a.m.	0.0352	10 p.m.	0.0118
11 a.m.	0.0427	11 p.m.	0.0073
12 p.m.	0.0537	12 a.m.	0.003
1 p.m.	0.0496	1 a.m.	0.0014
2 p.m.	0.0761	2 a.m.	0.0008
3 p.m.	0.0921	3 a.m.	0.0011
4 p.m.	0.0808	4 a.m.	0.003
5 p.m.	0.0906	5 a.m.	0.014

Exhibit A – PERCENT OF TRIPS BY TIME OF DAY (used to develop vmt_hour.d input file)



	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Departing	0.02	0.04	0.03	0.06	0.26	1.31	5.28	9.76	4.36	2.41	1.99	2.14	2.65	2.26	2.76	2.86	2.52	3.15	3.01	1.77	0.83	0.54	0.27	0.10
Returning	0.28	0.10	0.06	0.05	0.05	0.09	0.41	1.72	1.40	1.17	1.53	2.13	2.71	2.69	4.85	6.36	5.56	5.91	3.69	2.60	2.88	1.82	0.92	0.64
Total	0.30	0.14	0.08	0.11	0.30	1.40	5.69	11.48	5.77	3.58	3.52	4.27	5.37	4.96	7.61	9.21	8.08	9.06	6.70	4.38	3.71	2.37	1.18	0.73

Source: 1997 Nashville Household Travel Survey

Exhibit B – 2002-2004 DAVIDSON CO. INSPECTION/MAINTENANCE EXTERNAL FILE
filename: 02Metro.IM

```
* This file represents the Metro IM program.
* Per TDOT, use a factor of 0.76 to allocate vmt.
* Cutpoints instructed to be used ONLY for IM240. Hence that command is not
* used in this IDLE IM program
* IDLE IM program stopped with model year 1995
* because OBD starts in 2002 and applies for
* vehicle model years 1996 and newer. This will avoid double-counting of
* IM effects.

* THESE PROGRAMS APPLY FOR ANALYSIS YEARS 2002 through 2030

* IDLE IM program for model years till 1995.

I/M PROGRAM        : 1 1985 2030 1 T/O IDLE
I/M MODEL YEARS    : 1 1975 1995
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 30.0
I/M COMPLIANCE     : 1 98.0
I/M WAIVER RATES   : 1 0.0 0.0
I/M EXEMPTION AGE  : 1 25
I/M GRACE PERIOD   : 1 1


* Exhaust OBD IM program for LDGV, LDGTs model yrs 2002-2030

I/M PROGRAM        : 2 2002 2030 1 T/O OBD I/M
I/M MODEL YEARS    : 2 1996 2030
I/M VEHICLES       : 2 22222 11111111 1
I/M STRINGENCY     : 2 30.0
I/M COMPLIANCE     : 2 98.0
I/M WAIVER RATES   : 2 0.0 0.0

* EVAP OBD and GC IM program for model years till 2030 for LDGV and LDGTs.

I/M PROGRAM        : 3 2002 2030 1 T/O EVAP OBD & GC
I/M MODEL YEARS    : 3 1996 2030
I/M VEHICLES       : 3 22222 11111111 1
I/M STRINGENCY     : 3 30.0
I/M COMPLIANCE     : 3 98.0
I/M WAIVER RATES   : 3 0.0 0.0
```

Exhibit C – 2002-2004 STATE INSPECTION/MAINTENANCE EXTERNAL FILE

filename: 02State.IM

```
* This file represents the State IM program.
* Per TDOT, use a factor of 0.24 to allocate vmt.
* Cutpoints instructed to be used ONLY for IM240. Hence that command is not
* used in this IDLE IM program
* IDLE IM program stopped with model year 1995
* because OBD starts in 2002 and applies for
* vehicle model years 1996 and newer. This will avoid double-counting of
* IM effects.

* THESE PROGRAMS APPLY FOR ANALYSIS YEARS 2002 through 2030

* IDLE IM program for model years till 1995.

I/M PROGRAM        : 1 1995 2030 1 T/O IDLE
I/M MODEL YEARS    : 1 1975 1995
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 30.0
I/M COMPLIANCE     : 1 95.0
I/M WAIVER RATES   : 1 5.0 5.0
I/M EXEMPTION AGE  : 1 25
I/M GRACE PERIOD   : 1 1


* Exhaust OBD IM program for LDGV, LDGTs model yrs 2002-2030

I/M PROGRAM        : 2 2002 2030 1 T/O OBD I/M
I/M MODEL YEARS    : 2 1996 2030
I/M VEHICLES       : 2 22222 11111111 1
I/M STRINGENCY     : 2 30.0
I/M COMPLIANCE     : 2 95.0
I/M WAIVER RATES   : 2 5.0 5.0

* EVAP OBD and GC IM program for model years till 2030 for LDGV and LDGTs.

I/M PROGRAM        : 3 2002 2030 1 T/O EVAP OBD & GC
I/M MODEL YEARS    : 3 1996 2030
I/M VEHICLES       : 3 22222 11111111 1
I/M STRINGENCY     : 3 30.0
I/M COMPLIANCE     : 3 95.0
I/M WAIVER RATES   : 3 5.0 5.0
```

Exhibit D – 2005-2030 DAVIDSON CO. INSPECTION/MAINTENANCE EXTERNAL FILE

filename: 05Metro.IM

```
* 05Metro.IM
* I&M Programs 2005-2030
*
* I/M Program #1
I/M PROGRAM        : 1 1985 2030 1 T/O IDLE
I/M MODEL YEARS    : 1 1975 1995
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 30.
I/M COMPLIANCE     : 1 98.
I/M WAIVER RATES   : 1 0.0 0.0
I/M GRACE PERIOD   : 1 1
I/M EXEMPTION AGE  : 1 25

* I/M Program #2
I/M PROGRAM        : 2 2005 2030 1 T/O IDLE
I/M MODEL YEARS    : 2 1975 1995
I/M VEHICLES       : 2 11111 21111111 1
I/M STRINGENCY     : 2 30.
I/M COMPLIANCE     : 2 98.
I/M WAIVER RATES   : 2 0.0 0.0
I/M GRACE PERIOD   : 2 1
I/M EXEMPTION AGE  : 2 25

* I/M Program #3
I/M PROGRAM        : 3 2002 2030 1 T/O OBD I/M
I/M MODEL YEARS    : 3 1996 2030
I/M VEHICLES       : 3 22222 11111111 1
I/M STRINGENCY     : 3 30.
I/M COMPLIANCE     : 3 98.
I/M WAIVER RATES   : 3 0.0 0.0

* I/M Program #4
I/M PROGRAM        : 4 2005 2030 1 T/O OBD I/M
I/M MODEL YEARS    : 4 1996 2030
I/M VEHICLES       : 4 11111 21111111 1
I/M STRINGENCY     : 4 30.
I/M COMPLIANCE     : 4 98.
I/M WAIVER RATES   : 4 0.0 0.0

* I/M Program #5
I/M PROGRAM        : 5 2002 2030 1 T/O EVAP OBD & GC
I/M MODEL YEARS    : 5 1996 2030
I/M VEHICLES       : 5 22222 11111111 1
I/M COMPLIANCE     : 5 98.
I/M WAIVER RATES   : 5 0.0 0.0

* I/M Program #6
I/M PROGRAM        : 6 2005 2030 1 T/O EVAP OBD & GC
I/M MODEL YEARS    : 6 2007 2030
I/M VEHICLES       : 6 11111 21111111 1
I/M COMPLIANCE     : 6 98.
I/M WAIVER RATES   : 6 0.0 0.0
```

Exhibit E – 2005-2030 STATE INSPECTION/MAINTENANCE EXTERNAL FILE

filename: 05State.IM

```
* 05State.IM
* I&M file used for 2005-2030
*
* I/M Program #1
I/M PROGRAM        : 1 1995 2030 1 T/O IDLE
I/M MODEL YEARS    : 1 1975 1995
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 30.
I/M COMPLIANCE     : 1 95.
I/M WAIVER RATES   : 1 5.0 5.0
I/M GRACE PERIOD   : 1 1
I/M EXEMPTION AGE  : 1 25

* I/M Program #2
I/M PROGRAM        : 2 2005 2030 1 T/O IDLE
I/M MODEL YEARS    : 2 1975 1995
I/M VEHICLES       : 2 11111 21111111 1
I/M STRINGENCY     : 2 30.
I/M COMPLIANCE     : 2 95.
I/M WAIVER RATES   : 2 5.0 5.0
I/M GRACE PERIOD   : 2 1
I/M EXEMPTION AGE  : 2 25

* I/M Program #3
I/M PROGRAM        : 3 2002 2030 1 T/O OBD I/M
I/M MODEL YEARS    : 3 1996 2030
I/M VEHICLES       : 3 22222 11111111 1
I/M STRINGENCY     : 3 30.
I/M COMPLIANCE     : 3 95.
I/M WAIVER RATES   : 3 5.0 5.0

* I/M Program #4
I/M PROGRAM        : 4 2005 2030 1 T/O OBD I/M
I/M MODEL YEARS    : 4 1996 2030
I/M VEHICLES       : 4 11111 21111111 1
I/M STRINGENCY     : 4 30.
I/M COMPLIANCE     : 4 95.
I/M WAIVER RATES   : 4 5.0 5.0

* I/M Program #5
I/M PROGRAM        : 5 2002 2030 1 T/O EVAP OBD & GC
I/M MODEL YEARS    : 5 1996 2030
I/M VEHICLES       : 5 22222 11111111 1
I/M COMPLIANCE     : 5 95.
I/M WAIVER RATES   : 5 5.0 5.0


* I/M Program #6
I/M PROGRAM        : 6 2005 2030 1 T/O EVAP OBD & GC
I/M MODEL YEARS    : 6 2007 2030
I/M VEHICLES       : 6 11111 21111111 1
I/M COMPLIANCE     : 6 95.
I/M WAIVER RATES   : 6 5.0 5.0
```

Exhibit F – VMT BY FACILITY (6 A.M. TO 5 A.M.)

filename:	F_only.vmt	A_only.vmt	L_only.vmt
Vehicle type	Freeway, Arterial, Local, Ramp		
LDGV	1,0,0,0	0,1,0,0	0,0,1,0
LDGT1	1,0,0,0	0,1,0,0	0,0,1,0
LDGT2	1,0,0,0	0,1,0,0	0,0,1,0
LDGT3	1,0,0,0	0,1,0,0	0,0,1,0
LDGT4	1,0,0,0	0,1,0,0	0,0,1,0
HDGV2B	1,0,0,0	0,1,0,0	0,0,1,0
HDGV3	1,0,0,0	0,1,0,0	0,0,1,0
HDGV4	1,0,0,0	0,1,0,0	0,0,1,0
HDGV5	1,0,0,0	0,1,0,0	0,0,1,0
HDGV6	1,0,0,0	0,1,0,0	0,0,1,0
HDGV7	1,0,0,0	0,1,0,0	0,0,1,0
HDGV8A	1,0,0,0	0,1,0,0	0,0,1,0
HDGV8B	1,0,0,0	0,1,0,0	0,0,1,0
LDDV	1,0,0,0	0,1,0,0	0,0,1,0
LDDT12	1,0,0,0	0,1,0,0	0,0,1,0
HDDV2B	1,0,0,0	0,1,0,0	0,0,1,0
HDDV3	1,0,0,0	0,1,0,0	0,0,1,0
HDDV4	1,0,0,0	0,1,0,0	0,0,1,0
HDDV5	1,0,0,0	0,1,0,0	0,0,1,0
HDDV6	1,0,0,0	0,1,0,0	0,0,1,0
HDDV7	1,0,0,0	0,1,0,0	0,0,1,0
HDDV8A	1,0,0,0	0,1,0,0	0,0,1,0
HDDV8B	1,0,0,0	0,1,0,0	0,0,1,0
MC	1,0,0,0	0,1,0,0	0,0,1,0
HDGB	1,0,0,0	0,1,0,0	0,0,1,0
HDDBT	1,0,0,0	0,1,0,0	0,0,1,0
HDDBS	1,0,0,0	0,1,0,0	0,0,1,0
LDDT34	1,0,0,0	0,1,0,0	0,0,1,0

Section VII Conformity Results

The following tables show the results of the air quality model as well as the Motor Vehicle Emissions Budgets (MVEB) from the State Implementation Plan, (SIP). During document preparation, The Tennessee Department of Environment and Conservation was in the process of updating the current SIP.

On September 1, 2005 EPA released a Notice of Adequacy regarding the use of MVEB for 2016 and later horizon years. Effective October 3, 2005, this notice allows the Nashville MPO to use the budgets set forth by the new SIP as comparison for Plan conformity for the 2016, 2025 and 2030 horizon years. Since the current SIP is effective through 2006, this horizon year's conformity is still compared to the budgets stated in the MVEB as stated in Table 8.

Table 7 – Travel Demand Model Future VMT Results

Vehicle Miles Traveled (VMT) - Summer

	2002	2006	2016	2025	2030	2030 E+C
Davidson	19,741,783	22,292,100	24,638,594	26,925,568	29,284,656	28,465,969
Rutherford	6,333,225	7,251,583	8,697,529	10,113,880	11,012,830	11,135,600
Sumner	3,727,914	3,863,033	4,390,196	5,096,632	5,841,662	5,565,924
Williamson	4,990,230	6,745,229	8,532,732	11,150,844	12,138,654	11,202,290
Wilson	3,854,086	4,157,016	5,006,482	5,766,252	6,359,956	5,982,961
Total	***38,647,239***	***44,308,961***	***51,265,533***	***59,053,177***	***64,637,759***	***62,352,745***

Table 8 – Emission Results

Volatile Organic Compounds (VOC) [tons/day]

	2006	**2016**	**2025**	**2030**	**2030 E+C**
Davidson	18.95	8.33	5.82	6.28	5.90
Rutherford	6.07	2.97	2.25	2.40	2.44
Sumner	3.39	1.53	1.15	1.28	1.24
Williamson	5.66	2.88	2.44	2.61	2.44
Wilson	3.38	1.67	1.25	1.35	1.28
Total	***37.44***	***17.38***	***12.91***	***13.92***	***13.30***
MVEB	***53.17***	***21.93***	***21.93***	***21.93***	***21.93***
Difference	*15.73*	*4.55*	*9.02*	*8.01*	*8.63*

Nitrogen Oxides (NOx) [tons/day]

	2006	**2016**	**2025**	**2030**	**2030 E+C**
Davidson	36.76	11.64	5.30	4.58	4.44
Rutherford	16.26	5.45	2.50	2.10	2.12
Sumner	5.19	1.73	0.92	0.95	0.84
Williamson	12.37	5.02	2.61	2.22	2.03
Wilson	10.56	3.63	1.60	1.37	1.22
Total	***81.14***	***27.48***	***12.93***	***11.21***	***10.65***
MVEB	***96.60***	***45.76***	***45.76***	***45.76***	***45.76***
Difference	*15.46*	*18.28*	*32.83*	*34.55*	*35.11*

For additional reference, Appendix B contains the worksheets used to compute emission totals, disaggregated by facility type and air quality zone as well as the Notice of Adequacy document.

APPENDIX A

RESOLUTION ADOPTING THE LONG RANGE TRANSPORTATION PLAN

NASHVILLE AREA METROPOLITAN PLANNING ORGANIZATION
EXECUTIVE BOARD

RESOLUTION 2005- 19

CONCERNING THE ADOPTION OF THE
2030 LONG RANGE TRANSPORTATION PLAN

WHEREAS, the Nashville Area Metropolitan Planning Organization is responsible for the development and adoption of a Long Range Transportation Plan through a comprehensive, cooperative, and continuing transportation planning process; and

WHEREAS, the various state, local, and regional agencies concerned with transportation planning for the Nashville Area MPO's study area have cooperatively developed a Long Range Transportation Plan within this framework and provided for public involvement in the policymaking process; and

WHEREAS, the Long Range Transportation Plan is consistent with local and regional transportation plans and programs and has been determined to be in conformity with the Clean Air Act Amendments of 1990;

THEREFORE, BE IT RESOLVED, that the Executive Board of the Nashville Area Metropolitan Planning Organization does hereby adopt the 2030 Long Range Transportation Plan re-affirmation for Davidson, Rutherford, Sumner, Williamson and Wilson counties in Middle Tennessee and the portions of Robertson and Maury included in the MPO.

EXECUTIVE BOARD

Date: October 19, 2005

Rogers Anderson

The Honorable Rogers Anderson
Chairman, Executive Board

Attest:

Fred Schwartz

Fred S. Schwartz
Secretary

APPENDIX B

MOBILE6 EMISSION WORKSHEETS

FEDERAL REGISTER
NOTICE OF ADEQUACY

2002 Emissions

			2002 Emission Factors							2002 Emissions	
			Metro EF [gpm]		State EF [gpm]						
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT (76%)	VMT (24%)	Ramp VMT	VOC	NO_x
Davidson Co.	6	44.7	1.107	1.546	1.127	1.554	77,202	24,379		0.12	0.17
	7	42.4	1.103	1.942	1.122	1.949	41,174	13,002		0.07	0.12
	8	40.4	1.115	1.917	1.134	1.924	91,020	28,743		0.15	0.25
	11	53.4	1.029	3.391	1.046	3.398	6,171,593	1,948,924	333,457	9.63	31.62
	12	52.1	1.157	1.931	1.177	1.939	891,950	281,669	333,457	1.93	3.21
	14	39.6	1.132	1.536	1.153	1.544	3,185,683	1,006,005		5.25	7.11
	16	37.7	1.144	1.528	1.165	1.536	2,381,940	752,191		3.97	5.29
	17	35.4	1.158	1.518	1.180	1.526	616,067	194,547		1.04	1.36
	Local	12.9	1.778	1.256	1.809	1.264	1,040,273	328,507		2.69	1.90
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Rutherford Co.	1	64.8	n/a	n/a	0.998	5.498	522,625		25,717	0.60	3.32
	2	50.6			1.079	2.114	399,152			0.47	0.93
	3	59.2			1.009	4.825	427,182		25,717	0.50	2.41
	6	44.4			1.110	2.001	219,496			0.27	0.48
	7	41.3			1.144	1.499	326,823			0.41	0.54
	8	40.7			1.146	1.589	447,929			0.57	0.78
	11	58.2			1.020	3.801	1,710,802		25,717	1.95	7.28
	14	43.5			1.119	1.875	843,776			1.04	1.74
	16	40.8			1.134	1.845	583,911			0.73	1.19
	17	36.5			1.174	1.476	229,383			0.30	0.37
	Local	12.9			1.809	1.264	544,996			1.09	0.76
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Sumner Co.	1	59.7	n/a	n/a	1.015	4.470	378,928		18,570	0.44	1.96
	2	46.0			1.120	1.596	192,701			0.24	0.34
	6	44.5			1.127	1.581	373,752			0.46	0.65
	7	41.7			1.142	1.502	243,045			0.31	0.40
	8	41.3			1.146	1.500	255,333			0.32	0.42
	12	53.4			1.110	1.733	273,047		18,570	0.36	0.56
	14	44.1			1.126	1.637	908,489			1.13	1.64
	16	40.6			1.145	1.608	305,102			0.39	0.54
	17	38.4			1.205	2.290	324,644			0.43	0.82
	Local	12.9			1.809	1.264	398,592			0.79	0.56
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Williamson Co.	1	62.7	n/a	n/a	0.995	5.475	668,371		36,815	0.77	4.26
	3	59.9			1.024	4.938	271,897		36,815	0.35	1.68
	6	43.3			1.124	1.786	675,621			0.84	1.33
	7	41.6			1.144	1.532	259,990			0.33	0.44
	8	42.3			1.140	1.537	408,076			0.51	0.69
	10	43.1			1.135	1.543	21,130			0.03	0.04
	11	55.3			1.055	2.892	1,174,298		36,815	1.41	3.86
	14	40.2			1.149	1.547	326,618			0.41	0.56
	16	38.7			1.158	1.540	393,609			0.50	0.67
	17	36.4			1.175	1.467	213,823			0.28	0.35
	Local	12.9			1.809	1.264	355,904			0.71	0.50
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Wilson Co.	1	65.4	n/a	n/a	0.963	6.727	483,942		15,698	0.53	3.70
	2	44.6			1.114	1.886	52,987			0.07	0.11
	3	59.9			0.984	5.804	199,530		15,698	0.23	1.38
	6	44.1			1.116	1.881	496,147			0.61	1.03
	7	42.0			1.143	1.496	235,139			0.30	0.39
	8	41.0			1.148	1.488	270,912			0.34	0.44
	11	60.3			0.983	5.087	1,057,040		15,698	1.16	6.02
	14	44.1			1.126	1.637	354,556			0.44	0.64
	16	41.6			1.139	1.617	159,443			0.20	0.28
	17	37.7			1.166	1.462	158,524			0.20	0.26
	Local	12.9			1.809	1.264	291,677			0.58	0.41

Total Region Emissions: ***48.46*** ***107.73***

Summer VMT: ***38,647,239***

2006 Emissions

		2006 Emission Factors								2006 Emissions	
			Metro EF [gpm]		State EF [gpm]						
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT (76%)	VMT (24%)	Ramp VMT	VOC	NO_x
Davidson Co.	6	42.4	0.760	1.029	0.767	1.035	95,502	30,158		0.11	0.14
	7	42.2	0.756	1.175	0.762	1.182	39,528	12,483		0.04	0.07
	8	40.3	0.764	1.160	0.771	1.166	109,428	34,556		0.12	0.18
	11	52.1	0.696	2.109	0.702	2.115	7,181,002	2,267,685	379,034	7.56	22.86
	12	51.6	0.766	1.208	0.772	1.214	1,059,602	334,611	379,034	1.50	2.36
	14	38.8	0.775	1.003	0.782	1.009	3,529,437	1,114,559		3.98	5.14
	16	37.3	0.782	0.998	0.790	1.005	2,570,053	811,596		2.92	3.73
	17	35.2	0.794	0.965	0.801	0.972	683,465	215,831		0.79	0.96
	Local	12.9	1.211	0.824	1.222	0.831	1,097,848	346,689		1.93	1.31
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Rutherford Co.	1	64.3	n/a	n/a	0.653	4.230	573,707		33,130	0.44	2.83
	2	50.9			0.721	1.421	473,027			0.38	0.74
	3	58.7			0.661	3.645	547,882		33,130	0.42	2.33
	6	44.3			0.748	1.328	235,230			0.19	0.34
	7	40.6			0.775	1.038	385,622			0.33	0.44
	8	40.3			0.776	1.036	546,835			0.47	0.62
	11	57.6			0.667	2.865	1,968,656		33,130	1.47	6.32
	14	43.4			0.760	1.054	861,539			0.72	1.00
	16	40.8			0.772	1.038	634,637			0.54	0.73
	17	36.2			0.795	0.988	294,533			0.26	0.32
	Local	12.9			1.222	0.831	630,525			0.85	0.58
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Sumner Co.	1	58.4	n/a	n/a	0.672	2.870	408,219		21,906	0.32	1.36
	2	46.0			0.751	1.065	213,604			0.18	0.25
	6	44.3			0.759	1.052	410,232			0.34	0.48
	7	42.0			0.771	0.972	153,234			0.13	0.16
	8	41.2			0.774	0.968	222,874			0.19	0.24
	12	52.7			0.737	1.118	313,764		21,906	0.27	0.41
	14	43.8			0.756	1.097	977,979			0.81	1.18
	16	40.8			0.770	1.078	297,630			0.25	0.35
	17	37.9			0.788	0.928	338,307			0.29	0.35
	Local	12.9			1.222	0.831	439,566			0.59	0.40
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Williamson Co.	1	61.2	n/a	n/a	0.661	3.738	729,117		47,405	0.57	3.20
	3	58.8			0.673	3.466	437,238		47,405	0.36	1.85
	6	41.1			0.768	1.161	916,849			0.78	1.17
	7	39.9			0.779	0.995	432,594			0.37	0.47
	8	40.6			0.776	0.999	876,378			0.75	0.97
	10	42.3			0.768	1.009	21,781			0.02	0.02
	11	53.2			0.704	1.917	1,280,872		47,405	1.03	2.81
	14	39.6			0.777	1.038	370,038			0.32	0.42
	16	37.5			0.788	1.032	568,649			0.49	0.65
	17	35.8			0.798	0.960	297,131			0.26	0.31
	Local	12.9			1.222	0.831	530,151			0.71	0.49
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Wilson Co.	1	65.3	n/a	n/a	0.640	4.779	488,132		19,562	0.36	2.67
	2	44.5			0.750	1.255	55,803			0.05	0.08
	3	57.9			0.657	3.902	231,751		19,562	0.18	1.08
	6	43.8			0.753	1.249	526,526			0.44	0.72
	7	41.5			0.773	0.977	245,456			0.21	0.26
	8	40.4			0.778	0.970	313,081			0.27	0.33
	11	59.6			0.653	3.379	1,123,384		19,562	0.82	4.26
	14	43.5			0.758	1.087	323,390			0.27	0.39
	16	41.4			0.767	1.074	231,742			0.20	0.27
	17	37.7			0.788	0.953	169,603			0.15	0.18
	Local	12.9			1.222	0.831	330,772			0.45	0.30

Total Region Emissions: ***37.44*** ***81.14***

Summer VMT: ***44,308,961***

2016 Emissions

			2016 Emission Factors							2016 Emissions	
			Metro EF [gpm]		State EF [gpm]						
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT (76%)	VMT (24%)	Ramp VMT	VOC	NO_x
Davidson Co.	6	42.9	0.300	0.310	0.306	0.318	156,902	49,548		0.07	0.07
	7	39.1	0.305	0.343	0.312	0.351	45,491	14,366		0.02	0.02
	8	40.0	0.304	0.344	0.310	0.352	107,522	33,954		0.05	0.05
	11	50.9	0.282	0.585	0.288	0.592	7,901,805	2,495,307	435,499	3.38	7.01
	12	51.4	0.299	0.354	0.305	0.363	1,185,760	374,451	435,499	0.66	0.78
	14	38.3	0.304	0.299	0.311	0.307	3,913,644	1,235,888		1.74	1.71
	16	37.1	0.306	0.298	0.313	0.306	2,835,882	895,542		1.27	1.23
	17	35.0	0.309	0.288	0.316	0.296	724,223	228,702		0.33	0.30
	Local	12.9	0.470	0.262	0.480	0.270	1,192,144	376,466		0.82	0.46
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Rutherford Co.	1	60.9	n/a	n/a	0.286	1.083	717,792		39,698	0.24	0.90
	2	51.2			0.293	0.426	636,978			0.21	0.30
	3	56.3			0.286	0.973	762,094		39,698	0.25	0.86
	6	43.0			0.304	0.393	286,887			0.10	0.12
	7	40.5			0.310	0.318	466,525			0.16	0.16
	8	39.7			0.311	0.317	643,980			0.22	0.23
	11	55.8			0.279	0.775	2,199,203		39,698	0.69	1.91
	14	43.8			0.302	0.323	1,078,006			0.36	0.38
	16	41.2			0.306	0.318	717,171			0.24	0.25
	17	36.1			0.313	0.301	302,804			0.10	0.10
	Local	12.9			0.480	0.270	766,993			0.41	0.23
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Sumner Co.	1	55.0	n/a	n/a	0.282	0.752	442,936		25,285	0.15	0.39
	2	44.5			0.304	0.323	245,241			0.08	0.09
	6	43.5			0.305	0.321	527,829			0.18	0.19
	7	40.4			0.310	0.298	166,249			0.06	0.05
	8	40.8			0.309	0.299	238,041			0.08	0.08
	12	52.7			0.294	0.340	426,363		25,285	0.15	0.17
	14	44.1			0.301	0.334	1,088,696			0.36	0.40
	16	41.2			0.305	0.328	311,258			0.10	0.11
	17	37.7			0.310	0.285	365,779			0.12	0.11
	Local	12.9			0.480	0.270	476,663			0.25	0.14
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Williamson Co.	1	60.4	n/a	n/a	0.287	1.026	914,717		56,099	0.31	1.10
	3	57.0			0.286	0.960	1,357,768		56,099	0.45	1.50
	6	40.7			0.309	0.350	1,200,530			0.41	0.46
	7	40.1			0.311	0.306	387,762			0.13	0.13
	8	40.1			0.311	0.306	852,956			0.29	0.29
	10	42.5			0.307	0.311	26,624			0.01	0.01
	11	51.7			0.288	0.540	1,378,176		56,099	0.46	0.85
	14	41.6			0.305	0.320	569,835			0.19	0.20
	16	37.7			0.312	0.314	581,305			0.20	0.20
	17	35.7			0.314	0.294	303,042			0.10	0.10
	Local	12.9			0.480	0.270	623,423			0.33	0.19
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Wilson Co.	1	63.4	n/a	n/a	0.284	1.281	592,308		23,776	0.19	0.87
	2	45.0			0.301	0.378	61,249			0.02	0.03
	3	57.2			0.286	1.076	298,060		23,776	0.10	0.38
	6	43.9			0.303	0.376	699,859			0.23	0.29
	7	41.2			0.309	0.301	297,460			0.10	0.10
	8	40.3			0.310	0.299	358,803			0.12	0.12
	11	60.4			0.275	0.965	1,321,668		23,776	0.41	1.43
	14	43.7			0.301	0.331	423,124			0.14	0.15
	16	41.4			0.305	0.326	251,132			0.08	0.09
	17	37.1			0.311	0.292	177,907			0.06	0.06
	Local	12.9			0.480	0.270	382,256			0.20	0.11

Total Region Emissions: ***17.38*** ***27.48***

Summer VMT: ***51,265,533***

2025 Emissions

		2025 Emission Factors								2025 Emissions	
			Metro EF [gpm]		State EF [gpm]						
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT (76%)	VMT (24%)	Ramp VMT	VOC	NO_x
Davidson Co.	6	40.2	0.192	0.144	0.199	0.152	186,558	58,913		0.05	0.04
	7	38.0	0.196	0.154	0.202	0.163	52,764	16,662		0.02	0.01
	8	39.4	0.194	0.155	0.200	0.164	170,902	53,969		0.05	0.04
	11	49.3	0.178	0.222	0.183	0.229	8,539,774	2,696,771	478,011	2.31	2.89
	12	50.4	0.187	0.160	0.193	0.169	1,299,357	410,323	478,011	0.45	0.39
	14	37.6	0.193	0.139	0.199	0.148	4,198,600	1,325,874		1.18	0.86
	16	36.3	0.195	0.139	0.201	0.147	3,176,877	1,003,224		0.91	0.65
	17	34.5	0.196	0.135	0.203	0.144	827,502	261,317		0.24	0.16
	Local	12.9	0.325	0.133	0.335	0.143	1,284,521	405,638		0.61	0.25
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Rutherford Co.	1	58.3	n/a	n/a	0.188	0.374	843,514		44,724	0.18	0.37
	2	50.2			0.186	0.188	751,849			0.15	0.16
	3	53.7			0.189	0.340	877,128		44,724	0.19	0.35
	6	43.2			0.194	0.178	351,291			0.08	0.07
	7	40.6			0.198	0.154	569,739			0.12	0.10
	8	39.4			0.200	0.153	843,568			0.19	0.14
	11	54.8			0.178	0.286	2,418,867		44,724	0.48	0.78
	14	43.0			0.192	0.154	1,243,688			0.26	0.21
	16	40.9			0.194	0.152	844,752			0.18	0.14
	17	35.8			0.200	0.145	337,279			0.07	0.05
	Local	12.9			0.335	0.143	898,032			0.33	0.14
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Sumner Co.	1	53.7	n/a	n/a	0.180	0.279	476,074		29,152	0.10	0.16
	2	44.8			0.193	0.157	298,241			0.06	0.05
	6	43.3			0.194	0.155	638,576			0.14	0.11
	7	39.9			0.199	0.147	195,911			0.04	0.03
	8	40.1			0.199	0.147	296,421			0.07	0.05
	12	51.5			0.185	0.160	505,986		29,152	0.11	0.09
	14	43.3			0.191	0.157	1,202,447			0.25	0.21
	16	40.5			0.195	0.155	413,351			0.09	0.07
	17	37.3			0.198	0.140	388,700			0.08	0.06
	Local	12.9			0.335	0.143	564,317			0.21	0.09
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Williamson Co.	1	56.7	n/a	n/a	0.188	0.351	1,111,748		66,463	0.24	0.46
	3	54.5			0.188	0.336	1,751,950		66,463	0.38	0.67
	6	41.0			0.198	0.164	1,563,948			0.34	0.28
	7	38.9			0.201	0.149	506,090			0.11	0.08
	8	39.2			0.200	0.150	1,053,165			0.23	0.17
	10	41.7			0.196	0.151	52,190			0.01	0.01
	11	47.1			0.186	0.208	2,265,688		66,463	0.48	0.53
	14	41.4			0.194	0.153	712,268			0.15	0.12
	16	36.3			0.201	0.150	636,217			0.14	0.11
	17	35.0			0.202	0.143	366,273			0.08	0.06
	Local	12.9			0.335	0.143	732,526			0.27	0.12
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Wilson Co.	1	61.0	n/a	n/a	0.187	0.432	685,347		27,607	0.15	0.34
	2	43.5			0.194	0.172	71,171			0.02	0.01
	3	56.5			0.188	0.384	340,432		27,607	0.08	0.16
	6	44.1			0.193	0.172	836,547			0.18	0.16
	7	41.0			0.197	0.149	345,873			0.08	0.06
	8	40.2			0.199	0.148	434,434			0.10	0.07
	11	59.3			0.176	0.345	1,479,815		27,607	0.29	0.57
	14	42.6			0.192	0.156	478,349			0.10	0.08
	16	40.4			0.195	0.154	275,909			0.06	0.05
	17	36.3			0.199	0.142	211,149			0.05	0.03
	Local	12.9			0.335	0.143	441,586			0.16	0.07

Total Region Emissions: ***12.91*** ***12.93***

Summer VMT: ***59,053,177***

2030 Emissions

		2030 Emission Factors								2030 Emissions	
			Metro EF [gpm]		State EF [gpm]						
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT (76%)	VMT (24%)	Ramp VMT	VOC	NO_x
Davidson Co.	6	39.2	0.190	0.123	0.196	0.132	204,290	64,513		0.06	0.04
	7	39.5	0.190	0.130	0.196	0.139	51,319	16,206		0.01	0.01
	8	38.3	0.192	0.130	0.198	0.138	219,316	69,258		0.06	0.04
	11	47.9	0.176	0.166	0.181	0.174	8,770,910	2,769,761	519,124	2.36	2.23
	12	48.7	0.184	0.133	0.190	0.142	1,469,711	464,119	519,124	0.50	0.37
	14	36.4	0.191	0.119	0.197	0.128	4,622,311	1,459,677		1.29	0.81
	16	35.4	0.193	0.119	0.199	0.128	3,767,633	1,189,779		1.06	0.66
	17	33.6	0.194	0.117	0.201	0.126	928,998	293,368		0.26	0.16
	Local	12.9	0.321	0.120	0.331	0.129	1,432,782	452,458		0.67	0.25
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Rutherford Co.	1	56.0	n/a	n/a	0.183	0.255	909,335		49,013	0.19	0.27
	2	49.9			0.183	0.155	805,723			0.16	0.14
	3	53.1			0.184	0.243	938,174		49,013	0.20	0.26
	6	43.0			0.191	0.147	378,548			0.08	0.06
	7	40.5			0.195	0.133	616,166			0.13	0.09
	8	39.2			0.196	0.132	893,510			0.19	0.13
	11	52.9			0.175	0.205	2,700,553		49,013	0.53	0.62
	14	42.7			0.188	0.133	1,413,451			0.29	0.21
	16	40.6			0.191	0.131	878,816			0.19	0.13
	17	35.6			0.197	0.126	364,627			0.08	0.05
	Local	12.9			0.331	0.129	966,888			0.35	0.14
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Sumner Co.	1	60.3	n/a	n/a	0.172	0.233	955,885		35,899	0.19	0.25
	2	44.7			0.189	0.136	300,874			0.06	0.05
	6	43.3			0.191	0.135	643,962			0.14	0.10
	7	39.5			0.196	0.129	228,963			0.05	0.03
	8	40.0			0.195	0.129	296,408			0.06	0.04
	12	49.6			0.183	0.136	551,670		35,899	0.12	0.09
	14	43.0			0.188	0.135	1,215,785			0.25	0.18
	16	40.1			0.192	0.132	470,766			0.10	0.07
	17	37.2			0.194	0.124	437,920			0.09	0.06
	Local	12.9			0.331	0.129	595,835			0.22	0.08
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Williamson Co.	1	54.7	n/a	n/a	0.184	0.243	1,238,343		68,631	0.27	0.35
	3	54.0			0.183	0.241	1,893,767		68,631	0.40	0.52
	6	40.2			0.195	0.139	1,689,253			0.36	0.26
	7	38.5			0.197	0.130	538,502			0.12	0.08
	8	38.9			0.197	0.130	1,192,465			0.26	0.17
	10	40.7			0.194	0.131	75,496			0.02	0.01
	11	46.0			0.183	0.162	2,454,724		68,631	0.51	0.45
	14	40.3			0.192	0.131	763,365			0.16	0.11
	16	35.8			0.199	0.129	696,950			0.15	0.10
	17	34.6			0.199	0.125	402,149			0.09	0.06
	Local	12.9			0.331	0.129	781,857			0.29	0.11
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Wilson Co.	1	62.3	n/a	n/a	0.182	0.317	945,516		32,078	0.20	0.34
	2	39.1			0.197	0.141	107,328			0.02	0.02
	3	56.2			0.184	0.270	358,461		32,078	0.08	0.12
	6	44.1			0.189	0.145	796,490			0.17	0.13
	7	41.2			0.193	0.130	398,386			0.08	0.06
	8	40.0			0.195	0.129	464,985			0.10	0.07
	11	57.8			0.172	0.241	1,595,064		32,078	0.31	0.43
	14	42.0			0.189	0.133	500,618			0.10	0.07
	16	40.0			0.192	0.132	309,834			0.07	0.05
	17	35.8			0.197	0.124	222,152			0.05	0.03
	Local	12.9			0.331	0.129	468,654			0.17	0.07

Total Region Emissions: ***13.92*** ***11.21***

Summer VMT: ***64,637,759***

• What impediments exist to implementing SCNP, and how long would it take to implement it;

• What impact SCNP would have on other current demand response programs.

III. *Establishment of LAP Zones for Wholesale Customers:* Discussion of issues and potential impacts of allowing individual wholesale customers to establish their own LAP zones.[3]

IV. *Demand Response and the CAISO Tariff:* Overview of California's demand response policies and programs by the State agencies. Participants will have the opportunity to discuss, among other things:

• How successful demand response has been this summer;

• How demand response fits into CAISO's current and MRTU tariff;

• What is/is not working with respect to demand response;

• The role of the CAISO in procuring demand response;

• The coordination among all players in demand response.

[FR Doc. E5–5065 Filed 9–15–05; 8:45 am]

BILLING CODE 6717–01–P

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Docket No. RP05–422–000]

El Paso Natural Gas Company; Technical Conference Agenda

September 9, 2005.

On July 29, 2005, the Commission issued an order in this proceeding[1] that directed Staff to convene a technical conference to discuss issues raised by El Paso's tariff filing. On August 11, 2005, a notice was issued scheduling the technical conference for Tuesday, September 20, 2005 and continuing through Wednesday, September 21, 2005. The August 11, 2005 notice stated that an agenda for the conference would be issued in a subsequent notice. The agenda attached to this notice lists the issues for discussion in the order in which they will be addressed at the two-day technical conference. The conference on Tuesday, September 20, 2005 will start at 10 a.m. (EST) and end by 5 p.m. and continue on Wednesday, September 21, 2005 at 9 a.m.

Magalie R. Salas,

Secretary.

[FR Doc. E5–5060 Filed 9–15–05; 8:45 am]

BILLING CODE 6717–01–P

[3] July 1 Order, 112 FERC ¶ 61,013 at P 37.

[1] 112 FERC ¶ 61,150 (2005).

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Docket No. AD05–14–000]

State of the Natural Gas Infrastructure Conference; Notice of Public Conference

September 9, 2005.

Take notice that a public conference will be held on October 12, 2005, from approximately 9 a.m. until 3 p.m. Eastern Time, in the Commission Meeting Room on the second floor of the offices of the Federal Energy Regulatory Commission, 888 First Street, NE., Washington, DC. All interested persons may attend; there is no fee or registration. Commissioners are expected to participate.

The conference will focus on issues related to the development of natural gas pipeline infrastructure. Discussion will include changes in the industry that impact infrastructure development, regulatory impediments, financial risks involved, and suggestions for regulatory improvements. The Commission also is interested in hearing about the state of Gulf Coast facilities following Hurricane Katrina, and what steps may need to be taken to restore or upgrade pipeline infrastructure in that region.

The Commission is now soliciting nominations for speakers at the conference. Persons wishing to nominate themselves as speakers should do so using this electronic link: *https://www.ferc.gov/whats-new/registration/speaker-1012-form.asp.* Such nominations must be made by close of business, Friday, September 16, 2005, to enable staff to develop an agenda.

Transcripts of the conference will be immediately available from Ace Reporting Company (202–347–3700 or 1–800–336–6646) for a fee. They will be available for the public on the Commission's eLibrary system seven calendar days after FERC receives the transcript. Additionally, Capitol Connection offers the opportunity for remote listening and viewing of the conference. It is available for a fee, live over the Internet, by phone, or via satellite. Persons interested in receiving the broadcast, or who need information on making arrangements should contact David Reininger or Julia Morelli at the Capitol Connection (703–993–3100) as soon as possible or visit the Capitol Connection Web site at *http://www.capitolconnection.gmu.edu* and click on ''FERC.''

FERC conferences are accessible under section 508 of the Rehabilitation Act of 1973. For accessibility accommodations please send an e-mail to *accessibility@ferc.gov* or call toll free 866–208–3372 (voice) or 202–208–1659 (TTY), or send a FAX to 202–208–2106 with the required accommodations.

Additional details and the agenda for this conference will be included in a subsequent notice.

For more information about the conference, please contact John Schnagl at (202) 502–8756 (*john.schnagl@ferc.gov*) or Sarah McKinley at (202) 502–8004 (*sarah.mckinley@ferc.gov*).

Magalie R. Salas,

Secretary.

[FR Doc. E5–5062 Filed 9–15–05; 8:45 am]

BILLING CODE 6717–01–P

ENVIRONMENTAL PROTECTION AGENCY

[R04–OAR–2005–TN–00006–200525; FRL–7970–1]

Adequacy Status of the Nashville 1-Hour Ozone Maintenance Plan Update for Transportation Conformity Purposes

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of adequacy.

SUMMARY: In this notice, EPA is notifying the public that we have found that the motor vehicle emissions budgets (MVEBs) submitted in the Nashville (Middle Tennessee) 1-hour ozone maintenance plan update, dated August 10, 2005, by the Tennessee Department of Environment and Conservation (TDEC), are adequate for transportation conformity purposes. On March 2, 1999, the DC Circuit Court ruled that MVEBs submitted in state implementation plans (SIPs) cannot be used for transportation conformity determinations until EPA has affirmatively found them adequate. As a result of EPA's finding, the Nashville area can use the MVEBs from the submitted Nashville 1-hour ozone maintenance plan update for future conformity determinations.

DATES: These MVEBs are effective October 3, 2005.

FOR FURTHER INFORMATION CONTACT: Amanetta Wood, Environmental Scientist, U.S. Environmental Protection Agency, Region 4, Air Planning Branch, Air Quality Modeling and Transportation Section, 61 Forsyth Street, SW., Atlanta, Georgia 30303. Ms. Wood can also be reached by telephone at (404) 562–9025, or via electronic mail

at *wood.amanetta@epa.gov*. The finding is available at EPA's conformity Web site: *http://www.epa.gov/otaq/transp.htm* (once there, click on the ''Transportation Conformity'' text icon, then look for ''Adequacy Review of SIP Submissions'').

SUPPLEMENTARY INFORMATION:

Background

Today's notice is simply an announcement of a finding that EPA has already made. EPA Region 4 sent a letter to TDEC on August 16, 2005, stating that the MVEBs submitted in the Nashville 1-hour ozone maintenance plan update dated August 10, 2005, are adequate. EPA's adequacy comment period ran from June 9 through July 11, 2005. This finding has also been announced on EPA's conformity Web site: *http://www.epa.gov/otaq/transp.htm*, (once there, click ''Transportation Conformity'' text icon, then look for ''Adequacy Review of SIP Submissions''). The adequate MVEBs are provided in the following table:

NASHVILLE AREA MVEBS

[Tons per day]

	2016
VOC	21.93
NO_X	45.76

Transportation conformity is required by section 176 (c) of the Clean Air Act. EPA's conformity rule requires that transportation plans, programs and projects conform to state air quality implementation plans and establishes the criteria and procedures for determining whether or not they do. Conformity to a SIP means that transportation activities will not produce new air quality violations, worsen existing violations, or delay timely attainment of the national ambient air quality standards.

The criteria by which EPA determines whether a SIP's MVEBs are adequate for transportation conformity purposes are outlined in 40 CFR 93.118(e)(4). Please note that an adequacy review is separate from EPA's SIP submittal completeness review, and it also should not be used to prejudge EPA's ultimate approval of the SIP. Even if EPA finds the MVEBs adequate, the Agency may later determine that the SIP itself is not approvable.

EPA has described the process for determining the adequacy of submitted SIP budgets in guidance (May 14, 1999 memorandum entitled ''Conformity Guidance on Implementation of March 2, 1999 Conformity Court Decision''). EPA has followed this guidance in making this adequacy determination. This guidance is incorporated into EPA's July 1, 2004, final rulemaking entitled ''Transportation Conformity Rule Amendments for the New 8-hour Ozone and $PM_{2.5}$ National Ambient Air Quality Standards and Miscellaneous Revisions for Existing Areas; Transportation Conformity Rule Amendments: Response to Court Decision and Additional Rule Changes'' (69 FR 40004).

Dated: September 1, 2005.

A. Stanley Meiburg,

Acting Regional Administrator, Region 4.

[FR Doc. 05–18424 Filed 9–15–05; 8:45 am]

BILLING CODE 6560–50–P

ENVIRONMENTAL PROTECTION AGENCY

[ER–FRL–6667–5]

Environmental Impact Statements and Regulations; Availability of EPA Comments

Availability of EPA comments prepared pursuant to the Environmental Review Process (ERP), under section 309 of the Clean Air Act and Section 102(2)(c) of the National Environmental Policy Act as amended. Requests for copies of EPA comments can be directed to the Office of Federal Activities at 202–564–7167.

An explanation of the ratings assigned to draft environmental impact statements (EISs) was published in FR dated April 1, 2005 (70 FR 16815).

Draft EISs

EIS No. 20050202, ERP No. D-CGD-A03086–00, Programmatic—Vessel and Facility Response Plans for Oil: 2003 Removal Equipment Requirements and Alternative Technology Revisions, To Increase the Oil Removal Capability, U.S. Exclusive Economic Zone (EEZ), United States, Alaska, Guam, Puerto Rico and other U.S. Territories.

Summary: EPA expressed concerns related to the synergistic effects of chemical dispersants with oil on water quality and organisms within the water column, spill modeling, and model limitations for the fate and effect of chemically dispersed oil.

Rating EC2

EIS No. 20050235, ERP No. D–NPS–F65057–IN, Lincoln Boyhood National Memorial General Management Plan, Implementation, Lincoln City, Spencer County, IN.

Summary: EPA has no objections to the proposed action.

Rating LO

EIS No. 20050266, ERP No. D–DOE–A00171–00, Proposed Consolidation of Nuclear Operations Related to Production of radioisotope Power Systems, Located or Planned Sites: Oak Ridge National Laboratory (ORNL), Tennessee; Los Alamos National Laboratory (LANL), New Mexico; and the Idaho National Laboratory (INL), Idaho, TN, NM, ID.

Summary: EPA has no objections to the proposed action.

Rating LO

EIS No. 20050310, ERP No. D–JUS–G81013–TX, Laredo Detention Facility, Proposed Contractor-Owned/Contractor-Operated Detention Facility, Implementation, Webb County, TX.

Summary: EPA has no objections to the proposed action.

Rating LO

EIS No. 20050300, ERP No. DS–NOA–E55555–00, Reef Fish (Amendment 25) and Coastal Migratory Pelagic (Amendment 17) for Extending the Charter Vessel/Headboat Permit Moratorium, Gulf of Mexico and South Atlantic.

Summary: EPA agrees with the extension of the permit moratorium, but recommended that any available moratorium data be evaluated and summarized in the FSEIS as part of the decision-making process.

Rating LO

Final EISs

EIS No. 20050270, ERP No. F–NRC–E06024–AL, Generic—License Renewal of Nuclear Plants for Browns Ferry, Unit 1, 2 and 33 (TAC Nos. MC7168, MC1769, and MC1770), Supplement 21 to NUREG–1437, Implementation, Athens, AL.

Summary: EPA expressed environmental concerns because of the uncertainty of the ultimate location of a permitted repository site for the radioactive waste.

EIS No. 20050317, ERP No. F–NAS–E12007–FL, New Horizons Mission to Pluto, Continued Preparations and Implementation to Explore Pluto and Potentially the Recently Discovered Kuiper Belt, Cape Canaveral Air Force Station, FL.

Summary: EPA's previous issues have been resolved therefore, EPA has no objection to the proposed action.

EIS No. 20050334, ERP No. F–DOE–J91000–MT, South Fork Flathead Watershed Westslope Cutthroat Trout Conservation Program, Preserve the

APPENDIX C

MOBILE6 INPUT FILES

2002 Davidson County (Metro I/M)

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MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2002_out\02_DAVM.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_DavM.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\02Metro.IM
ANTI-TAMP PROG     :
95 75 30 22222 11111111 1 11 98.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 52.1 Freeway 95.5 0 0 4.5
VMT FRACTIONS      :
0.659 0.033 0.11 0.0226 0.0104 0.0527 0.0052 0.0041
0.0031 0.0116 0.0137 0.0151 0.0536 0.0027 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 45.1 Freeway 69.1 0 0 30.9
VMT FRACTIONS      :
0.74 0.037 0.123 0.0253 0.0117 0.0194 0.0019 0.0015
0.0011 0.0043 0.0051 0.0055 0.0197 0.001 0.0005 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.6 Arterial
VMT FRACTIONS      :
0.7531 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.7 Arterial
VMT FRACTIONS      :
0.7531 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.4 Arterial
VMT FRACTIONS      :
0.7531 0.0377 0.1253 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.7 Arterial
VMT FRACTIONS      :
0.7529 0.0377 0.1253 0.026 0.012 0.0133 0.0013 0.001
0.0008 0.0029 0.0035 0.0038 0.0135 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
```

```
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.4 Arterial
VMT FRACTIONS      :
0.7199 0.0358 0.1192 0.0247 0.0113 0.0272 0.0027 0.0021
0.0016 0.006 0.0071 0.0078 0.0276 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.4 Arterial
VMT FRACTIONS      :
0.7199 0.0358 0.1192 0.0247 0.0113 0.0272 0.0027 0.0021
0.0016 0.006 0.0071 0.0078 0.0276 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2002 Davidson County (State I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2002_out\02_DAVS.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_DavS.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\02State.IM
ANTI-TAMP PROG     :
95 75 30 22222 11111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 52.1 Freeway 95.5 0 0 4.5
VMT FRACTIONS      :
0.659 0.033 0.11 0.0226 0.0104 0.0527 0.0052 0.0041
0.0031 0.0116 0.0137 0.0151 0.0536 0.0027 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 45.1 Freeway 69.1 0 0 30.9
VMT FRACTIONS      :
0.74 0.037 0.123 0.0253 0.0117 0.0194 0.0019 0.0015
0.0011 0.0043 0.0051 0.0055 0.0197 0.001 0.0005 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.6 Arterial
VMT FRACTIONS      :
0.7531 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.7 Arterial
VMT FRACTIONS      :
0.7531 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.4 Arterial
VMT FRACTIONS      :
0.7531 0.0377 0.1253 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.7 Arterial
VMT FRACTIONS      :
0.7529 0.0377 0.1253 0.026 0.012 0.0133 0.0013 0.001
0.0008 0.0029 0.0035 0.0038 0.0135 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
```

```
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.4 Arterial
VMT FRACTIONS      :
0.7199 0.0358 0.1192 0.0247 0.0113 0.0272 0.0027 0.0021
0.0016 0.006 0.0071 0.0078 0.0276 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.4 Arterial
VMT FRACTIONS      :
0.7199 0.0358 0.1192 0.0247 0.0113 0.0272 0.0027 0.0021
0.0016 0.006 0.0071 0.0078 0.0276 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2002 Rutherford County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2002_out\02_RUTS.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_RutS.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\02State.IM
ANTI-TAMP PROG     :
95 75 30 22222 11111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 61.8 Freeway 94.5 0 0 5.5
VMT FRACTIONS      :
0.5958 0.0298 0.0992 0.0206 0.0095 0.0767 0.0076 0.0059
0.0045 0.0168 0.02 0.0219 0.078 0.0039 0.0018 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 50.6 Arterial
VMT FRACTIONS      :
0.7171 0.0358 0.1192 0.0247 0.0113 0.0281 0.0028 0.0022
0.0016 0.0062 0.0073 0.008 0.0286 0.0014 0.0007 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 56.5 Freeway 93.2 0 0 6.8
VMT FRACTIONS      :
0.5958 0.0298 0.0992 0.0206 0.0095 0.0767 0.0076 0.0059
0.0045 0.0168 0.02 0.0219 0.078 0.0039 0.0018 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.4 Arterial
VMT FRACTIONS      :
0.7171 0.0358 0.1192 0.0247 0.0113 0.0281 0.0028 0.0022
0.0016 0.0062 0.0073 0.008 0.0286 0.0014 0.0007 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.3 Arterial
VMT FRACTIONS      :
0.758 0.0379 0.1261 0.026 0.012 0.0123 0.0012 0.001
0.0007 0.0027 0.0032 0.0035 0.0125 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.7 Arterial
VMT FRACTIONS      :
0.7481 0.0372 0.1238 0.026 0.012 0.0155 0.0015 0.0012
0.0009 0.0034 0.004 0.0044 0.0158 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
```

```
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 57.5 Freeway 98.3 0 0 1.7
VMT FRACTIONS      :
0.6539 0.0326 0.1084 0.0226 0.0104 0.055 0.0055 0.0043
0.0032 0.0121 0.0143 0.0157 0.0559 0.0028 0.0013 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.5 Arterial
VMT FRACTIONS      :
0.728 0.0363 0.1207 0.0253 0.0117 0.0243 0.0024 0.0019
0.0014 0.0053 0.0063 0.0069 0.0247 0.0012 0.0006 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.8 Arterial
VMT FRACTIONS      :
0.728 0.0363 0.1207 0.0253 0.0117 0.0243 0.0024 0.0019
0.0014 0.0053 0.0063 0.0069 0.0247 0.0012 0.0006 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.5 Arterial
VMT FRACTIONS      :
0.758 0.0379 0.1261 0.026 0.012 0.0123 0.0012 0.001
0.0007 0.0027 0.0032 0.0035 0.0125 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2002 Sumner County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2002_out\02_SUMS.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_SumS.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\02State.IM
ANTI-TAMP PROG     :
95 75 30 22222 11111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 57.5 Freeway 94.8 0 0 5.2
VMT FRACTIONS      :
0.617 0.031 0.103 0.0212 0.0098 0.0679 0.0067 0.0053
0.004 0.0149 0.0177 0.0194 0.0691 0.0034 0.0016 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 46 Arterial
VMT FRACTIONS      :
0.7511 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.5 Arterial
VMT FRACTIONS      :
0.7511 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.7 Arterial
VMT FRACTIONS      :
0.758 0.0379 0.1261 0.026 0.012 0.0123 0.0012 0.001
0.0007 0.0027 0.0032 0.0035 0.0125 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.3 Arterial
VMT FRACTIONS      :
0.756 0.0377 0.1253 0.026 0.012 0.0123 0.0012 0.001
0.0007 0.0027 0.0032 0.0035 0.0125 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 51.3 Freeway 92.6 0 0 7.4
VMT FRACTIONS      :
0.7559 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.001
0.0008 0.0028 0.0034 0.0037 0.0132 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 14- Urban Arterial
```

```
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.1 Arterial
VMT FRACTIONS      :
0.748 0.0372 0.1238 0.026 0.012 0.0162 0.0016 0.0013
0.0009 0.0035 0.0042 0.0046 0.0165 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.6 Arterial
VMT FRACTIONS      :
0.748 0.0372 0.1238 0.026 0.012 0.0162 0.0016 0.0013
0.0009 0.0035 0.0042 0.0046 0.0165 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.4 Arterial

*      *** Scenario #10 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2002 Williamson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2002_out\02_WLMS.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_WlmS.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\02State.IM
ANTI-TAMP PROG     :
95 75 30 22222 11111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 59.8 Freeway 94.1 0 0 5.9
VMT FRACTIONS      :
0.585 0.0293 0.0977 0.0199 0.0091 0.0812 0.0081 0.0063
0.0047 0.0178 0.0211 0.0232 0.0826 0.0041 0.0019 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 54.2 Freeway 85.6 0 0 14.4
VMT FRACTIONS      :
0.585 0.0293 0.0977 0.0199 0.0091 0.0812 0.0081 0.0063
0.0047 0.0178 0.0211 0.0232 0.0826 0.0041 0.0019 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.3 Arterial
VMT FRACTIONS      :
0.7339 0.0365 0.1215 0.0253 0.0117 0.0214 0.0021 0.0017
0.0012 0.0047 0.0056 0.0061 0.0217 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.6 Arterial
VMT FRACTIONS      :
0.7529 0.0377 0.1253 0.026 0.012 0.0133 0.0013 0.001
0.0008 0.0029 0.0035 0.0038 0.0135 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.3 Arterial
VMT FRACTIONS      :
0.7529 0.0377 0.1253 0.026 0.012 0.0133 0.0013 0.001
0.0008 0.0029 0.0035 0.0038 0.0135 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 10- National Park
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.1 Arterial
VMT FRACTIONS      :
0.7529 0.0377 0.1253 0.026 0.012 0.0133 0.0013 0.001
0.0008 0.0029 0.0035 0.0038 0.0135 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
```

```
CALENDAR YEAR      : 2002

EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 54.2 Freeway 96.6 0 0 3.4
VMT FRACTIONS      :
0.6919 0.0347 0.1154 0.024 0.011 0.0391 0.0039 0.003
0.0023 0.0086 0.0112 0.0102 0.0398 0.002 0.0009 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.2 Arterial
VMT FRACTIONS      :
0.7531 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.7 Arterial
VMT FRACTIONS      :
0.7531 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0031 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.4 Arterial
VMT FRACTIONS      :
0.759 0.0379 0.1261 0.026 0.012 0.012 0.0012 0.0009
0.0007 0.0026 0.0031 0.0034 0.0122 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2002 Wilson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2002_out\02_WLSS.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_WlsS.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\02State.IM
ANTI-TAMP PROG     :
95 75 30 22222 11111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 63.4 Freeway 96.5 0 0 3.5
VMT FRACTIONS      :
0.5479 0.027 0.09 0.0185 0.0085 0.0971 0.0096 0.0075
0.0057 0.0213 0.0253 0.0277 0.0987 0.0049 0.0023 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.6 Arterial
VMT FRACTIONS      :
0.727 0.0363 0.1207 0.0247 0.0113 0.0243 0.0024 0.0019
0.0014 0.0053 0.0063 0.0069 0.0247 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 56.4 Freeway 91.6 0 0 8.4
VMT FRACTIONS      :
0.5479 0.027 0.09 0.0185 0.0085 0.0971 0.0096 0.0075
0.0057 0.0213 0.0253 0.0277 0.0987 0.0049 0.0023 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.1 Arterial
VMT FRACTIONS      :
0.727 0.0363 0.1207 0.0247 0.0113 0.0243 0.0024 0.0019
0.0014 0.0053 0.0063 0.0069 0.0247 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.012 0.0012 0.0009
0.0007 0.0026 0.0031 0.0034 0.0122 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.012 0.0012 0.0009
0.0007 0.0026 0.0031 0.0034 0.0122 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
```

```
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 59.6 Freeway 98.4 0 0 1.6
VMT FRACTIONS      :
0.5979 0.0298 0.0992 0.0206 0.0095 0.078 0.0077 0.006
0.0046 0.0171 0.0203 0.0223 0.0793 0.0039 0.0018 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.1 Arterial
VMT FRACTIONS      :
0.748 0.0372 0.1238 0.026 0.012 0.0162 0.0016 0.0013
0.0009 0.0035 0.0042 0.0046 0.0165 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.6 Arterial
VMT FRACTIONS      :
0.748 0.0372 0.1238 0.026 0.012 0.0162 0.0016 0.0013
0.0009 0.0035 0.0042 0.0046 0.0165 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.7 Arterial
VMT FRACTIONS      :
0.76 0.0379 0.1261 0.026 0.012 0.0116 0.0012 0.0009
0.0007 0.0026 0.003 0.0033 0.0118 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2002
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2006 Davidson County (Metro I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2006_out\06_DavM.out R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2006\06_DavM.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05Metro.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 98.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 51 Freeway 95.6 0 0 4.4
VMT FRACTIONS      :
0.667 0.0333 0.1107 0.0226 0.0104 0.0496 0.0049 0.004
0.003 0.011 0.013 0.0142 0.0506 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 45 Freeway 70.4 0 0 29.6
VMT FRACTIONS      :
0.745 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014
0.001 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.8 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0032 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.3 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0032 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.2 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.001
0.0008 0.0029 0.0034 0.0037 0.0131 0.0007 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.4 Arterial
VMT FRACTIONS      :
0.75 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0042 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
```

```
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.2 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0216 0.0021 0.0017
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.3 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0216 0.0021 0.0017
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2006 Davidson County (State I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2006_out\06_DavS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : P:\MPO\AirQ\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 51 Freeway 95.6 0 0 4.4
VMT FRACTIONS      :
0.667 0.0333 0.1107 0.0226 0.0104 0.0496 0.0049 0.004
0.003 0.011 0.013 0.0142 0.0506 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 45 Freeway 70.4 0 0 29.6
VMT FRACTIONS      :
0.745 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014
0.001 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.8 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0032 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.3 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0011
0.0008 0.0032 0.0037 0.0041 0.0145 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.2 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.001
0.0008 0.0029 0.0034 0.0037 0.0131 0.0007 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.4 Arterial
VMT FRACTIONS      :
0.75 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0042 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 42.2 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0216 0.0021 0.0017
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.3 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0216 0.0021 0.0017
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2006 Rutherford County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2006_out\06_RutS.out R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : P:\MPO\AirQ\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 60.9 Freeway 93.5 0 0 6.5
VMT FRACTIONS      :
0.5631 0.028 0.093 0.0192 0.0088 0.0902 0.0089 0.0072
0.0054 0.02 0.0237 0.0258 0.092 0.0046 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 50.9 Arterial
VMT FRACTIONS      :
0.718 0.0358 0.1192 0.0247 0.0113 0.0277 0.0027 0.0022
0.0017 0.0062 0.0073 0.0079 0.0283 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 56 Freeway 93.1 0 0 6.9
VMT FRACTIONS      :
0.5631 0.028 0.093 0.0192 0.0088 0.0902 0.0089 0.0072
0.0054 0.02 0.0237 0.0258 0.092 0.0046 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.3 Arterial
VMT FRACTIONS      :
0.718 0.0358 0.1192 0.0247 0.0113 0.0277 0.0027 0.0022
0.0017 0.0062 0.0073 0.0079 0.0283 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.6 Arterial
VMT FRACTIONS      :
0.748 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0012
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.3 Arterial
VMT FRACTIONS      :
0.748 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0012
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 56.9 Freeway 98.1 0 0 1.9
VMT FRACTIONS      :
0.6261 0.0312 0.1038 0.0212 0.0098 0.0664 0.0065 0.0053
0.004 0.0147 0.0174 0.019 0.0677 0.0034 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.4 Arterial
VMT FRACTIONS      :
0.75 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0012
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.8 Arterial
VMT FRACTIONS      :
0.75 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0012
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.2 Arterial
VMT FRACTIONS      :
0.755 0.0377 0.1253 0.026 0.012 0.0135 0.0013 0.0011
0.0008 0.003 0.0036 0.0039 0.0138 0.0007 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2006 Sumner County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2006_out\06_SumS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : P:\MPO\AirQ\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 56.2 Freeway 94.3 0 0 5.7
VMT FRACTIONS      :
0.627 0.0312 0.1038 0.0212 0.0098 0.066 0.0065 0.0053
0.004 0.0147 0.0174 0.0189 0.0674 0.0033 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 46 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.3 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42 Arterial
VMT FRACTIONS      :
0.7581 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.0009
0.0007 0.0026 0.003 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.2 Arterial
VMT FRACTIONS      :
0.7581 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.0009
0.0007 0.0026 0.003 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 50.7 Freeway 92.4 0 0 7.6
VMT FRACTIONS      :
0.7559 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.001
0.0008 0.0029 0.0034 0.0037 0.0131 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 43.8 Arterial
VMT FRACTIONS      :
0.7459 0.0372 0.1238 0.0253 0.0117 0.0171 0.0017 0.0014
0.001 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.8 Arterial
VMT FRACTIONS      :
0.7459 0.0372 0.1238 0.0253 0.0117 0.0171 0.0017 0.0014
0.001 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.9 Arterial
VMT FRACTIONS      :
0.7631 0.0381 0.1269 0.026 0.012 0.0103 0.001 0.0008
0.0006 0.0023 0.0027 0.003 0.0105 0.0005 0.0002 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2006 Williamson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2006_out\06_WlmS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : P:\MPO\AirQ\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 58.1 Freeway 93.1 0 0 6.9
VMT FRACTIONS      :
0.5719 0.0286 0.0954 0.0199 0.0091 0.086 0.0085 0.0069
0.0052 0.0191 0.0226 0.0246 0.0878 0.0044 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 54.4 Freeway 88.5 0 0 11.5
VMT FRACTIONS      :
0.5719 0.0286 0.0954 0.0199 0.0091 0.086 0.0085 0.0069
0.0052 0.0191 0.0226 0.0246 0.0878 0.0044 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.1 Arterial
VMT FRACTIONS      :
0.7338 0.0367 0.1223 0.0253 0.0117 0.0209 0.0021 0.0017
0.0013 0.0047 0.0055 0.006 0.0214 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.9 Arterial
VMT FRACTIONS      :
0.7529 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0135 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.6 Arterial
VMT FRACTIONS      :
0.7529 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0135 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 10- National Park
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.3 Arterial
VMT FRACTIONS      :
0.7529 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0135 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 52.1 Freeway 96 0 0 4
VMT FRACTIONS      :
0.6879 0.0342 0.1138 0.0233 0.0107 0.0412 0.0041 0.0033
0.0025 0.0092 0.0108 0.0118 0.0421 0.0021 0.001 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.6 Arterial
VMT FRACTIONS      :
0.749 0.0374 0.1246 0.026 0.012 0.0155 0.0015 0.0012
0.0009 0.0034 0.0041 0.0044 0.0158 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt


*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.5 Arterial
VMT FRACTIONS      :
0.749 0.0374 0.1246 0.026 0.012 0.0155 0.0015 0.0012
0.0009 0.0034 0.0041 0.0044 0.0158 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.8 Arterial
VMT FRACTIONS      :
0.7581 0.0379 0.1261 0.026 0.012 0.0122 0.0012 0.001
0.0007 0.0027 0.0032 0.0035 0.0125 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2006 Wilson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2006_out\06_WlsS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : P:\MPO\AirQ\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 62.9 Freeway 95.7 0 0 4.3
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.1011 0.01 0.0081
0.0061 0.0225 0.0266 0.029 0.1032 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.5 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0242 0.0024 0.0019
0.0014 0.0054 0.0064 0.0069 0.0247 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 54.6 Freeway 91 0 0 9
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.1011 0.01 0.0081
0.0061 0.0225 0.0266 0.029 0.1032 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.8 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0242 0.0024 0.0019
0.0014 0.0054 0.0064 0.0069 0.0247 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.5 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0026 0.0031 0.0034 0.0122 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.4 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0026 0.0031 0.0034 0.0122 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 58.8 Freeway 98.1 0 0 1.9
VMT FRACTIONS      :
0.5959 0.0298 0.0992 0.0206 0.0095 0.0783 0.0077 0.0062
0.0047 0.0174 0.0206 0.0224 0.0799 0.004 0.0018 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.5 Arterial
VMT FRACTIONS      :
0.7472 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0013
0.001 0.0037 0.0044 0.0048 0.0171 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt


*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.4 Arterial
VMT FRACTIONS      :
0.7472 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0013
0.001 0.0037 0.0044 0.0048 0.0171 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.7 Arterial
VMT FRACTIONS      :
0.7601 0.0379 0.1261 0.026 0.012 0.0116 0.0011 0.0009
0.0007 0.0026 0.003 0.0033 0.0118 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2016 Davidson County (Metro I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2016_out\16_DavM.out R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05Metro.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 98.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1

AVERAGE SPEED      : 49.8 Freeway 95.4 0 0 4.6
VMT FRACTIONS      :
0.6669 0.0333 0.1107 0.0226 0.0104 0.0495 0.0049 0.0041
0.003 0.0111 0.0131 0.0142 0.0505 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.8 Freeway 69.7 0 0 30.3
VMT FRACTIONS      :
0.7449 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014
0.0011 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.3 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0141 0.0014 0.0012
0.0009 0.0032 0.0037 0.0041 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.1 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0141 0.0014 0.0012
0.0009 0.0032 0.0037 0.0041 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.9 Arterial
VMT FRACTIONS      :
0.7501 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0041 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2016
```

```
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.1 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2016 Davidson County (State I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2016_out\16_DavS.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2016\16_DavS.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 49.8 Freeway 95.4 0 0 4.6
VMT FRACTIONS      :
0.6669 0.0333 0.1107 0.0226 0.0104 0.0495 0.0049 0.0041
0.003 0.0111 0.0131 0.0142 0.0505 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.8 Freeway 69.7 0 0 30.3
VMT FRACTIONS      :
0.7449 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014
0.0011 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.3 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0141 0.0014 0.0012
0.0009 0.0032 0.0037 0.0041 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.1 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0141 0.0014 0.0012
0.0009 0.0032 0.0037 0.0041 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.002

VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.9 Arterial
VMT FRACTIONS      :
0.7501 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0041 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
```

```
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.1 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2016 Rutherford County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2016_out\16_RutS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 58.2 Freeway 93.8 0 0 6.2
VMT FRACTIONS      :
0.5633 0.028 0.093 0.0192 0.0088 0.09 0.0088 0.0074
0.0055 0.0201 0.0237 0.0258 0.0918 0.0045 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***

SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 51.2 Arterial
VMT FRACTIONS      :
0.7181 0.0358 0.1192 0.0247 0.0113 0.0276 0.0027 0.0023
0.0017 0.0062 0.0073 0.0079 0.0282 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 54.3 Freeway 94.2 0 0 5.8
VMT FRACTIONS      :
0.5633 0.028 0.093 0.0192 0.0088 0.09 0.0088 0.0074
0.0055 0.0201 0.0237 0.0258 0.0918 0.0045 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43 Arterial
VMT FRACTIONS      :
0.7181 0.0358 0.1192 0.0247 0.0113 0.0276 0.0027 0.0023
0.0017 0.0062 0.0073 0.0079 0.0282 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.5 Arterial
VMT FRACTIONS      :
0.7479 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.7 Arterial
VMT FRACTIONS      :
0.7479 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2016
```

```
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 55.1 Freeway 98 0 0 2
VMT FRACTIONS      :
0.6261 0.0312 0.1038 0.0212 0.0098 0.0662 0.0065 0.0055
0.0041 0.0148 0.0175 0.019 0.0675 0.0033 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.8 Arterial
VMT FRACTIONS      :
0.7499 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.2 Arterial
VMT FRACTIONS      :
0.7499 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.1 Arterial
VMT FRACTIONS      :
0.755 0.0377 0.1253 0.026 0.012 0.0135 0.0013 0.0011
0.0008 0.003 0.0036 0.0039 0.0138 0.0007 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2016 Sumner County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2016_out\16_SumS.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2016\16_SumS.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 53.1 Freeway 93.9 0 0 6.1
VMT FRACTIONS      :
0.627 0.0312 0.1038 0.0212 0.0098 0.0659 0.0065 0.0055
0.0041 0.0147 0.0174 0.0189 0.0672 0.0033 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.5 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.5 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.4 Arterial

VMT FRACTIONS      :
0.7579 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.8 Arterial
VMT FRACTIONS      :
0.7579 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 51 Freeway 93.6 0 0 6.4
VMT FRACTIONS      :
0.7559 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #7 ***
```

```
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.1 Arterial
VMT FRACTIONS      :
0.746 0.0372 0.1238 0.0253 0.0117 0.017 0.0017 0.0014
0.001 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.2 Arterial
VMT FRACTIONS      :
0.746 0.0372 0.1238 0.0253 0.0117 0.017 0.0017 0.0014
0.001 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.7 Arterial
VMT FRACTIONS      :
0.7631 0.0381 0.1269 0.026 0.012 0.0103 0.001 0.0009
0.0006 0.0023 0.0027 0.0029 0.0105 0.0005 0.0002 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2016 Williamson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2016_out\16_WlmS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 57.6 Freeway 93.5 0 0 6.5
VMT FRACTIONS      :
0.5722 0.0286 0.0954 0.0199 0.0091 0.0858 0.0084 0.0071
0.0053 0.0192 0.0226 0.0246 0.0875 0.0043 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 55.4 Freeway 95.6 0 0 4.4
VMT FRACTIONS      :
0.5722 0.0286 0.0954 0.0199 0.0091 0.0858 0.0084 0.0071
0.0053 0.0192 0.0226 0.0246 0.0875 0.0043 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.7 Arterial
VMT FRACTIONS      :
0.7339 0.0367 0.1223 0.0253 0.0117 0.0209 0.0021 0.0017
0.0013 0.0047 0.0055 0.006 0.0213 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.1 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.1 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 10- National Park
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.5 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 50.6 Freeway 95.6 0 0 4.4
VMT FRACTIONS      :
0.6879 0.0342 0.1138 0.0233 0.0107 0.0412 0.004 0.0034
0.0025 0.0092 0.0109 0.0118 0.042 0.0021 0.001 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.6 Arterial
VMT FRACTIONS      :
0.7489 0.0374 0.1246 0.026 0.012 0.0154 0.0015 0.0013
0.001 0.0035 0.0041 0.0044 0.0157 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.7 Arterial
VMT FRACTIONS      :
0.7489 0.0374 0.1246 0.026 0.012 0.0154 0.0015 0.0013
0.001 0.0035 0.0041 0.0044 0.0157 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.7 Arterial
VMT FRACTIONS      :
0.758 0.0379 0.1261 0.026 0.012 0.0122 0.0012 0.001
0.0008 0.0027 0.0032 0.0035 0.0125 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2016 Wilson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2016_out\16_WlsS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 61.2 Freeway 95.7 0 0 4.3
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.101 0.0099 0.0084
0.0062 0.0226 0.0266 0.0289 0.103 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 45 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0241 0.0024 0.002
0.0015 0.0054 0.0064 0.0069 0.0246 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 54.2 Freeway 91.5 0 0 8.5
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.101 0.0099 0.0084
0.0062 0.0226 0.0266 0.0289 0.103 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.9 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0241 0.0024 0.002
0.0015 0.0054 0.0064 0.0069 0.0246 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.2 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0027 0.0031 0.0034 0.0121 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.3 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0027 0.0031 0.0034 0.0121 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 59.5 Freeway 98 0 0 2
VMT FRACTIONS      :
0.5959 0.0298 0.0992 0.0206 0.0095 0.0781 0.0077 0.0065
0.0048 0.0175 0.0206 0.0224 0.0797 0.0039 0.0018 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.7 Arterial
VMT FRACTIONS      :
0.7471 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0014
0.001 0.0037 0.0044 0.0048 0.0171 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.4 Arterial
VMT FRACTIONS      :
0.7471 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0014
0.001 0.0037 0.0044 0.0048 0.0171 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.1 Arterial
VMT FRACTIONS      :
0.7599 0.0379 0.1261 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2016
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2025 Davidson County (Metro I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2025_out\25_DavM.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05Metro.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 98.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1

AVERAGE SPEED      : 48.4 Freeway 95.4 0 0 4.6
VMT FRACTIONS      :
0.6668 0.0333 0.1107 0.0226 0.0104 0.0495 0.0049 0.0041
0.0031 0.0111 0.0131 0.0142 0.0505 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.3 Freeway 69.6 0 0 30.4
VMT FRACTIONS      :
0.7449 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014
0.0011 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.6 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.3 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 34.5 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.2 Arterial
VMT FRACTIONS      :
0.7501 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0041 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2025
```

```
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.4 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002

VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2025 Davidson County (State I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2025_out\25_DavS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1

AVERAGE SPEED      : 48.4 Freeway 95.4 0 0 4.6
VMT FRACTIONS      :
0.6668 0.0333 0.1107 0.0226 0.0104 0.0495 0.0049 0.0041
0.0031 0.0111 0.0131 0.0142 0.0505 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.3 Freeway 69.6 0 0 30.4
VMT FRACTIONS      :
0.7449 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014
0.0011 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.6 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.3 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 34.5 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.2 Arterial
VMT FRACTIONS      :
0.7501 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0041 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2025
```

```
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.4 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002

VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2025 Rutherford County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2025_out\25_RutS.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2025\25_RutS.in
***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 56 Freeway 94 0 0 6
VMT FRACTIONS      :
0.5631 0.028 0.093 0.0192 0.0088 0.09 0.0089 0.0074
0.0056 0.0201 0.0237 0.0258 0.0918 0.0045 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 50.2 Arterial
VMT FRACTIONS      :
0.718 0.0358 0.1192 0.0247 0.0113 0.0277 0.0027 0.0023
0.0017 0.0062 0.0073 0.0079 0.0282 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 52.1 Freeway 94.3 0 0 5.7
VMT FRACTIONS      :
0.5631 0.028 0.093 0.0192 0.0088 0.09 0.0089 0.0074
0.0056 0.0201 0.0237 0.0258 0.0918 0.0045 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.2 Arterial
VMT FRACTIONS      :
0.718 0.0358 0.1192 0.0247 0.0113 0.0277 0.0027 0.0023
0.0017 0.0062 0.0073 0.0079 0.0282 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.6 Arterial
VMT FRACTIONS      :
0.7479 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.4 Arterial
VMT FRACTIONS      :
0.7479 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
```

```
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 54.2 Freeway 98 0 0 2
VMT FRACTIONS      :
0.6261 0.0312 0.1038 0.0212 0.0098 0.0662 0.0065 0.0055
0.0041 0.0148 0.0175 0.019 0.0675 0.0033 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43 Arterial
VMT FRACTIONS      :
0.7499 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.9 Arterial
VMT FRACTIONS      :
0.7499 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.8 Arterial
VMT FRACTIONS      :
0.755 0.0377 0.1253 0.026 0.012 0.0135 0.0013 0.0011
0.0008 0.003 0.0036 0.0039 0.0138 0.0007 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2025 Sumner County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2025_out\25_SumS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 51.8 Freeway 93.5 0 0 6.5
VMT FRACTIONS      :
0.627 0.0312 0.1038 0.0212 0.0098 0.0659 0.0065 0.0055
0.0041 0.0147 0.0174 0.0189 0.0672 0.0033 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.8 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.3 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.9 Arterial
VMT FRACTIONS      :
0.7579 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.1 Arterial
VMT FRACTIONS      :
0.7579 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2025

EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 50 Freeway 93.7 0 0 6.3
VMT FRACTIONS      :
0.7559 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2025
```

```
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.3 Arterial
VMT FRACTIONS      :
0.7459 0.0372 0.1238 0.0253 0.0117 0.017 0.0017 0.0014
0.0011 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.5 Arterial
VMT FRACTIONS      :
0.7459 0.0372 0.1238 0.0253 0.0117 0.017 0.0017 0.0014
0.0011 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.3 Arterial
VMT FRACTIONS      :
0.7631 0.0381 0.1269 0.026 0.012 0.0103 0.001 0.0009
0.0006 0.0023 0.0027 0.0029 0.0105 0.0005 0.0002 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2025 Williamson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2025_out\25_WlmS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 54.5 Freeway 93.6 0 0 6.4
VMT FRACTIONS      :
0.572 0.0286 0.0954 0.0199 0.0091 0.0859 0.0085 0.0071
0.0053 0.0192 0.0226 0.0246 0.0875 0.0043 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 53.3 Freeway 96 0 0 4
VMT FRACTIONS      :
0.572 0.0286 0.0954 0.0199 0.0091 0.0859 0.0085 0.0071
0.0053 0.0192 0.0226 0.0246 0.0875 0.0043 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41 Arterial
VMT FRACTIONS      :
0.7339 0.0367 0.1223 0.0253 0.0117 0.0209 0.0021 0.0017
0.0013 0.0047 0.0055 0.006 0.0213 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.9 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.2 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 10- National Park
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.7 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 46.6 Freeway 96.8 0 0 3.2
VMT FRACTIONS      :
0.6878 0.0342 0.1138 0.0233 0.0107 0.0412 0.0041 0.0034
0.0025 0.0092 0.0109 0.0118 0.042 0.0021 0.001 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7

ALTITUDE           : 1
AVERAGE SPEED      : 41.4 Arterial
VMT FRACTIONS      :
0.7489 0.0374 0.1246 0.026 0.012 0.0154 0.0015 0.0013
0.001 0.0035 0.0041 0.0044 0.0157 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.3 Arterial
VMT FRACTIONS      :
0.7489 0.0374 0.1246 0.026 0.012 0.0154 0.0015 0.0013
0.001 0.0035 0.0041 0.0044 0.0157 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35 Arterial
VMT FRACTIONS      :
0.758 0.0379 0.1261 0.026 0.012 0.0122 0.0012 0.001
0.0008 0.0027 0.0032 0.0035 0.0125 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2025 Wilson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2025_out\25_WlsS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 59.1 Freeway 95.7 0 0 4.3
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.101 0.01 0.0084
0.0062 0.0226 0.0266 0.0289 0.1029 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.5 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0241 0.0024 0.002
0.0015 0.0054 0.0064 0.0069 0.0246 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 53.6 Freeway 91.4 0 0 8.6
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.101 0.01 0.0084
0.0062 0.0226 0.0266 0.0289 0.1029 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.1 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0241 0.0024 0.002
0.0015 0.0054 0.0064 0.0069 0.0246 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0027 0.0031 0.0034 0.0121 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.2 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0027 0.0031 0.0034 0.0121 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 58.5 Freeway 98 0 0 2
VMT FRACTIONS      :
0.5959 0.0298 0.0992 0.0206 0.0095 0.0781 0.0077 0.0065
0.0048 0.0175 0.0206 0.0224 0.0797 0.0039 0.0018 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7

ALTITUDE           : 1
AVERAGE SPEED      : 42.6 Arterial
VMT FRACTIONS      :
0.7472 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0014
0.001 0.0037 0.0044 0.0048 0.017 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.4 Arterial
VMT FRACTIONS      :
0.7472 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0014
0.001 0.0037 0.0044 0.0048 0.017 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.3 Arterial
VMT FRACTIONS      :
0.7599 0.0379 0.1261 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2025
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 Davidson County (Metro I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030L\3L_DAVM.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05Metro.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 98.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 47 Freeway 95.1 0 0 4.9
VMT FRACTIONS      :
0.6668 0.0333 0.1107 0.0226 0.0104 0.0495 0.0049 0.0041
0.0031 0.0111 0.0131 0.0142 0.0505 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.5 Freeway 70.8 0 0 29.2
VMT FRACTIONS      :
0.7449 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014
0.0011 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.4 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.4 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 33.6 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.2 Arterial
VMT FRACTIONS      :
0.7501 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0041 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 39.5 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.3 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 Davidson County (State I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030L\3L_DavS.OUT R

RUN DATA
>   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030L\3L_DavS.in ***
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 47 Freeway 95.4 0 0 4.6
VMT FRACTIONS      :
0.6668 0.0333 0.1107 0.0226 0.0104 0.0495 0.0049 0.0041
0.0031 0.0111 0.0131 0.0142 0.0505 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.5 Freeway 70.8 0 0 29.2
VMT FRACTIONS      :
0.7449 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014
0.0011 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.4 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.4 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 33.6 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.2 Arterial
VMT FRACTIONS      :
0.7501 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0041 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
```

```
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.5 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.3 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 Rutherford County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030L\3L_RutS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 54 Freeway 93.9 0 0 6.1
VMT FRACTIONS      :
0.5631 0.028 0.093 0.0192 0.0088 0.09 0.0089 0.0074
0.0056 0.0201 0.0237 0.0258 0.0918 0.0045 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 49.9 Arterial
VMT FRACTIONS      :
0.718 0.0358 0.1192 0.0247 0.0113 0.0277 0.0027 0.0023
0.0017 0.0062 0.0073 0.0079 0.0282 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 51.5 Freeway 94.1 0 0 5.9
VMT FRACTIONS      :
0.5631 0.028 0.093 0.0192 0.0088 0.09 0.0089 0.0074
0.0056 0.0201 0.0237 0.0258 0.0918 0.0045 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43 Arterial
VMT FRACTIONS      :
0.718 0.0358 0.1192 0.0247 0.0113 0.0277 0.0027 0.0023
0.0017 0.0062 0.0073 0.0079 0.0282 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.5 Arterial
VMT FRACTIONS      :
0.7479 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.2 Arterial
VMT FRACTIONS      :
0.7479 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 52.3 Freeway 98 0 0 2
VMT FRACTIONS      :
0.6261 0.0312 0.1038 0.0212 0.0098 0.0662 0.0065 0.0055
0.0041 0.0148 0.0175 0.019 0.0675 0.0033 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.7 Arterial
VMT FRACTIONS      :
0.7499 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.6 Arterial
VMT FRACTIONS      :
0.7499 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.6 Arterial
VMT FRACTIONS      :
0.755 0.0377 0.1253 0.026 0.012 0.0135 0.0013 0.0011
0.0008 0.003 0.0036 0.0039 0.0138 0.0007 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 Sumner County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030L\3L_SumS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 58.6 Freeway 96 0 0 4
VMT FRACTIONS      :
0.627 0.0312 0.1038 0.0212 0.0098 0.0659 0.0065 0.0055
0.0041 0.0147 0.0174 0.0189 0.0672 0.0033 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.7 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.3 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.5 Arterial
VMT FRACTIONS      :
0.7579 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40 Arterial
VMT FRACTIONS      :
0.7579 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2030

EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 48.1 Freeway 92.9 0 0 7.1
VMT FRACTIONS      :
0.7559 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2030
```

```
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43 Arterial
VMT FRACTIONS      :
0.7459 0.0372 0.1238 0.0253 0.0117 0.017 0.0017 0.0014
0.0011 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.1 Arterial
VMT FRACTIONS      :
0.7459 0.0372 0.1238 0.0253 0.0117 0.017 0.0017 0.0014
0.0011 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.2 Arterial
VMT FRACTIONS      :
0.7631 0.0381 0.1269 0.026 0.012 0.0103 0.001 0.0009
0.0006 0.0023 0.0027 0.0029 0.0105 0.0005 0.0002 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 Williamson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030L\3L_WlmS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 52.9 Freeway 94.1 0 0 5.9
VMT FRACTIONS      :
0.572 0.0286 0.0954 0.0199 0.0091 0.0859 0.0085 0.0071
0.0053 0.0192 0.0226 0.0246 0.0875 0.0043 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 52.7 Freeway 95.6 0 0 4.4
VMT FRACTIONS      :
0.572 0.0286 0.0954 0.0199 0.0091 0.0859 0.0085 0.0071
0.0053 0.0192 0.0226 0.0246 0.0875 0.0043 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.2 Arterial
VMT FRACTIONS      :
0.7339 0.0367 0.1223 0.0253 0.0117 0.0209 0.0021 0.0017
0.0013 0.0047 0.0055 0.006 0.0213 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.5 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.9 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 10- National Park
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.7 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 45.5 Freeway 97 0 0 3
VMT FRACTIONS      :
0.6878 0.0342 0.1138 0.0233 0.0107 0.0412 0.0041 0.0034
0.0025 0.0092 0.0109 0.0118 0.042 0.0021 0.001 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.3 Arterial
VMT FRACTIONS      :
0.7489 0.0374 0.1246 0.026 0.012 0.0154 0.0015 0.0013
0.001 0.0035 0.0041 0.0044 0.0157 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.8 Arterial
VMT FRACTIONS      :
0.7489 0.0374 0.1246 0.026 0.012 0.0154 0.0015 0.0013
0.001 0.0035 0.0041 0.0044 0.0157 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 34.6 Arterial
VMT FRACTIONS      :
0.758 0.0379 0.1261 0.026 0.012 0.0122 0.0012 0.001
0.0008 0.0027 0.0032 0.0035 0.0125 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 Wilson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030L\3L_WlsS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 60.6 Freeway 96.4 0 0 3.6
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.101 0.01 0.0084
0.0062 0.0226 0.0266 0.0289 0.1029 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.1 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0241 0.0024 0.002
0.0015 0.0054 0.0064 0.0069 0.0246 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 53.1 Freeway 90.5 0 0 9.5
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.101 0.01 0.0084
0.0062 0.0226 0.0266 0.0289 0.1029 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 44.1 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0241 0.0024 0.002
0.0015 0.0054 0.0064 0.0069 0.0246 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.2 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0027 0.0031 0.0034 0.0121 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0027 0.0031 0.0034 0.0121 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 57 Freeway 97.8 0 0 2.2
VMT FRACTIONS      :
0.5959 0.0298 0.0992 0.0206 0.0095 0.0781 0.0077 0.0065
0.0048 0.0175 0.0206 0.0224 0.0797 0.0039 0.0018 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42 Arterial
VMT FRACTIONS      :
0.7472 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0014
0.001 0.0037 0.0044 0.0048 0.017 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40 Arterial
VMT FRACTIONS      :
0.7472 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0014
0.001 0.0037 0.0044 0.0048 0.017 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.8 Arterial
VMT FRACTIONS      :
0.7599 0.0379 0.1261 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

APPENDIX D

MOBILE6 OUTPUT FILES

2002 Davidson County (Metro I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_DavM.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\02METRO.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 52.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6579    0.1429    0.0325              0.0492    0.0011    0.0006    0.1138    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.059     1.114     1.800     1.241     1.166    0.587     0.911     0.464      1.78     1.029
     Composite NOX :      1.139     1.271     1.629     1.338     5.618    1.734     1.900    18.665      1.38     3.391
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 45.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

```
                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7388    0.1599    0.0365              0.0181    0.0012    0.0006    0.0419    0.0030    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.143     1.200     1.914     1.333     1.272    0.615     0.950     0.510      1.82     1.157
     Composite NOX :      1.191     1.330     1.690     1.397     5.395    1.591     1.743    16.036      1.29     1.931
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi

            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7519    0.1619    0.0375              0.0132    0.0012    0.0006    0.0307    0.0030    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.106     1.161     1.893     1.298     1.366    0.642     0.982     0.554      1.84     1.132
     Composite NOX :      1.087     1.201     1.560     1.268     5.116    1.376     1.506    12.775      1.19     1.536
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
```

```
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7519    0.1619    0.0375              0.0132    0.0012    0.0006    0.0307    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.116     1.170     1.909     1.309     1.419    0.655     1.002     0.577      1.87     1.144
     Composite NOX :      1.083     1.195     1.555     1.263     5.047    1.364     1.493    12.678      1.18     1.528
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7519    0.1629    0.0375              0.0132    0.0012    0.0006    0.0307    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.130     1.183     1.931     1.323     1.490    0.674     1.031     0.608      1.92     1.158
     Composite NOX :      1.078     1.188     1.549     1.256     4.955    1.348     1.476    12.547      1.17     1.518
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.7

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

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7517    0.1629    0.0375              0.0124    0.0012    0.0006    0.0287    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.080     1.137     1.851     1.271     1.263    0.612     0.943     0.506      1.79     1.107
     Composite NOX :      1.102     1.222     1.580     1.289     5.316    1.457     1.595    13.411      1.22     1.546
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7187    0.1549    0.0355              0.0254    0.0012    0.0006    0.0587    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.091     1.147     1.869     1.282     1.307    0.624     0.961     0.525      1.81     1.103
     Composite NOX :      1.095     1.213     1.571     1.280     5.231    1.421     1.557    13.110      1.21     1.942
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
 Reading User Supplied ROADWAY VMT Factors
 M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7187    0.1549    0.0355              0.0254    0.0012    0.0006    0.0587    0.0050    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      1.101     1.157     1.886     1.293     1.351    0.636     0.978     0.545      1.83     1.115
    Composite NOX :      1.089     1.204     1.562     1.271     5.150    1.386     1.519    12.830      1.20     1.917
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
 M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

 Reading User Supplied ROADWAY VMT Factors
 M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7767    0.1669    0.0385              0.0042    0.0013    0.0006    0.0098    0.0020    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      1.720     1.779     2.816     1.973     3.754    1.095     1.625     1.296      2.99     1.778
    Composite NOX :      1.090     1.150     1.514     1.218     4.094    1.803     1.971    13.951      0.93     1.256
 ---------------------------------------------------------------------------------------------------------------------
```

2002 Davidson County (State I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_DavS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\02STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 52.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6579    0.1429    0.0325              0.0492    0.0011    0.0006    0.1138    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.076     1.143     1.838     1.272     1.166    0.587     0.911     0.464      1.78     1.046
     Composite NOX :      1.147     1.281     1.644     1.348     5.618    1.734     1.900    18.665      1.38     3.398
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 45.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
```

```
                    Month:  July
                 Altitude:  Low
     Minimum Temperature:  64.7 (F)
     Maximum Temperature:  86.5 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
           Weathered RVP:   7.6 psi
     Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7388    0.1599    0.0365              0.0181    0.0012    0.0006    0.0419    0.0030    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.161     1.231     1.954     1.365     1.272    0.615     0.950     0.510      1.82     1.177
    Composite NOX :      1.199     1.339     1.706     1.407     5.395    1.591     1.743    16.036      1.29     1.939
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi

             Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7519    0.1619    0.0375              0.0132    0.0012    0.0006    0.0307    0.0030    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.124     1.192     1.934     1.332     1.366    0.642     0.982     0.554      1.84     1.153
    Composite NOX :      1.095     1.210     1.575     1.279     5.116    1.376     1.506    12.775      1.19     1.544
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7519    0.1619    0.0375              0.0132    0.0012    0.0006    0.0307    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.135     1.202     1.951     1.343     1.419    0.655     1.002     0.577      1.87     1.165
     Composite NOX :      1.091     1.205     1.570     1.273     5.047    1.364     1.493    12.678      1.18     1.536
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7519    0.1629    0.0375              0.0132    0.0012    0.0006    0.0307    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.149     1.215     1.973     1.357     1.490    0.674     1.031     0.608      1.92     1.180
     Composite NOX :      1.086     1.197     1.564     1.266     4.955    1.348     1.476    12.547      1.17     1.526
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.7

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

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
```

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

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7517    0.1629    0.0375              0.0124    0.0012    0.0006    0.0287    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.099     1.168     1.891     1.303     1.263    0.612     0.943     0.506      1.79     1.127
     Composite NOX :      1.110     1.231     1.596     1.299     5.316    1.457     1.595    13.411      1.22     1.554
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7187    0.1549    0.0355              0.0254    0.0012    0.0006    0.0587    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.109     1.178     1.909     1.315     1.307    0.624     0.961     0.525      1.81     1.122
     Composite NOX :      1.103     1.222     1.586     1.290     5.231    1.421     1.557    13.110      1.21     1.949
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7187    0.1549    0.0355              0.0254    0.0012    0.0006    0.0587    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.120     1.188     1.927     1.326     1.351    0.636     0.978     0.545      1.83     1.134
     Composite NOX :      1.097     1.213     1.577     1.281     5.150    1.386     1.519    12.830      1.20     1.924
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7767    0.1669    0.0385              0.0042    0.0013    0.0006    0.0098    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.748     1.821     2.876     2.018     3.754    1.095     1.625     1.296      2.99     1.809
     Composite NOX :      1.098     1.159     1.530     1.228     4.094    1.803     1.971    13.951      0.93     1.264
  ---------------------------------------------------------------------------------------------------------------------------
```

2002 Rutherford County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_RutS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\02STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 61.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5948    0.1289    0.0297              0.0716    0.0010    0.0005    0.1655    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.054     1.111     1.769     1.234     1.132    0.579     0.895     0.451      2.33     0.998
     Composite NOX :      1.188     1.332     1.698     1.401     6.020    2.512     2.744    24.894      1.67     5.498
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 50.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
```

```
                    Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7159    0.1549    0.0355              0.0262    0.0012    0.0006    0.0607    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.072     1.141     1.842     1.272     1.175    0.589     0.912     0.468      1.77     1.079
     Composite NOX :      1.129     1.257     1.620     1.325     5.540    1.630     1.785    14.813      1.31     2.114
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 56.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
          there are no sales for vehicle class HDGV8b

                Calendar Year:  2002
                        Month:  July
                    Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi

          Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5948    0.1289    0.0297              0.0716    0.0010    0.0005    0.1655    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.068     1.131     1.808     1.257     1.141    0.581     0.898     0.454      2.02     1.009
     Composite NOX :      1.172     1.311     1.676     1.379     5.808    2.040     2.230    21.013      1.52     4.825
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
          there are no sales for vehicle class HDGV8b
```

```
                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7159    0.1549    0.0355              0.0262    0.0012    0.0006    0.0607    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.100     1.169     1.894     1.304     1.266    0.614     0.946     0.508      1.79     1.110
     Composite NOX :      1.109     1.230     1.594     1.298     5.302    1.452     1.591    13.376      1.21     2.001
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7568    0.1639    0.0375              0.0115    0.0012    0.0006    0.0265    0.0020    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.115     1.183     1.919     1.320     1.328    0.631     0.971     0.536      1.82     1.144
     Composite NOX :      1.100     1.217     1.582     1.285     5.185    1.402     1.537    12.965      1.20     1.499
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.7

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

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
```

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

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7469    0.1609    0.0375              0.0145    0.0012    0.0006    0.0334    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.118     1.186     1.924     1.326     1.343    0.634     0.970     0.543      1.83     1.146
     Composite NOX :      1.098     1.214     1.579     1.283     5.161    1.391     1.521    12.901      1.20     1.589
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 57.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6528    0.1409    0.0325              0.0513    0.0011    0.0005    0.1188    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.054     1.117     1.792     1.243     1.125    0.577     0.891     0.447      1.97     1.020
     Composite NOX :      1.159     1.295     1.660     1.364     5.818    2.014     2.201    21.076      1.51     3.801
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7268    0.1569    0.0365              0.0226    0.0012    0.0006    0.0524    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.104     1.173     1.901     1.310     1.282    0.618     0.948     0.516      1.80     1.119
     Composite NOX :      1.106     1.226     1.591     1.295     5.269    1.438     1.572    13.267      1.21     1.875
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7268    0.1569    0.0365              0.0226    0.0012    0.0006    0.0524    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.118     1.186     1.923     1.325     1.338    0.634     0.970     0.541      1.83     1.134
     Composite NOX :      1.098     1.215     1.580     1.284     5.164    1.393     1.523    12.902      1.20     1.845
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7568    0.1639    0.0375              0.0115    0.0012    0.0006    0.0265    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.142     1.209     1.962     1.349     1.457    0.665     1.020     0.592      1.90     1.174
     Composite NOX :      1.089     1.201     1.567     1.269     5.001    1.356     1.487    12.594      1.17     1.476
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7767    0.1669    0.0385              0.0042    0.0013    0.0006    0.0098    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.748     1.821     2.876     2.018     3.754    1.095     1.625     1.296      2.99     1.809
     Composite NOX :      1.098     1.159     1.530     1.228     4.094    1.803     1.971    13.951      0.93     1.264
  ---------------------------------------------------------------------------------------------------------------------------
```

2002 Sumner County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_SumS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\02STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 57.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6160    0.1339    0.0306              0.0634    0.0010    0.0005    0.1466    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.062     1.124     1.798     1.249     1.133    0.579     0.898     0.451      2.04     1.015
     Composite NOX :      1.170     1.309     1.675     1.377     5.838    2.077     2.273    21.393      1.54     4.470
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
```

```
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7499    0.1619    0.0375              0.0132    0.0012    0.0006    0.0307    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.092     1.162     1.880     1.297     1.237    0.606     0.932     0.496      1.79     1.120
     Composite NOX :      1.114     1.237     1.601     1.306     5.363    1.492     1.632    13.708      1.23     1.596
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7499    0.1619    0.0375              0.0132    0.0012    0.0006    0.0307    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.099     1.169     1.893     1.305     1.262    0.613     0.942     0.507      1.79     1.127
     Composite NOX :      1.109     1.231     1.595     1.299     5.304    1.454     1.590    13.401      1.22     1.581
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
```

```
                    Month:  July
                 Altitude:  Low
Minimum Temperature:  64.7 (F)
Maximum Temperature:  86.5 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   7.8 psi
      Weathered RVP:   7.6 psi
Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7568    0.1639    0.0375              0.0115    0.0012    0.0006    0.0265    0.0020    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.113     1.182     1.915     1.318     1.320    0.629     0.968     0.532      1.82     1.142
    Composite NOX :      1.101     1.219     1.584     1.287     5.201    1.409     1.544    13.021      1.20     1.502
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7548    0.1629    0.0375              0.0115    0.0012    0.0006    0.0265    0.0050    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.115     1.183     1.919     1.321     1.328    0.631     0.969     0.536      1.82     1.146
    Composite NOX :      1.100     1.217     1.582     1.285     5.185    1.402     1.535    12.965      1.20     1.500
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 51.3
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
                 Calendar Year:  2002
                         Month:  July
                      Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7547    0.1629    0.0375              0.0121    0.0012    0.0006    0.0280    0.0030    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.085     1.152     1.850     1.283     1.181    0.590     0.911     0.469      1.78     1.110
    Composite NOX :      1.153     1.287     1.652     1.355     5.601    1.722     1.883    18.404      1.37     1.733
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                 Calendar Year:  2002
                         Month:  July
                      Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7468    0.1609    0.0375              0.0151    0.0012    0.0006    0.0349    0.0030    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.101     1.170     1.896     1.308     1.270    0.615     0.943     0.511      1.80     1.126
    Composite NOX :      1.108     1.229     1.593     1.298     5.289    1.448     1.582    13.348      1.21     1.637
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
```

```
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7468    0.1609    0.0375              0.0151    0.0012    0.0006    0.0349    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.119     1.187     1.925     1.326     1.343    0.635     0.971     0.543      1.83     1.145
     Composite NOX :      1.097     1.214     1.579     1.283     5.154    1.390     1.519    12.878      1.20     1.608
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.4568    0.3091    0.1063              0.0360    0.0008    0.0017    0.0833    0.0060    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.131     1.198     1.944     1.389     1.402    0.650     0.870     0.568      1.86     1.205
     Composite NOX :      1.092     1.207     1.572     1.300     5.076    1.369     1.412    12.699      1.19     2.290
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm
```

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7767    0.1669    0.0385              0.0042    0.0013    0.0006    0.0098    0.0020    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      1.748     1.821     2.876     2.018     3.754    1.095     1.625     1.296      2.99     1.809
    Composite NOX :      1.098     1.159     1.530     1.228     4.094    1.803     1.971    13.951      0.93     1.264
 ---------------------------------------------------------------------------------------------------------------------------
```

2002 Williamson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_WlmS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\02STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 59.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5840    0.1269    0.0286              0.0758    0.0010    0.0005    0.1752    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.059     1.118     1.783     1.240     1.134    0.579     0.903     0.451      2.21     0.995
     Composite NOX :      1.182     1.324     1.689     1.391     5.942    2.331     2.555    23.406      1.61     5.475
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 54.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
```

```
                    Month:  July
                 Altitude:  Low
     Minimum Temperature:  64.7 (F)
     Maximum Temperature:  86.5 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
           Weathered RVP:   7.6 psi
     Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5840    0.1269    0.0286              0.0758    0.0010    0.0005    0.1752    0.0080    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.092     1.155     1.839     1.280     1.169    0.588     0.916     0.467      2.04     1.024
    Composite NOX :      1.188     1.329     1.695     1.396     5.756    2.018     2.213    20.405      1.51     4.938
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi

             Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7327    0.1579    0.0365              0.0200    0.0012    0.0006    0.0461    0.0050    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.105     1.174     1.902     1.311     1.289    0.620     0.952     0.517      1.80     1.124
    Composite NOX :      1.106     1.226     1.590     1.294     5.264    1.435     1.570    13.229      1.21     1.786
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7517    0.1629    0.0375              0.0124    0.0012    0.0006    0.0287    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.114     1.182     1.916     1.319     1.325    0.629     0.967     0.533      1.82     1.144
     Composite NOX :      1.101     1.218     1.583     1.287     5.200    1.407     1.541    13.011      1.20     1.532
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7517    0.1629    0.0375              0.0124    0.0012    0.0006    0.0287    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.110     1.179     1.910     1.315     1.310    0.625     0.961     0.527      1.81     1.140
     Composite NOX :      1.103     1.221     1.586     1.290     5.228    1.419     1.554    13.106      1.21     1.537
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 10- National Park
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.1

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

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
```

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

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7517    0.1629    0.0375              0.0124    0.0012    0.0006    0.0287    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.106     1.175     1.904     1.311     1.294    0.621     0.955     0.520      1.81     1.135
     Composite NOX :      1.105     1.225     1.589     1.293     5.258    1.432     1.568    13.212      1.21     1.543
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 54.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6908    0.1500    0.0345              0.0366    0.0011    0.0006    0.0844    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.067     1.132     1.819     1.261     1.150    0.582     0.900     0.456      1.80     1.055
     Composite NOX :      1.151     1.286     1.650     1.354     5.702    1.822     1.993    19.340      1.43     2.892
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7519    0.1619    0.0375              0.0132    0.0012    0.0006    0.0307    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.121     1.189     1.929     1.328     1.351    0.638     0.976     0.548      1.84     1.149
     Composite NOX :      1.096     1.212     1.577     1.281     5.138    1.382     1.512    12.824      1.20     1.547
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7519    0.1619    0.0375              0.0132    0.0012    0.0006    0.0307    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.129     1.197     1.942     1.337     1.391    0.648     0.991     0.565      1.86     1.158
     Composite NOX :      1.093     1.208     1.573     1.276     5.084    1.371     1.500    12.730      1.19     1.540
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7578    0.1639    0.0375              0.0112    0.0012    0.0006    0.0258    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.143     1.209     1.963     1.349     1.458    0.666     1.021     0.594      1.90     1.175
     Composite NOX :      1.088     1.201     1.567     1.269     4.996    1.355     1.486    12.605      1.17     1.467
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7767    0.1669    0.0385              0.0042    0.0013    0.0006    0.0098    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.748     1.821     2.876     2.018     3.754    1.095     1.625     1.296      2.99     1.809
     Composite NOX :      1.098     1.159     1.530     1.228     4.094    1.803     1.971    13.951      0.93     1.264
  ---------------------------------------------------------------------------------------------------------------------------
```

2002 Wilson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2002\02_WlsS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\02STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 63.1 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 63.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5470    0.1169    0.0266              0.0906    0.0009    0.0005    0.2095    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.047     1.103     1.758     1.224     1.124    0.577     0.896     0.447      2.35     0.963
     Composite NOX :      1.186     1.330     1.695     1.397     6.051    2.557     2.797    25.361      1.69     6.727
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

```
                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7258    0.1569    0.0355              0.0226    0.0012    0.0006    0.0524    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.099     1.168     1.892     1.302     1.261    0.613     0.949     0.506      1.79     1.114
     Composite NOX :      1.109     1.231     1.595     1.298     5.308    1.455     1.598    13.404      1.22     1.886
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 56.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2002
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:  279. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5470    0.1169    0.0266              0.0906    0.0009    0.0005    0.2095    0.0080    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.072     1.134     1.811     1.260     1.145    0.582     0.904     0.456      2.05     0.984
     Composite NOX :      1.177     1.317     1.682     1.384     5.813    2.062     2.258    21.098      1.53     5.804
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
```

```
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7258    0.1569    0.0355              0.0226    0.0012    0.0006    0.0524    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.101     1.170     1.896     1.304     1.270    0.615     0.953     0.511      1.80     1.116
     Composite NOX :      1.108     1.229     1.593     1.296     5.290    1.448     1.589    13.343      1.21     1.881
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:

             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2002
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7558    0.1629    0.0375              0.0112    0.0012    0.0006    0.0258    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.111     1.180     1.913     1.317     1.312    0.627     0.963     0.530      1.82     1.143
     Composite NOX :      1.102     1.220     1.585     1.288     5.212    1.414     1.548    13.079      1.20     1.496
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7558    0.1629    0.0375               0.0112    0.0012    0.0006    0.0258    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.117     1.185     1.921     1.323     1.333    0.633     0.972     0.539      1.83     1.148
     Composite NOX :      1.099     1.216     1.580     1.284     5.171    1.397     1.530    12.940      1.20     1.488
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 59.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5969    0.1289    0.0297               0.0728    0.0010    0.0005    0.1682    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.049     1.109     1.777     1.234     1.116    0.574     0.889     0.444      2.09     0.983
     Composite NOX :      1.166     1.305     1.670     1.373     5.896    2.154     2.354    22.222      1.57     5.087
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July

                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7468    0.1609    0.0375              0.0151    0.0012    0.0006    0.0349    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.101     1.170     1.896     1.308     1.270    0.615     0.943     0.511      1.80     1.126
     Composite NOX :      1.108     1.229     1.593     1.298     5.289    1.448     1.582    13.348      1.21     1.637
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7468    0.1609    0.0375              0.0151    0.0012    0.0006    0.0349    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.114     1.182     1.916     1.321     1.321    0.629     0.962     0.533      1.82     1.139
     Composite NOX :      1.101     1.218     1.583     1.287     5.195    1.407     1.538    13.020      1.20     1.617
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
```

```
* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7588    0.1639    0.0375              0.0109    0.0012    0.0006    0.0251    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.135     1.202     1.951     1.341     1.425    0.655     1.006     0.576      1.87     1.166
     Composite NOX :      1.091     1.205     1.570     1.273     5.054    1.364     1.496    12.647      1.18     1.462
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2002
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  279. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7767    0.1669    0.0385              0.0042    0.0013    0.0006    0.0098    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.748     1.821     2.876     2.018     3.754    1.095     1.625     1.296      2.99     1.809
     Composite NOX :      1.098     1.159     1.530     1.228     4.094    1.803     1.971    13.951      0.93     1.264
  ---------------------------------------------------------------------------------------------------------------------------
```

2006 Davidson County (Metro I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2006\06_DavM.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05METRO.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6662    0.1439    0.0325              0.0457    0.0008    0.0006    0.1083    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.714     0.725     1.211     0.815     0.763    0.389     0.721     0.343      1.77     0.696
     Composite NOX :      0.706     0.857     1.207     0.922     4.140    1.146     1.410    11.837      1.34     2.109
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
```

```
                    Month:  July
                 Altitude:  Low
     Minimum Temperature:  64.7 (F)
     Maximum Temperature:  86.5 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
           Weathered RVP:   7.6 psi
     Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7441    0.1609    0.0365              0.0160    0.0009    0.0006    0.0380    0.0030    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.756     0.764     1.271     0.858     0.818    0.405     0.749     0.374      1.81     0.766
    Composite NOX :      0.732     0.885     1.247     0.952     4.000    1.072     1.319    10.675      1.28     1.208
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2006
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi

             Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7521    0.1619    0.0374              0.0130    0.0009    0.0006    0.0310    0.0030    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.761     0.765     1.283     0.862     0.885    0.426     0.780     0.413      1.85     0.775
    Composite NOX :      0.673     0.810     1.154     0.874     3.778    0.934     1.147     8.656      1.19     1.003
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
                  Calendar Year:  2006
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7521    0.1619    0.0374              0.0130    0.0009    0.0006    0.0310    0.0030    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.768     0.770     1.293     0.869     0.909    0.434     0.793     0.426      1.87     0.782
     Composite NOX :      0.671     0.806     1.151     0.871     3.737    0.927     1.139     8.595      1.18     0.998
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2006
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7560    0.1629    0.0374              0.0119    0.0009    0.0006    0.0282    0.0020    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.779     0.779     1.309     0.878     0.951    0.445     0.813     0.447      1.91     0.794
     Composite NOX :      0.667     0.801     1.146     0.866     3.680    0.917     1.128     8.490      1.17     0.965
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.4

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

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
```

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

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7491    0.1619    0.0374              0.0133    0.0009    0.0006    0.0317    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.745     0.752     1.260     0.847     0.840    0.411     0.755     0.385      1.81     0.760
     Composite NOX :      0.680     0.820     1.166     0.885     3.884    0.968     1.188     8.955      1.21     1.029
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7322    0.1579    0.0365              0.0199    0.0008    0.0006    0.0471    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.746     0.752     1.261     0.848     0.843    0.412     0.757     0.387      1.81     0.756
     Composite NOX :      0.679     0.820     1.165     0.884     3.879    0.965     1.186     8.944      1.21     1.175
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7322    0.1579    0.0365              0.0199    0.0008    0.0006    0.0471    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.754     0.759     1.273     0.856     0.866    0.420     0.769     0.400      1.83     0.764
     Composite NOX :      0.675     0.813     1.158     0.878     3.822    0.943     1.158     8.735      1.20     1.160
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7771    0.1669    0.0384              0.0041    0.0009    0.0007    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.184     1.153     1.905     1.293     2.183    0.718     1.276     0.950      2.98     1.211
     Composite NOX :      0.681     0.789     1.134     0.854     3.040    1.227     1.505    10.444      0.93     0.824
  ---------------------------------------------------------------------------------------------------------------------------
```

2006 Davidson County (State I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2006\06_DavS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: P:\MPO\AIRQ\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6662    0.1439    0.0325              0.0457    0.0008    0.0006    0.1083    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.720     0.733     1.221     0.823     0.766    0.389     0.721     0.343      1.77     0.702
     Composite NOX :      0.713     0.865     1.218     0.930     4.140    1.146     1.410    11.837      1.34     2.115
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
```

```
                    Month:  July
                 Altitude:  Low
     Minimum Temperature:  64.7 (F)
     Maximum Temperature:  86.5 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   7.8 psi
           Weathered RVP:   7.6 psi
     Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7441    0.1609    0.0365              0.0160    0.0009    0.0006    0.0380    0.0030    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.763     0.772     1.281     0.866     0.821    0.405     0.749     0.374      1.81     0.772
    Composite NOX :      0.738     0.894     1.258     0.961     4.000    1.072     1.319    10.675      1.28     1.214
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2006
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi

             Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7521    0.1619    0.0374              0.0130    0.0009    0.0006    0.0310    0.0030    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.768     0.773     1.293     0.871     0.889    0.426     0.780     0.413      1.85     0.782
    Composite NOX :      0.679     0.818     1.165     0.883     3.778    0.934     1.147     8.656      1.19     1.009
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
                  Calendar Year:  2006
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7521    0.1619    0.0374              0.0130    0.0009    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.775     0.779     1.304     0.878     0.913    0.434     0.793     0.426      1.87     0.790
     Composite NOX :      0.677     0.815     1.162     0.880     3.737    0.927     1.139     8.595      1.18     1.005
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2006
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7560    0.1629    0.0374              0.0119    0.0009    0.0006    0.0282    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.786     0.788     1.319     0.887     0.956    0.445     0.813     0.447      1.91     0.801
     Composite NOX :      0.674     0.809     1.157     0.874     3.680    0.917     1.128     8.490      1.17     0.972
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.4

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

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
```

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

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7491    0.1619    0.0374              0.0133    0.0009    0.0006    0.0317    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.751     0.760     1.270     0.856     0.844    0.411     0.755     0.385      1.81     0.767
     Composite NOX :      0.686     0.829     1.176     0.894     3.884    0.968     1.188     8.955      1.21     1.035
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7322    0.1579    0.0365              0.0199    0.0008    0.0006    0.0471    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.752     0.760     1.272     0.856     0.846    0.412     0.757     0.387      1.81     0.762
     Composite NOX :      0.686     0.828     1.176     0.893     3.879    0.965     1.186     8.944      1.21     1.182
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7322    0.1579    0.0365              0.0199    0.0008    0.0006    0.0471    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.761     0.767     1.284     0.864     0.870    0.420     0.769     0.400      1.83     0.771
     Composite NOX :      0.681     0.821     1.169     0.887     3.822    0.943     1.158     8.735      1.20     1.166
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7771    0.1669    0.0384              0.0041    0.0009    0.0007    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.194     1.165     1.921     1.307     2.199    0.718     1.276     0.950      2.98     1.222
     Composite NOX :      0.688     0.798     1.145     0.863     3.040    1.227     1.505    10.444      0.93     0.831
  ---------------------------------------------------------------------------------------------------------------------------
```

2006 Rutherford County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2006\06_RutS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: P:\MPO\AIRQ\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 60.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5624    0.1209    0.0276               0.0830    0.0007    0.0005    0.1969    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.694     0.706     1.167     0.792     0.735    0.382     0.708     0.331      2.29     0.653
     Composite NOX :      0.743     0.907     1.265     0.973     4.452    1.675     2.051    16.670      1.65     4.230
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 50.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
```

```
                    Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7172    0.1549    0.0355              0.0255    0.0008    0.0006    0.0605    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.718     0.731     1.218     0.822     0.765    0.388     0.717     0.342      1.77     0.721
    Composite NOX :      0.705     0.856     1.205     0.921     4.126    1.119     1.374    10.358      1.32     1.421
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
          there are no sales for vehicle class HDGV8b

                Calendar Year:  2006
                        Month:  July
                    Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi

          Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5624    0.1209    0.0276              0.0830    0.0007    0.0005    0.1969    0.0080    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.706     0.719     1.193     0.807     0.743    0.383     0.710     0.334      1.98     0.661
    Composite NOX :      0.730     0.889     1.245     0.955     4.300    1.367     1.677    13.825      1.51     3.645
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
          there are no sales for vehicle class HDGV8b
```

```
                 Calendar Year:  2006
                         Month:  July
                      Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7172    0.1549    0.0355              0.0255    0.0008    0.0006    0.0605    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.744     0.753     1.259     0.848     0.823    0.405     0.746     0.373      1.79     0.748
     Composite NOX :      0.690     0.834     1.182     0.899     3.938    0.988     1.215     9.147      1.21     1.328
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
          there are no sales for vehicle class HDGV8b

                 Calendar Year:  2006
                         Month:  July
                      Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7471    0.1619    0.0374              0.0139    0.0009    0.0006    0.0331    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.759     0.766     1.282     0.863     0.868    0.418     0.767     0.398      1.82     0.775
     Composite NOX :      0.682     0.823     1.170     0.888     3.834    0.946     1.162     8.772      1.20     1.038
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.3

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

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
```

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

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7471    0.1619    0.0374              0.0139    0.0009    0.0006    0.0331    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.761     0.767     1.284     0.864     0.872    0.420     0.769     0.400      1.83     0.776
     Composite NOX :      0.681     0.821     1.169     0.887     3.825    0.943     1.158     8.738      1.20     1.036
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 56.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6254    0.1349    0.0305              0.0611    0.0007    0.0005    0.1448    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.700     0.713     1.185     0.800     0.735    0.381     0.707     0.329      1.93     0.667
     Composite NOX :      0.723     0.881     1.235     0.946     4.306    1.347     1.654    13.734      1.50     2.865
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7491    0.1619    0.0374              0.0139    0.0009    0.0006    0.0331    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.747     0.756     1.264     0.852     0.834    0.408     0.749     0.379      1.80     0.760
     Composite NOX :      0.688     0.832     1.180     0.897     3.916    0.979     1.201     9.068      1.21     1.054
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7491    0.1619    0.0374              0.0139    0.0009    0.0006    0.0331    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.759     0.766     1.280     0.862     0.865    0.418     0.765     0.396      1.82     0.772
     Composite NOX :      0.683     0.823     1.170     0.888     3.840    0.949     1.165     8.794      1.20     1.038
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7541    0.1629    0.0374              0.0124    0.0009    0.0006    0.0296    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.781     0.784     1.312     0.882     0.936     0.439     0.804     0.437      1.89     0.795
     Composite NOX :      0.676     0.812     1.159     0.877     3.709     0.922     1.134     8.545      1.17     0.988
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7771    0.1669    0.0384              0.0041    0.0009    0.0007    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.194     1.165     1.921     1.307     2.199     0.718     1.276     0.950      2.98     1.222
     Composite NOX :      0.688     0.798     1.145     0.863     3.040     1.227     1.505    10.444      0.93     0.831
  ---------------------------------------------------------------------------------------------------------------------------
```

2006 Sumner County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2006\06_SumS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: P:\MPO\AIRQ\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 56.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6263    0.1349    0.0305              0.0608    0.0007    0.0005    0.1442    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.705     0.718     1.191     0.805     0.741    0.383     0.711     0.332      1.97     0.672
     Composite NOX :      0.728     0.887     1.243     0.953     4.301    1.362     1.672    13.793      1.50     2.870
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
```

```
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1619    0.0374              0.0136    0.0009    0.0006    0.0323    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.737     0.747     1.249     0.842     0.804    0.400     0.735     0.363      1.78     0.751
     Composite NOX :      0.694     0.840     1.189     0.905     3.984    1.016     1.247     9.388      1.23     1.065
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1619    0.0374              0.0136    0.0009    0.0006    0.0323    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.744     0.753     1.259     0.848     0.821    0.405     0.744     0.372      1.79     0.759
     Composite NOX :      0.690     0.834     1.183     0.900     3.935    0.988     1.213     9.131      1.21     1.052
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
```

```
                         Month:  July
                      Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1629    0.0374              0.0107    0.0009    0.0006    0.0252    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.753     0.761     1.273     0.857     0.848    0.413     0.759     0.388      1.81     0.771
    Composite NOX :      0.685     0.827     1.175     0.892     3.873    0.963     1.184     8.935      1.20     0.972
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2006
                         Month:  July
                      Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1629    0.0374              0.0107    0.0009    0.0006    0.0252    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.757     0.764     1.278     0.860     0.858    0.416     0.764     0.394      1.82     0.774
    Composite NOX :      0.684     0.824     1.172     0.889     3.850    0.954     1.172     8.848      1.20     0.968
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 50.7
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
                 Calendar Year:  2006
                         Month:  July
                      Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7550    0.1629    0.0374              0.0119    0.0009    0.0006    0.0282    0.0030    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.724     0.736     1.225     0.827     0.771    0.390     0.720     0.345      1.78     0.737
     Composite NOX :      0.717     0.871     1.225     0.937     4.144    1.154     1.416    11.836      1.35     1.118
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                 Calendar Year:  2006
                         Month:  July
                      Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7450    0.1609    0.0365              0.0157    0.0009    0.0006    0.0374    0.0030    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.746     0.755     1.262     0.849     0.829    0.406     0.751     0.376      1.79     0.756
     Composite NOX :      0.689     0.833     1.181     0.897     3.925    0.983     1.210     9.097      1.21     1.097
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
```

```
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2006
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7450    0.1609    0.0365              0.0157    0.0009    0.0006    0.0374    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.759     0.766     1.280     0.861     0.865    0.418     0.770     0.396      1.82     0.770
     Composite NOX :      0.683     0.823     1.171     0.887     3.839    0.949     1.169     8.785      1.20     1.078
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2006
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   33. ppm

             Exhaust I/M Program:  Yes

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7622    0.1649    0.0374              0.0095    0.0009    0.0006    0.0224    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.772     0.777     1.299     0.873     0.904    0.431     0.791     0.421      1.86     0.788
     Composite NOX :      0.678     0.816     1.163     0.880     3.754    0.930     1.145     8.615      1.18     0.928
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2006
```

```
                 Month:  July
              Altitude:  Low
Minimum Temperature:  64.7 (F)
Maximum Temperature:  86.5 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   7.8 psi
      Weathered RVP:   7.6 psi
Fuel Sulfur Content:   33. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.7771	0.1669	0.0384		0.0041	0.0009	0.0007	0.0099	0.0020	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.194	1.165	1.921	1.307	2.199	0.718	1.276	0.950	2.98	1.222
Composite NOX :	0.688	0.798	1.145	0.863	3.040	1.227	1.505	10.444	0.93	0.831

2006 Williamson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2006\06_WlmS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: P:\MPO\AIRQ\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 58.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5712    0.1239    0.0286              0.0792    0.0007    0.0005    0.1879    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.701     0.713     1.181     0.801     0.739    0.383     0.707     0.332      2.12     0.661
     Composite NOX :      0.736     0.897     1.254     0.964     4.367    1.490     1.824    14.957      1.57     3.738
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 54.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
```

```
                    Month:  July
                 Altitude:  Low
        Minimum Temperature:  64.7 (F)
        Maximum Temperature:  86.5 (F)
          Absolute Humidity:   75. grains/lb
           Nominal Fuel RVP:   7.8 psi
              Weathered RVP:   7.6 psi
        Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5712    0.1239    0.0286              0.0792    0.0007    0.0005    0.1879    0.0080    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.715     0.727     1.204     0.816     0.754    0.387     0.714     0.339      1.98     0.673
    Composite NOX :      0.734     0.894     1.251     0.961     4.271    1.348     1.651    13.558      1.49     3.466
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2006
                    Month:  July
                 Altitude:  Low
        Minimum Temperature:  64.7 (F)
        Maximum Temperature:  86.5 (F)
          Absolute Humidity:   75. grains/lb
           Nominal Fuel RVP:   7.8 psi
              Weathered RVP:   7.6 psi

        Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7330    0.1589    0.0365              0.0193    0.0008    0.0006    0.0459    0.0050    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.757     0.764     1.278     0.860     0.862    0.416     0.765     0.394      1.82     0.768
    Composite NOX :      0.683     0.824     1.172     0.889     3.851    0.953     1.171     8.820      1.20     1.161
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
                  Calendar Year:  2006
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7520    0.1629    0.0374              0.0122    0.0009    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.763     0.769     1.286     0.866     0.878    0.421     0.773     0.403      1.83     0.779
     Composite NOX :      0.681     0.820     1.167     0.885     3.812    0.939     1.154     8.693      1.19     0.995
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2006
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7520    0.1629    0.0374              0.0122    0.0009    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.759     0.766     1.282     0.863     0.868    0.418     0.768     0.398      1.82     0.776
     Composite NOX :      0.682     0.822     1.170     0.887     3.834    0.946     1.163     8.765      1.20     0.999
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 10- National Park
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.3

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

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
```

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

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7520    0.1629    0.0374              0.0122    0.0009    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.752     0.760     1.271     0.856     0.847    0.412     0.757     0.386      1.81     0.768
     Composite NOX :      0.686     0.828     1.176     0.893     3.885    0.966     1.188     8.950      1.21     1.009
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 52.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6871    0.1479    0.0335              0.0379    0.0008    0.0006    0.0902    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.716     0.729     1.213     0.819     0.759    0.387     0.718     0.340      1.77     0.704
     Composite NOX :      0.715     0.868     1.221     0.933     4.172    1.178     1.447    12.132      1.37     1.917
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7481    0.1619    0.0374              0.0142    0.0009    0.0006    0.0338    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.764     0.770     1.288     0.867     0.879    0.423     0.774     0.406      1.84     0.777
     Composite NOX :      0.680     0.820     1.167     0.885     3.801    0.937     1.151     8.700      1.19     1.038
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7481    0.1619    0.0374              0.0142    0.0009    0.0006    0.0338    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.774     0.778     1.302     0.877     0.911    0.433     0.791     0.425      1.87     0.788
     Composite NOX :      0.677     0.815     1.162     0.880     3.744    0.928     1.140     8.617      1.18     1.032
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1639    0.0374              0.0112    0.0009    0.0006    0.0267    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.783     0.785     1.315     0.884     0.941    0.442     0.809     0.441      1.90     0.798
     Composite NOX :      0.675     0.811     1.158     0.875     3.693    0.920     1.132     8.534      1.17     0.960
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7771    0.1669    0.0384              0.0041    0.0009    0.0007    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.194     1.165     1.921     1.307     2.199    0.718     1.276     0.950      2.98     1.222
     Composite NOX :      0.688     0.798     1.145     0.863     3.040    1.227     1.505    10.444      0.93     0.831
  ---------------------------------------------------------------------------------------------------------------------------
```

2006 Wilson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2006\06_WlsS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: P:\MPO\AIRQ\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 62.6 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 62.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** 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:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5353    0.1149    0.0266              0.0931    0.0006    0.0005    0.2210    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.688     0.701     1.158     0.787     0.729     0.381     0.703     0.328      2.34     0.640
     Composite NOX :      0.743     0.907     1.265     0.974     4.488     1.732     2.118    17.241      1.68     4.779
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

```
                 Calendar Year:  2006
                         Month:  July
                      Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7261    0.1569    0.0355               0.0223    0.0008    0.0006    0.0528    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.743     0.753     1.258     0.846     0.819    0.404     0.747     0.372      1.79     0.750
     Composite NOX :      0.691     0.835     1.183     0.899     3.940    0.990     1.219     9.175      1.22     1.255
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 54.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                 Calendar Year:  2006
                         Month:  July
                      Altitude:  Low
          Minimum Temperature:  64.7 (F)
          Maximum Temperature:  86.5 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   7.8 psi
                Weathered RVP:   7.6 psi
          Fuel Sulfur Content:   33. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5353    0.1149    0.0266               0.0931    0.0006    0.0005    0.2210    0.0080    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.712     0.724     1.202     0.814     0.751    0.385     0.711     0.337      1.94     0.657
     Composite NOX :      0.730     0.889     1.245     0.956     4.266    1.327     1.625    13.416      1.48     3.902
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
```

```
             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2006
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7261    0.1569    0.0355              0.0223    0.0008    0.0006    0.0528    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.746     0.755     1.262     0.848     0.826    0.406     0.751     0.376      1.79     0.753
     Composite NOX :      0.689     0.833     1.180     0.897     3.922    0.983     1.210     9.109      1.21     1.249
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:

             there are no sales for vehicle class HDGV8b

                   Calendar Year:  2006
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7561    0.1629    0.0374              0.0109    0.0009    0.0006    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.755     0.763     1.276     0.859     0.855    0.415     0.762     0.391      1.81     0.773
     Composite NOX :      0.684     0.825     1.173     0.890     3.857    0.957     1.176     8.872      1.20     0.977
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7561    0.1629    0.0374               0.0109    0.0009    0.0006    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.760     0.767     1.283     0.864     0.868    0.419     0.769     0.399      1.83     0.778
     Composite NOX :      0.682     0.822     1.169     0.887     3.824    0.944     1.160     8.749      1.20     0.970
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 58.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5952    0.1289    0.0297               0.0721    0.0007    0.0005    0.1709    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.695     0.708     1.175     0.796     0.729    0.379     0.702     0.326      2.04     0.653
     Composite NOX :      0.728     0.887     1.242     0.953     4.359    1.428     1.749    14.483      1.55     3.379
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July

                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7463    0.1609    0.0365              0.0153    0.0009    0.0006    0.0365    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.747     0.756     1.264     0.850     0.829    0.408     0.753     0.378      1.80     0.758
     Composite NOX :      0.689     0.832     1.180     0.896     3.913    0.980     1.206     9.088      1.21     1.087
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7463    0.1609    0.0365              0.0153    0.0009    0.0006    0.0365    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.756     0.763     1.277     0.858     0.854    0.415     0.766     0.392      1.82     0.767
     Composite NOX :      0.684     0.825     1.173     0.889     3.853    0.956     1.177     8.870      1.20     1.074
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
```

```
* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7592    0.1639    0.0374              0.0107    0.0009    0.0006    0.0252    0.0020    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.773     0.777     1.301     0.875     0.909    0.432     0.792     0.423      1.87     0.788
     Composite NOX :      0.678     0.815     1.163     0.880     3.751    0.929     1.143     8.622      1.18     0.953
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2006
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   33. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7771    0.1669    0.0384              0.0041    0.0009    0.0007    0.0099    0.0020    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.194     1.165     1.921     1.307     2.199    0.718     1.276     0.950      2.98     1.222
     Composite NOX :      0.688     0.798     1.145     0.863     3.040    1.227     1.505    10.444      0.93     0.831
  -----------------------------------------------------------------------------------------------------------------------
```

2016 Davidson County (Metro I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2016\16_DavM.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05METRO.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 49.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6663    0.1440    0.0325              0.0453    0.0006    0.0005    0.1088    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.261     0.328     0.611     0.380     0.350    0.068     0.222     0.199      1.75     0.282
    Composite NOX :      0.204     0.277     0.587     0.334     1.063    0.121     0.377     3.115      1.31     0.585
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 44.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

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

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7442    0.1610    0.0365              0.0159    0.0007    0.0005    0.0382    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.272     0.336     0.630     0.390     0.368    0.071     0.231     0.215      1.79     0.299
     Composite NOX :      0.209     0.282     0.606     0.342     1.036    0.116     0.363     2.891      1.28     0.354
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0375              0.0129    0.0007    0.0005    0.0311    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.276     0.337     0.635     0.393     0.396    0.076     0.245     0.239      1.83     0.304
     Composite NOX :      0.194     0.262     0.563     0.319     0.977    0.101     0.316     2.368      1.19     0.299
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0375              0.0129    0.0007    0.0005    0.0311    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.278     0.338     0.638     0.394     0.402    0.077     0.249     0.245      1.85     0.306
     Composite NOX :      0.193     0.261     0.562     0.318     0.968    0.101     0.314     2.355      1.18     0.298
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7562    0.1630    0.0375              0.0118    0.0007    0.0005    0.0283    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.282     0.340     0.644     0.397     0.415    0.080     0.256     0.257      1.89     0.309
     Composite NOX :      0.192     0.259     0.559     0.315     0.951    0.100     0.311     2.326      1.16     0.288
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.9
            will be used for all hours of the day.  100% of VMT
```

```
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7494    0.1620    0.0375              0.0132    0.0007    0.0005    0.0317    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.269     0.332     0.624     0.387     0.373    0.072     0.234     0.219      1.78     0.300
     Composite NOX :      0.197     0.267     0.570     0.324     1.010    0.106     0.330     2.475      1.21     0.310
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0196    0.0007    0.0005    0.0474    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.275     0.336     0.633     0.391     0.391    0.075     0.243     0.235      1.82     0.305
     Composite NOX :      0.194     0.263     0.564     0.319     0.982    0.102     0.317     2.384      1.19     0.343
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
```

```
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0196    0.0007    0.0005    0.0474    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.273     0.335     0.631     0.390     0.386    0.074     0.240     0.231      1.81     0.304
     Composite NOX :      0.195     0.264     0.565     0.320     0.988    0.102     0.319     2.394      1.19     0.344
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.434     0.496     0.909     0.573     0.823    0.136     0.426     0.545      2.95     0.470
     Composite NOX :      0.208     0.268     0.560     0.323     0.788    0.134     0.417     2.899      0.93     0.262
  ---------------------------------------------------------------------------------------------------------------------
```

2016 Davidson County (State I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2016\16_DavS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 49.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6663    0.1440    0.0325              0.0453    0.0006    0.0005    0.1088    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.267     0.335     0.621     0.387     0.351    0.068     0.222     0.199      1.75     0.288
     Composite NOX :      0.213     0.287     0.598     0.344     1.063    0.121     0.377     3.115      1.31     0.592
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 44.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

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

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7442    0.1610    0.0365              0.0159    0.0007    0.0005    0.0382    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.278     0.343     0.640     0.398     0.369    0.071     0.231     0.215      1.79     0.305
     Composite NOX :      0.218     0.293     0.617     0.353     1.036    0.116     0.363     2.891      1.28     0.363
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0375              0.0129    0.0007    0.0005    0.0311    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.282     0.344     0.645     0.401     0.397    0.076     0.245     0.239      1.83     0.311
     Composite NOX :      0.202     0.272     0.574     0.329     0.977    0.101     0.316     2.368      1.19     0.307
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0375              0.0129    0.0007    0.0005    0.0311    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.284     0.346     0.648     0.403     0.404    0.077     0.249     0.245      1.85     0.313
     Composite NOX :      0.201     0.271     0.573     0.328     0.968    0.101     0.314     2.355      1.18     0.306
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7562    0.1630    0.0375              0.0118    0.0007    0.0005    0.0283    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.288     0.348     0.654     0.405     0.416    0.080     0.256     0.257      1.89     0.316
     Composite NOX :      0.200     0.269     0.570     0.325     0.951    0.100     0.311     2.326      1.16     0.296
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.9
            will be used for all hours of the day.  100% of VMT
```

```
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7494    0.1620    0.0375              0.0132    0.0007    0.0005    0.0317    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.275     0.340     0.634     0.395     0.374    0.072     0.234     0.219      1.78     0.306
     Composite NOX :      0.205     0.277     0.581     0.334     1.010    0.106     0.330     2.475      1.21     0.318
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0196    0.0007    0.0005    0.0474    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.281     0.344     0.643     0.400     0.392    0.075     0.243     0.235      1.82     0.312
     Composite NOX :      0.202     0.273     0.575     0.329     0.982    0.102     0.317     2.384      1.19     0.351
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
```

```
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0196    0.0007    0.0005    0.0474    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.280     0.343     0.641     0.399     0.387    0.074     0.240     0.231      1.81     0.310
     Composite NOX :      0.203     0.273     0.576     0.330     0.988    0.102     0.319     2.394      1.19     0.352
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.443     0.508     0.924     0.586     0.828    0.136     0.426     0.545      2.95     0.480
     Composite NOX :      0.216     0.278     0.571     0.333     0.788    0.134     0.417     2.899      0.93     0.270
  ---------------------------------------------------------------------------------------------------------------------------
```

2016 Rutherford County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2016\16_RutS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 58.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5628    0.1210    0.0276              0.0822    0.0005    0.0004    0.1975    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.262     0.331     0.605     0.382     0.337    0.066     0.216     0.190      2.08     0.286
     Composite NOX :      0.221     0.299     0.616     0.358     1.131    0.162     0.503     4.049      1.57     1.083
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 51.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7175    0.1550    0.0355              0.0252    0.0006    0.0005    0.0607    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.265     0.333     0.616     0.386     0.347    0.068     0.220     0.196      1.74     0.293
     Composite NOX :      0.212     0.287     0.595     0.344     1.072    0.123     0.383     2.872      1.33     0.426
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 54.3
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5628    0.1210    0.0276              0.0822    0.0005    0.0004    0.1975    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.264     0.332     0.611     0.384     0.342    0.067     0.218     0.192      1.83     0.286
     Composite NOX :      0.217     0.294     0.608     0.352     1.100    0.139     0.433     3.528      1.45     0.973
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7175    0.1550    0.0355              0.0252    0.0006    0.0005    0.0607    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.275     0.340     0.634     0.395     0.374    0.072     0.233     0.219      1.78     0.304
     Composite NOX :      0.205     0.277     0.581     0.334     1.011    0.106     0.331     2.480      1.21     0.393
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7472    0.1620    0.0375              0.0138    0.0007    0.0005    0.0333    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.279     0.342     0.640     0.398     0.385    0.074     0.239     0.229      1.80     0.310
     Composite NOX :      0.203     0.274     0.577     0.331     0.992    0.103     0.321     2.412      1.20     0.318
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.7
            will be used for all hours of the day.  100% of VMT
```

```
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7472    0.1620    0.0375              0.0138    0.0007    0.0005    0.0333    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.280     0.343     0.642     0.399     0.389    0.075     0.241     0.232      1.81     0.311
     Composite NOX :      0.203     0.273     0.576     0.330     0.986    0.102     0.318     2.393      1.19     0.317
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
           The user supplied freeway average speed of 55.1
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi

             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6255    0.1350    0.0306              0.0605    0.0006    0.0004    0.1454    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.262     0.331     0.609     0.382     0.339    0.066     0.216     0.190      1.79     0.279
     Composite NOX :      0.216     0.293     0.605     0.350     1.102    0.138     0.430     3.523      1.45     0.775
  ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7492    0.1620    0.0375              0.0138    0.0007    0.0005    0.0333    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.274     0.339     0.632     0.394     0.371    0.071     0.232     0.216      1.77     0.302
     Composite NOX :      0.206     0.278     0.582     0.335     1.017    0.107     0.334     2.508      1.21     0.323
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7492    0.1620    0.0375              0.0138    0.0007    0.0005    0.0333    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      0.278     0.341     0.638     0.397     0.382    0.073     0.237     0.226      1.79     0.306
     Composite NOX :      0.204     0.275     0.578     0.332     0.998    0.104     0.324     2.434      1.20     0.318
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7543    0.1630    0.0375              0.0123    0.0007    0.0005    0.0297    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.286     0.347     0.651     0.404     0.409    0.078     0.252     0.252      1.87     0.313
     Composite NOX :      0.201     0.270     0.572     0.326     0.960    0.100     0.313     2.351      1.17     0.301
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
Composite Emission Factors (g/mi):
    Composite VOC :      0.443     0.508     0.924     0.586     0.828    0.136     0.426     0.545      2.95     0.480
    Composite NOX :      0.216     0.278     0.571     0.333     0.788    0.134     0.417     2.899      0.93     0.270

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

2016 Sumner County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2016\16_SumS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 53.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6264    0.1350    0.0306              0.0603    0.0006    0.0004    0.1447    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.265     0.333     0.614     0.385     0.344    0.067     0.219     0.194      1.75     0.282
     Composite NOX :      0.216     0.292     0.606     0.350     1.090    0.133     0.414     3.382      1.41     0.752
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2016
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7484    0.1620    0.0375              0.0135    0.0007    0.0005    0.0324    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.273     0.338     0.631     0.393     0.368    0.071     0.230     0.213      1.76     0.304
     Composite NOX :      0.206     0.279     0.584     0.336     1.021    0.108     0.336     2.514      1.22     0.323
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2016
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm


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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7484    0.1620    0.0375              0.0135    0.0007    0.0005    0.0324    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.274     0.339     0.633     0.394     0.372    0.072     0.232     0.217      1.77     0.305
     Composite NOX :      0.206     0.278     0.582     0.335     1.014    0.107     0.332     2.487      1.21     0.321
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1630    0.0375              0.0106    0.0007    0.0005    0.0255    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.279     0.342     0.640     0.398     0.386    0.074     0.239     0.229      1.80     0.310
     Composite NOX :      0.203     0.274     0.577     0.330     0.992    0.103     0.320     2.408      1.20     0.298
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1630    0.0375              0.0106    0.0007    0.0005    0.0255    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.278     0.342     0.639     0.397     0.384    0.074     0.238     0.227      1.80     0.309
     Composite NOX :      0.203     0.274     0.577     0.331     0.995    0.103     0.322     2.421      1.20     0.299
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
```

```
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7552    0.1630    0.0375              0.0118    0.0007    0.0005    0.0283    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.267     0.334     0.618     0.387     0.348    0.068     0.221     0.197      1.75     0.294
     Composite NOX :      0.214     0.290     0.602     0.348     1.074    0.126     0.393     3.217      1.35     0.340
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7453    0.1610    0.0365              0.0155    0.0007    0.0005    0.0375    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.273     0.339     0.632     0.393     0.370    0.071     0.231     0.215      1.77     0.301
     Composite NOX :      0.206     0.278     0.583     0.335     1.019    0.107     0.335     2.515      1.21     0.334
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
```

```
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7453    0.1610    0.0365              0.0155    0.0007    0.0005    0.0375    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.278     0.341     0.638     0.396     0.382    0.073     0.237     0.226      1.79     0.305
     Composite NOX :      0.204     0.275     0.578     0.331     0.998    0.104     0.324     2.433      1.20     0.328
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7624    0.1650    0.0375              0.0094    0.0007    0.0005    0.0225    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
```

```
    Composite VOC :      0.283     0.345     0.647     0.401     0.399    0.077     0.247     0.242      1.84     0.310
    Composite NOX :      0.202     0.272     0.574     0.327     0.972    0.101     0.315     2.361      1.18     0.285
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.443     0.508     0.924     0.586     0.828    0.136     0.426     0.545      2.95     0.480
    Composite NOX :      0.216     0.278     0.571     0.333     0.788    0.134     0.417     2.899      0.93     0.270
  ---------------------------------------------------------------------------------------------------------------------
```

2016 Williamson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2016\16_WlmS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 57.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5717    0.1240    0.0286              0.0784    0.0005    0.0004    0.1884    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.262     0.331     0.606     0.382     0.337    0.066     0.216     0.190      2.05     0.287
     Composite NOX :      0.220     0.299     0.615     0.358     1.127    0.158     0.491     3.954      1.55     1.026
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 55.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

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

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5717    0.1240    0.0286              0.0784    0.0005    0.0004    0.1884    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.263     0.331     0.609     0.383     0.340    0.067     0.217     0.191      1.87     0.286
     Composite NOX :      0.217     0.294     0.608     0.353     1.107    0.143     0.445     3.623      1.47     0.960
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7332    0.1590    0.0365              0.0191    0.0007    0.0005    0.0460    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.279     0.342     0.639     0.397     0.384    0.074     0.239     0.228      1.80     0.309
     Composite NOX :      0.203     0.274     0.577     0.331     0.994    0.103     0.322     2.416      1.20     0.350
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0375              0.0121    0.0007    0.0005    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.279     0.343     0.641     0.398     0.387    0.074     0.240     0.231      1.81     0.311
     Composite NOX :      0.203     0.274     0.576     0.330     0.989    0.102     0.319     2.396      1.19     0.306
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0375              0.0121    0.0007    0.0005    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.279     0.343     0.641     0.398     0.387    0.074     0.240     0.231      1.81     0.311
     Composite NOX :      0.203     0.274     0.576     0.330     0.989    0.102     0.319     2.396      1.19     0.306
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 10- National Park
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.5
            will be used for all hours of the day.  100% of VMT
```

```
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0375              0.0121    0.0007    0.0005    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.276     0.340     0.635     0.395     0.376    0.072     0.234     0.221      1.78     0.307
     Composite NOX :      0.205     0.277     0.580     0.333     1.008    0.106     0.329     2.469      1.21     0.311
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
           The user supplied freeway average speed of 50.6
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi

             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6873    0.1480    0.0335              0.0376    0.0006    0.0005    0.0905    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.266     0.334     0.619     0.387     0.349    0.068     0.221     0.198      1.75     0.288
     Composite NOX :      0.213     0.288     0.599     0.346     1.070    0.124     0.385     3.181      1.33     0.540
  ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1620    0.0375              0.0141    0.0007    0.0005    0.0340    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.277     0.341     0.637     0.397     0.381    0.073     0.237     0.224      1.79     0.305
     Composite NOX :      0.204     0.275     0.579     0.332     1.002    0.104     0.325     2.444      1.20     0.320
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1620    0.0375              0.0141    0.0007    0.0005    0.0340    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      0.283     0.345     0.647     0.402     0.400    0.077     0.247     0.242      1.84     0.312
     Composite NOX :      0.202     0.272     0.574     0.328     0.973    0.101     0.315     2.369      1.18     0.314
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7573    0.1640    0.0375              0.0112    0.0007    0.0005    0.0268    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.287     0.347     0.652     0.404     0.412    0.079     0.254     0.253      1.88     0.314
     Composite NOX :      0.200     0.270     0.571     0.326     0.957    0.100     0.312     2.345      1.17     0.294
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
Composite Emission Factors (g/mi):
    Composite VOC :      0.443     0.508     0.924     0.586     0.828    0.136     0.426     0.545      2.95     0.480
    Composite NOX :      0.216     0.278     0.571     0.333     0.788    0.134     0.417     2.899      0.93     0.270

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

2016 Wilson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2016\16_WlsS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 61.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5354    0.1150    0.0266              0.0923    0.0005    0.0004    0.2218    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.260     0.329     0.600     0.380     0.334    0.066     0.216     0.188      2.23     0.284
     Composite NOX :      0.223     0.302     0.620     0.362     1.152    0.179     0.558     4.465      1.64     1.281
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7262    0.1570    0.0355              0.0221    0.0007    0.0005    0.0530    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.272     0.338     0.630     0.392     0.366    0.071     0.229     0.211      1.76     0.301
     Composite NOX :      0.207     0.279     0.584     0.335     1.025    0.108     0.338     2.534      1.22     0.378
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 54.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5354    0.1150    0.0266              0.0923    0.0005    0.0004    0.2218    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.265     0.333     0.612     0.385     0.343    0.067     0.219     0.194      1.88     0.286
     Composite NOX :      0.218     0.295     0.611     0.355     1.102    0.142     0.443     3.586      1.46     1.076
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7262    0.1570    0.0355              0.0221    0.0007    0.0005    0.0530    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.274     0.339     0.632     0.393     0.371    0.071     0.231     0.215      1.77     0.303
     Composite NOX :      0.206     0.278     0.582     0.334     1.018    0.107     0.334     2.506      1.21     0.376
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7563    0.1630    0.0375              0.0109    0.0007    0.0005    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.278     0.341     0.638     0.397     0.382    0.073     0.237     0.226      1.79     0.309
     Composite NOX :      0.204     0.275     0.578     0.332     0.998    0.104     0.324     2.429      1.20     0.301
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.3
            will be used for all hours of the day.  100% of VMT
```

```
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7563    0.1630    0.0375              0.0109    0.0007    0.0005    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.279     0.342     0.640     0.398     0.386    0.074     0.240     0.229      1.80     0.310
     Composite NOX :      0.203     0.274     0.577     0.330     0.990    0.103     0.320     2.401      1.20     0.299
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
           The user supplied freeway average speed of 59.5
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2016
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi

             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5954    0.1290    0.0297              0.0714    0.0005    0.0004    0.1716    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.260     0.329     0.602     0.380     0.334    0.066     0.214     0.187      2.06     0.275
     Composite NOX :      0.220     0.298     0.613     0.357     1.135    0.160     0.500     4.037      1.57     0.965
  ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7464    0.1610    0.0365              0.0152    0.0007    0.0005    0.0367    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.274     0.339     0.633     0.393     0.371    0.071     0.232     0.216      1.77     0.301
     Composite NOX :      0.206     0.278     0.582     0.334     1.016    0.107     0.333     2.502      1.21     0.331
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7464    0.1610    0.0365              0.0152    0.0007    0.0005    0.0367    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      0.277     0.341     0.638     0.396     0.381    0.073     0.237     0.225      1.79     0.305
     Composite NOX :      0.204     0.275     0.579     0.331     0.999    0.104     0.324     2.436      1.20     0.326
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7592    0.1640    0.0375              0.0106    0.0007    0.0005    0.0255    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.284     0.346     0.648     0.402     0.403    0.077     0.249     0.246      1.85     0.311
     Composite NOX :      0.201     0.271     0.573     0.327     0.968    0.101     0.314     2.364      1.18     0.292
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2016
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
Composite Emission Factors (g/mi):
    Composite VOC :      0.443     0.508     0.924     0.586     0.828    0.136     0.426     0.545      2.95     0.480
    Composite NOX :      0.216     0.278     0.571     0.333     0.788    0.134     0.417     2.899      0.93     0.270

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

2025 Davidson County (Metro I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2025\25_DavM.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05METRO.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 48.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6662    0.1440    0.0325              0.0453    0.0006    0.0005    0.1089    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.164     0.197     0.314     0.218     0.174    0.039     0.124     0.173      1.75     0.178
     Composite NOX :      0.097     0.166     0.341     0.198     0.372    0.031     0.176     0.938      1.28     0.222
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 44.3
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
```

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

                  Calendar Year:  2025
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7442    0.1610    0.0365              0.0159    0.0007    0.0005    0.0382    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.171     0.202     0.323     0.224     0.184    0.041     0.129     0.185      1.79     0.187
     Composite NOX :      0.101     0.170     0.355     0.204     0.364    0.030     0.173     0.907      1.26     0.160
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2025
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.203     0.326     0.226     0.205    0.044     0.138     0.208      1.84     0.193
     Composite NOX :      0.093     0.156     0.326     0.188     0.343    0.026     0.153     0.778      1.18     0.139
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
```

```
* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.204     0.327     0.227     0.211    0.045     0.141     0.214      1.87     0.195
     Composite NOX :      0.092     0.155     0.324     0.187     0.340    0.026     0.152     0.773      1.17     0.139
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 34.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7562    0.1630    0.0374              0.0118    0.0007    0.0006    0.0283    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.182     0.206     0.331     0.229     0.219    0.046     0.144     0.223      1.90     0.196
     Composite NOX :      0.092     0.154     0.324     0.186     0.335    0.026     0.151     0.766      1.16     0.135
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.2
```

```
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7494    0.1620    0.0374              0.0133    0.0007    0.0006    0.0316    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.201     0.322     0.224     0.196    0.043     0.134     0.197      1.80     0.192
     Composite NOX :      0.093     0.157     0.328     0.189     0.349    0.027     0.155     0.790      1.20     0.144
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.176     0.203     0.325     0.226     0.204    0.044     0.137     0.207      1.84     0.196
     Composite NOX :      0.093     0.156     0.326     0.188     0.344    0.026     0.153     0.782      1.18     0.154
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.174     0.202     0.323     0.224     0.199    0.043     0.135     0.201      1.82     0.194
     Composite NOX :      0.093     0.157     0.327     0.189     0.347    0.027     0.154     0.787      1.19     0.155
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.305     0.334     0.506     0.366     0.494    0.080     0.241     0.467      2.95     0.325
     Composite NOX :      0.104     0.160     0.321     0.190     0.278    0.035     0.202     1.018      0.93     0.133
  ---------------------------------------------------------------------------------------------------------------------------
```

2025 Davidson County (State I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2025\25_DavS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 48.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6662    0.1440    0.0325              0.0453    0.0006    0.0005    0.1089    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.170     0.205     0.324     0.227     0.175    0.039     0.124     0.173      1.75     0.183
     Composite NOX :      0.106     0.177     0.355     0.209     0.372    0.031     0.176     0.938      1.28     0.229
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 44.3
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

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

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7442    0.1610    0.0365              0.0159    0.0007    0.0005    0.0382    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.210     0.335     0.233     0.185    0.041     0.129     0.185      1.79     0.193
     Composite NOX :      0.110     0.181     0.369     0.216     0.364    0.030     0.173     0.907      1.26     0.169
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.183     0.211     0.337     0.235     0.206    0.044     0.138     0.208      1.84     0.199
     Composite NOX :      0.101     0.166     0.339     0.199     0.343    0.026     0.153     0.778      1.18     0.148
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.185     0.212     0.339     0.236     0.212    0.045     0.141     0.214      1.87     0.201
     Composite NOX :      0.101     0.166     0.338     0.198     0.340    0.026     0.152     0.773      1.17     0.147
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 34.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7562    0.1630    0.0374              0.0118    0.0007    0.0006    0.0283    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.188     0.214     0.342     0.238     0.220    0.046     0.144     0.223      1.90     0.203
     Composite NOX :      0.101     0.165     0.337     0.197     0.335    0.026     0.151     0.766      1.16     0.144
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.2
            will be used for all hours of the day.  100% of VMT
```

```
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7494    0.1620    0.0374              0.0133    0.0007    0.0006    0.0316    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.333     0.232     0.197    0.043     0.134     0.197      1.80     0.199
     Composite NOX :      0.102     0.168     0.341     0.201     0.349    0.027     0.155     0.790      1.20     0.152
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.182     0.211     0.336     0.234     0.205    0.044     0.137     0.207      1.84     0.202
     Composite NOX :      0.101     0.167     0.339     0.199     0.344    0.026     0.153     0.782      1.18     0.163
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
```

```
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.180     0.210     0.334     0.233     0.200    0.043     0.135     0.201      1.82     0.200
     Composite NOX :      0.102     0.168     0.340     0.200     0.347    0.027     0.154     0.787      1.19     0.164
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.314     0.345     0.522     0.378     0.498    0.080     0.241     0.467      2.95     0.335
     Composite NOX :      0.113     0.171     0.334     0.201     0.278    0.035     0.202     1.018      0.93     0.143
  ---------------------------------------------------------------------------------------------------------------------------
```

2025 Rutherford County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2025\25_RutS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5626    0.1210    0.0276              0.0824    0.0005    0.0004    0.1975    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.165     0.202     0.317     0.223     0.164    0.038     0.121     0.164      1.94     0.188
     Composite NOX :      0.110     0.184     0.366     0.218     0.393    0.039     0.224     1.190      1.50     0.374
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 50.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2025
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7174    0.1550    0.0355              0.0253    0.0006    0.0005    0.0607    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.168     0.203     0.321     0.225     0.171    0.039     0.123     0.169      1.74     0.186
     Composite NOX :      0.106     0.177     0.353     0.210     0.375    0.031     0.181     0.929      1.30     0.188
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 52.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2025
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5626    0.1210    0.0276              0.0824    0.0005    0.0004    0.1975    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.167     0.203     0.320     0.225     0.168    0.038     0.122     0.167      1.75     0.189
     Composite NOX :      0.108     0.180     0.360     0.214     0.382    0.034     0.196     1.040      1.38     0.340
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7174    0.1550    0.0355              0.0253    0.0006    0.0005    0.0607    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.207     0.329     0.230     0.187    0.041     0.130     0.187      1.77     0.194
     Composite NOX :      0.103     0.171     0.345     0.203     0.358    0.028     0.161     0.822      1.21     0.178
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7472    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.333     0.232     0.195    0.042     0.133     0.196      1.80     0.198
     Composite NOX :      0.102     0.169     0.342     0.201     0.351    0.027     0.156     0.796      1.20     0.154
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.4
            will be used for all hours of the day.  100% of VMT
```

```
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2025
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7472    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.180     0.210     0.334     0.233     0.200    0.043     0.135     0.200      1.82     0.200
     Composite NOX :      0.102     0.168     0.340     0.200     0.348    0.027     0.154     0.788      1.19     0.153
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
           The user supplied freeway average speed of 54.2
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2025
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi

             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6255    0.1350    0.0306              0.0606    0.0006    0.0004    0.1453    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.165     0.202     0.318     0.223     0.165    0.038     0.121     0.164      1.74     0.178
     Composite NOX :      0.108     0.181     0.360     0.214     0.387    0.035     0.202     1.076      1.42     0.286
  ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7492    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.207     0.330     0.230     0.188    0.041     0.130     0.187      1.78     0.192
     Composite NOX :      0.103     0.171     0.345     0.203     0.357    0.028     0.160     0.821      1.21     0.154
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7492    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.209     0.332     0.232     0.195    0.042     0.133     0.195      1.80     0.194
     Composite NOX :      0.102     0.169     0.342     0.201     0.352    0.027     0.156     0.800      1.20     0.152
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7543    0.1630    0.0374              0.0123    0.0007    0.0006    0.0297    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.186     0.213     0.340     0.236     0.214    0.045     0.141     0.217      1.88     0.200
     Composite NOX :      0.101     0.165     0.337     0.197     0.338    0.026     0.151     0.773      1.17     0.145
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
Composite Emission Factors (g/mi):
    Composite VOC :      0.314     0.345     0.522     0.378     0.498    0.080     0.241     0.467      2.95     0.335
    Composite NOX :      0.113     0.171     0.334     0.201     0.278    0.035     0.202     1.018      0.93     0.143

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

2025 Sumner County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2025\25_SumS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 51.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6264    0.1350    0.0306              0.0603    0.0006    0.0004    0.1447    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.168     0.203     0.321     0.225     0.169    0.039     0.122     0.168      1.75     0.180
    Composite NOX :      0.108     0.180     0.361     0.214     0.381    0.034     0.195     1.035      1.38     0.279
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

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

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7484    0.1620    0.0374              0.0135    0.0007    0.0006    0.0324    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.206     0.328     0.229     0.183    0.040     0.128     0.182      1.76     0.193
     Composite NOX :      0.104     0.172     0.347     0.205     0.361    0.028     0.163     0.834      1.22     0.157
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm


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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7484    0.1620    0.0374              0.0135    0.0007    0.0006    0.0324    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.207     0.329     0.230     0.187    0.041     0.129     0.186      1.77     0.194
     Composite NOX :      0.103     0.171     0.345     0.204     0.358    0.028     0.161     0.820      1.21     0.155
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
```

```
* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1630    0.0374              0.0106    0.0007    0.0006    0.0255    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.180     0.209     0.334     0.233     0.198    0.043     0.134     0.198      1.81     0.199
     Composite NOX :      0.102     0.168     0.341     0.200     0.349    0.027     0.154     0.789      1.19     0.147
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1630    0.0374              0.0106    0.0007    0.0006    0.0255    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.333     0.232     0.197    0.043     0.134     0.198      1.81     0.199
     Composite NOX :      0.102     0.168     0.341     0.200     0.349    0.027     0.155     0.791      1.19     0.147
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7552    0.1630    0.0374              0.0118    0.0007    0.0006    0.0283    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.169     0.204     0.323     0.226     0.172    0.039     0.123     0.170      1.75     0.185
     Composite NOX :      0.107     0.179     0.358     0.212     0.376    0.032     0.185     0.981      1.32     0.160
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7452    0.1610    0.0365              0.0156    0.0007    0.0005    0.0375    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.207     0.329     0.230     0.187    0.041     0.129     0.187      1.77     0.191
     Composite NOX :      0.103     0.171     0.345     0.203     0.358    0.028     0.161     0.824      1.21     0.157
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7452    0.1610    0.0365              0.0156    0.0007    0.0005    0.0375    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.333     0.232     0.196    0.042     0.133     0.196      1.80     0.195
     Composite NOX :      0.102     0.168     0.342     0.200     0.351    0.027     0.155     0.795      1.20     0.155
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7624    0.1650    0.0374              0.0094    0.0007    0.0006    0.0225    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      0.183     0.211     0.337     0.235     0.207    0.044     0.139     0.209      1.85     0.198
     Composite NOX :      0.101     0.166     0.339     0.198     0.342    0.026     0.153     0.777      1.18     0.140
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2025
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.314     0.345     0.522     0.378     0.498    0.080     0.241     0.467      2.95     0.335
     Composite NOX :      0.113     0.171     0.334     0.201     0.278    0.035     0.202     1.018      0.93     0.143
  ---------------------------------------------------------------------------------------------------------------------------
```

2025 Williamson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2025\25_WlmS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 54.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5715    0.1240    0.0286              0.0786    0.0005    0.0004    0.1884    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.166     0.203     0.318     0.224     0.166    0.038     0.121     0.165      1.85     0.188
     Composite NOX :      0.109     0.183     0.364     0.217     0.389    0.037     0.213     1.131      1.46     0.351
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 53.3
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

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

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5715    0.1240    0.0286              0.0786    0.0005    0.0004    0.1884    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.166     0.202     0.319     0.224     0.166    0.038     0.121     0.165      1.75     0.188
     Composite NOX :      0.108     0.181     0.360     0.215     0.385    0.035     0.200     1.063      1.41     0.336
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7332    0.1590    0.0365              0.0191    0.0007    0.0005    0.0460    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.209     0.332     0.232     0.194    0.042     0.133     0.194      1.80     0.198
     Composite NOX :      0.102     0.169     0.342     0.201     0.352    0.027     0.156     0.800      1.20     0.164
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0374              0.0121    0.0007    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.181     0.210     0.335     0.233     0.201    0.043     0.136     0.203      1.82     0.201
     Composite NOX :      0.102     0.167     0.340     0.200     0.346    0.027     0.154     0.786      1.19     0.149
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0374              0.0121    0.0007    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.181     0.210     0.335     0.233     0.200    0.043     0.135     0.201      1.82     0.200
     Composite NOX :      0.102     0.167     0.340     0.200     0.347    0.027     0.154     0.787      1.19     0.150
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 10- National Park
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.7
            will be used for all hours of the day.  100% of VMT
```

```
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2025
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0374              0.0121    0.0007    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.208     0.331     0.231     0.192    0.042     0.132     0.192      1.79     0.196
     Composite NOX :      0.103     0.169     0.343     0.202     0.354    0.027     0.158     0.808      1.20     0.151
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
           The user supplied freeway average speed of 46.6
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2025
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi

             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6872    0.1480    0.0335              0.0377    0.0006    0.0005    0.0905    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.172     0.205     0.326     0.228     0.178    0.040     0.126     0.178      1.75     0.186
     Composite NOX :      0.105     0.175     0.351     0.207     0.367    0.030     0.170     0.906      1.25     0.208
  ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1620    0.0374              0.0141    0.0007    0.0006    0.0340    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.332     0.231     0.193    0.042     0.132     0.193      1.79     0.194
     Composite NOX :      0.103     0.169     0.343     0.202     0.353    0.027     0.157     0.804      1.20     0.153
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1620    0.0374              0.0141    0.0007    0.0006    0.0340    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      0.185     0.212     0.339     0.236     0.212    0.045     0.141     0.214      1.87     0.201
     Composite NOX :      0.101     0.166     0.338     0.198     0.340    0.026     0.152     0.775      1.17     0.150
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7573    0.1640    0.0374              0.0112    0.0007    0.0006    0.0268    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.187     0.213     0.341     0.237     0.217    0.046     0.143     0.221      1.89     0.202
     Composite NOX :      0.101     0.165     0.337     0.197     0.336    0.026     0.151     0.768      1.16     0.143
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
```

```
Composite Emission Factors (g/mi):
    Composite VOC :      0.314     0.345     0.522     0.378     0.498    0.080     0.241     0.467      2.95     0.335
    Composite NOX :      0.113     0.171     0.334     0.201     0.278    0.035     0.202     1.018      0.93     0.143

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

2025 Wilson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-2005\Nashville_Model\Model_Data\AQ\2025\25_WlsS.in
***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 59.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.


* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5354    0.1150    0.0266              0.0924    0.0005    0.0004    0.2217    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.164     0.201     0.314     0.223     0.161    0.038     0.120     0.162      2.09     0.187
    Composite NOX :      0.111     0.186     0.369     0.221     0.401    0.043     0.247     1.316      1.58     0.432
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

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

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7262    0.1570    0.0355              0.0221    0.0007    0.0005    0.0530    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.207     0.329     0.229     0.187    0.041     0.129     0.186      1.77     0.194
     Composite NOX :      0.103     0.171     0.345     0.203     0.358    0.028     0.161     0.824      1.21     0.172
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 53.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5354    0.1150    0.0266              0.0924    0.0005    0.0004    0.2217    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.167     0.203     0.320     0.225     0.167    0.038     0.122     0.167      1.84     0.188
     Composite NOX :      0.109     0.183     0.365     0.217     0.387    0.036     0.210     1.115      1.45     0.384
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.
```

```
* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:

              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7262    0.1570    0.0355              0.0221    0.0007    0.0005    0.0530    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.174     0.206     0.328     0.229     0.185    0.041     0.128     0.184      1.77     0.193
     Composite NOX :      0.104     0.171     0.346     0.204     0.360    0.028     0.162     0.830      1.21     0.172
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7563    0.1630    0.0374              0.0109    0.0007    0.0006    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.209     0.332     0.232     0.194    0.042     0.133     0.194      1.80     0.197
     Composite NOX :      0.102     0.169     0.342     0.201     0.352    0.027     0.156     0.799      1.20     0.149
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.2
```

```
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7563    0.1630    0.0374              0.0109    0.0007    0.0006    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.333     0.232     0.197    0.043     0.134     0.197      1.80     0.199
     Composite NOX :      0.102     0.168     0.341     0.200     0.349    0.027     0.155     0.790      1.20     0.148
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 58.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi

              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5954    0.1290    0.0297              0.0715    0.0005    0.0004    0.1715    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.163     0.201     0.314     0.222     0.161    0.037     0.119     0.161      2.00     0.176
     Composite NOX :      0.110     0.185     0.366     0.219     0.398    0.041     0.234     1.245      1.54     0.345
  ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7465    0.1610    0.0365              0.0152    0.0007    0.0005    0.0366    0.0030    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.176     0.207     0.330     0.230     0.189    0.041     0.130     0.189      1.78     0.192
     Composite NOX :      0.103     0.170     0.344     0.202     0.356    0.028     0.160     0.815      1.21     0.156
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7465    0.1610    0.0365              0.0152    0.0007    0.0005    0.0366    0.0030    1.0000
```

```
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.333     0.232     0.196    0.042     0.133     0.196      1.80     0.195
     Composite NOX :      0.102     0.168     0.341     0.200     0.350    0.027     0.155     0.792      1.20     0.154
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7592    0.1640    0.0374              0.0106    0.0007    0.0006    0.0255    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.185     0.212     0.339     0.236     0.212    0.045     0.141     0.214      1.87     0.199
     Composite NOX :      0.101     0.166     0.338     0.198     0.340    0.026     0.152     0.775      1.17     0.142
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2025
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
```

Composite Emission Factors (g/mi):										
Composite VOC :	0.314	0.345	0.522	0.378	0.498	0.080	0.241	0.467	2.95	0.335
Composite NOX :	0.113	0.171	0.334	0.201	0.278	0.035	0.202	1.018	0.93	0.143

2030 Davidson County (Metro I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030L\3L_DavM.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05METRO.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6662    0.1440    0.0325              0.0453    0.0006    0.0005    0.1089    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.163     0.196     0.285     0.212     0.164    0.038     0.090     0.170      1.75     0.176
     Composite NOX :      0.090     0.153     0.263     0.174     0.203    0.027     0.121     0.583      1.26     0.166
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 43.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

```
                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7442    0.1610    0.0365              0.0159    0.0007    0.0005    0.0382    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.169     0.201     0.293     0.218     0.173    0.039     0.094     0.181      1.79     0.184
     Composite NOX :      0.093     0.157     0.275     0.179     0.199    0.026     0.119     0.570      1.24     0.133
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

  M583 Warning:
            The user supplied arterial average speed of 36.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.176     0.202     0.297     0.220     0.195    0.043     0.102     0.206      1.87     0.191
     Composite NOX :      0.086     0.144     0.250     0.164     0.187    0.023     0.107     0.509      1.17     0.119
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.203     0.298     0.221     0.199    0.044     0.104     0.211      1.88     0.193
     Composite NOX :      0.086     0.143     0.249     0.163     0.186    0.023     0.106     0.506      1.17     0.119
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7562    0.1630    0.0374              0.0118    0.0007    0.0006    0.0283    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.181     0.206     0.302     0.224     0.207    0.045     0.107     0.220      1.92     0.194
     Composite NOX :      0.087     0.144     0.250     0.164     0.183    0.023     0.106     0.506      1.15     0.117
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
```

```
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7494    0.1620    0.0374              0.0133    0.0007    0.0006    0.0316    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.172     0.200     0.293     0.218     0.185    0.041     0.098     0.194      1.82     0.190
     Composite NOX :      0.087     0.146     0.252     0.166     0.191    0.024     0.108     0.517      1.19     0.123
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low

             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.172     0.200     0.293     0.217     0.184    0.041     0.098     0.193      1.81     0.190
     Composite NOX :      0.087     0.146     0.252     0.166     0.192    0.024     0.108     0.519      1.19     0.130
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 8.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.201     0.294     0.218     0.188    0.042     0.099     0.198      1.83     0.192
     Composite NOX :      0.087     0.145     0.251     0.165     0.190    0.024     0.108     0.516      1.19     0.130
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.303     0.332     0.467     0.357     0.452    0.077     0.183     0.451      2.95     0.321
     Composite NOX :      0.098     0.149     0.245     0.167     0.153    0.031     0.143     0.688      0.93     0.120
  ---------------------------------------------------------------------------------------------------------------------------
```

2030 Davidson County (State I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030L\3L_DavS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6662    0.1440    0.0325              0.0453    0.0006    0.0005    0.1089    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.169     0.204     0.296     0.221     0.165    0.038     0.090     0.170      1.75     0.181
     Composite NOX :      0.099     0.164     0.277     0.185     0.203    0.026     0.121     0.582      1.26     0.174
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 43.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

```
                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7442    0.1610    0.0365              0.0159    0.0007    0.0005    0.0382    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.209     0.304     0.226     0.174    0.039     0.094     0.181      1.79     0.190
     Composite NOX :      0.102     0.168     0.290     0.191     0.199    0.026     0.119     0.570      1.24     0.142
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

  M583 Warning:
            The user supplied arterial average speed of 36.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.182     0.211     0.308     0.229     0.196    0.043     0.102     0.206      1.87     0.197
     Composite NOX :      0.095     0.155     0.263     0.175     0.187    0.023     0.107     0.509      1.17     0.128
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.184     0.212     0.309     0.230     0.200    0.044     0.104     0.211      1.88     0.199
     Composite NOX :      0.094     0.154     0.262     0.174     0.186    0.023     0.106     0.506      1.17     0.128
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7562    0.1630    0.0374              0.0118    0.0007    0.0006    0.0283    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.188     0.214     0.313     0.233     0.208    0.045     0.107     0.220      1.92     0.201
     Composite NOX :      0.095     0.155     0.263     0.175     0.183    0.023     0.106     0.506      1.15     0.126
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
```

```
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7494    0.1620    0.0374              0.0133    0.0007    0.0006    0.0316    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.304     0.226     0.186    0.041     0.098     0.194      1.82     0.196
     Composite NOX :      0.095     0.157     0.266     0.177     0.191    0.024     0.108     0.517      1.19     0.132
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low

             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.303     0.226     0.185    0.041     0.098     0.193      1.81     0.196
     Composite NOX :      0.095     0.157     0.266     0.177     0.192    0.024     0.108     0.519      1.19     0.139
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 8.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.305     0.227     0.189    0.042     0.099     0.198      1.83     0.198
     Composite NOX :      0.095     0.156     0.265     0.176     0.190    0.024     0.108     0.516      1.19     0.138
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455    0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153    0.031     0.143     0.688      0.93     0.129
  ---------------------------------------------------------------------------------------------------------------------------
```

2030 Rutherford County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030L\3L_RutS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5626    0.1210    0.0276               0.0824    0.0005    0.0004    0.1975    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.164     0.201     0.289     0.217     0.154    0.037     0.087     0.159      1.81     0.183
     Composite NOX :      0.102     0.171     0.287     0.192     0.213    0.032     0.147     0.711      1.44     0.255
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 49.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

```
                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7174    0.1550    0.0355              0.0253    0.0006    0.0005    0.0607    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.165     0.202     0.292     0.218     0.159    0.037     0.088     0.164      1.74     0.183
     Composite NOX :      0.099     0.165     0.277     0.186     0.206    0.028     0.127     0.608      1.29     0.155
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 51.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5626    0.1210    0.0276              0.0824    0.0005    0.0004    0.1975    0.0080    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.165     0.202     0.291     0.218     0.157    0.037     0.088     0.162      1.75     0.184
     Composite NOX :      0.101     0.169     0.283     0.190     0.210    0.030     0.136     0.656      1.37     0.243
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7174    0.1550    0.0355              0.0253    0.0006    0.0005    0.0607    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.206     0.299     0.223     0.175     0.039     0.094     0.181      1.78     0.191
     Composite NOX :      0.097     0.160     0.269     0.180     0.197     0.025     0.113     0.540      1.21     0.147
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7472    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.176     0.207     0.302     0.225     0.182     0.041     0.096     0.189      1.80     0.195
     Composite NOX :      0.096     0.158     0.267     0.178     0.193     0.024     0.109     0.524      1.20     0.133
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
```

```
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7472    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.304     0.226     0.186    0.041     0.098     0.194      1.82     0.196
     Composite NOX :      0.095     0.157     0.266     0.177     0.191    0.024     0.108     0.518      1.19     0.132
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 52.3
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6255    0.1350    0.0306              0.0606    0.0006    0.0004    0.1453    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.164     0.201     0.290     0.217     0.156    0.037     0.087     0.161      1.74     0.175
     Composite NOX :      0.100     0.168     0.282     0.189     0.210    0.030     0.136     0.657      1.37     0.205
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  M583 Warning:
            The user supplied arterial average speed of 42.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7492    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.206     0.300     0.223     0.176    0.040     0.094     0.182      1.78     0.188
     Composite NOX :      0.097     0.159     0.269     0.180     0.196    0.025     0.112     0.539      1.21     0.133
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7492    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.176     0.207     0.302     0.225     0.182    0.041     0.096     0.189      1.80     0.191
     Composite NOX :      0.096     0.158     0.267     0.178     0.193    0.024     0.110     0.525      1.20     0.131
  ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7543    0.1630    0.0374              0.0123    0.0007    0.0006    0.0297    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.184     0.211     0.309     0.230     0.199    0.044     0.103     0.210      1.88     0.197
     Composite NOX :      0.094     0.154     0.263     0.174     0.186    0.023     0.106     0.509      1.17     0.126
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455    0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153    0.031     0.143     0.688      0.93     0.129
  ---------------------------------------------------------------------------------------------------------------------
```

2030 Sumner County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030L\3L_SumS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 58.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6264    0.1350    0.0306              0.0603    0.0006    0.0004    0.1447    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.161     0.200     0.285     0.215     0.150    0.036     0.085     0.156      2.05     0.172
     Composite NOX :      0.103     0.174     0.291     0.196     0.220    0.037     0.170     0.823      1.56     0.233
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

```
                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7484    0.1620    0.0374              0.0135    0.0007    0.0006    0.0324    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.171     0.205     0.297     0.222     0.170    0.039     0.092     0.176      1.76     0.189
     Composite NOX :      0.097     0.161     0.271     0.182     0.199    0.025     0.115     0.550      1.22     0.136
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7484    0.1620    0.0374              0.0135    0.0007    0.0006    0.0324    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.205     0.299     0.223     0.174    0.039     0.093     0.180      1.77     0.191
     Composite NOX :      0.097     0.160     0.270     0.181     0.197    0.025     0.113     0.541      1.21     0.135
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
```

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

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1630    0.0374              0.0106    0.0007    0.0006    0.0255    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.303     0.226     0.185    0.041     0.098     0.193      1.81     0.196
     Composite NOX :      0.095     0.157     0.266     0.177     0.192    0.024     0.108     0.519      1.19     0.129
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1630    0.0374              0.0106    0.0007    0.0006    0.0255    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.208     0.303     0.225     0.184    0.041     0.097     0.191      1.81     0.195
     Composite NOX :      0.096     0.157     0.266     0.177     0.192    0.024     0.109     0.520      1.19     0.129
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 48.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
```

```
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7552    0.1630    0.0374              0.0118    0.0007    0.0006    0.0283    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.168     0.203     0.295     0.220     0.163    0.038     0.089     0.168      1.75     0.183
     Composite NOX :      0.100     0.166     0.280     0.187     0.205    0.027     0.124     0.596      1.28     0.136
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low

             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7452    0.1610    0.0365              0.0156    0.0007    0.0005    0.0375    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.206     0.299     0.223     0.175    0.039     0.094     0.181      1.78     0.188
     Composite NOX :      0.097     0.160     0.270     0.180     0.197    0.025     0.113     0.541      1.21     0.135
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  M583 Warning:
            The user supplied arterial average speed of 40.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7452    0.1610    0.0365              0.0156    0.0007    0.0005    0.0375    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.208     0.303     0.225     0.183    0.041     0.097     0.190      1.81     0.192
     Composite NOX :      0.096     0.157     0.266     0.177     0.192    0.024     0.109     0.521      1.19     0.132
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12


                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7624    0.1650    0.0374              0.0094    0.0007    0.0006    0.0225    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.181     0.210     0.307     0.228     0.193    0.042     0.101     0.202      1.85     0.194
     Composite NOX :      0.095     0.155     0.264     0.175     0.188    0.023     0.107     0.512      1.18     0.124
```

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

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July

                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ------------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455    0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153    0.031     0.143     0.688      0.93     0.129
  ------------------------------------------------------------------------------------------------------------------------------
```

2030 Williamson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030L\3L_WlmS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 52.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5715    0.1240    0.0286              0.0786    0.0005    0.0004    0.1884    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.164     0.201     0.290     0.218     0.155    0.037     0.087     0.160      1.75     0.184
     Composite NOX :      0.101     0.170     0.285     0.191     0.212    0.031     0.141     0.680      1.41     0.243
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 52.7
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
```

```
                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5715    0.1240    0.0286              0.0786    0.0005    0.0004    0.1884    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.164     0.201     0.290     0.218     0.156    0.037     0.087     0.160      1.75     0.183
     Composite NOX :      0.101     0.169     0.284     0.191     0.211    0.030     0.139     0.672      1.39     0.241
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

  M583 Warning:
            The user supplied arterial average speed of 40.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7332    0.1590    0.0365              0.0191    0.0007    0.0005    0.0460    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.208     0.303     0.225     0.183    0.041     0.097     0.190      1.80     0.195
     Composite NOX :      0.096     0.157     0.266     0.178     0.193    0.024     0.109     0.522      1.20     0.139
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0374              0.0121    0.0007    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.305     0.227     0.188    0.042     0.099     0.197      1.83     0.197
     Composite NOX :      0.095     0.156     0.265     0.176     0.190    0.024     0.108     0.516      1.19     0.130
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0374              0.0121    0.0007    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.304     0.226     0.187    0.041     0.098     0.195      1.82     0.197
     Composite NOX :      0.095     0.156     0.265     0.177     0.191    0.024     0.108     0.517      1.19     0.130
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 10- National Park
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
```

```
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0374              0.0121    0.0007    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.176     0.207     0.302     0.225     0.181    0.041     0.096     0.188      1.80     0.194
     Composite NOX :      0.096     0.158     0.267     0.178     0.193    0.024     0.110     0.525      1.20     0.131
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 45.5
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6872    0.1480    0.0335              0.0377    0.0006    0.0005    0.0905    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.170     0.204     0.297     0.221     0.168    0.039     0.091     0.174      1.76     0.183
     Composite NOX :      0.098     0.162     0.274     0.183     0.200    0.026     0.117     0.563      1.23     0.162
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1620    0.0374              0.0141    0.0007    0.0006    0.0340    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.207     0.302     0.225     0.183    0.041     0.097     0.190      1.80     0.192
     Composite NOX :      0.096     0.157     0.266     0.178     0.193    0.024     0.109     0.522      1.20     0.131
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1620    0.0374              0.0141    0.0007    0.0006    0.0340    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.183     0.211     0.309     0.229     0.199    0.043     0.103     0.209      1.88     0.199
     Composite NOX :      0.095     0.154     0.263     0.175     0.186    0.023     0.106     0.509      1.17     0.129
```

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

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 34.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7573    0.1640    0.0374              0.0112    0.0007    0.0006    0.0268    0.0020    1.0000
  ------------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.185     0.213     0.311     0.231     0.203     0.044     0.105     0.215      1.90     0.199
     Composite NOX :      0.095     0.154     0.262     0.174     0.185     0.023     0.106     0.507      1.16     0.125
  ------------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ------------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455     0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153     0.031     0.143     0.688      0.93     0.129
```

2030 Wilson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030L\3L_WlsS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 60.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5354    0.1150    0.0266              0.0924    0.0005    0.0004    0.2217    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.160     0.199     0.284     0.215     0.149    0.036     0.085     0.155      2.17     0.182
     Composite NOX :      0.104     0.176     0.293     0.198     0.223    0.040     0.185     0.900      1.62     0.317
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

```
                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7262    0.1570    0.0355              0.0221    0.0007    0.0005    0.0530    0.0050    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.304     0.226     0.187    0.041     0.098     0.194      1.82     0.197
     Composite NOX :      0.095     0.157     0.265     0.177     0.191    0.024     0.108     0.517      1.19     0.141
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 53.1
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5354    0.1150    0.0266              0.0924    0.0005    0.0004    0.2217    0.0080    1.0000
 ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.165     0.202     0.290     0.218     0.156    0.037     0.087     0.161      1.83     0.184
     Composite NOX :      0.102     0.171     0.288     0.193     0.213    0.032     0.147     0.709      1.44     0.270
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 44.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7262    0.1570    0.0355              0.0221    0.0007    0.0005    0.0530    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.172     0.205     0.298     0.222     0.172     0.039     0.093     0.177      1.77     0.189
     Composite NOX :      0.097     0.160     0.271     0.181     0.198     0.025     0.114     0.547      1.21     0.145
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7563    0.1630    0.0374              0.0109    0.0007    0.0006    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.207     0.301     0.224     0.180     0.040     0.096     0.186      1.79     0.193
     Composite NOX :      0.096     0.158     0.268     0.179     0.194     0.024     0.110     0.528      1.20     0.130
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
```

```
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7563    0.1630    0.0374              0.0109    0.0007    0.0006    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.208     0.303     0.225     0.184    0.041     0.097     0.191      1.81     0.195
     Composite NOX :      0.096     0.157     0.266     0.177     0.192    0.024     0.109     0.519      1.19     0.129
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5954    0.1290    0.0297              0.0715    0.0005    0.0004    0.1715    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.161     0.200     0.286     0.216     0.151    0.036     0.085     0.156      1.92     0.172
     Composite NOX :      0.102     0.172     0.287     0.194     0.217    0.035     0.158     0.765      1.50     0.241
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7465    0.1610    0.0365              0.0152    0.0007    0.0005    0.0366    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.174     0.206     0.300     0.224     0.178    0.040     0.095     0.184      1.79     0.189
     Composite NOX :      0.096     0.159     0.269     0.179     0.195    0.024     0.112     0.534      1.20     0.133
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7465    0.1610    0.0365              0.0152    0.0007    0.0005    0.0366    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.208     0.303     0.225     0.184    0.041     0.097     0.191      1.81     0.192
     Composite NOX :      0.096     0.157     0.266     0.177     0.192    0.024     0.109     0.519      1.19     0.132
  ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7592    0.1640    0.0374              0.0106    0.0007    0.0006    0.0255    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.183     0.211     0.309     0.229     0.198    0.043     0.103     0.209      1.88     0.197
     Composite NOX :      0.095     0.154     0.263     0.175     0.186    0.023     0.106     0.509      1.17     0.124
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455    0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153    0.031     0.143     0.688      0.93     0.129
  ---------------------------------------------------------------------------------------------------------------------
```

APPENDIX E

EXISTING + COMMITTED NETWORK

Existing + Committed Projects

Project	County	City	Project Location	Termini	Existing Lanes	Future Lanes	Year	Improvement	Project Description
6	Davidson		Conference Dr	Goodlettsville limits to Long Hollow Pk	2	4/5	2006	Widening	4 Lane Divided Median + 5 Lane
65	Davidson	Nashville	2nd Ave S	Gateway Blvd to Union St	0	0	2006	Other	Convert 2 way street to 1 way street
64	Davidson	Nashville	3rd Ave S	Gateway Blvd to Union St	0	0	2006	Other	Convert 1 way street to 2 way street
1	Davidson	Nashville	Brick Church Pk	Brick Church Pike to Briley Pkwy	2	5	2006	Widening	Reconstuct and Widening
2	Davidson	Nashville	Briley Pkwy (SR-155)	Gallatin to I-65	4	8	2006	Roadway	Widen to 8 lanes (2 being HOV lanes) including bridge over Cumberland River
3	Davidson	Nashville	Briley Pkwy (SR-155)	S of Elm Hill to N of Lebanon Rd	4	8	2006	Widening	Widen from 4 to 8 lanes
4	Davidson	Nashville	Briley Pkwy (SR-155)	N of Lebanon Rd to Two Rivers Pkwy	4	8	2006	Widening	Widen from 4 to 8 lanes
5	Davidson	Nashville	Briley Pkwy (SR-155)	N of McGavock Pk to Saunders Rd	4	8	2006	Widening	Widen from 4 to 8 lanes
7	Davidson	Nashville	Franklin St Corridor Phase II	1st Ave to 4th Ave	2	6	2006	Widening	Urban Blvd including pedestrian improvements
63	Davidson	Nashville	Gateway Blvd Bridge	1st Ave to 1st St	0	6	2006	Bridge	Build new 6 lane bridge over Cumberland River
8	Davidson	Nashville	I-65	S of Dickerson to S of OHB	6	10	2006	Roadway	Widen to 10 lanes
9	Davidson	Nashville	I-65	S of OHB to S of SR-386	6	10	2006	Roadway	2 HOV lanes
67	Davidson	Nashville	Lebanon Pk (SR-24/US 70)	Donelson Pk to Stewarts Ferry Pk	3	5	2006	Widening	Widen to 5 lanes
10	Davidson	Nashville	W Trinity Ln	Buena Vista Pk to Whites Creek Pk	2	5	2006	Widening	Widen from 2 to 5 lanes
11	Regionwide		Nashville Area ITS Plan	Various interstates and controlled access facilities	0	0	2006	ITS	Variable message signs, software, hardware
12	Robertson	Springfield	SR-76	I-65 to White House Bypass	2	5	2006	Widening	Widen from 2 to 5 lanes
57	Robertson	Springfield	William Batson Pkwy	Tom Austin Hwy to US-41/SR-11	0	4	2006	New Roadway	Bulid new 4 lane divided roadway
15	Rutherford		I-24	SR-840 to SR-96	4	8	2006	Roadway	Widen from 4 to 8 lanes, including 2 HOV lanes
13	Rutherford		I-24	Elam Rd	0	0	2006	Intersection	Construct new interchange on I-24 at Elam Road
50	Rutherford	Murfreesboro	Greenland Dr	Highland Ave to TN Blvd	2	3	2006	Widening	Widen to 3 lanes
14	Rutherford	Murfreesboro	I-24	Manson Pk	0	0	2006	Intersection	Construct new interchange on I-24 at Manson Pike
51	Rutherford	Murfreesboro	Northfield Blvd	SR-10 to TN Blvd	2	4	2006	Widening	Widen to 4 lane undivided roadway
54	Rutherford	Murfreesboro	Osborne Rd	SR-10 to Emery Rd	2	3	2006	Widening	Widen to 3 lanes
49	Rutherford	Murfreesboro	Sanbyrn Dr/Samsonite Blvd	SR-99 to Broad St	3	5	2006	Widening	Widen to 5 lanes
55	Rutherford	Murfreesboro	Siegel Rd	Sulpher Springs Rd to SR-266	2	3	2006	Widening	Widen to 3 lanes
16	Rutherford	Murfreesboro	SR-96	Overall Cr to I-24	4	5	2006	Widening	Widen from 4 to 5 lanes to provide center turn lane
52	Rutherford	Murfreesboro	TN Blvd Ext	Wenlon Dr to Northfield Blvd	0	3	2006	New Roadway	Extend 3 lane section
21	Sumner		SR-386	W of Station Camp Creek Rd to E of Harris Ln Int.	0	4	2006	New Roadway	Construct new 4 lane roadway
19	Sumner		SR-386	SR-109	0	0	2006	Intersection	Construct new interchange at SR-386 and SR-109
20	Sumner		SR-386	E of Harris Ln Int. to SR-109 Bypass	0	4	2006	New Roadway	Construct new 4 lane roadway
59	Sumner	Gallatin	Big Station Camp Creek Rd	SR-6 to SR-174	0	3	2006	New Roadway	Build new 3 lane roadway
60	Sumner	Hendersonville	Anderson Lane Ext.	SR-6 to Indian Lake Blvd Ext.	0	2	2006	New Roadway	Build new 2 lane roadway
61	Sumner	Hendersonville	Imperial Blvd Ext.	Walton Ferry Rd to Saunders Ferry Rd	0	3	2006	New Roadway	Build new 3 lane roadway
18	Sumner	Hendersonville	Indian Lk Blvd Ext	Exist Indian Lk Blvd (SR-6/US-31) to SR-386	0	5	2006	New Roadway	Construct new 5 lane roadway including center turn lane
17	Sumner	Millersville	Cartwright Pkwy Ext.	SR-41 to US-31W	0	2	2006	New Roadway	Extend Carwright Parkway to allow for connection to I-65
22	Williamson		Hillsboro Rd	Franklin City Limits to Berrys Chapel Rd	2	5	2006	Widening	Widen from 2 to 5 lanes, including center turn lane
68	Williamson		SR-840	SR-6 to SR-106	0	4	2006	New Roadway	Construct new 4 lane roadway
23	Williamson		SR-96	E of I-65 to Arno Rd	2	4	2006	Widening	Widen from 2 to 4 lanes
56	Williamson	Brentwood	Concord Rd	Arrowhead Dr to Edmonson Pk	2	3	2006	Widening	Widen to 3 lanes
47	Williamson	Brentwood	Wilson Pk	McEwen Dr Ext. to Moores Ln	2	2	2006	Reconstruction	Improve roadway to 2-ln standards incl. 12' lanes and 6' shoulders
46	Williamson	Franklin	Liberty Pk Ext.	exist. terminus to Wilson Pk	0	3	2006	New Roadway	Extend roadway to include bikelane and sidewalks
24	Wilson	Lebanon	I-40	US-231 Bypass	0	0	2006	Intersection	Interchange and Bypass
25	Wilson	Lebanon	Lebanon Pk (SR-24/US 70)	Palmer Rd to SR-26	2	5	2006	Widening	Widen from 2 to 5 lanes, including center turn lane
27	Wilson	Lebanon	SR-24/US-70	SR-109 to Palmer Rd	2	5	2006	Widening	Widen from 2 to 5 lanes, including center turn lane

Existing + Committed Projects

Project	County	City	Project Location	Termini	Existing Lanes	Future Lanes	Year	Improvement	Project Description
26	Wilson	Mt. Juliet	SR-171	I-40 to Division St	3	5	2006	Widening	Widen from 3 to 5 lanes
62	Davidson	Nashville	Baptist World Center Drive	Fern to W Trinity Ln	2	5	2016	Widening	Widen to 5 lanes
28	Davidson	Nashville	I-40 East	I-24 to Donelson Pk	6	8	2016	Roadway	Widen from 6 to 8 lanes to provide 2 HOV lanes
66	Davidson	Nashville	Union St	Church St to 6th Ave	0	0	2016	Other	Convert 2 way street to 1 way street
29	Rutherford		I-24 E	US-231 to SR-96	4	8	2016	Widening, Intersection	HOV lanes and new interchange at SR-99
30	Rutherford		SR-840	Beasley Rd Ext.	0	0	2016	Intersection	Construct new interchange on SR-840 at Beasley Road
53	Rutherford	Murfreesboro	Pitts Ln/ Wenlon Dr	Chariot Dr to Dejarnette Ln	2	2	2016	Reconstruction	Reconstruct to 12' lanes/6' shoulder
48	Rutherford	Murfreesboro	Rutherford Blvd	US-231/SR-10 to Ransom Dr	3	5	2016	Widening	Widen to 5 lanes
33	Sumner		SR-109	S of SR-76 to SR-52	2	5	2016	Widening	Widen from 2 to 5 lanes, including center turn lane
32	Sumner		SR-109	Wilson Co Line to SR-109 Bypass	2	5	2016	Widening	Widen from 2 to 5 lanes, including center turn lane
34	Sumner		SR-109	SR-109 Bypass near Crestview Cemetery to Hollis Chapel Rd	2	5	2016	Widening	Widen from 2 to 5 lanes, including center turn lane
35	Sumner		SR-386 Ext.	Exist SR-386 to W of Station Camp Cr Rd	0	4	2016	New Roadway	Construct new 4 lane roadway
58	Sumner	Gallatin	SR-6	N. Water Ave	0	0	2016	Intersection	Realign intersection (safety)
31	Sumner	Hendersonville	Rockland Rd / Imperial Blvd Ext.	Center Point Rd to Imperial Blvd	0	3	2016	New Roadway	Construct new 3 lane roadway
36	Sumner	Hendersonville	Walton Ferry / New Shackle Isle.	Luna Ln to New Shackle Isle Rd	2	3	2016	Widening	Widen to Walton Ferry, Old Shackle Isle as 3 lane sections w/bike lanes. Realign intersection
40	Williamson		SR-840	E of Thompson Sta Rd to SR-6	0	4	2016	New Roadway	Construct new 4 lane roadway
41	Williamson		SR-840	SR-100 to Bending Chestnut Rd	0	4	2016	New Roadway	Construct new 4 lane roadway
39	Williamson		SR-840	Bending Chestnut to E of Thompson Station	0	4	2016	New Roadway	Construct new 4 lane roadway
45	Williamson	Franklin	Carothers Rd Ext	SR-96 to New Liberty Pk	0	4	2016	New Roadway	Extend Roadway as 4-ln undivided with sidewalks
44	Williamson	Franklin	Horton Ln	Willow Springs Subdivision to Downs Blvd	2	2	2016	Reconstruction	Reconstruct to standards and add bike lanes/sidewalk
37	Williamson	Franklin	I-65	McEwen Dr	0	0	2016	Intersection	Construct new interchange on I-65 at McEwen Drive
38	Williamson	Franklin	Mack Hatcher	SR-96 to Franklin Rd (SR-6)	2	4	2016	Widening	Widen from 2 to 4 lanes
43	Wilson	Lebanon	SR-109	Division St to S of Lebanon Pk (SR-24/US-70)	2	5	2016	Widening	Widen from 2 to 5 lanes, including center turn lane
42	Wilson	Mt. Juliet	I-40	Beckwith Ln	0	0	2016	Intersection	Construct new interchange on I-40 at Beckwith Lane

2030 E+C Emissions

		2030E Emission Factors								2030E Emissions	
			Metro EF [gpm]		State EF [gpm]						
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT (76%)	VMT (24%)	Ramp VMT	VOC	NO_x
Davidson Co.	6	40.2	0.189	0.123	0.195	0.132	162,683	51,374		0.04	0.03
	7	37.2	0.193	0.129	0.200	0.138	58,565	18,494		0.02	0.01
	8	38.3	0.192	0.130	0.198	0.138	215,131	67,936		0.06	0.04
	11	46.5	0.177	0.164	0.182	0.171	9,144,341	2,887,687	479,811	2.46	2.29
	12	48.5	0.184	0.133	0.190	0.142	1,420,585	448,606	479,811	0.48	0.35
	14	35.7	0.192	0.119	0.199	0.128	4,119,897	1,301,020		1.16	0.72
	16	34.9	0.194	0.119	0.200	0.127	3,399,325	1,073,471		0.96	0.60
	17	33.3	0.195	0.117	0.202	0.126	969,610	306,193		0.28	0.17
	Local	12.9	0.182	0.111	0.331	0.129	1,414,686	446,743		0.45	0.24
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Rutherford Co.	1	55.9	n/a	n/a	0.183	0.254	916,349		52,976	0.20	0.27
	2	49.4			0.183	0.155	731,943			0.15	0.13
	3	52.2			0.185	0.239	1,068,197		52,976	0.23	0.30
	6	41.2			0.193	0.146	360,304			0.08	0.06
	7	39.0			0.197	0.132	597,312			0.13	0.09
	8	38.5			0.198	0.132	1,053,242			0.23	0.15
	11	51.9			0.176	0.202	2,795,267		52,976	0.55	0.63
	14	40.9			0.191	0.131	1,158,699			0.24	0.17
	16	39.2			0.193	0.130	912,149			0.19	0.13
	17	35.1			0.198	0.126	419,930			0.09	0.06
	Local	12.9			0.331	0.129	963,279			0.35	0.14
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Sumner Co.	1	50.5	n/a	n/a	0.178	0.197	516,096		32,726	0.11	0.12
	2	43.1			0.191	0.135	304,916			0.06	0.05
	6	41.6			0.193	0.134	626,830			0.13	0.09
	7	39.2			0.196	0.129	266,697			0.06	0.04
	8	40.0			0.195	0.129	373,189			0.08	0.05
	12	49.2			0.183	0.136	585,184		32,726	0.12	0.09
	14	42.3			0.189	0.134	1,198,233			0.25	0.18
	16	38.5			0.194	0.132	468,361			0.10	0.07
	17	36.7			0.195	0.123	483,091			0.10	0.07
	Local	12.9			0.331	0.129	612,424			0.22	0.09
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Williamson Co.	1	51.7	n/a	n/a	0.186	0.232	1,079,946		74,675	0.24	0.30
	3	51.6			0.185	0.232	2,131,548		74,675	0.45	0.56
	6	37.4			0.199	0.137	1,210,165			0.27	0.18
	7	36.7			0.200	0.129	616,281			0.14	0.09
	8	38.6			0.197	0.130	1,393,523			0.30	0.20
	10	41.2			0.194	0.132	63,513			0.01	0.01
	11	48.0			0.181	0.165	1,756,286		74,675	0.37	0.33
	14	37.0			0.197	0.130	534,154			0.12	0.08
	16	34.3			0.201	0.129	739,846			0.16	0.11
	17	34.0			0.200	0.125	427,254			0.09	0.06
	Local	12.9			0.331	0.129	801,724			0.29	0.11
	Class	Speed*	VOC	NO_x	VOC	NO_x	VMT		Ramp VMT	VOC	NO_x
Wilson Co.	1	59.0	n/a	n/a	0.182	0.289	730,706		30,762	0.15	0.24
	2	42.1			0.192	0.143	82,439			0.02	0.01
	3	55.7			0.184	0.268	391,010		30,762	0.09	0.12
	6	42.7			0.191	0.144	708,614			0.15	0.11
	7	40.6			0.194	0.130	372,239			0.08	0.05
	8	39.7			0.196	0.129	523,653			0.11	0.07
	11	55.3			0.173	0.229	1,537,107		30,762	0.30	0.40
	14	40.6			0.191	0.132	442,498			0.09	0.06
	16	39.2			0.193	0.132	310,892			0.07	0.05
	17	35.8			0.197	0.124	234,215			0.05	0.03
	Local	12.9			0.331	0.129	465,017			0.17	0.07

Total Region Emissions: ***13.30*** ***10.65***

Summer VMT: ***62,352,745***

2002 E+C Davidson County (Metro I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030E\3E_DavM.out R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05Metro.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 98.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 45.8 Freeway 95.7 0 0 4.3
VMT FRACTIONS      :
0.6668 0.0333 0.1107 0.0226 0.0104 0.0495 0.0049 0.0041
0.0031 0.0111 0.0131 0.0142 0.0505 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.6 Freeway 72.1 0 0 27.9
VMT FRACTIONS      :
0.7449 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014

0.0011 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.7 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 34.9 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 33.3 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.2 Arterial
VMT FRACTIONS      :
0.7501 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0041 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
```

```
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.2 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.3 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.4 Arterial
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 E+C Davidson County (State I/M)

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030E\3E_DavS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 45.8 Freeway 95.7 0 0 4.3
VMT FRACTIONS      :
0.6668 0.0333 0.1107 0.0226 0.0104 0.0495 0.0049 0.0041
0.0031 0.0111 0.0131 0.0142 0.0505 0.0025 0.0012 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.6 Freeway 72.1 0 0 27.9
VMT FRACTIONS      :
0.7449 0.0372 0.1238 0.0253 0.0117 0.0174 0.0017 0.0014

0.0011 0.0039 0.0046 0.005 0.0177 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 14- Urban Major Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.7 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 34.9 Arterial
VMT FRACTIONS      :
0.753 0.0374 0.1246 0.026 0.012 0.0142 0.0014 0.0012
0.0009 0.0032 0.0037 0.004 0.0144 0.0007 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 33.3 Arterial
VMT FRACTIONS      :
0.7569 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 6- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.2 Arterial
VMT FRACTIONS      :
0.7501 0.0374 0.1246 0.026 0.012 0.0145 0.0014 0.0012
0.0009 0.0032 0.0038 0.0041 0.0148 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
```

```
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.2 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.3 Arterial
VMT FRACTIONS      :
0.733 0.0365 0.1215 0.0253 0.0117 0.0215 0.0021 0.0018
0.0013 0.0048 0.0057 0.0062 0.022 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 E+C Rutherford County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030E\3E_RutS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 53.7 Freeway 93.5 0 0 6.5
VMT FRACTIONS      :
0.5631 0.028 0.093 0.0192 0.0088 0.09 0.0089 0.0074
0.0056 0.0201 0.0237 0.0258 0.0918 0.0045 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 49.4 Arterial
VMT FRACTIONS      :
0.718 0.0358 0.1192 0.0247 0.0113 0.0277 0.0027 0.0023
0.0017 0.0062 0.0073 0.0079 0.0282 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 50.8 Freeway 94.4 0 0 5.6
VMT FRACTIONS      :
0.5631 0.028 0.093 0.0192 0.0088 0.09 0.0089 0.0074
0.0056 0.0201 0.0237 0.0258 0.0918 0.0045 0.0021 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.2 Arterial
VMT FRACTIONS      :
0.718 0.0358 0.1192 0.0247 0.0113 0.0277 0.0027 0.0023
0.0017 0.0062 0.0073 0.0079 0.0282 0.0014 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39 Arterial
VMT FRACTIONS      :
0.7479 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.5 Arterial
VMT FRACTIONS      :
0.7479 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 51.4 Freeway 97.9 0 0 2.1
VMT FRACTIONS      :
0.6261 0.0312 0.1038 0.0212 0.0098 0.0662 0.0065 0.0055
0.0041 0.0148 0.0175 0.019 0.0675 0.0033 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.9 Arterial
VMT FRACTIONS      :
0.7499 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.2 Arterial
VMT FRACTIONS      :
0.7499 0.0374 0.1246 0.026 0.012 0.0151 0.0015 0.0013
0.0009 0.0034 0.004 0.0043 0.0154 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 35.1 Arterial
VMT FRACTIONS      :
0.755 0.0377 0.1253 0.026 0.012 0.0135 0.0013 0.0011
0.0008 0.003 0.0036 0.0039 0.0138 0.0007 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 Sumner County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030E\3E_SumS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 49 Freeway 93.3 0 0 6.7
VMT FRACTIONS      :
0.627 0.0312 0.1038 0.0212 0.0098 0.0659 0.0065 0.0055
0.0041 0.0147 0.0174 0.0189 0.0672 0.0033 0.0015 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 43.1 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.6 Arterial
VMT FRACTIONS      :
0.7491 0.0374 0.1246 0.026 0.012 0.0148 0.0015 0.0012
0.0009 0.0033 0.0039 0.0042 0.0151 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.2 Arterial
VMT FRACTIONS      :
0.7579 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40 Arterial
VMT FRACTIONS      :
0.7579 0.0377 0.1253 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 12- Urban Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 48 Freeway 93.9 0 0 6.1
VMT FRACTIONS      :
0.7559 0.0377 0.1253 0.026 0.012 0.0129 0.0013 0.0011
0.0008 0.0029 0.0034 0.0037 0.0131 0.0006 0.0003 0.003
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 42.3 Arterial
VMT FRACTIONS      :
0.7459 0.0372 0.1238 0.0253 0.0117 0.017 0.0017 0.0014
0.0011 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.5 Arterial
VMT FRACTIONS      :
0.7459 0.0372 0.1238 0.0253 0.0117 0.017 0.0017 0.0014
0.0011 0.0038 0.0045 0.0049 0.0174 0.0009 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.7 Arterial
VMT FRACTIONS      :
0.7631 0.0381 0.1269 0.026 0.012 0.0103 0.001 0.0009
0.0006 0.0023 0.0027 0.0029 0.0105 0.0005 0.0002 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 Williamson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030E\3E_WlmS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 49.9 Freeway 92.6 0 0 7.4
VMT FRACTIONS      :
0.572 0.0286 0.0954 0.0199 0.0091 0.0859 0.0085 0.0071
0.0053 0.0192 0.0226 0.0246 0.0875 0.0043 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 50.7 Freeway 96.3 0 0 3.7
VMT FRACTIONS      :
0.572 0.0286 0.0954 0.0199 0.0091 0.0859 0.0085 0.0071
0.0053 0.0192 0.0226 0.0246 0.0875 0.0043 0.002 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37.4 Arterial
VMT FRACTIONS      :
0.7339 0.0367 0.1223 0.0253 0.0117 0.0209 0.0021 0.0017
0.0013 0.0047 0.0055 0.006 0.0213 0.0011 0.0005 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 36.7 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 38.6 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 10- National Park
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 41.2 Arterial
VMT FRACTIONS      :
0.753 0.0377 0.1253 0.026 0.012 0.0132 0.0013 0.0011
0.0008 0.0029 0.0035 0.0038 0.0134 0.0007 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 47.2 Freeway 95.4 0 0 4.6
VMT FRACTIONS      :
0.6878 0.0342 0.1138 0.0233 0.0107 0.0412 0.0041 0.0034
0.0025 0.0092 0.0109 0.0118 0.042 0.0021 0.001 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 37 Arterial
VMT FRACTIONS      :
0.7489 0.0374 0.1246 0.026 0.012 0.0154 0.0015 0.0013
0.001 0.0035 0.0041 0.0044 0.0157 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 34.3 Arterial
VMT FRACTIONS      :
0.7489 0.0374 0.1246 0.026 0.012 0.0154 0.0015 0.0013
0.001 0.0035 0.0041 0.0044 0.0157 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 34 Arterial
VMT FRACTIONS      :
0.758 0.0379 0.1261 0.026 0.012 0.0122 0.0012 0.001
0.0008 0.0027 0.0032 0.0035 0.0125 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 Wilson County

```
MOBILE6 INPUT FILE
POLLUTANTS         : HC NOx
REPORT FILE        : C:\Mobile62\2030_out\2030E\3E_WlsS.OUT R

RUN DATA
EXPRESS HC AS VOC
NO REFUELING
MIN/MAX TEMPERATURE: 64.7 86.5
FUEL RVP           : 7.8
I/M DESC FILE      : C:\Mobile62\05State.IM
ANTI-TAMP PROG     :
95 75 30 22222 21111111 1 11 95.0 12211112
VMT BY HOUR        : C:\Mobile62\vmt_hour.d

*      *** Scenario #1 ***
SCENARIO RECORD    : 1- Rural Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 57.2 Freeway 95.5 0 0 4.5
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.101 0.01 0.0084
0.0062 0.0226 0.0266 0.0289 0.1029 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #2 ***
SCENARIO RECORD    : 2- Rural Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.1 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0241 0.0024 0.002
0.0015 0.0054 0.0064 0.0069 0.0246 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #3 ***
SCENARIO RECORD    : 3- Rural Freeway
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 53 Freeway 91.6 0 0 8.4
VMT FRACTIONS      :
0.5359 0.0266 0.0884 0.0185 0.0085 0.101 0.01 0.0084
0.0062 0.0226 0.0266 0.0289 0.1029 0.0051 0.0024 0.008
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #4 ***
SCENARIO RECORD    : 6- Rural Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 42.7 Arterial
VMT FRACTIONS      :
0.7269 0.0363 0.1207 0.0247 0.0113 0.0241 0.0024 0.002
0.0015 0.0054 0.0064 0.0069 0.0246 0.0012 0.0006 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #5 ***
SCENARIO RECORD    : 7- Rural Major Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.6 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0027 0.0031 0.0034 0.0121 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #6 ***
SCENARIO RECORD    : 8- Rural Minor Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.7 Arterial
VMT FRACTIONS      :
0.757 0.0377 0.1253 0.026 0.012 0.0119 0.0012 0.001
0.0007 0.0027 0.0031 0.0034 0.0121 0.0006 0.0003 0.005
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #7 ***
SCENARIO RECORD    : 11- Urban Interstate
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
```

```
ALTITUDE           : 1
AVERAGE SPEED      : 54.6 Freeway 97.8 0 0 2.2
VMT FRACTIONS      :
0.5959 0.0298 0.0992 0.0206 0.0095 0.0781 0.0077 0.0065
0.0048 0.0175 0.0206 0.0224 0.0797 0.0039 0.0018 0.002
VMT BY FACILITY    : C:\Mobile62\F-only.vmt

*      *** Scenario #8 ***
SCENARIO RECORD    : 14- Urban Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 40.6 Arterial
VMT FRACTIONS      :
0.7472 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0014
0.001 0.0037 0.0044 0.0048 0.017 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #9 ***
SCENARIO RECORD    : 16- Urban Minor Arterial
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
AVERAGE SPEED      : 39.2 Arterial
VMT FRACTIONS      :
0.7472 0.0372 0.1238 0.0253 0.0117 0.0167 0.0016 0.0014
0.001 0.0037 0.0044 0.0048 0.017 0.0008 0.0004 0.003
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #10 ***
SCENARIO RECORD    : 17- Urban Collector
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1

AVERAGE SPEED      : 35.8 Arterial
VMT FRACTIONS      :
0.7599 0.0379 0.1261 0.026 0.012 0.0116 0.0011 0.001
0.0007 0.0026 0.0031 0.0033 0.0118 0.0006 0.0003 0.002
VMT BY FACILITY    : C:\Mobile62\A-only.vmt

*      *** Scenario #11 ***
SCENARIO RECORD    : Local
CALENDAR YEAR      : 2030
EVALUATION MONTH   : 7
ALTITUDE           : 1
VMT FRACTIONS      :
0.778 0.0386 0.1284 0.0267 0.0123 0.0045 0.0004 0.0004
0.0003 0.001 0.0012 0.0013 0.0046 0.0002 0.0001 0.002
VMT BY FACILITY    : C:\Mobile62\L-only.vmt

END OF RUN
```

2030 E+C Davidson County (Metro I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030E\3E_DavM.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05METRO.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 45.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                     Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6662    0.1440    0.0325              0.0453    0.0006    0.0005    0.1089    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.164     0.197     0.286     0.213     0.167    0.038     0.091     0.173      1.76     0.177
     Composite NOX :      0.090     0.152     0.262     0.172     0.201    0.026     0.118     0.568      1.24     0.164
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 43.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7442    0.1610    0.0365              0.0159    0.0007    0.0005    0.0382    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.169     0.200     0.293     0.217     0.173     0.039     0.094     0.180      1.79     0.184
     Composite NOX :      0.093     0.157     0.274     0.178     0.199     0.026     0.119     0.569      1.24     0.133
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # #

  M583 Warning:
            The user supplied arterial average speed of 35.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.203     0.298     0.221     0.198     0.043     0.103     0.209      1.88     0.192
     Composite NOX :      0.086     0.144     0.249     0.163     0.186     0.023     0.106     0.507      1.17     0.119
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 34.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.204     0.299     0.222     0.201    0.044     0.105     0.213      1.89     0.194
     Composite NOX :      0.086     0.143     0.248     0.163     0.185    0.023     0.106     0.505      1.16     0.119
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7562    0.1630    0.0374              0.0118    0.0007    0.0006    0.0283    0.0020    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.182     0.206     0.303     0.224     0.208    0.045     0.107     0.222      1.93     0.195
     Composite NOX :      0.087     0.144     0.250     0.164     0.183    0.023     0.106     0.506      1.15     0.117
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
```

```
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7494    0.1620    0.0374              0.0133    0.0007    0.0006    0.0316    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.171     0.200     0.292     0.217     0.182    0.041     0.097     0.190      1.80     0.189
     Composite NOX :      0.087     0.146     0.253     0.166     0.192    0.024     0.109     0.521      1.20     0.123
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low

              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.202     0.296     0.219     0.192    0.042     0.101     0.203      1.85     0.193
     Composite NOX :      0.086     0.145     0.250     0.164     0.188    0.023     0.107     0.513      1.18     0.129
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
```

```
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.201     0.294     0.218     0.188    0.042     0.099     0.198      1.83     0.192
     Composite NOX :      0.087     0.145     0.251     0.165     0.190    0.024     0.108     0.516      1.19     0.130
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12


                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
```

Composite VOC :	0.169	0.199	0.291	0.216	0.179	0.040	0.095	0.186	1.79	0.182
Composite NOX :	0.087	0.147	0.254	0.167	0.194	0.024	0.111	0.529	1.20	0.111

2030 E+C Davidson County (State I/M)

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030E\3E_DavS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 45.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6662    0.1440    0.0325              0.0453    0.0006    0.0005    0.1089    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.170     0.204     0.297     0.221     0.168    0.038     0.091     0.173      1.76     0.182
     Composite NOX :      0.098     0.163     0.275     0.184     0.201    0.026     0.118     0.568      1.24     0.171
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 43.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
```

```
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7442    0.1610    0.0365              0.0159    0.0007    0.0005    0.0382    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.208     0.304     0.226     0.174    0.039     0.094     0.180      1.79     0.190
     Composite NOX :      0.102     0.168     0.289     0.190     0.199    0.026     0.119     0.569      1.24     0.142
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Major Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # #

  M583 Warning:
            The user supplied arterial average speed of 35.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.184     0.211     0.309     0.230     0.199    0.043     0.103     0.209      1.88     0.199
     Composite NOX :      0.095     0.154     0.263     0.175     0.186    0.023     0.106     0.507      1.17     0.128
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 34.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
```

```
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1620    0.0374              0.0130    0.0007    0.0006    0.0310    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.185     0.212     0.310     0.230     0.202    0.044     0.105     0.213      1.89     0.200
     Composite NOX :      0.094     0.154     0.262     0.174     0.185    0.023     0.106     0.505      1.16     0.127
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7562    0.1630    0.0374              0.0118    0.0007    0.0006    0.0283    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.188     0.215     0.314     0.233     0.209    0.045     0.107     0.222      1.93     0.202
     Composite NOX :      0.096     0.155     0.264     0.175     0.183    0.023     0.106     0.506      1.15     0.126
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Arterial
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
```

```
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7494    0.1620    0.0374              0.0133    0.0007    0.0006    0.0316    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.208     0.303     0.225     0.183    0.041     0.097     0.190      1.80     0.195
     Composite NOX :      0.096     0.157     0.266     0.178     0.192    0.024     0.109     0.521      1.20     0.132
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 37.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low

              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.181     0.210     0.307     0.228     0.193    0.042     0.101     0.203      1.85     0.200
     Composite NOX :      0.095     0.155     0.264     0.176     0.188    0.023     0.107     0.513      1.18     0.138
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
```

```
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7323    0.1580    0.0365              0.0197    0.0007    0.0005    0.0473    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.305     0.227     0.189    0.042     0.099     0.198      1.83     0.198
     Composite NOX :      0.095     0.156     0.265     0.176     0.190    0.024     0.108     0.516      1.19     0.138
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455    0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153    0.031     0.143     0.688      0.93     0.129
  ---------------------------------------------------------------------------------------------------------------------------
```

2030 E+C Rutherford County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030E\3E_RutS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 53.7
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5626    0.1210    0.0276               0.0824    0.0005    0.0004    0.1975    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.164     0.201     0.289     0.217     0.155    0.037     0.087     0.160      1.80     0.183
     Composite NOX :      0.102     0.171     0.286     0.192     0.213    0.032     0.146     0.705      1.43     0.254
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 49.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

```
                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7174    0.1550    0.0355               0.0253    0.0006    0.0005    0.0607    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.166     0.202     0.292     0.219     0.160    0.037     0.088     0.165      1.74     0.183
     Composite NOX :      0.099     0.165     0.276     0.186     0.206    0.027     0.125     0.603      1.28     0.155
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 50.8
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5626    0.1210    0.0276               0.0824    0.0005    0.0004    0.1975    0.0080    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.166     0.202     0.292     0.219     0.158    0.037     0.088     0.163      1.75     0.185
     Composite NOX :      0.101     0.168     0.282     0.189     0.209    0.029     0.133     0.642      1.34     0.239
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7174    0.1550    0.0355              0.0253    0.0006    0.0005    0.0607    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.207     0.301     0.224     0.180    0.040     0.096     0.187      1.79     0.193
     Composite NOX :      0.096     0.158     0.267     0.178     0.194    0.024     0.110     0.528      1.20     0.146
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7472    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.304     0.226     0.187    0.041     0.098     0.195      1.82     0.197
     Composite NOX :      0.095     0.156     0.265     0.177     0.191    0.024     0.108     0.518      1.19     0.132
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
```

```
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7472    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.305     0.227     0.189    0.042     0.099     0.197      1.83     0.198
     Composite NOX :      0.095     0.156     0.265     0.177     0.190    0.024     0.108     0.517      1.19     0.132
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 51.4
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6255    0.1350    0.0306              0.0606    0.0006    0.0004    0.1453    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.165     0.201     0.291     0.218     0.157    0.037     0.087     0.162      1.74     0.176
     Composite NOX :      0.100     0.167     0.281     0.188     0.209    0.029     0.133     0.642      1.34     0.202
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  M583 Warning:
            The user supplied arterial average speed of 40.9
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7492    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.176     0.207     0.302     0.225     0.181    0.040     0.096     0.188      1.80     0.191
     Composite NOX :      0.096     0.158     0.267     0.178     0.194    0.024     0.110     0.527      1.20     0.131
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7492    0.1620    0.0374              0.0138    0.0007    0.0006    0.0333    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.304     0.226     0.186    0.041     0.098     0.194      1.82     0.193
     Composite NOX :      0.095     0.157     0.266     0.177     0.191    0.024     0.108     0.518      1.19     0.130
  ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7543    0.1630    0.0374              0.0123    0.0007    0.0006    0.0297    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.185     0.212     0.310     0.230     0.201    0.044     0.104     0.213      1.89     0.198
     Composite NOX :      0.094     0.154     0.262     0.174     0.185    0.023     0.106     0.507      1.16     0.126
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455    0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153    0.031     0.143     0.688      0.93     0.129
  ---------------------------------------------------------------------------------------------------------------------
```

2030 E+C Sumner County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030E\3E_SumS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6264    0.1350    0.0306              0.0603    0.0006    0.0004    0.1447    0.0020    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.167     0.203     0.294     0.220     0.161    0.037     0.089     0.166      1.75     0.178
     Composite NOX :      0.100     0.167     0.281     0.188     0.206    0.028     0.127     0.611      1.30     0.197
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 43.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

```
                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7484    0.1620    0.0374              0.0135    0.0007    0.0006    0.0324    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.206     0.299     0.223     0.174    0.039     0.094     0.180      1.77     0.191
     Composite NOX :      0.097     0.160     0.270     0.180     0.197    0.025     0.113     0.540      1.21     0.135
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7484    0.1620    0.0374              0.0135    0.0007    0.0006    0.0324    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.207     0.301     0.224     0.179    0.040     0.095     0.185      1.79     0.193
     Composite NOX :      0.096     0.158     0.268     0.179     0.195    0.024     0.111     0.530      1.20     0.134
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
```

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

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1630    0.0374              0.0106    0.0007    0.0006    0.0255    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.304     0.226     0.186    0.041     0.098     0.194      1.82     0.196
     Composite NOX :      0.095     0.157     0.266     0.177     0.191    0.024     0.108     0.518      1.19     0.129
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7572    0.1630    0.0374              0.0106    0.0007    0.0006    0.0255    0.0050    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.208     0.303     0.225     0.184    0.041     0.097     0.191      1.81     0.195
     Composite NOX :      0.096     0.157     0.266     0.177     0.192    0.024     0.109     0.520      1.19     0.129
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 12- Urban Freeway
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 48.0
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
```

```
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7552    0.1630    0.0374              0.0118    0.0007    0.0006    0.0283    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.168     0.203     0.295     0.220     0.163    0.038     0.090     0.168      1.75     0.183
     Composite NOX :      0.100     0.166     0.279     0.187     0.204    0.027     0.124     0.594      1.27     0.136
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low

             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7452    0.1610    0.0365              0.0156    0.0007    0.0005    0.0375    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.174     0.206     0.300     0.223     0.177    0.040     0.094     0.183      1.78     0.189
     Composite NOX :      0.096     0.159     0.269     0.179     0.196    0.024     0.112     0.536      1.21     0.134
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  M583 Warning:
            The user supplied arterial average speed of 38.5
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7452    0.1610    0.0365              0.0156    0.0007    0.0005    0.0375    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.305     0.227     0.189    0.042     0.099     0.197      1.83     0.194
     Composite NOX :      0.095     0.156     0.265     0.176     0.190    0.024     0.108     0.517      1.19     0.132
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12


                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7624    0.1650    0.0374              0.0094    0.0007    0.0006    0.0225    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.182     0.210     0.307     0.228     0.195    0.043     0.102     0.205      1.86     0.195
     Composite NOX :      0.095     0.155     0.264     0.175     0.188    0.023     0.107     0.510      1.18     0.123
```

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

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July

                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ------------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455    0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153    0.031     0.143     0.688      0.93     0.129
  ------------------------------------------------------------------------------------------------------------------------------
```

2030 E+C Williamson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030E\3E_WlmS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 49.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5715    0.1240    0.0286              0.0786    0.0005    0.0004    0.1884    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.166     0.203     0.293     0.219     0.160    0.037     0.088     0.165      1.75     0.186
     Composite NOX :      0.101     0.168     0.282     0.189     0.207    0.029     0.131     0.631      1.33     0.232
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 50.7
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
```

```
                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5715    0.1240    0.0286              0.0786    0.0005    0.0004    0.1884    0.0080    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.165     0.202     0.291     0.219     0.158    0.037     0.088     0.163      1.75     0.185
     Composite NOX :      0.100     0.167     0.281     0.188     0.208    0.029     0.132     0.634      1.33     0.232
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #

  M583 Warning:
            The user supplied arterial average speed of 37.4
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7332    0.1590    0.0365              0.0191    0.0007    0.0005    0.0460    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.181     0.210     0.306     0.228     0.192    0.042     0.101     0.202      1.85     0.199
     Composite NOX :      0.095     0.155     0.264     0.176     0.189    0.023     0.107     0.514      1.18     0.137
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 36.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0374              0.0121    0.0007    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.182     0.210     0.307     0.228     0.195    0.043     0.102     0.205      1.86     0.200
     Composite NOX :      0.095     0.155     0.264     0.175     0.188    0.023     0.107     0.512      1.18     0.129
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 38.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0374              0.0121    0.0007    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.179     0.209     0.305     0.227     0.188    0.042     0.099     0.196      1.83     0.197
     Composite NOX :      0.095     0.156     0.265     0.177     0.190    0.024     0.108     0.517      1.19     0.130
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 10- National Park
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
```

```
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7523    0.1630    0.0374              0.0121    0.0007    0.0006    0.0289    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.175     0.207     0.301     0.224     0.180    0.040     0.096     0.187      1.79     0.194
     Composite NOX :      0.096     0.158     0.268     0.179     0.194    0.024     0.110     0.529      1.20     0.132
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 47.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.6872    0.1480    0.0335              0.0377    0.0006    0.0005    0.0905    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.168     0.204     0.295     0.220     0.165    0.038     0.090     0.170      1.75     0.181
     Composite NOX :      0.099     0.164     0.277     0.185     0.203    0.027     0.122     0.585      1.26     0.165
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  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.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1620    0.0374              0.0141    0.0007    0.0006    0.0340    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.181     0.210     0.307     0.228     0.194    0.043     0.101     0.203      1.86     0.197
     Composite NOX :      0.095     0.155     0.264     0.176     0.188    0.023     0.107     0.512      1.18     0.130
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 34.3
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7482    0.1620    0.0374              0.0141    0.0007    0.0006    0.0340    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.186     0.213     0.312     0.232     0.205    0.044     0.106     0.217      1.91     0.201
     Composite NOX :      0.095     0.154     0.263     0.175     0.184    0.023     0.106     0.507      1.16     0.129
```

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

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 34.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7573    0.1640    0.0374              0.0112    0.0007    0.0006    0.0268    0.0020    1.0000
  ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.187     0.214     0.312     0.232     0.206    0.045     0.106     0.218      1.91     0.200
     Composite NOX :      0.095     0.154     0.263     0.175     0.184    0.023     0.106     0.507      1.16     0.125
  ------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455    0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153    0.031     0.143     0.688      0.93     0.129
```

2030 E+C Wilson County

```
************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                           *
* Input file: MOBILE6.IN (file 1, run 1).                              *
************************************************************************
*   *** INPUT FILE: P:\MPO\Model (TransCAD)\Tennessee-Model\nashville\UPDATE-
2005\Nashville_Model\Model_Data\AQ\2030\2030E\3E_WlsS.in ***
  M603 Comment:
               User has disabled the calculation of REFUELING emissions.


* Reading I/M program description records from the following external
* data file: C:\MOBILE62\05STATE.IM

* Reading Hourly VMT distribution from the following external
* data file: C:\MOBILE62\VMT_HOUR.D

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 1- Rural Interstate
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 57.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5354    0.1150    0.0266              0.0924    0.0005    0.0004    0.2217    0.0080    1.0000
  ----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.162     0.200     0.286     0.216     0.151    0.036     0.086     0.156      1.98     0.182
     Composite NOX :      0.103     0.173     0.289     0.195     0.218    0.035     0.163     0.787      1.52     0.289
  ----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 2- Rural Arterial
* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.1
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

```
                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.7262    0.1570    0.0355              0.0221    0.0007    0.0005    0.0530    0.0050    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.174     0.206     0.300     0.224     0.177    0.040     0.095     0.184      1.78     0.192
     Composite NOX :      0.096     0.159     0.268     0.179     0.195    0.024     0.112     0.534      1.20     0.143
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 3- Rural Freeway
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 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 a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2030
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  64.7 (F)
            Maximum Temperature:  86.5 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   7.8 psi
                  Weathered RVP:   7.6 psi
            Fuel Sulfur Content:   30. ppm

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

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.5354    0.1150    0.0266              0.0924    0.0005    0.0004    0.2217    0.0080    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.165     0.202     0.290     0.218     0.156    0.037     0.087     0.161      1.80     0.184
     Composite NOX :      0.102     0.171     0.287     0.193     0.212    0.032     0.145     0.698      1.43     0.268
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 6- Rural Minor Arterial
* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 42.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT
```

```
  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7262    0.1570    0.0355              0.0221    0.0007    0.0005    0.0530    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.173     0.206     0.300     0.223     0.176    0.040     0.094     0.182      1.78     0.191
     Composite NOX :      0.097     0.159     0.269     0.180     0.196    0.025     0.112     0.538      1.21     0.144
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 7- Rural Major Collector
* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 40.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7563    0.1630    0.0374              0.0109    0.0007    0.0006    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.176     0.207     0.302     0.225     0.182    0.041     0.096     0.189      1.80     0.194
     Composite NOX :      0.096     0.158     0.267     0.178     0.193    0.024     0.110     0.524      1.20     0.130
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 8- Rural Minor Collector
* File 1, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.7
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
```

```
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7563    0.1630    0.0374              0.0109    0.0007    0.0006    0.0261    0.0050    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.177     0.208     0.303     0.226     0.185    0.041     0.097     0.192      1.81     0.196
     Composite NOX :      0.095     0.157     0.266     0.177     0.192    0.024     0.109     0.519      1.19     0.129
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 11- Urban Interstate
* File 1, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M582 Warning:
            The user supplied freeway average speed of 54.6
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M615 Comment:
              User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2030
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  64.7 (F)
             Maximum Temperature:  86.5 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   7.8 psi
                   Weathered RVP:   7.6 psi
             Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.5954    0.1290    0.0297              0.0715    0.0005    0.0004    0.1715    0.0020    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.163     0.200     0.288     0.216     0.153    0.036     0.086     0.158      1.76     0.173
     Composite NOX :      0.101     0.170     0.284     0.191     0.214    0.032     0.145     0.700      1.43     0.229
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* 14- Urban Arterial
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  M583 Warning:
            The user supplied arterial average speed of 40.6
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7465    0.1610    0.0365              0.0152    0.0007    0.0005    0.0366    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.176     0.207     0.302     0.225     0.182    0.041     0.096     0.189      1.80     0.191
     Composite NOX :      0.096     0.158     0.267     0.178     0.193    0.024     0.110     0.524      1.20     0.132
  ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 16- Urban Minor Arterial
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 39.2
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7465    0.1610    0.0365              0.0152    0.0007    0.0005    0.0366    0.0030    1.0000
  ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.178     0.208     0.304     0.226     0.186    0.041     0.098     0.194      1.82     0.193
     Composite NOX :      0.095     0.157     0.266     0.177     0.191    0.024     0.108     0.518      1.19     0.132
  ---------------------------------------------------------------------------------------------------------------------------
```

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* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 17- Urban Collector
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.8
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\A-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7592    0.1640    0.0374              0.0106    0.0007    0.0006    0.0255    0.0020    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.183     0.211     0.309     0.229     0.198    0.043     0.103     0.209      1.88     0.197
     Composite NOX :      0.095     0.154     0.263     0.175     0.186    0.023     0.106     0.509      1.17     0.124
  -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Local
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M615 Comment:
               User supplied VMT mix.

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\MOBILE62\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2030
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  64.7 (F)
              Maximum Temperature:  86.5 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:   30. ppm

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

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
   VMT Distribution:    0.7773    0.1670    0.0384              0.0041    0.0007    0.0006    0.0099    0.0020    1.0000
  -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.312     0.344     0.483     0.370     0.455    0.077     0.183     0.451      2.95     0.331
     Composite NOX :      0.107     0.160     0.258     0.178     0.153    0.031     0.143     0.688      0.93     0.129
  -----------------------------------------------------------------------------------------------------------------------
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APPENDIX F

DEMONSTRATION OF FINANCIAL CONSTRAINT

LIST OF LONG RANGE TRANSPORTATION PROJECTS

Demonstration of Financial Constraint

Revenue estimates for the 2030 Long Range Transportation Plan include two basic assumptions:

1) the MPO's allocations of Surface Transportation Program funds and Congestion Mitigation & Air Quality Improvement funds will grow at an annual rate of 2 percent from existing levels. Existing levels are defined as the most recent funding allocation received through TDOT. As the new highway bill has not yet been passed, the 2005 allocation remains an estimate. The most recent year's allocation is therefore 2004, and

2) other state and federal funds will be programmed by the Tennessee Department of Transportation (TDOT) at an average level of $85 million annually and will grow at an annual rate of 2 percent. This funding level was provided to the Nashville Area MPO by TDOT and was based on TDOT's review of historic funding levels and annual increases. These assumptions result in fiscal constraint over the life of the Long Range Plan, as required by the metropolitan planning regulations in TEA-21.

Although not explicitly required by federal regulations, fiscal constraint was also measured by each horizon year of the Plan in order to demonstrate the probability that all projects will be completed within the timeframes to which they were assigned for the conformity determination. The Plan also meets this standard with the following assumptions: First, it is understood that a margin of error must be allowed in cost estimates for individual projects, especially since projects in the long-range planning stage typically have not yet had detailed engineering reports. Second, revenue will be supplemented by TDOT as needed to complete large-scale projects proposed in the Plan. In past years, TDOT has committed funding to the MPO in excess of the average level in order to complete major projects. More than $858 million was programmed in the FY2002-2004 and FY2004-2006 Transportation Improvement Programs, including one year in which funding from TDOT exceeded $198 million.

Results of the projected revenue by horizon year are compared to the expenditures (project costs) in the Plan and are shown in the tables on the next page.

For a more detailed account of the funding revenues and expenditures, please refer to the full text of the 2030 Long Range Transportation Plan.

Summary of Revenue and and Project Costs

Highway			
Horizon Year	Revenue	Expenditures	Difference
2016	1,683,090,000	1,683,018,063	71,937
2025	1,320,021,000	852,515,166	467,505,834
2030	821,338,000	778,182,000	43,156,000
Total	3,824,449,000	3,313,715,229	510,733,771

Highway - Operations & Maintenance			
Horizon Year	Revenue	Expenditures	Difference
2016	613,422,000	613,422,000	-
2025	611,403,000	611,403,000	-
2030	389,815,000	389,815,000	-
Total	1,614,640,000	1,614,640,000	-

Transit			
Horizon Year	Revenue	Expenditures	Difference
2016	193,311,000	187,144,020	6,166,980
2025	140,120,000	65,930,300	74,189,700
2030	85,575,000	18,650,000	66,925,000
Total	419,006,000	271,724,320	147,281,680

Transit - Operations & Maintenance			
Horizon Year	Revenue	Expenditures	Difference
2016	457,216,000	457,216,000	-
2025	489,422,000	489,422,000	-
2030	298,240,000	298,240,000	-
Total	1,244,878,000	1,244,878,000	-

FHWA Funded Projects

Project	County	City	Project Location	Termini	Length [mi.]	Existing Lanes	Future Lanes	Year	Cost	Improvement	Requested By	Project Description	Exempt From Conformity
1019	Davidson	Goodlettsville	Dickerson Pike (US-41/31W)	CSX to County line	0.30	4	5	2016	$1,100,000	Widening	Metropolitan Nashville/ Davidson County	Unskew intersection by realignment (safety related)	
1001	Davidson	Nashville	12th Avenue South	Inner loop to Ashwood Avenue	1.50	5	4	2016	$5,200,000	Reconstruction	Metropolitan Nashville/ Davidson County	Convert from 5-lane to 4-lane boulevard with median	X
1002	Davidson	Nashville	21st Avenue	Broadway to I-440	0.00	0	0	2016	$200,000	Bicycle/Pedestrian	Metropolitan Nashville/ Davidson County	ADA upgrade to standard	X
1003	Davidson	Nashville	28th Avenue North	Charlotte Avenue to I-40	1.00	2	5	2016	$6,000,000	Widening	Nashville Chamber of Commerce	Widen from 2 to a maximum of 5 lanes	
1004	Davidson	Nashville	31st Avenue North Extension	From Park Plaza Data Center parking lot to Charlotte Ave. at intersection of 28th Ave. North	0.40	0	4	2016	$6,000,000	New Roadway	Nashville Chamber of Commerce	Extend facility through the Data Center parking lot, over the CSX railroad tracks, and connect to Charlotte Avenue at the intersection of 28th Avenue North	
1005	Davidson	Nashville	31st Avenue/Blakemore	Park Plaza to 12th Avenue	0.00	0	0	2016	$200,000	Bicycle/Pedestrian	Metropolitan Nashville/ Davidson County	ADA upgrade to standard	X
1071	Davidson	Nashville	Antioch Pike	Richards Road to Murfreesboro Pike	3.70	2	4	2016	$12,900,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lane boulevard, including new railroad bridge and some new alignment	
1070	Davidson	Nashville	Arterial Monitoring System (Phase 2, 3)	County-wide	0.00	0	0	2016	$1,700,000	ITS	Metropolitan Nashville/ Davidson County	Traffic monitoring detection system - phases 2 and 3	X
1006	Davidson	Nashville	Bell Road	Murfreesboro Pike to Smith Springs (interim) Stewarts Ferry Pike (ultimate)	5.80	2	3	2016	$8,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen existing 2-lane roadway to provide a center turn lane	
1007	Davidson	Nashville	Blue Hole Road	Pettus Road to Bell Road	1.40	2	4	2016	$6,900,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1009	Davidson	Nashville	Briley Parkway (SR-155)	Murfreesboro Pike to I-40	2.00	4	4	2016	$6,000,000	Reconstruction	Metropolitan Nashville/ Davidson County	Reconstruct to Expressway Standards - Purchase Rights to Property Access (Access Control)	X
1010	Davidson	Nashville	Cane Ridge Road	Southeast Arterial to Bell Road	2.30	2	4	2016	$7,700,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1078	Davidson	Nashville	Central Pike (SR-265)	US-70/SR-24 to Wilson County Line	3.90	2	5	2016	$7,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes, including two railroad bridges	
1012	Davidson	Nashville	Chandler Road	A. Jackson Pkwy to Wilson County Line	2.40	2	4	2016	$8,900,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1013	Davidson	Nashville	Church Street East	Brentwood city limits to Cloverland	0.50	2	4	2016	$1,800,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1015	Davidson	Nashville	Clarksville Pike (SR-112)	Hydes Ferry Pike to Briley Parkway	2.10	2	5	2016	$8,300,000	Widening	TDOT	Widen from 2 to 5 lanes, including a center turn lane	
1014	Davidson	Nashville	Clarksville Pike (SR-112)	West Hamilton Avenue	0.00	0	0	2016	$1,000,000	Intersection	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1016	Davidson	Nashville	Cloverland Drive	Old Hickory Boulevard to Edmondson Pike	2.00	2	3	2016	$4,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen existing 2-lane roadway to provide a center turn lane	
1067	Davidson	Nashville	Davidson Signal System	County-wide	0.00	0	0	2016	$18,000,000	ITS	Metropolitan Nashville/ Davidson County	County-wide signal optimization: LED program	X
1018	Davidson	Nashville	Demonbreun Street	12th Avenue to 1st Avenue	0.80	2	4	2016	$6,200,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1134	Davidson	Nashville	Donelson Pike (SR-255)	I-40 to Elm Hill Pike	0.60	5	7	2016	$3,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 5 to 7 lanes	
1020	Davidson	Nashville	Due West	Dickerson Pike to east of I-65	1.14	2	5	2016	$4,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1021	Davidson	Nashville	Edmondson Pike	Williamson County Line (Near Smithson Ln) to Old Hickory Blvd	2.00	2	5	2016	$7,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1023	Davidson	Nashville	Ellington Parkway (US-31E/SR-6)	North 1st Street to Broadmoor Drive	4.30	4	6	2016	$9,000,000	Widening	TDOT	Widen from 4 to 6 lanes	
1150	Davidson	Nashville	Franklin Road	Gale Lane	0.00	0	0	2016	$50,000	Bicycle/Pedestrian		Provide pedestrian markings at intersections	X
1024	Davidson	Nashville	Gallatin Pike (SR-6)	Due West Avenue	0.00	0	0	2016	$1,500,000	Intersection	Metropolitan Nashville/ Davidson County	Left turn lanes on all 4 legs	X
1026	Davidson	Nashville	Gallatin Pike (SR-6)	Walton Lane to St. Joseph's School	0.10	4	5	2016	$802,750	Widening	Metropolitan Nashville/ Davidson County	Widen existing 4-lane roadway to provide center turn-lane - Includes Cost for adding Bike Lanes	X
1025	Davidson	Nashville	Gallatin Pike (SR-6)	Conference Drive	0.10	4	6	2016	$2,002,750	Intersection	MPO	Widen from 4 to 6 lanes (per Gallatin Corridor Study) to provide dual turn lanes - Includes Cost for adding Bike Lanes	X
1027	Davidson	Nashville	Gallatin Pike (SR-6)	Briley Pkwy to Lakewood	0.25	0	0	2016	$32,000	Bicycle/Pedestrian	Metropolitan Nashville/ Davidson County	Construct sidewalks	X
1028	Davidson	Nashville	Gallatin Road (SR-6)	Neely's Bend; Conference Drive	0.00	0	0	2016	$176,500	Intersection	MPO	Signal and turn-lane impr. at two intersections (per Gallatin Corridor Study)	X
1029	Davidson	Nashville	Gateway Boulevard (Franklin Street Corridor)	8th Avenue South to 4th Avenue South	0.30	2	6	2016	$25,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 6 lanes with divided median	
1031	Davidson	Nashville	Harding Place (SR-255)	I-24 to CSX railroad	0.60	5	7	2016	$6,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 5 to 7 lanes	
1032	Davidson	Nashville	Harding Place (SR-255)	Trousdale Drive to I-24	3.40	0	0	2016	$425,000	Bicycle/Pedestrian	Metropolitan Nashville/ Davidson County	Construct sidewalks	X
1085	Davidson	Nashville	Harding Place Extension (SR-255)	Ezell Pike to I-40	4.30	0	4	2016	$44,000,000	New Roadway	TDOT	Construct new roadway as 4/6 lanes, inc. interchange at I-40	
1030	Davidson	Nashville	Harding Place/Battery Ln	Granny White Pike, Leland, Franklin Rd	0.00	0	0	2016	$3,000,000	Intersection	Metropolitan Nashville/ Davidson County	Add turn lanes at Granny White Pk, Lealand Ln, and Franklin Rd	X
1008	Davidson	Nashville	Harding Quadrant Connector	Ridgefield to White Bridge Road	0.80	0	3	2016	$7,000,000	New Roadway	Metropolitan Nashville/ Davidson County	Construct 3-lane roadway with sidewalks; grade separated at Harding Road	
1034	Davidson	Nashville	Hillsboro Pike	Crestmoor Road to Castleman Rd	0.75	0	0	2016	$4,000,000	Bicycle/Pedestrian	Metropolitan Nashville/ Davidson County	Construct sidewalks	X
1036	Davidson	Nashville	I-24 E	Harding Place	0.00	0	0	2016	$4,000,000	Intersection	TDOT	Construct urban diamond interchange, Phase I	X
1090	Davidson	Nashville	I-24; I-40	East and west of Fesslers Lane (I-65 to I-24/I-40 junction)	2.20	6	12	2016	$50,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 6 to 12 lanes; dual-dual roadway concept; upgrade to full interchange with Fesslers	
1092	Davidson	Nashville	I-40	Broadway (SR-1)	0.00	0	0	2016	$3,000,000	Intersection	Metropolitan Nashville/ Davidson County	Urban diamond interchange and 2-lane on-ramps	X
1033	Davidson	Nashville	I-40	Donelson Pike/SR-255	1.72	4	4	2016	$19,256,000	Intersection	Metropolitan Nashville/ Davidson County	Realign Donelson Pike; reconstruct to a single point urban interchange	X
1037	Davidson	Nashville	I-40 E	Donelson to Old Hickory	4.30	6	8	2016	$13,500,000	Widening	TDOT	Widen from 6 to 8 lanes	
1038	Davidson	Nashville	I-40 W	28th Avenue/ Jefferson Street	0.00	0	0	2016	$2,000,000	Intersection	TN House of Reps - Davidson County Delegation	Redesign exits to allow both right and left turns	X
1093	Davidson	Nashville	I-40 W	US-70S to I-440	7.60	6	8	2016	$24,900,000	HOV	TDOT	Widen to 8 lanes, 2 being HOV lanes	

FHWA Funded Projects

Project	County	City	Project Location	Termini	Length [mi.]	Existing Lanes	Future Lanes	Year	Cost	Improvement	Requested By	Project Description	Exempt From Conformity
1091	Davidson	Nashville	I-65 (Add bridges)	I-40 to I-65	2.50	6	8	2016	$18,000,000	HOV	Metropolitan Nashville/ Davidson County	Widen to 8 lanes, 2 being HOV lanes	
1097	Davidson	Nashville	I-65 (renamed)	Metrocenter Boulevard	0.00	0	0	2016	$1,500,000	Intersection	Metropolitan Nashville/ Davidson County	Upgrade interchange to urban diamond	X
1041	Davidson	Nashville	I-65 N	Vietnam Veterans Boulevard (SR-386)	0.00	0	0	2016	$5,000,000	Intersection	Metropolitan Nashville/ Davidson County	Construct Ramps from SB I-65 to EB Vietnam Vets Blvd and WB Vietnam Vets Blvd to NB I-65	
1039	Davidson	Nashville	I-65 N	Trinity Lane to Briley	3.05	6	10	2016	$9,000,000	Widening	TDOT	Widen from 6 to 10 lanes w/2 being HOV	
1040	Davidson	Nashville	I-65 N	Fern Avenue underpass	0.20	0	0	2016	$2,000,000	Reconstruction	Metropolitan Nashville/ Davidson County	Replace underpass to accommodate 5 or 6 lanes in each direction	X
1099	Davidson	Nashville	I-65 S	I-40 to I-440	6.50	6	8	2016	$17,500,000	HOV	TDOT	Widen to 8 lanes, 2 being HOV lanes	
1100	Davidson	Nashville	I-65 South HOV Connection	11th and 12th Avenues	0.40	0	1	2016	$6,000,000	HOV	TDOT	HOV Ramps to and from the CBD	
1069	Davidson	Nashville	ITS Communications Program	County-wide	0.00	0	0	2016	$2,000,000	ITS	Metropolitan Nashville/ Davidson County	Replace ITS, signal communications, integration, wayfinding signage/message boards	X
1042	Davidson	Nashville	Jefferson Street	28th Avenue to Cowan Street	1.50	0	0	2016	$3,696,000	Intersection	MPO	Left turn lanes on all 4 legs (Cowan St, 8th Ave N, 10th Ave N, 12th Ave N, DB Todd Ave, 21st Ave N, 28th/Ed Temple Blvd)	X
1043	Davidson	Nashville	Lebanon Pike (SR-24 / US-70)	Fairfield Avenue to Fesslers Lane	0.80	2	4	2016	$1,022,000	Widening	TDOT	Upgrade from 2/5 lanes to 4/5 lanes - Includes Cost for adding Bike Lanes	
1068	Davidson	Nashville	Multi-Modal Enhancements	County-wide	0.00	0	0	2016	$1,100,000	ITS	Metropolitan Nashville/ Davidson County	ADA and pedestrian crossing	X
1044	Davidson	Nashville	Murfreesboro Pike (SR-1)	Fesslers Lane	0.00	0	0	2016	$2,000,000	Intersection	Metropolitan Nashville/ Davidson County	Left turn lanes (major only)	X
1045	Davidson	Nashville	Murfreesboro Road (SR-1)	Donelson to Harding Place extension	1.00	4	6	2016	$1,067,500	Widening	TDOT	Widen from 4 to 6 lanes - Includes Cost for adding Bike Lanes	
1136	Davidson	Nashville	Myatt Drive	OHB to Gallatin Pike	3.30	2	5	2016	$7,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1046	Davidson	Nashville	Neely's Bend	Gallatin Pike (SR-6) to Hermitage Rd #2	2.60	2	4	2016	$800,000	Widening	MPO	Widen 2 to 4 lanes, Add turn-lanes, signal, turn-lane impr. at Randy (per Gallatin Corr. Study)	
1048	Davidson	Nashville	Nolensville Pike (SR-11)	Thompson Lane	0.00	0	0	2016	$2,500,000	Intersection	Metropolitan Nashville/ Davidson County	Double left turn lanes on Nolensville; left turn lanes on intersecting street	X
1049	Davidson	Nashville	Nolensville Road (SR-11)	Burkitt Rd to Old Hickory Boulevard	2.80	2	5	2016	$6,000,000	Widening	Davidson County/ Williamson County	Widen from 2 to 5 lanes	
1050	Davidson	Nashville	Old Harding Road	SR-100 to SR-1/US-70S	3.20	2	5	2016	$12,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1106	Davidson	Nashville	Old Hickory Boulevard (SR-45)	Gallatin Pike to Cumberland River	2.10	4	4	2016	$5,000,000	Reconstruction	Metropolitan Nashville/ Davidson County	Reconstruct to Expressway Standards - Purchase Rights to Property Access (Access Control)	X
1051	Davidson	Nashville	Old Hickory Boulevard (SR-45)	Bell Road to I-40	1.60	2	3	2016	$2,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1107	Davidson	Nashville	Old Hickory Boulevard (SR-45)	I-24 to Dickerson Pike	2.80	2	5	2016	$8,500,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1052	Davidson	Nashville	Rural Hill Road	Murfreesboro Pike to Mt. View Road	2.00	2	5	2016	$5,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1053	Davidson	Nashville	Saundersville Road	Shutes Lane to Wilson County line	1.10	2	3	2016	$4,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1054	Davidson	Nashville	Smith Springs Road	Bell Road to Hobson Pike	3.30	2	5	2016	$9,800,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes, including new roadway	
1056	Davidson	Nashville	Southeast Parkway	I-24 to Murfreesboro Road	2.33	0	4	2016	$8,000,000	New Roadway	Metropolitan Nashville/ Davidson County	Construct new 4-lane parkway with median & interchange at I-24	
1055	Davidson	Nashville	Southeast Parkway	Concord Road to I-24	3.77	0	4	2016	$12,000,000	New Roadway	Metropolitan Nashville/ Davidson County	Construct new 4-lane parkway with median & interchange at I-24 and at crossings with arterials and collectors	
1057	Davidson	Nashville	Spence Lane	Elm Hill Pike to Lebanon PK (SR-24)	1.50	2	5	2016	$10,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1058	Davidson	Nashville	SR-100	OHB to Natchez Trace(interim)/County Line (ultimate)	8.50	2	4	2016	$25,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes as a scenic highway w/divided median	
1113	Davidson	Nashville	Stewarts Ferry Pike	Lauer Drive to Lebanon Pike	2.00	2	5	2016	$3,600,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1059	Davidson	Nashville	Trinity Lane	Dickerson Pike to Gallatin Pike (Luton to Overby)	1.70	3	5	2016	$2,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 3 to 5 lanes	
1060	Davidson	Nashville	Tulip Grove Road	Central Pike to Lebanon Pike	3.00	2	5	2016	$15,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes, including new railroad bridge	
1063	Davidson	Nashville	Una-Antioch Pike	Hickory Hollow	0.00	0	0	2016	$3,000,000	Intersection	Metropolitan Nashville/ Davidson County	Wident to 3 lanes; left turn lanes on all 4 legs - provide for adequate left turn storage	
1064	Davidson	Nashville	US-70 (Harding)	Hillwood to Bosley Springs (St. Thomas)	0.70	4	6	2016	$5,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 4 to 6 lanes	
1065	Davidson	Nashville	West End Avenue	25th Avenue to 31st Avenue	0.00	0	0	2016	$200,000	Bicycle/Pedestrian	Metropolitan Nashville/ Davidson County	ADA and pedestrian signals	X
8004	Regionwide		Minor Intersection Improvements	Region-wide	0.00	0	0	2016	$2,500,000	ITS		Minor intersection improvements - CMS and safety-related	X
8005	Regionwide		Nashville Area ITS Plan	Region-wide	0.00	0	0	2016	$11,000,000	ITS	Metropolitan Nashville/ Davidson County	Phase 1 and 2 of ITS Plan	X
8006	Regionwide		Regionwide Pedestrian and Bikeway Development	Region-wide	0.00	0	0	2016	$3,000,000	Bicycle/Pedestrian		Regionwide bikeway and pedestrian projects	X
8001	Regionwide	RTA	Regional Ridesharing	Region-wide	0.00	0	0	2016	$7,571,000	Transit		Match and promote rideshares, guaranteed ride home	X
8002	Regionwide	RTA	Seat Guarantee Program	Region-wide	0.00	0	0	2016	$2,600,000	Transit		Provide assistance for start-up vanpools	X
8003	Regionwide	RTA	Vehicle Purchase	Region-wide	0.00	0	0	2016	$3,545,000	Transit		Expand commuter vanpool fleet, acquiring minivans and larger vans	X
3009	Robertson	Springfield	SR-49 (5th Avenue)	Central Avenue	0.00	0	0	2016	$100,000	Intersection	City of Springfield	Add separated left turn lanes	X
3010	Robertson	Springfield	SR-65/US-431	22nd Avenue	0.00	0	0	2016	$90,000	Intersection	City of Springfield	Springfield SR-65/US-431 add turn lanes on all legs	X
3004	Robertson	Springfield	SR-65/US-431	US-41/SR-11 to Batson Pkwy	2.10	2	5	2016	$7,820,000	Widening	City of Springfield	Widen from 2 to 5 lanes	
3008	Robertson	Springfield	WA Batson Parkway	SR-49 to US-431	2.00	0	4	2016	$8,108,000	New Roadway	City of Springfield	Construct new 4 lane roadway	

FHWA Funded Projects

Project	County	City	Project Location	Termini	Length [mi.]	Existing Lanes	Future Lanes	Year	Cost	Improvement	Requested By	Project Description	Exempt From Conformity
3001	Robertson	White House	Sage Road	SR-76 to Cardinal Lane	0.85	2	5	2016	$2,648,000	Widening	City of White House	Widen from 2 to 5 lanes	
3002	Robertson	White House	Sage Road	Cardinal Lane to SR-41/US-31	0.40	2	3	2016	$1,209,000	Widening	City of White House	Widen from 2 to 3 lanes w/intersection improvement at US-31/SR-41	
4049	Rutherford		SR-96	SR-840 to Overall Creek	6.70	2	5	2016	$29,100,000	Widening		Rebuild existing 2 lane to 5 lane with curb and gutter	
4050	Rutherford		SR-99	SR-16 in Eagleville to Swamp Road (w. of Concord Rd)	4.50	2	2	2016	$5,410,590	Reconstruction		Construct on a new alignment from SR-16 to Swamp Rd as a 2-lane w/continuous turn lane; from Swamp Rd improve existing alignment to upgraded 2 lane	
4015	Rutherford	LaVergne	Fergus Road	Murfreesboro Rd (US-41-70) to Hollandale Rd	1.17	2	2	2016	$1,755,000	Reconstruction	City of LaVergne	Add shoulders and widen lanes to 12' in certain locations	X
4050	Rutherford	LaVergne	Greenway	Connect to Smyrna Greenway at Airport, to Veteran's Mem. Park	1.50	0	0	2016	$800,000	Bicycle/Pesestrian		Will add a connection to new Smyrna greenway. Provides connection between LaVergne and Smyrna as well as airport and local parks.	X
4016	Rutherford	LaVergne	Old Nashville Pike	George Chaney St to City Limits	2.40	2	5	2016	$9,038,000	Widening	City of LaVergne	Widen from 2 to 5 lanes (12' w/ center turn lane)	
4014	Rutherford	LaVergne	Stones River Road	Old Nashville Hwy to Murfreesboro Road (US-41-70)	0.40	2	3	2016	$790,000	Widening	City of LaVergne	Improve roadway - add shoulders and 12' lanes w/ center turn lane	
4017	Rutherford	LaVergne	Stones River Road	Murfreesboro Rd/US-41-70-prior to LaVergne Lane (will stop at roundabout)	2.33	2	3	2016	$5,243,000	Widening	City of LaVergne	Widen from 2 to 3 (12') lanes w/ shoulders	
4013	Rutherford	LaVergne	Waldron Road / Parthenon Parkway	Heil Quaker Blvd to Murfreesboro Road (SR-1)	2.50	2	5	2016	$5,600,000	Widening	City of LaVergne	Widen to 5 Lanes w/ shoulders	
4019	Rutherford	Murfreesboro	Broad Street (SR-1/US-41/70)	Memorial Boulevard (SR-96/US-41/70)	0.00	0	0	2016	$14,000,000	Intersection	City of Murfreesboro	Construct new interchange	
4025	Rutherford	Murfreesboro	Broad Street (SR-1/US-41/70)	Medical Center Parkway to 2000' NW of SR-840	4.90	4	7	2016	$15,861,250	Widening	City of Murfreesboro	Widen from 4 to 7 lanes - Includes Cost for adding Bike Lanes	
4029	Rutherford	Murfreesboro	Broad Street (US 41)	Maney Avenue to Middle Tennessee Boulevard	0.80	4	5	2016	$2,400,000	Widening	City of Murfreesboro	Widen existing 4 lane roadway to 5 lanes	
4035	Rutherford	Murfreesboro	Cherry Lane Extension	Memorial Blvd (SR 10) to Broad St (US 41/70) & Int. at SR 840	4.45	0	5	2016	$11,890,000	New Roadway	City of Murfreesboro	Build new five lane roadway and interchange with SR-840.	
4028	Rutherford	Murfreesboro	Joe B. Jackson Parkway	Shelbyville Pk (US-231/SR-10) to I-24	1.86	2	5	2016	$8,438,000	Roadway	Rutherford County/ Murfreesboro	Construct new 5-lane roadway between US-231/SR-10 and proposed I-24/Joe B. Jackson interchange (Project #13)	
4021	Rutherford	Murfreesboro	Middle Tennessee Boulevard	Main Street to Greenland Drive	0.80	4	5	2016	$2,900,000	Widening	City of Murfreesboro	Widen from 4 to 5 lanes (adding center turn lane)	
4031	Rutherford	Murfreesboro	New Lascassas Highway (SR-96)	Clark Boulevard (SR 96) to Compton Road (SR 268)	3.94	2	5	2016	$9,743,000	Widening	City of Murfreesboro	Widen existing 2 lane roadway to 5 lanes	
4027	Rutherford	Murfreesboro	New Salem Highway (SR-99)	Southwest Loop Road to Cason Lane	2.50	2	5	2016	$5,446,000	Widening	City of Murfreesboro	Widen existing 2 lane ditch section roadway to 5 lane urban design w/ sidewalks	
4026	Rutherford	Murfreesboro	New Salem Highway (SR-99)	Cason Lane to Old Fort Parkway (SR-96)	2.80	2	5	2016	$11,100,000	Widening	City of Murfreesboro	Widen from 2 to 5 lanes, with interchange at I-24	
4034	Rutherford	Murfreesboro	Old Fort Parkway (SR-96)	I-24 to Broad Street	2.00	4	6	2016	$9,800,000	Widening	City of Murfreesboro	Widen from 4 lane median divided to 6 lane median divided hwy	
4030	Rutherford	Murfreesboro	Thompson Lane (SR-268)	Broad Street (US 41/70) to Memorial (SR 10)	3.93	2	5	2016	$12,330,000	Widening	City of Murfreesboro	Widen existing 2 lane roadway to 5 lanes	
4004	Rutherford	Smyrna	Almaville Road (SR-102)	Franklin Highway (SR-96) to I-24	7.68	2	5	2016	$6,170,000	Widening	Rutherford County/ Town of Smyrna	Widen from 2 to 5 lanes and improve geometry	
4008	Rutherford	Smyrna	Enon Springs Road	Old Nashville Highway to Murfreesboro Road (SR-41/US-70)	1.80	2	3	2016	$4,800,000	Widening	Town of Smyrna	Widen existing 2-lane roadway to provide a center turn lane	
4001	Rutherford	Smyrna	Greenway	Old Nashville Hwy to North of S. Lowry Street	1.10	0	0	2016	$756,000	Bicycle/Pesestrian	Town of Smyrna	Will add a connection from the existing greenway system to a local high-school	X
4002	Rutherford	Smyrna	Greenway	Sam Ridley Pkwy to City Limits (near airport)	1.50	0	0	2016	$700,000	Bicycle/Pesestrian	Town of Smyrna	Will add a connection for LaVergne to hook into. Provides access to Local Airport Terminal	X
4003	Rutherford	Smyrna	I-24 / Rocky Fork Rd	I-24 to Old Nashville Hwy	1.86	2	5	2016	$10,065,000	Widening, Intersection	Town of Smyrna	Widen to 5 lanes with shoulders with new Interchange at I-24	
4005	Rutherford	Smyrna	Jefferson Pike (SR-266)	Nissan Boulevard (SR-102) to SR-840	4.00	2	5	2016	$5,300,000	Widening	Rutherford County/ Town of Smyrna	Widen from 2 to 5 lanes	
4007	Rutherford	Smyrna	Murfreesboro Pike (US-41/US-70/SR-1)	Enon Springs Road (Grade Sep w/ CSX)		0	0	2016	$2,000,000	Intersection, Bridge	Town of Smyrna	Poor alignment; Requesting grade separation with CSX	X
4012	Rutherford	Smyrna	Sidewalks on various routes	Delacy Ln, Todd Ln, Mason Tucker Dr.	1.00	0	0	2016	$232,000	Bicycle/Pedestrian	Town of Smyrna	Provide sidewalk connections around Smyrna Middle, Smyrna West, David Youree and Thruman Frances Schools	X
4011	Rutherford	Smyrna	Smyrna Signal System	City-wide (SR-266, SR-41-70, SR-102)	0.00	0	0	2016	$1,000,000	ITS	Town of Smyrna	Traffic Signal Coordination	X
4009	Rutherford	Smyrna	SR-266 Sam Ridley Parkway	Nolensville Pike to I-24	7.00	0	4	2016	$40,000,000	New Roadway	Town of Smyrna	Construct new 4 lane divided highway (3rd phase of Sam Ridley Rd)	
4006	Rutherford	Smyrna	Weakley Lane	Sam Ridley Parkway (SR-266) to Lakeside Drive	1.40	2	5	2016	$4,800,000	Widening	Town of Smyrna	Widen from 2 to 5 lanes	
5043	Sumner		SR-109	South of Hollis Chapel to south of SR-76	4.20	2	4	2016	$15,200,000	Widening		Widen from 2 to 4 lanes	
5004	Sumner	Gallatin	East-West Corridor (Hatten Track)	Albert Gallatin Boulevard to SR-6/SR-109 Bypass	1.80	0	5	2016	$8,086,800	New Roadway	City of Gallatin	Upgrade Gallatin, Water (Dobbins to Blythe), and Hatten Track; extend Hatten to connect to SR-109 bypass via new interchange	
5001	Sumner	Gallatin	Gallatin Pike (SR-6)	Red River Road	0.00	0	0	2016	$546,363	Intersection	City of Gallatin	Add turn-lane	
5003	Sumner	Gallatin	SR-174 Relocation, Section 1	SR-109 to Trail Drive	0.55	2	5	2016	$2,889,150	Widening	City of Gallatin	Widen from 2 to 5 lanes	
5002	Sumner	Gallatin	SR-174 Relocation, Section 2 and 3	Existing SR-174 to SR-6/US-31E	0.75	0	5	2016	$7,266,650	New Roadway	City of Gallatin	Build new north-south connector road	
5025	Sumner	Gallatin	SR-6 (Gallatin Road)	Triple Creek Park to Downtown Gallatin	1.78	0	0	2016	$1,780,000	Bicycle/Pedestrian	City of Gallatin	Construct 12-foot Greenway with Bike and Pedestrian amenities.	X
5021	Sumner	Goodlettsville	I-65 North	Two Mile Parkway to US-31 W	1.25	4	8	2016	$9,288,179	HOV	TDOT	Widen from 4 to 8 lanes, 2 being HOV lanes	
5014	Sumner	Hendersonville	Center Point Road	Rockland Road extension to SR-386	0.60	2	5	2016	$1,772,000	Widening	City of Hendersonville	Widen from 2 to 5 lanes from 386 to south of SR-6; 3 lanes to Rockland Rd	
5026	Sumner	Hendersonville	Forest Retreat Road	SR-386 to Boone Holman Road	0.65	2	2	2016	$1,000,000	Reconstruction	City of Hendersonville	Reconstruct vertical/horizontal curves, lane width and structural strength.	X
5034	Sumner	Hendersonville	Gallatin Road (SR-6)	SR-386 Connector to Bonita Parkway	3.00	5	7	2016	$10,267,500	Widening	City of Hendersonville	Widen from 5 to 7 lanes - Includes Cost for adding Bike Lanes	
5016	Sumner	Hendersonville	Hendersonville Signal System	Gallatin Pike (SR-6) - City-wide	0.00	0	0	2016	$1,500,000	ITS	City of Hendersonville	Signal system - city wide (Hendersonville) on Gallatin Pike	X

FHWA Funded Projects

Project	County	City	Project Location	Termini	Length [mi.]	Existing Lanes	Future Lanes	Year	Cost	Improvement	Requested By	Project Description	Exempt From Conformity
5008	Sumner	Hendersonville	Indian Lake Road	Gallatin Road to East Drive	1.50	2	3/5	2016	$6,365,000	Widening	City of Hendersonville	Widen from 2 to 3 lanes (Sequoia to East); widen from 2 to 5 lanes (Gallatin to Sequoia)	
5009	Sumner	Hendersonville	New Shackle Island Road (SR-258)	Gallatin Pike (US-31) to Vietnam Veterans Boulevard (SR-386)	2.20	3	5	2016	$7,426,000	Widening	City of Hendersonville	Widen from 2/3 to 5 lanes	
5010	Sumner	Hendersonville	Old Shackle Island Road	Railroad north to S.R. 258	1.40	2	3	2016	$2,611,000	Widening	City of Hendersonville	Widen existing 2-lane roadway to provide a center turn lane	
5011	Sumner	Hendersonville	Sanders Ferry Road	SR-6/Gallatin Road to Luna Lane	1.00	2	3	2016	$4,244,000	Widening	City of Hendersonville	Widen existing 2-lane roadway to provide a center turn lane	
5015	Sumner	Hendersonville	Stop 30 Road	New Shackle Island Road to existing curve	3.00	2	3	2016	$8,933,000	Reconstruction	City of Hendersonville	Add center turn lane and reconstruct	
5006	Sumner	Hendersonville	Vietnam Veterans Boulevard (SR-386)	Forest Retreat Road	0.00	0	0	2016	$3,360,000	Intersection	City of Hendersonville, TDOT	Construct new interchange	
5012	Sumner	Hendersonville	Walton Ferry Road	Luna Lane to N. of Imperial Blvd	1.40	2	3	2016	$3,754,000	Widening	City of Hendersonville	Widen from 2 to 3 lanes (Gallatin to Imperial); widen from 2 to 5 lanes (Imperial to Luna)	
5027	Sumner	Millersville	New Roadway	SR-257(Bethel Road) to SR-41	1.40	0	2	2016	$1,200,000	New Roadway	City of Millersville	New Roadway connecting Sr-257 to SR-41	
5029	Sumner	Millersville	US-31W (Louisville Hwy)	Slaters Creek Road	0.00	0	0	2016	$150,000	Intersection	City of Millersville	Construct turn lanes on US-31 at intersection of Slaters Creek Rd	X
5028	Sumner	Millersville	US-31W (Louisville Hwy)	SR-257 (Bethel Road)	0.00	0	0	2016	$150,000	Intersection	City of Millersville	Construct turn lanes on US-31 at intersection of SR-257 (Bethel Rd)	X
5020	Sumner	Portland	Hwy 109 Bypass (southern section)	SR-109 (new alignment) to SR-52	3.63	0	2	2016	$6,073,719	New Roadway	City of Portland	Controlled access 2-lane facility	
5019	Sumner	Portland	Kirby Road (SR-109 Bypass, northern section)	SR-52 to SR-109/Kirby Road	1.52	0	2	2016	$1,600,000	New Roadway	City of Portland	Extend south	
5018	Sumner	Portland	SR-109	Kirby/Freedom Drive	0.00	0	0	2016	$800,000	Intersection	City of Portland	Traffic Signal improvements and construct turn lanes	X
5030	Sumner	Portland	SR-52 (west of Portland)	US-31W	0.40	0	0	2016	$390,000	Intersection	City of Portland	Add turn lanes for 0.2 miles in each direction	X
5032	Sumner	White House	South Palmers Chapel	Tyree Springs	0.00	0	0	2016	$300,000	Intersection	City of White House	Center turn lane	
5013	Sumner/ Davidson		Hadley Bend Connector	SR-45 to SR-386	4.40	0	4	2016	$57,000,000	New Roadway		Construct new roadway/bridge over the Cumberland River	
5031	Sumner/ Robertson	White House	US-31W/SR-41	Union Road to Calista Road	3.50	2	3	2016	$1,000,000	Widening	City of White House	Center turn lane with intersection improvement at US-31W/SR-41	
5042	Sumner/ Wilson		SR-109 - Bridge	N of Wilson Rd to S of Riverbank Ct	0.25	2	4	2016	$21,050,000	Roadway	Wilson/ Sumner County	Construct new 4-lane bridge over Cumberland River	
6025	Williamson		SR 96	SR-252 Wilson Pk to SR 840	6.00	2	4	2016	$13,000,000	Widening	Williamson County	Widen existing 2 lane roadway to 4 lanes	
6050	Williamson		SR-96	East of Arno Road to Wilson Pike	6.00	2	4	2016	$20,800,000	Widening		Widen from 2 lane to 4 lane with curb and gutter	
6005	Williamson	Brentwood	Concord Road (SR-253)	Edmondson Pike to Nolensville Rd	3.60	2	3	2016	$16,700,000	Widening	City of Brentwood	Widen to 3 lanes with a 10' multi-use path on south side of road	
6012	Williamson	Brentwood	Concord Road (SR-253)	Concord Road Corridor	0.00	0	0	2016	$775,000	ITS	City of Brentwood	Expand fiber optic network to include new traffic signals at Edmondson Pk, Crockett Rd, and Sunset Rd. Upgrade software for real-time monitoring and adjustments.	X
6009	Williamson	Brentwood	Concord Road (SR-253)	Jones Parkway to Arrowhead Dr	0.75	2	2	2016	$3,350,000	Widening	City of Brentwood	Widen to provide 2 12' travel lanes, paved shoulders and center turn lane where appropriate	X
6010	Williamson	Brentwood	Concord Road (SR-253)	I-65	0.00	0	0	2016	$1,075,000	Reconstruction	City of Brentwood	Construct double left turn lanes on southbound ramp to eastbound Concord Rd and widen right turn lane onto westbound Concord Rd	
6007	Williamson	Brentwood	Franklin Rd (SR-6/US-31)	SR-441(Moores Ln) to SR-253 (Concord Rd)	2.20	2	5	2016	$12,700,000	Widening	City of Brentwood	Widen from 2 to 5 lanes with curb & gutter and 10' bikeway/walkway (one side)	
6004	Williamson	Brentwood	I-65	Interchange btwn OHB and Concord Rd	0.00	0	0	2016	$14,000,000	Intersection	City of Brentwood	Construct new interchange between OHB and Concord Rd	
6013	Williamson	Brentwood	Moores Lane (SR-441)	I-65	0.00	0	0	2016	$2,500,000	Reconstruction	City of Brentwood	Reconstruct southbound I-65 exit ramp to eastbound Moores Ln to eliminate dual lane conflict between merging traffic and existing traffic	X
6003	Williamson	Brentwood	Murray Lane	Holly Tree Gap to Brentwood City Limits	0.50	2	2	2016	$1,350,000	Reconstruction	City of Brentwood	Widen to provide 2 12' travel lanes with 6' shoulders	X
6008	Williamson	Brentwood	Wilson Pk (SR-252)	SR 253 Concord Rd to Church St	2.60	2	2	2016	$11,900,000	Widening	City of Brentwood	Widen to provide 2 12' travel lanes and 2 6' shoulders with left turn lanes where appropriate	X
6040	Williamson	Fairview	I-40	SR-96	0.00	0	0	2016	$5,750,000	Reconstruction	Williamson County	Reconstruct Interchange to alleviate safety issues	X
6024	Williamson	Fairview	SR-100	Hickman County Line to Davidson County Line	14.70	2	4	2016	$34,000,000	Widening	Williamson County	Widen from 2 to 4 lanes	
6052	Williamson	Franklin	Bicentennial Plaza and Riverwalk Trail	Downtown Franklin to Williamson County Recreation Center	0.00	0	0	2016	$1,200,000	Bicycle/Pedestrian		Construct greenway connecting Downtown Franklin, Pinkerton Park and Williamson Recreation Center	X
6027	Williamson	Franklin	Columbia Ave (SR-6/US-31)	Mack Hatcher Pkwy to Downs Blvd	1.40	3	5	2016	$9,251,500	Widening	City of Franklin	Widen from 3 to 5 lanes with bike lanes on each side, curb and gutter, sidewalks	
6031	Williamson	Franklin	Franklin Road (SR-6/US-31)	Harpeth River Bridge to SR 441 Moores Ln	3.70	2	3/5	2016	$9,641,750	Widening	City of Franklin	Widen from 2 to 3 lanes with sidewalks, bike lanes and curb and gutter between Harpeth River Bridge and Mack Hatcher, widen from 3 to 5 lanes with 10' shoulders and curb and gutter between Mack Hatcher and Moores Ln	
6034	Williamson	Franklin	Goose Creek Bypass (SR-248)	SR-106 Lewisburg Pk to I-65	0.75	2	4	2016	$2,450,000	Widening	City of Franklin	Widen to 4 lane median divided with bike lanes	
6051	Williamson	Franklin	Harpeth River Walk/Franklin Linear Park Plan	Cool Springs District to Downtown Franklin	0.00	0	0	2016	$60,000	Bicycle/Pedestrian		Construct greenway connecting Cool Springs and Downtown Franklin	X
6030	Williamson	Franklin	Hillsboro Rd (SR-106/US-431)	SR 96 to SR 397 Mack Hatcher Pkwy	1.10	2	3	2016	$8,152,450	Widening	City of Franklin	Widen to 3 lanes with sidewalks and curb and gutter	
6018	Williamson	Franklin	I-65	SR-840 to SR-96	6.00	4	8	2016	$27,230,000	Widening	Williamson County/ Franklin	Widen from 4 to 8 lanes	
6019	Williamson	Franklin	I-65	SR-248 (Goose Creek)	0.00	0	0	2016	$16,000,000	Reconstruction	Williamson County/ Franklin	Reconstruct Interchange to alleviate safety issues	X
6032	Williamson	Franklin	Lewisburg Pk (SR-106/US-431)	Henpeck Ln to Mack Hatcher	1.25	2	4	2016	$15,000,000	Widening	City of Franklin	Widen from 2 to 4 lanes with bike lanes	
6048	Williamson	Franklin	Mack Hatcher East (SR-397) SE Quadrant	SR-6 (US-31) south of Franklin to SR-96 east of Franklin	3.00	2	4	2016	$18,300,000	Widening		Widen from 2 lanes to 4 lanes as a median divided highway	
6045	Williamson	Franklin	Mack Hatcher Pkwy West (SR-397)	SR 6 south of city to SR 106 north of city	7.20	0	4	2016	$54,880,000	New Roadway	City of Franklin	Construct new 4 lane divided roadway	
6028	Williamson	Franklin	North Royal Oaks Blvd	SR 96 to Liberty Pk	0.68	2	4	2016	$6,080,500	Widening	City of Franklin	Widen from 2 to 4 lanes	

FHWA Funded Projects

Project	County	City	Project Location	Termini	Length [mi.]	Existing Lanes	Future Lanes	Year	Cost	Improvement	Requested By	Project Description	Exempt From Conformity
6051	Williamson	Franklin	SR-96	Boyd Mill to Hillsboro Road/SR-106	2.10	2	4	2016	$7,200,000	Widening		Widen from 2 lane to 4 lane with curb and gutter	
6022	Williamson	Spring Hill/ Thompson's Station	SR-6/US-31	Buckner Lane to Henpeck Ln	9.60	2	4/5	2016	$29,000,000	Widening	Williamson County	Widen from 2 to 4 lanes in County, from 2 to 5 lanes through the City of Spring Hill	
8007	Williamson	TMA	Capital Equipment Purchase (AVL/GPS)	County-wide	0.00	0	0	2016	$101,000	Transit		Acquisition of GPS and AVL equipment for use on vans and trolleys	X
8008	Williamson	TMA	Rideshare Program	County-wide	0.00	0	0	2016	$5,000,000	Transit		Match and promote rideshares, existing and expanded service	X
8009	Williamson	TMA	Transit Stop Accessibility (sidewalks, ped enhancements)	County-wide	0.00	0	0	2016	$2,000,000	Transit		Construct or upgrade sidewalks connecting to transit stops, provide pedestrian crossing marking as needed	X
8010	Williamson	TMA	Van Acquisition	County-wide	0.00	0	0	2016	$1,000,000	Transit		Expand commuter vanpool fleet, acquiring minivans and larger vans	X
6002	Williamson/ Maury	Spring Hill	Duplex Rd (SR-247)	SR 6 to I-65	3.28	2	3	2016	$11,036,000	Widening	Spring Hill	Widen to 3 lanes with shoulders and sidewalks, remove vertical curves with sight distance issues	
6001	Williamson/ Maury	Spring Hill	SR-6/US-31	Old Kedron Rd to Buckner Rd	3.00	2	5	2016	$7,200,000	Widening	Spring Hill	Widen from 2 to 5 lanes to match existing lanes through south end of town	
7029	Wilson		Central Pike (SR-265)	Davidson Co Line to SR-171	4.00	2	5	2016	$12,000,000	Widening	Wilson County	Widen from 2 to 5 lanes, including center turn lane	
7031	Wilson		Central Pike (SR-265)	SR-171 to SR-840	7.00	2	5	2016	$19,320,000	Widening	Wilson County	Widen from 2 to 5 lanes, including center turn lane	
7030	Wilson		East Division Street	SR-171 to SR-109	6.40	2	3	2016	$9,100,000	Widening	Wilson County	Widen from 2 to 3 lane sections - purchase right-of-way for 4/5 lanes	
7012	Wilson		I-40	SR-840 to US-70	5.00	4	6	2016	$18,774,250	HOV	TDOT	Add HOV lane	
7027	Wilson		I-40	E of Mt. Juliet Rd to SR 840	9.00	4	6	2016	$66,300,000	HOV	TDOT	Add HOV lane	
7025	Wilson		Lebanon Pike (SR-24/US-70)	E of Cedar Creek to SR-109	4.20	2	4	2016	$15,652,500	Widening	TDOT	Widen from 2 to 4 lanes - Includes Cost for adding Bike Route Facilities	
7028	Wilson		SR-109	US-70 to bridge over the Cumberland River	10.60	2	5	2016	$26,320,000	Widening	Wilson County	Widen from 2 to 5 lanes, including center turn lane	
7023	Wilson		SR-141	Hartman Dr. Ext. to Trousdale Co Line	7.10	2	2	2016	$20,215,000	Reconstruction	TDOT	Reconstruct existing 2-lane roadway and reserve ROW for future 4-lane roadway	X
7032	Wilson		Stewarts Ferry Pk	SR-171 to SR-840	6.30	2	3	2016	$8,695,000	Widening	Wilson County	Widen from 3 to 5 lanes, including center turn lane	
7007	Wilson	Lebanon	Baddour Parkway (SR-26)	SR-24 to Fairview Rd	1.10	3	5	2016	$3,250,000	Widening	City of Lebanon	Widen from 3 to 5 lanes including shoulders	
7005	Wilson	Lebanon	Hartman Drive	SR-10 (US-231) to US-70N/SR-24	1.40	0	5	2016	$2,429,000	New Roadway	City of Lebanon	New 5 lane, curb and gutter roadway around City of Lebanon	
7003	Wilson	Lebanon	Hartman Drive	SR-26 (Baddour)	0.00	0	0	2016	$2,500,000	Intersection	City of Lebanon	Add turn lanes and new traffic signal	X
7004	Wilson	Lebanon	Hartman Drive	SR-24 (US-70/W Main St) to SR-10	2.70	2	3	2016	$4,500,000	Widening	City of Lebanon	Widen from 2 to 3 lanes and extend existing roadway	
7010	Wilson	Lebanon	Lebanon Closed Loop Signal System	Citywide	0.00	0	0	2016	$1,000,000	ITS	City of Lebanon	Citywide closed loop system	X
7001	Wilson	Lebanon	Maddox-Simpson Parkway	SR-26 (US-70)	0.00	0	0	2016	$667,012	Intersection	City of Lebanon	Relocate Maddox-Simpson Parkway, install turn lanes on SR-26 and install traffic signal at new intersection	X
7009	Wilson	Lebanon	SR-141 (Hartsville Pike)	SR-26 to N of Lealand Ln	1.80	0	5	2016	$6,100,000	New Roadway	TDOT	Relocate SR-141 and add traffic signals	
7013	Wilson	Lebanon	SR-24/US-70	Castle Heights Ave	0.00	0	0	2016	$230,000	Intersection	City of Lebanon	Intersection realignment and signal improvement	X
7006	Wilson	Lebanon	SR-26	I-40 to SR-24	1.60	3	5	2016	$6,490,000	Widening	City of Lebanon	Widen from 3 to 5 lanes including shoulders	
7008	Wilson	Lebanon	SR-26	Fairview Rd to SR-24	2.50	4	5	2016	$9,300,000	Widening	City of Lebanon	Widen from 4 to 5 lanes and provide left and right turn lanes at intersections	
7015	Wilson	Lebanon	US-231 (Cumberland)	SR-26 to City Limits	0.80	2	5	2016	$5,520,000	Widening	City of Lebanon	Widen from 2 to 5 lanes including shoulders	
7019	Wilson	Mt. Juliet	Beckwith Rd	I-40 to SR-24 (US-70)	4.10	0	4	2016	$5,051,400	New Roadway	City of Mt. Juliet	Construct new 4 lane roadway	
7020	Wilson	Mt. Juliet	I-40	Central Pike	0.00	0	0	2016	$7,718,000	Intersection	City of Mt. Juliet	I-40 @ Central Pike - Build new Diamond interchange	
7024	Wilson	Mt. Juliet	I-40	SR-171	0.00	0	0	2016	$1,370,000	Intersection	TDOT	Widen WB on ramp to 2 lanes, widen WB off ramp for 2 LTL, revise signal timing, extend NB through lane between ramps	
7018	Wilson	Mt. Juliet	SR-171	I-40 to Davidson Co Line	2.50	2	5	2016	$7,500,000	Widening	City of Mt. Juliet	Widen from 2 to 5 lanes	
7017	Wilson	Mt. Juliet	SR-171	Division St to SR 24	4.15	2	5	2016	$13,640,000	Widening	TDOT	Widen from 2 to 5 lanes	
1062	Davidson	Goodlettsville	Rivergate Pkwy	Dickerson Pike to Gallatin Pike	1.70	4	6	2025	$10,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 4 to 6 lanes	
1072	Davidson	Nashville	Ashland City Highway (SR-12)	Briley Parkway (SR-155) to Clarksville Pike (SR-112)	2.09	2	4	2025	$5,000,000	Widening	TDOT	Widen from 2 to 4 lanes with same center turn lanes	
1074	Davidson	Nashville	Blackman Road	Edmondson Pike	0.00	0	0	2025	$1,000,000	Intersection	Metropolitan Nashville/ Davidson County	Provide left turn lanes all legs and rebuild	X
1075	Davidson	Nashville	Blackman Road	Seven Mile Creek	0.00	0	0	2025	$500,000	Bicycle/Pedestrian	Metropolitan Nashville/ Davidson County	Bike/ped bridge across creek	X
1073	Davidson	Nashville	Blue Hole Road	Antioch Pike to Bell Road	1.00	2	4	2025	$4,600,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1076	Davidson	Nashville	Brick Church Pike	Briley Parkway to Old Hickory Boulevard	3.20	2	3	2025	$5,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen existing 2-lane roadway to provide a center turn lane	
1077	Davidson	Nashville	Burkitt Road/Old Hickory Blvd/Whittemore	Nolensville Pike to I-24	5.10	2	4	2025	$5,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1011	Davidson	Nashville	Cane Ridge Road	Old Hickory Blvd to Southeast Arterial	1.55	2	4	2025	$5,189,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1079	Davidson	Nashville	Charlotte Pike (SR-24)	Old Hickory Boulevard to west of Briley Parkway	4.40	2	5	2025	$10,000,000	Widening	TDOT	Widen from 2 to 5 lanes, including center turn lane	
1022	Davidson	Nashville	Edmondson Pike	Old Hickory Boulevard to Nolensville Pike	3.00	4	5	2025	$6,000,000	Reconstruction	Metropolitan Nashville/ Davidson County	Add center turn-lane/Safety Related	
1081	Davidson	Nashville	Elm Hill Pike	Murfreesboro Pike to Bell Rd (ultimate), Donelson Pk to I-40 (interim)	7.40	4	5	2025	$3,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2/4 to 5 lanes, ultimate at $8,000,000	

FHWA Funded Projects

Project	County	City	Project Location	Termini	Length [mi.]	Existing Lanes	Future Lanes	Year	Cost	Improvement	Requested By	Project Description	Exempt From Conformity
1082	Davidson	Nashville	Franklin Pike (US-31)	Old Hickory Boulevard to Harding Place	3.70	4	5	2025	$11,601,750	Reconstruction	Metropolitan Nashville/ Davidson County	Add center turn lane/safety-related - Includes Cost for adding Bike Lanes	
1135	Davidson	Nashville	Gallatin Pike (SR-6)	Two Mile Parkway (Rivergate Pkwy) to Conference Drive	0.60	4	6	2025	$5,000,000	Widening	MPO	Widen from 4 to 6 lanes	
1083	Davidson	Nashville	Granny White Pike	Old Hickory Boulevard to Kirkwood Drive	5.85	2	3	2025	$31,200,000	Reconstruction	Metropolitan Nashville/ Davidson County	Reconstruct as an urban 2-lane facility, with a center turn lane	
1084	Davidson	Nashville	Hamilton Church Road	Murfreesboro Pike to LaVergne-Couchville Road	3.20	2	3	2025	$17,100,000	Widening	Metropolitan Nashville/ Davidson County	Widen existing 2-lane roadway to provide a center turn lane	
1086	Davidson	Nashville	Hickory Hollow Parkway	Una-Antioch Pike to north of Bell Road	1.40	2	5	2025	$5,200,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes, including center turn lane	
1035	Davidson	Nashville	Holt Road	Edmondson Pike to Nolensville Pike	2.20	2	4	2025	$5,900,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1088	Davidson	Nashville	I-24 E	Bell Road (SR-254)	0.00	0	0	2025	$5,000,000	Intersection	Metropolitan Nashville/ Davidson County	Reconstruct interstate and RR bridges to eliminate piers in roadway; and upgrade to urban diamond	X
1089	Davidson	Nashville	I-24 W	I-65 to Old Hickory Boulevard	4.00	4	6	2025	$25,000,000	Widening		Widen from 4 to 6 lanes	
1094	Davidson	Nashville	I-40 W	I-440 to I-65	1.80	6	10	2025	$13,700,000	HOV	TDOT	Widen from 6 to 10 lanes 2 being HOV-lanes	
1095	Davidson	Nashville	I-40 West HOV Connection	12th Avenue to Charlotte	0.20	0	1	2025	$6,000,000	HOV	TDOT	Construct HOV Ramps to and from the CBD	
1096	Davidson	Nashville	I-40/24 South/East HOV Connection	Shelby/Franklin	0.40	0	1	2025	$6,000,000	HOV	TDOT	Construct HOV Ramps to and from the CBD	
1098	Davidson	Nashville	I-65 North HOV Connection	North 1st Street	0.30	0	1	2025	$6,000,000	HOV	TDOT	Construct HOV Ramps to and from the CBD	
1120	Davidson	Nashville	I-65; I-40	2nd/4th Avenue South	0.00	0	0	2025	$120,000,000	Intersection	MPO	Realign and secregate traffic for safety purposes @I-40/I-65 and 2nd/4th interchange	X
1101	Davidson	Nashville	LaVergne Couchville Pike	Murfreesboro Pike to Hamilton Church	2.10	2	3	2025	$17,100,000	Widening	Metropolitan Nashville/ Davidson County	Widen existing 2-lane roadway to provide a center turn lane	
1121	Davidson	Nashville	Lebanon Pike	Stewart's Ferry to YMCA	1.10	4	5	2025	$3,830,800	Widening	Metropolitan Nashville/ Davidson County	Widen from 4 to 5 lanes - Includes Cost for adding Bike Lanes	
1102	Davidson	Nashville	McCrory Creek Road	Elm Hill Pike to Stewarts Ferry Pike	1.70	2	2	2025	$5,900,000	Reconstruction	Metropolitan Nashville/ Davidson County	Reconstruct to provide new horizontal and vertical alignment\Safety Related	X
1103	Davidson	Nashville	McGavock Pike	Lebanon Pike to Briley Parkway	4.00	2	3	2025	$6,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen existing 2-lane roadway to provide a center turn lane	
1104	Davidson	Nashville	Mt. View Road	Una Antioch to Smith Springs	6.00	2	3	2025	$32,100,000	Widening	Metropolitan Nashville/ Davidson County	Widen existing 2-lane roadway to provide a center turn lane	
1105	Davidson	Nashville	Old Franklin Road	Pettus Road to Preston Road	0.70	0	2	2025	$2,800,000	New Roadway	Metropolitan Nashville/ Davidson County	Extend existing roadway as a 2-lane roadway	
1109	Davidson	Nashville	Old Hickory Boulevard (SR-245)	I-24 to Southeast Parkway	2.00	2	3	2025	$2,800,000	Widening	Metropolitan Nashville/ Davidson County	Widen existing 2-lane roadway to provide a center turn lane	
1128	Davidson	Nashville	Old Hickory Boulevard (SR-254)	Hillsboro Pike to west of Granny White Pike	4.80	2	5	2025	$18,000,000	Widening	City of Brentwood	Widen from 2 to 5 lanes	
1108	Davidson	Nashville	Old Hickory Boulevard (SR-45)	Lebanon Pike to Cumberland River	5.90	4	6	2025	$16,100,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 4/5 to 6 lanes	
1110	Davidson	Nashville	Old Smyrna Road	Williamson County Line to Edmondson Pike	0.50	2	4	2025	$1,800,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1061	Davidson	Nashville	Tusculum Road	Nolensville Pike to Blue Hole Road	2.60	2	4	2025	$9,800,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1114	Davidson	Nashville	White Bridge Road (SR-155)	Harding Pike (US70S) to Charlotte Avenue	2.20	5	6	2025	$3,200,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 5 to 6 lanes with median in commercial area	
2003	Maury	Spring Hill	Beechcroft Road (SR 247)	Rail crossing	0.20	2	2	2025	$2,690,000	Intersection	Spring Hill	Construct bridge over CSX railway	X
2001	Maury	Spring Hill	Port Royal Road	SR 396 Saturn Pkwy to SR 247 Duplex Rd	2.30	2	2	2025	$2,700,000	Reconstruction	City of Spring Hill	Widen lanes to 13' with shoulders and correct horizontal curve issues	X
8014	Regionwide		Nashville Area ITS Plan	Region-wide	0.00	0	0	2025	$10,000,000	ITS	Metropolitan Nashville/ Davidson County	Phase 1 of ITS Plan	X
8011	Regionwide	RTA	Regional Ridesharing	Region-wide	0.00	0	0	2025	$10,000,000	Transit		Match and promote rideshares, guaranteed ride home	X
8012	Regionwide	RTA	Seat Guarantee Program	Region-wide	0.00	0	0	2025	$3,000,000	Transit		Provide assistance for start-up vanpools	X
8013	Regionwide	RTA	Vehicle Purchase	Region-wide	0.00	0	0	2025	$3,325,000	Transit		Expand commuter vanpool fleet, acquiring minivans and larger vans	X
4042	Rutherford		Christiana Connector Route	SR 10 to US 41 with new interchange at I-24	5.20	0	5	2025	$21,728,000	New Roadway	Rutherford County	Construct new 5-lane roadway with new interchange at I-24	
4039	Rutherford		Jefferson Pike (SR-266)	SR-840 to SR-10 (Memorial Bled)	4.64	2	5	2025	$15,590,000	Widening	Rutherford County	Widen existing substandard county roadway from 2 to 5 lanes and correct horizontal and vertical alignment deficiencies	
4041	Rutherford		Jefferson Pike (SR-266)	SR 10 to Lascassas Hwy (SR 96)	4.95	2	5	2025	$13,973,000	Widening	Rutherford County	Widen existing substandard county roadway from 2 to 5 lanes and correct horizontal and vertical alignment deficiencies	
4033	Rutherford	Murfreesboro	Broad Street (US-41)	Joe B. Jackson Parkway to Middle Tennessee Boulevard	4.00	2	5	2025	$5,700,000	Widening	City of Murfreesboro	Widen from 2 to 5 lanes, including center turn lane	
4038	Rutherford	Murfreesboro	Compton Road (SR-268)	Memorial Boulevard (SR 10) to New Lascassas Highway (SR 96)	3.12	2	5	2025	$8,520,000	Widening	City of Murfreesboro	Widen existing 2 lane roadway to 5 lane, including center turn lane	
4036	Rutherford	Murfreesboro	Leanna Swamp Road	Broad Street (US 41/70) to Memorial Boulevard (SR 10)	5.78	2	5	2025	$17,762,000	Widening	City of Murfreesboro	Widen existing county road from 2 to 5 and correct horizontal and vertical deficiencies.	
4037	Rutherford	Murfreesboro	Memorial Boulevard (SR-10)	Thompson Lane (SR 268) to Jefferson Pike (SR 266)	2.79	2	5	2025	$8,570,000	Widening	City of Murfreesboro	Widen existing 2 lane roadway with minimal shoulders to 5 lane	
5040	Sumner		Long Hollow Pike (SR-174)	Willis Branch to SR-386	12.00	2	3	2025	$13,800,000	Widening	Sumner County	Widen existing 2-lane roadway to provide a center turn lane	
5022	Sumner		US-31 E	Gallatin Pike to Westmoreland Road	17.50	2	4	2025	$19,000,000	Widening	Sumner County	Widen from 2 to 4 lanes	
5023	Sumner		US-31	Westmoreland	0.00	0	0	2025	$800,000	Intersection	Sumner County	Add turn lanes to all legs of intersection	X
5005	Sumner	Gallatin	St. Blaise/Harris Lane, Section 2 (Green Lea Blvd)	SR-386 to SR-174	0.76	0	5	2025	$3,011,514	New Roadway	City of Gallatin	Construct new 5-lane roadway	
5007	Sumner	Hendersonville	Caldwell Lane	Long Hollow Pike to Center Point Road	2.33	2	3	2025	$7,800,000	Widening	City of Hendersonville	Widen existing 2-lane roadway to provide a center turn lane	
5033	Sumner	Hendersonville	Center Point Road	SR-386 to Hunts Lane	2.10	2	5	2025	$7,014,500	Widening	City of Hendersonville	Widen from 2 to 5 lanes, including center turn lane	

FHWA Funded Projects

Project	County	City	Project Location	Termini	Length [mi.]	Existing Lanes	Future Lanes	Year	Cost	Improvement	Requested By	Project Description	Exempt From Conformity
5037	Sumner	Hendersonville	Drakes Creek/Anderson Lane	SR-386 to SR-174 (Long Hollow Pike)	4.33	2	3	2025	$11,037,000	Widening	City of Hendersonville	Realign, widen to 3-lanes and extend to SR-174	
5035	Sumner	Hendersonville	Goshen Town Road	Center Point Road to New Shackle Island Road (SR-258)	1.80	2	3	2025	$4,590,000	Reconstruction	City of Hendersonville	Realign, widen to 3 lanes/Safety Related	
5036	Sumner	Hendersonville	Hunts Lane	Center Point Road to Glenbrook Way	1.50	2	2	2025	$3,300,000	Reconstruction	City of Hendersonville	S. Palmers Chapel @ Tyree Springs - Center turn lane & left turn lane	
5038	Sumner	Hendersonville	New Shackle Island Road (SR-258)	SR-386 to north of SR-174 (Long Hollow Pike)	2.86	2	5	2025	$8,308,000	Widening	City of Hendersonville	Widen from 2 to 5 lanes, including center turn lane	
5017	Sumner	Portland	I-65 N	SR-109	0.00	0	0	2025	$6,556,362	Intersection	City of Portland	Construct new interchange on I-65 at SR-109	
5039	Sumner	White House	North and South Palmers Chapel	Tyree Springs to Tyree Springs	2.50	2	2	2025	$1,700,000	Reconstruction	City of White House	Improve horizontal and vertical alignment and add shoulders	X
6038	Williamson		Goose Creek Bypass (SR-248)	SR 6/US 31 to SR 106	2.80	2	3	2025	$11,000,000	Widening	Williamson County	Widen existing 2-lane roadway to provide a center turn lane	
6037	Williamson		Goose Creek Bypass (SR-248)	New S. Carothers Rd to Peytonsville/Trinity Rd	5.00	0	3	2025	$2,287,740	New Roadway	Williamson County/ Franklin	Construct new 3 lane roadway	
6017	Williamson		SR 106 (Hillsboro Rd)	Berrys Chapel Rd to Davidson County Line	7.30	2	5	2025	$19,000,000	Widening	Williamson County	Widen from 2 to 5 lanes, including center turn lane	
6021	Williamson		SR-106 (Lewisburg Pk)	Critz Lane to SR-248 (Goose Creek Bypass)	4.90	2	4	2025	$15,000,000	Widening	Williamson County	Widen from 2 to 4 lanes	
6023	Williamson	Fairview	SR 96	Dickson County Line to SR 100	4.70	2	3	2025	$4,200,000	Widening	Williamson County	Widen existing 2-lane roadway to provide a center turn lane	
6042	Williamson	Franklin	Del Rio Pk	Poplar Grove School Rd to Old Hillsboro Rd	2.00	2	2	2025	$4,810,000	New Roadway, Reconstruction	City of Franklin	Reconstruct from Poplar Grove School to Carlisle Lane to provide standard lane widths and bike lanes; construct new road from Carlisle Lane to Old Hillsboro Rd	
6029	Williamson	Franklin	SR 6/US 31 (Franklin Road)	Downs Blvd to Strahl St	0.75	2	3	2025	$5,330,500	Widening	City of Franklin	Widen from 2 to 3 lanes with 4' bike lanes on each side, sidewalks, curb and gutter	
6043	Williamson	Franklin	SR 96	Third Ave to North Royal Oaks Blvd	1.90			2025	$4,320,000	Widening	City of Franklin	Widen to 3 lanes with sidewalks from 3rd Ave to Mack Hatcher, widen to 7 lanes from Mack Hatcher to North Royal Oaks	
6020	Williamson	Franklin	SR 96	Proposed Mack Hatcher Pkwy to SR 46	1.80	2	4	2025	$5,520,000	Widening	Williamson County	Widen from 2 to 4 lanes	
6016	Williamson	Franklin	SR-252 (Wilson Pk)	SR-96 to southern Brentwood City limits	6.50	2	2	2025	$9,800,000	Reconstruction	Williamson County	Realign and add turn lanes where needed	X
6039	Williamson	Nolensville	SR 11 Nolensville Rd	SR 840 to Burkitt Rd	11.00	2	4	2025	$23,800,000	Widening	Williamson County	Widen from 2 to 4 lanes and bypass downtown Nolensville	
6035	Williamson	Spring Hill	Buckner Rd	SR 6 to Buckner Lane	1.94	2	2	2025	$205,000	Bicycle/Pedestrian	Spring Hill	Construct 5' ADA compliant sidewalks	X
8015	Williamson	TMA	Ridesharing Program	County-wide	0.00	0	0	2025	$5,250,000	Transit		Match and promote rideshares, guaranteed ride home	X
6036	Williamson/ Maury	Spring Hill	Greenway/Walking Trail	Battlefield Park to Evans Park	3.20	0	0	2025	$450,000	Bicycle/Pedestrian	Spring Hill	Greenway/Walking trail from Battlefield Park to Evans Park - connects library, school and 2 parks	X
7040	Wilson		Beckwith Rd	Central Pk to I-40	2.40	3	5	2025	$6,620,000	Widening	Wilson County	Widen from 3 to 5 lanes	
7041	Wilson		Coles Ferry Pk/Academy Rd	SR-10 to SR-109	11.00	3	5	2025	$26,720,000	Widening	Wilson County	Widen from 3 to 5 lanes	
7026	Wilson		Saundersville Rd	Davidson Co Line to Nonaville Rd	4.70	2	3	2025	$2,900,000	Widening	Wilson County	Widen existing 2-lane roadway to provide a center turn lane	
7039	Wilson		SR-26/US-70	I-40 to DeKalb Co Line	15.10	2	2	2025	$36,800,000	Reconstruction	Wilson County	SR-26/US-70 Rebuild to 12'lanes, provide center turn lane through Watertown	
7034	Wilson	Lebanon	SR-10 (US-231)	I-40 to Walnut Grove Rd	2.10	2	5	2025	$12,100,000	Widening	City of Lebanon	Widen from 2 to 5 lanes, including center turn lane	
7021	Wilson	Mt. Juliet	Curd Rd	SR-171 to Beckwith Rd	2.20	2	3	2025	$5,340,000	Widening	City of Mt. Juliet	Widen from 2 to 3 lanes	
7022	Wilson	Mt. Juliet	New Road (Green Chandler Road Extension)	Old Lebanon Dirt to W Division St	0.70	0	2	2025	$1,700,000	New Roadway	City of Mt. Juliet	Construct new 2 lane roadway	
7038	Wilson	Mt. Juliet	Nonaville Rd	Mt. Juliet City limits to Saundersville Rd	1.70	2	2	2025	$6,465,000	Reconstruction	Wilson County	Improve existing 2 lane roadway, geometric deficiencies	X
1115	Davidson	Nashville	3rd Avenue North	Gay Street to Hume Street	1.00	2	4	2030	$6,600,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes	
1116	Davidson	Nashville	Donelson/Neely's Bend Connection	Lebanon at Stewart's Ferry to Neely's Bend	3.00	0	4	2030	$52,000,000	New Roadway	Metropolitan Nashville/ Davidson County	Construct new 4 lane roadway across Cumberland River	
1117	Davidson	Nashville	Hobson Pike (SR-171)	Murfreesboro Pike to Wilson County line	6.60	2	5	2030	$30,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 4 lanes and connect to I-65	
1118	Davidson	Nashville	I-24 E	Hickory Hollow Parkway	0.00	0	0	2030	$3,000,000	Intersection	TDOT	Modify interchange to allow access to/from Cane Ridge Rd	X
1133	Davidson	Nashville	ITS Communications Program	County-wide	0.00	0	0	2030	$8,500,000	ITS	Metropolitan Nashville/ Davidson County	Update ITS, improve/integrate various signal communications; provide wayfinding capabilities	X
1122	Davidson	Nashville	McCrory Lane	SR-100 to I-40	4.40	2	2	2030	$8,000,000	Reconstruction	Metropolitan Nashville/ Davidson County	Improve vertical and horizontal alignment for safety purposes	X
1131	Davidson	Nashville	New Road	County Hospital Rd to Ed Temple Blvd	0.50	0	6	2030	$15,000,000	Roadway	Metropolitan Nashville/ Davidson County	Construct bridge over Cumberland connecting Bordeaux to N. Nashville	
1132	Davidson	Nashville	New Road	W. Trinity Ln to MetroCenter Blvd	1.20	0	6	2030	$15,000,000	Roadway	Metropolitan Nashville/ Davidson County	Construct bridge across Cumberland River connecting Bordeaux to MetroCenter	
1126	Davidson	Nashville	New Roadway (Hermitage)	Briley Pkwy to Neely's Bend	1.70	0	4	2030	$28,000,000	New Roadway	Metropolitan Nashville/ Davidson County	Construct new 4-lane roadway	
1123	Davidson	Nashville	New Roadway (SE Davidson County)	I-24 at Hickory Hollow Pkwy to Cane Ridge (opposite Mountain High)	0.50	0	4	2030	$3,400,000	New Roadway	Metropolitan Nashville/ Davidson County	Construct new 4-lane arterial roadway	
1124	Davidson	Nashville	New Roadway (SE Davidson County)	I-24 at Hickory Hollow Pkwy to Cane Ridge (n. of Old Franklin)	0.50	0	4	2030	$3,400,000	New Roadway	Metropolitan Nashville/ Davidson County	Construct new 4-lane arterial roadway	
1127	Davidson	Nashville	Old Hickory Boulevard	Charlotte Pike (US-70) to Ashland City Highway (SR-12)	7.50	2	5	2030	$50,000,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes, realign, construct new river and railroad bridges	
1129	Davidson	Nashville	Old Hickory Boulevard (SR-254)	SR-100 to Hillsboro Road	5.00	2	5	2030	$21,100,000	Widening	Metropolitan Nashville/ Davidson County	Widen from 2 to 5 lanes	
1130	Davidson	Nashville	Spring Street	Ellington Parkway to I-65	0.50	4	6	2030	$5,000,000	Intersection	Metropolitan Nashville/ Davidson County	Two-lane ramp from Ellington and grade separation of the Dickerson intersection	X
8019	Regionwide		Nashville Area ITS Plan (Phase 3)	County-wide	0.00	0	0	2030	$8,500,000	ITS	Metropolitan Nashville/ Davidson County	ITS Communications Program, software upgrade, CCTV, wayfinding	X
8017	Regionwide	RTA	Regional Ridesharing	Region-wide	0.00	0	0	2030	$7,250,000	Transit		Match and promote rideshares, guaranteed ride home	X

FHWA Funded Projects

Project	County	City	Project Location	Termini	Length [mi.]	Existing Lanes	Future Lanes	Year	Cost	Improvement	Requested By	Project Description	Exempt From Conformity
8018	Regionwide	RTA	Vehicle Purchase	Region-wide	0.00	0	0	2030	$2,100,000	Transit		Expand commuter vanpool fleet, acquiring minivans and larger vans	X
4047	Rutherford		Manchester Hwy (US 41 / SR-2)	Joe B. Jackson Parkway to County line	2.29	2	3	2030	$6,610,000	Widening	Rutherford County	Widen existing 2 lane road to 3 lanes to provide center turn lane	
4046	Rutherford		New Lascassas Highway (SR 96)	Compton Road (SR 268) to Jefferson Pike (SR 266)	2.80	2	3	2030	$4,560,000	Widening	Rutherford County	Widen existing 2 lane road to 3 lanes to provide center turn lane	
4045	Rutherford	County/ Murfreesboro	NW Loop Road (includes interchange at I-24)	Burnt Knob Rd to Florence Road	4.41	0	5	2030	$17,668,000	New Roadway, Intersection	Murfreesboro/ Rutherford County	Provide capacity and congestion relief to surrounding roadways by providing alternative route through construction of new 5 lane roadway with interchange at I-24.	
4018	Rutherford	LaVergne	Old Jefferson Pike	Old Nashville Hwy to Murfreesboro Road (US-41-70)	1.61	2	3	2030	$3,623,000	Widening	City of LaVergne	Widen from 2 to 3 (12') lanes w/ shoulders	
5044	Sumner		SR-840	Wilson County Line to I-65 (Robertson Co)	29.00	0	4	2030	$310,700,000	New Roadway		Construct new 4 lane roadway	
5041	Sumner	Hendersonville	New Roadway	SR-258/New Shackle Island Rd. to Saundersville Rd	3.01	0	3	2030	$8,171,000	New Roadway		Construct new 3-lane collector road, including center turn lane	
6047	Williamson		SR-246 (Carters Creek Pk)	Proposed SR 840 to proposed Mack Hatcher Pkwy	9.00	2	3	2030	$8,000,000	Widening	Williamson County	Widen existing 2-lane roadway to provide a center turn lane	
6046	Williamson	Spring Hill	I-65	Thompson's Station Road	0.00	0	0	2030	$6,500,000	Intersection	Spring Hill	Construct interchange at I-65 and Thompson's Station Road	
8016	Williamson	TMA	Ridesharing Program	County-wide	0.00	0	0	2030	$5,500,000	Transit		Match and promote rideshares, guaranteed ride home	X
7042	Wilson		SR-840	I-40 to SR-10/US-231	5.50	0	4	2030	$140,000,000	New Roadway	Tennessee Department of Transportation	Construct new 4-lane freeway	

FTA Funded Projects

Project	County	City	Project Location	Termini	Length [mi.]	Year	Cost	Improvement	Requested By	Project Description	Exempt From Conformity
8020	Davidson	MTA	Full Size Bus Replacements	Countywide		2016	$37,500,000	Transit	MTA	Purchase bus replacements as fleet ages	X
8021	Davidson	MTA	Local Transit Priority Implementation	West End	3.00	2016	$5,000,000	Transit	MTA	Transit priority implementation including possible signal preemption, queue jumpers, etc…	X
8022	Davidson	MTA	Local Transit Priority Implementation	Gallatin Road	8.00	2016	$5,000,000	Transit	MTA	Transit priority implementation including possible signal preemption, queue jumpers, etc…	X
8023	Davidson	MTA	Media Fare Purchase Facilities	Countywide		2016	$2,000,000	Transit	MTA	Installation of automated ticket vending machines at selected locations	X
8024	Davidson	MTA	New Central Transfer Facility	Nashville Central Business District		2016	$11,000,000	Transit	MTA	Construct new central transfer facility	X
8025	Davidson	MTA	Regional Park & Ride Facilities	Rivergate, Hickory Hollow, Nolensville, Hillsboro		2016	$750,000	Transit	MTA	Establishment of new Park & Ride Lots	X
8026	Davidson	MTA	Rehab Administration/Maintenance Facility	Nestor Street		2016	$30,000,000	Transit	MTA	Rehab existing structure (short-term needs)	X
8027	Davidson	MTA	Rehab of Clement Landport	Demonbreun Street		2016	$15,000,000	Transit	MTA	Rehab existing structure in accordance with future service plans and the surrounding environment	X
8028	Davidson/ Wilson	RTA	East Rail Upgrades			2016	$31,125,000	Transit	RTA	Replace fleet vehicles, parking and security upgrades for Music City Star	X
8030	Regionwide	RTA	Media Fare Purchase Facilities			2016	$7,000,000	Transit	RTA	Installation of automated ticket vending machines at selected locations	X
8031	Regionwide	RTA	Rail Maintenance Facility			2016	$15,000,000	Transit	RTA	Construct new rail maintenance facility to serve future transit facilities (beginning with East Corridor)	X
8032	Regionwide	RTA	Regional Park & Ride Facilities - Phase 1	Various locations across the region		2016	$43,500	Transit	RTA	Improvements to existing Park & Ride facilities	X
8033	Regionwide	RTA	Regional Park & Ride Facilities - Phase 2	Various locations across the region		2016	$500,000	Transit	RTA	Construction of new Park & Ride facilities at freeway-oriented locations	X
8034	Regionwide	RTA	Vehicle Purchase - Suburban Bus			2016	$6,500,000	Transit	RTA	Purchase suburban buses	X
8029	Regionwide	RTA;TMA	Job Access/Reverse Commute			2016	$11,000,000	Transit	RTA	Job Access/Reverse Commute Program for all local transit agencies	X
8035	Rutherford	Murfreesboro	Murfreesboro Urban Area Transit Service			2016	$4,525,520	Transit	City of Murfreesboro	Provision of public transit service in the Murfreesboro Urbanized Area	X
8036	Williamson	TMA/FTA	Local Transit Service	City of Franklin		2016	$1,000,000	Transit	TMA Group	Fixed Route/Deviant Service for Franklin Transit Authority	X
8037	Williamson	TMA/FTA	New Maintenance/Storage Facility	City of Franklin		2016	$3,000,000	Transit	TMA Group	Construction of a maintenance/storage building for Franklin Transit Authority; alternative fuel infrastructure	X
8038	Williamson	TMA/FTA	Trolley System Vehicles			2016	$1,200,000	Transit	TMA Group	Purchase connecting equipment (vehicles) to support Franklin trolley system	X
8039	Davidson	MTA	Farebox Replacement	Countywide		2025	$5,000,000	Transit	MTA	Replace fareboxes as necessary	X
8040	Davidson	MTA	Local Transit Priority Implementation	Murfreesboro Road, Nolensville Road, Jefferson St	24.00	2025	$20,000,000	Transit	MTA	Transit priority implementation including possible signal preemption, queue jumpers, etc…	X
8041	Davidson	MTA	New Transfer Facility	Nolensville Pike at Harding Place		2025	$7,000,000	Transit	MTA	Develop Transit Hub	X
8043	Regionwide	RTA	Media Fare Purchase Facilities			2025	$10,000,000	Transit	RTA	Installation of automated ticket vending machines at selected locations	X
8044	Regionwide	RTA	Regional Park & Ride Facilities - Phase 3	Various locations across the region		2025	$2,760,300	Transit	RTA	Construction of new Park & Ride facilities at future regional transit locations	X
8045	Regionwide	RTA	Vehicle Purchase - Suburban Bus			2025	$8,000,000	Transit	RTA	Purchase suburban buses	X
8042	Regionwide	RTA;TMA	Job Access/Reverse Commute			2025	$13,170,000	Transit	RTA	Job Access/Reverse Commute Program for all local transit agencies	X
8047	Regionwide	RTA	Vehicle Purchase - Suburban Bus			2030	$12,500,000	Transit	RTA	Purchase suburban buses	X
8046	Regionwide	RTA;TMA	Job Access/Reverse Commute			2030	$6,150,000	Transit	RTA	Job Access/Reverse Commute Program for all local transit agencies	X

Locally Funded Projects

Project	County	City	Project Location	Termini	Existing Lanes	Future Lanes	Year	Improvement	Project Description	Exempt From Conformity
6	Davidson		Conference Dr	Goodlettsville limits to Long Hollow Pk	2	4/5	2006	Widening	4 Lane Divided Median + 5 Lane	
65	Davidson	Nashville	2nd Ave S	Gateway Blvd to Union St	0	0	2006	Other	Convert 2 way street to 1 way street	
64	Davidson	Nashville	3rd Ave S	Gateway Blvd to Union St	0	0	2006	Other	Convert 1 way street to 2 way street	
1	Davidson	Nashville	Brick Church Pk	Brick Church Pike to Briley Pkwy	2	5	2006	Widening	Reconstuct and Widening	
2	Davidson	Nashville	Briley Pkwy (SR-155)	Gallatin to I-65	4	8	2006	Roadway	Widen to 8 lanes (2 being HOV lanes) including bridge over Cumberland River	
3	Davidson	Nashville	Briley Pkwy (SR-155)	S of Elm Hill to N of Lebanon Rd	4	8	2006	Widening	Widen from 4 to 8 lanes	
4	Davidson	Nashville	Briley Pkwy (SR-155)	N of Lebanon Rd to Two Rivers Pkwy	4	8	2006	Widening	Widen from 4 to 8 lanes	
5	Davidson	Nashville	Briley Pkwy (SR-155)	N of McGavock Pk to Saunders Rd	4	8	2006	Widening	Widen from 4 to 8 lanes	
7	Davidson	Nashville	Franklin St Corridor Phase II	1st Ave to 4th Ave	2	6	2006	Widening	Urban Blvd including pedestrian improvements	
63	Davidson	Nashville	Gateway Blvd Bridge	1st Ave to 1st St	0	6	2006	Bridge	Build new 6 lane bridge over Cumberland River	
8	Davidson	Nashville	I-65	S of Dickerson to S of OHB	6	10	2006	Roadway	Widen to 10 lanes	
9	Davidson	Nashville	I-65	S of OHB to S of SR-386	6	10	2006	Roadway	2 HOV lanes	
67	Davidson	Nashville	Lebanon Pk (SR-24/US 70)	Donelson Pk to Stewarts Ferry Pk	3	5	2006	Widening	Widen to 5 lanes	
10	Davidson	Nashville	W Trinity Ln	Buena Vista Pk to Whites Creek Pk	2	5	2006	Widening	Widen from 2 to 5 lanes	
11	Regionwide		Nashville Area ITS Plan	Various interstates and controlled access facilities	0	0	2006	ITS	Variable message signs, software, hardware	
12	Robertson	Springfield	SR-76	I-65 to White House Bypass	2	5	2006	Widening	Widen from 2 to 5 lanes	
57	Robertson	Springfield	William Batson Pkwy	Tom Austin Hwy to US-41/SR-11	0	4	2006	New Roadway	Bulid new 4 lane divided roadway	
15	Rutherford		I-24	SR-840 to SR-96	4	8	2006	Roadway	Widen from 4 to 8 lanes, including 2 HOV lanes	
13	Rutherford		I-24	Elam Rd	0	0	2006	Intersection	Construct new interchange on I-24 at Elam Road	
50	Rutherford	Murfreesboro	Greenland Dr	Highland Ave to TN Blvd	2	3	2006	Widening	Widen to 3 lanes	
14	Rutherford	Murfreesboro	I-24	Manson Pk	0	0	2006	Intersection	Construct new interchange on I-24 at Manson Pike	
51	Rutherford	Murfreesboro	Northfield Blvd	SR-10 to TN Blvd	2	4	2006	Widening	Widen to 4 lane undivided roadway	
54	Rutherford	Murfreesboro	Osborne Rd	SR-10 to Emery Rd	2	3	2006	Widening	Widen to 3 lanes	
49	Rutherford	Murfreesboro	Sanbyrn Dr/Samsonite Blvd	SR-99 to Broad St	3	5	2006	Widening	Widen to 5 lanes	
55	Rutherford	Murfreesboro	Siegel Rd	Sulpher Springs Rd to SR-266	2	3	2006	Widening	Widen to 3 lanes	
16	Rutherford	Murfreesboro	SR-96	Overall Cr to I-24	4	5	2006	Widening	Widen from 4 to 5 lanes to provide center turn lane	
52	Rutherford	Murfreesboro	TN Blvd Ext	Wenlon Dr to Northfield Blvd	0	3	2006	New Roadway	Extend 3 lane section	
21	Sumner		SR-386	W of Station Camp Creek Rd to E of Harris Ln Int.	0	4	2006	New Roadway	Construct new 4 lane roadway	
19	Sumner		SR-386	SR-109	0	0	2006	Intersection	Construct new interchange at SR-386 and SR-109	
20	Sumner		SR-386	E of Harris Ln Int. to SR-109 Bypass	0	4	2006	New Roadway	Construct new 4 lane roadway	
59	Sumner	Gallatin	Big Station Camp Creek Rd	SR-6 to SR-174	0	3	2006	New Roadway	Build new 3 lane roadway	
60	Sumner	Hendersonville	Anderson Lane Ext.	SR-6 to Indian Lake Blvd Ext.	0	2	2006	New Roadway	Build new 2 lane roadway	
61	Sumner	Hendersonville	Imperial Blvd Ext.	Walton Ferry Rd to Saunders Ferry Rd	0	3	2006	New Roadway	Build new 3 lane roadway	
18	Sumner	Hendersonville	Indian Lk Blvd Ext	Exist Indian Lk Blvd (SR-6/US-31) to SR-386	0	5	2006	New Roadway	Construct new 5 lane roadway including center turn lane	
17	Sumner	Millersville	Cartwright Pkwy Ext.	SR-41 to US-31W	0	2	2006	New Roadway	Extend Carwright Parkway to allow for connection to I-65	
22	Williamson		Hillsboro Rd	Franklin City Limits to Berrys Chapel Rd	2	5	2006	Widening	Widen from 2 to 5 lanes, including center turn lane	
68	Williamson		SR-840	SR-6 to SR-106	0	4	2006	New Roadway	Construct new 4 lane roadway	
23	Williamson		SR-96	E of I-65 to Arno Rd	2	4	2006	Widening	Widen from 2 to 4 lanes	
56	Williamson	Brentwood	Concord Rd	Arrowhead Dr to Edmonson Pk	2	3	2006	Widening	Widen to 3 lanes	
47	Williamson	Brentwood	Wilson Pk	McEwen Dr Ext. to Moores Ln	2	2	2006	Reconstruction	Improve roadway to 2-ln standards incl. 12' lanes and 6' shoulders	
46	Williamson	Franklin	Liberty Pk Ext.	exist. terminus to Wilson Pk	0	3	2006	New Roadway	Extend roadway to include bikelane and sidewalks	
24	Wilson	Lebanon	I-40	US-231 Bypass	0	0	2006	Intersection	Interchange and Bypass	
25	Wilson	Lebanon	Lebanon Pk (SR-24/US 70)	Palmer Rd to SR-26	2	5	2006	Widening	Widen from 2 to 5 lanes, including center turn lane	
27	Wilson	Lebanon	SR-24/US-70	SR-109 to Palmer Rd	2	5	2006	Widening	Widen from 2 to 5 lanes, including center turn lane	

Locally Funded Projects

Project	County	City	Project Location	Termini	Existing Lanes	Future Lanes	Year	Improvement	Project Description	Exempt From Conformity
26	Wilson	Mt. Juliet	SR-171	I-40 to Division St	3	5	2006	Widening	Widen from 3 to 5 lanes	
62	Davidson	Nashville	Baptist World Center Drive	Fern to W Trinity Ln	2	5	2016	Widening	Widen to 5 lanes	
28	Davidson	Nashville	I-40 East	I-24 to Donelson Pk	6	8	2016	Roadway	Widen from 6 to 8 lanes to provide 2 HOV lanes	
66	Davidson	Nashville	Union St	Church St to 6th Ave	0	0	2016	Other	Convert 2 way street to 1 way street	
29	Rutherford		I-24 E	US-231 to SR-96	4	8	2016	Widening, Intersection	HOV lanes and new interchange at SR-99	
30	Rutherford		SR-840	Beasley Rd Ext.	0	0	2016	Intersection	Construct new interchange on SR-840 at Beasley Road	
53	Rutherford	Murfreesboro	Pitts Ln/ Wenlon Dr	Chariot Dr to Dejarnette Ln	2	2	2016	Reconstruction	Reconstruct to 12' lanes/6' shoulder	
48	Rutherford	Murfreesboro	Rutherford Blvd	US-231/SR-10 to Ransom Dr	3	5	2016	Widening	Widen to 5 lanes	
33	Sumner		SR-109	S of SR-76 to SR-52	2	5	2016	Widening	Widen from 2 to 5 lanes, including center turn lane	
32	Sumner		SR-109	Wilson Co Line to SR-109 Bypass	2	5	2016	Widening	Widen from 2 to 5 lanes, including center turn lane	
34	Sumner		SR-109	SR-109 Bypass near Crestview Cemetery to Hollis Chapel Rd	2	5	2016	Widening	Widen from 2 to 5 lanes, including center turn lane	
35	Sumner		SR-386 Ext.	Exist SR-386 to W of Station Camp Cr Rd	0	4	2016	New Roadway	Construct new 4 lane roadway	
58	Sumner	Gallatin	SR-6	N. Water Ave	0	0	2016	Intersection	Realign intersection (safety)	
31	Sumner	Hendersonville	Rockland Rd / Imperial Blvd Ext.	Center Point Rd to Imperial Blvd	0	3	2016	New Roadway	Construct new 3 lane roadway	
36	Sumner	Hendersonville	Walton Ferry / New Shackle Isle.	Luna Ln to New Shackle Isle Rd	2	3	2016	Widening	Widen to Walton Ferry, Old Shackle Isle as 3 lane sections w/bike lanes. Realign intersection	
40	Williamson		SR-840	E of Thompson Sta Rd to SR-6	0	4	2016	New Roadway	Construct new 4 lane roadway	
41	Williamson		SR-840	SR-100 to Bending Chestnut Rd	0	4	2016	New Roadway	Construct new 4 lane roadway	
39	Williamson		SR-840	Bending Chestnut to E of Thompson Station	0	4	2016	New Roadway	Construct new 4 lane roadway	
45	Williamson	Franklin	Carothers Rd Ext	SR-96 to New Liberty Pk	0	4	2016	New Roadway	Extend Roadway as 4-ln undivided with sidewalks	
44	Williamson	Franklin	Horton Ln	Willow Springs Subdivision to Downs Blvd	2	2	2016	Reconstruction	Reconstruct to standards and add bike lanes/sidewalk	
37	Williamson	Franklin	I-65	McEwen Dr	0	0	2016	Intersection	Construct new interchange on I-65 at McEwen Drive	
38	Williamson	Franklin	Mack Hatcher	SR-96 to Franklin Rd (SR-6)	2	4	2016	Widening	Widen from 2 to 4 lanes	
43	Wilson	Lebanon	SR-109	Division St to S of Lebanon Pk (SR-24/US-70)	2	5	2016	Widening	Widen from 2 to 5 lanes, including center turn lane	
42	Wilson	Mt. Juliet	I-40	Beckwith Ln	0	0	2016	Intersection	Construct new interchange on I-40 at Beckwith Lane	

APPENDIX G

INTERAGENCY CONSULTATION MEETING MINUTES/NOTES

March 24, 2005 Minutes

2005 Nashville Area Long Range Transportation Plan Update
Interagency Consultation Meeting Minutes

Attendees: MC-Marc Corrigan, TDEC
FH-Fred Huggins, Metro Health Department
MK-Michelle Kubant, Nashville MPO
MM-Matt Meservy, Nashville MPO
RR-Rob Raney, Metro Health Department
FS-Fred Schwartz, Nashville MPO
By Phone:
LB-Lynorae Benjamin, EPA
TH-Theresa Hutchins, FHWA
DF-Doug Frate, FTA

Meeting started at 2:30p (Central Time)

MM discussed travel demand and air quality model highlights, (attached). LB requested documentation of MOBILE inputs. MM would present inputs at next interagency meeting.

MM also indicated that TDEC has not finalized the new motor vehicle emissions budget for the new 2016 SIP so we won't be able to compare the mobile emissions to the new budget at this time. MC relayed that these numbers will be available according to schedule by June 2005. TH asked what type of VMT was going to be used to develop the MOBILE emission factors for this plan. MM stated model VMT.

MM brought up a concern pertaining to the 2006 MVEB. The concern was since the 2006 budget was developed using MOBILE 5, what would happen if MOBILE 6 causes the emissions to go over budget. LB stated that unless the budget is changed by the State, we would need to adhere to the current budget. LB also stated that there is EPA guidance that discusses this type of situation. She will send guidance via email. TH mentioned since the 2006 model network will only include the existing + committed projects, the MPO may want to contact TDOT about the completion date of committed projects and verify that they will be completed on or before 2006.

MK and FS discussed the financial assumptions to be used for this Long Range Transportation Plan Update, (items attached). DF requested the documentation of these assumptions. MM indicated that he would send them along with the meeting minutes.

FS also brought up issues with congested corridors that did not have projects but needed further analysis to determine the best solution. TH said it was okay to show unresolved corridor issues as long as it is stated that there will be further analysis required. There is no need to include "placeholder" projects in the Plan to account for a worst-case scenario.

Meeting ended at 3:30p

June 29, 2005 Minutes

Interagency Consultation Meeting #2 for
Nashville Area MPO Long Range Transportation Plan

Date: Wednesday, June 29, 2005
Time: 10:00 am CST

Attendees:
Fred Huggins (FH) – Metro Health Department
Matt Meservy (MM) –Nashville Area MPO
Fred Schwartz (FS) – Nashville Area MPO
Hubie Stevens (HS) – Tennessee Department of Environment and Conservation
By Phone:
Lynorae Benjamin (LB) – Environmental Protection Agency, Region 3
Marc Corrigan (MC) – Tennessee Department of Environment and Conservation
Theresa Hutchins (TH) – Federal Highway Administration
Angie Midgett (AM) - Tennessee Department of Transportation

Meeting started with introductions and began with MM stating that a draft conformity document was sent June 16 and wanted to know if anyone had any comments. TH mentioned that there wasn't a project list included in the document. MM stated that due to file size, the project list wasn't included but will be sent separately upon request. TH requested the project list including the non-modeled (exempt) projects identified. MM would send the requested project list.

Next, MM began going over the MOBILE inputs and outputs used to show air quality conformity for the LRTP. MC commented that the minimum temperature may need to be adjusted to match the minimum temperature used to develop the new SIP budget. LB stated that this needs to be the case in order to have a conforming Plan. The rest of the group agreed and MM will rerun the MOBILE model using the proper minimum temperature (64.7). The results will be emailed to the group once the runs are complete.

Also, MC suggested that the Anti-Tampering (ATP) inputs should include the new weight class, (HDGV2b). The group agreed and MM will rerun the MOBILE model using the new ATP file.

LB suggested there should be a more elaborate discussion on the new SIP in Section 2. LB said she would help by sending the text for this Section.

LB also suggested that Table 3.1 of the draft conformity document include 2016 as the end of the AQ maintenance plan currently being developed.

TH would like to see the graph used to develop the vmt-by-hour inputs somewhere in the document instead of just Table 6.3.

LB noticed the heading of Section 3 needed to be changed to 2030. All agreed.

Lastly, LB wanted to see additional text regarding Transportation Control Measures (TCM) used for the Nashville region. HS and FH mentioned that Nashville doesn't have any TCMs in the SIP. LB agreed, but wanted a better discussion in the document. LB would help by sending text for this section.

Meeting adjourned. Time: 10:26 am CST

3rd Interagency Consultation (via email)

-----Original Message-----
From: Meservy, Matt (Planning)
Sent: Friday, July 08, 2005 3:12 PM
To: Theresa Hutchins (E-mail); Alan Jones (Alan Jones); Angie Midgett (E-mail); Benjamin.Lynorae@epamail.epa.gov; Bill Farquar (wfarquhar@gnrc.org); Bob Rock (Robert Rock); Doug Frate (E-mail); Fred Huggins (E-mail); Hubie Stephens (E-mail); Jeanne Stevens (jeanne.stevens@state.tn.us); Marc Corrigan (E-mail); Schwartz, Fred (Planning); Downs, Patricia (MTA); Raney, Rob (Health)
Subject: Interagency Consultation #3 - Important

Good afternoon.

Attached is the project list for the 2005 LRTP. The far right column indicates which projects are exempt from the Travel Demand Model process.

Important note:
Due to the new structure of the travel demand model, there are a couple of exempt items that should be removed from the list. When looking at the list of exempt items in the draft conformity document (page 3 - Exempt Projects), items 6 and 7 should be removed because, as stated earlier, due to the structure of the THIS travel demand model adding or removing center turn lanes DOES affect the capacity of the road. This was not the case with the previous model - which is still being used for the update of the 2006-2008 TIP.

The attached project list DOES NOT show projects matching items 6 & 7 as exempt.

So, my question to you, the IAC members, is this:

Do you agree with removing items 6 & 7 from the exempt list and re-numbering 8 & 9 to 6 & 7?

This really seems to be the logical answer because if you answer no, then we essentially have two exempt items that aren't really exempt from the travel demand model. This really doesn't make sense.

Anyway, please respond to my question so I can make the official change to the document. Your response is required on or before Noon (central) Wednesday, July 13. If I don't hear from you, I will assume your answer is YES.

Thanks.

Response: YES (Unanimous)

APPENDIX H

PUBLIC PARTICIPATION

Public Participation Process

The Conformity Document's public participation process followed the same procedures as the Long Range Transportation Plan's public participation process as outlined in the Nashville Area MPO's adopted Citizen Participation Plan. The public review period began the day after the Executive Board approved the Plan for public comment on August 18, 2005. Ads were placed in all primary newspapers in the region, as well as on the MPO's website, announcing that the Plan was available for public comment.

Public hearings were held during the comment period. Meetings were held in each of the 5 MPO counties at locations readily accessable to all citizens. A public hearing invitation was placed in local and regional newspapers, in publications serving minority and non-English speaking populations, and on the MPO's website. Press releases were also sent to area newspapers to solicit additional stories by the media.

Copies of the Plan were placed at all local public libraries in the MPO region; it was also available for download from the MPO's website. Citizens who attended the public hearings were provided with letter-size maps and project lists to take with them.

Citizens were encouraged to submit comments in a variety of ways: by e-mail, by fax, or by mail, on a fold-up form that was pre-addressed to the MPO. Also, staff was available to take notes on significant verbal comments made at the public hearings.

The first of two public hearings was held at the September Executive Board meeting mid-way through the review process. The public was invited to speak at this meeting. The Executive Board and TCC was debriefed on any comments received during the public meetings held within the MPO counties.

A second and final public hearing was held at the end of the public review period at the October 19, 2005 Executive Board meeting. The public was again given the opportunity to speak. Staff provided the Board with a summary of all additional comments received since the last briefing.

Public Comments and Responses

No comments recived during public comment period pertaining to the Conformity Document.

Advertisement used for Conformity Document Public Hearing Notice

PUBLIC NOTICE

The Nashville Area Metropolitan Planning Organization (MPO) is responsible for long range transportation planning in Davidson, Rutherford, Sumner, Williamson, and Wilson Counties. The MPO is holding a 60-day public review of the Draft Air Quality Conformity Determination Document.

Residents of the Nashville Region will have an opportunity to review and comment on the Draft Air Quality Conformity Determination Document. This document explains the process utilized to calculate the amounts of pollutants produced for three Horizon Years of interest: 2016, 2025 and 2030. These Horizon Years are consistent with the transportation system and travel demand documented in the Draft 2030 Long Range Transportation Plan.

The proposed Air Quality Conformity Determination Document includes all the details of the inputs and outputs from the Long Range Transportation Plan and the assumptions of speed and average summer weather and the final level of pollutants expected.

Copies of the Document are available for public review and comment at the public libraries in the 5-county area as well as Spring Hill and Springfield. Comments received will be considered by the MPO Executive Board prior to final approval. Two Public Hearings will be held. The first will be on Wednesday, September 7, 2005 at 10:00 a.m. This meeting will be held in the Howard School Auditorium, located at 700 2nd Ave. S., Nashville. The final hearing will be held Wednesday, September 28, 2005 at 9:00 a.m. This meeting will be held at the Mid-Cumberland Human Resource Agency, 1101 Kermit Dr., Ste. 300, Nashville.

For more information, call 862-7204 or visit our website at www.nashvillempo.org.

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All employment related inquiries should be forwarded to Metro Human Resources, Veronica Frazier at (615) 862-6640.