STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL
9TH FLOOR, L & C ANNEX
401 CHURCH STREET
NASHVILLE, TN 37243-1531
TELEPHONE (615) 532-0554
FAX (615) 532-0614

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August 10, 2005

J.I. Palmer, Jr.
Regional Administrator
US EPA, Region IV
Atlanta Federal Center, 12th Floor
61 Forsyth Street, SW
Atlanta, GA 30303

RE: Non-Regulatory State Implementation Plan (SIP) submittal:
Middle Tennessee 1-Hour Ozone
Maintenance Plan Update

Dear Mr. Palmer:

As the Governor's designee, I am pleased to submit for EPA's review and approval five copies of Tennessee's non-regulatory SIP submittal, the *Middle Tennessee 1-Hour Ozone Maintenance Plan Update for the Counties of Davidson, Rutherford, Sumner, Williamson and Wilson* (the plan update). The plan update provides for the continued maintenance of the 1-Hour Ozone NAAQS in Davidson, Rutherford, Sumner, Williamson and Wilson counties (the area) during the 2006 - 2016 time period, fulfilling the requirements of Section 175A(b) of the Federal Clean Air Act.

Based on 1-hour ozone monitoring data, a 2002 base year emissions inventory, and emissions projections presented in the plan update, the area is maintaining the 1-Hour Ozone NAAQS, and will continue to maintain it during the 2006 – 2016 time period.

This submittal includes the following as part of the non-regulatory amendment to the SIP:

- The *Middle Tennessee 1-Hour Ozone Maintenance Plan Update for the Counties of Davidson, Rutherford, Sumner, Williamson and Wilson* (the plan update).
- Tennessee Air Pollution Control Board Order No. 05-007 dated August 10, 2005, incorporating the plan update into the State Implementation Plan.
- The Legal Notice of Public Hearing for the plan update, published in the June 10, 2005, edition of *The Tennessean.*
- Public hearing documentation for the July 11, 2005 hearing.
- A Response to Comments document compiling public comments and responses thereto.

Should you or your staff have any questions about this submittal, please feel free to call me at (615)-532-0525 or Hernan Flores of my staff at (615) 532-0593.

Sincerely,

Barry R. Stephens, P.E.
Technical Secretary
Tennessee Air Pollution Control Board

Enclosures

Copy to: Kay Prince, EPA Region IV
Dick Schutt, EPA Region IV
Anne Marie Hoffman, EPA Region IV
TN Air Pollution Control Board Members
Rob Raney, Metro Public Health Department of Nashville/Davidson County, Pollution Control Division

MIDDLE TENNESSEE 1-HOUR OZONE MAINTENANCE PLAN UPDATE

MIDDLE TENNESSEE

1-HOUR OZONE MAINTENANCE PLAN UPDATE

FOR THE COUNTIES

of

DAVIDSON, RUTHERFORD, SUMNER, WILLIAMSON AND WILSON

Submitted
July, 2005

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ACKNOWLEDGEMENTS

Metro Nashville and the State of Tennessee would like to gratefully acknowledge the work of Mr. Jay Haney of Systems Applications International, LLC. Mr. Haney and the staff at SAI were responsible for the preparation of the base year and future year emissions inventories. Their expertise contributed greatly to making this project a success.

MIDDLE TENNESSEE
1-HOUR OZONE MAINTENANCE PLAN UPDATE
FOR THE COUNTIES OFDAVIDSON, RUTHERFORD, SUMNER, WILLIAMSON AND WILSON

SECTION 1.0 INTRODUCTION

This report was prepared in accordance with Section 175A(b) of the Clean Air Act as amended in 1990, and in accordance with EPA's current guidance on maintenance plans. Additionally, in accordance with 40 CFR 93 (i.e., the Transportation Conformity Rule) motor vehicle emissions budgets were developed as a part of this maintenance plan.

The Metro Nashville Public Health Department, Pollution Control Division (local program) and the Tennessee Department of Environment and Conservation, Air Pollution Control Division (state program) prepared this report. These two programs represent the original Middle Tennessee five county 1-hour ozone nonattainment area. The local program is responsible for Davidson County and the state program is responsible for Rutherford, Sumner, Williamson and Wilson counties.

In 1978, Davidson County was designated nonattainment by the Environmental Protection Agency (EPA) for the 1-hour ozone National Ambient Air Quality Standard (NAAQS). In 1987, the counties of Rutherford, Sumner, Williamson and Wilson were also designated as nonattainment of the 1-hour ozone NAAQS by EPA. During the period of 1992 - 1994, based on measured air quality data, the Middle Tennessee area was able to demonstrate attainment with the 1-hour ozone NAAQS due to numerous control measures implemented in the area. As a result of the measured air quality data, the area petitioned EPA for redesignation. In 1996, EPA redesignated the area to attainment based on the measured air quality data and a ten-year maintenance plan submitted by the area. The maintenance plan set out the steps the area would take to maintain attainment with the 1-hour ozone NAAQS. One of the requirements of the redesignation process was that eight years after redesignation (2004), the Middle Tennessee area would be required to submit another ten year maintenance plan demonstrating that the area would continue to attain the 1-hour ozone NAAQS through 2016. This document satisfies the requirement to submit the second ten-year 1-hour ozone maintenance plan.

The remainder of the document is organized as follows.

- Section 2.0 Current 1-hour ozone air quality data.
- Section 3.0 Emissions inventory from 2002 to 2016.
- Section 4.0 Motor Vehicle Emissions Budget.
- Section 5.0 Contingency measures.
- Section 6.0 Conclusion.
- Section 7.0 Appendices.

SECTION 2.0 CURRENT 1-HOUR OZONE AIR QUALITY

The following tables summarize air quality data taken from the EPA AIRDATA website. The data in these tables represent the seven ozone monitors in the Middle Tennessee area. Table 2.1 presents the annual maximum 1-hour ozone concentrations measured for the three-year period of 2000 - 2002. Table 2.2 presents the annual maximum ozone concentrations measured for the three-year period of 2002 - 2004. The 2000 - 2002 time period was chosen to represent the status of 1-hour ozone in Middle Tennessee at the time of the 2002 emissions inventory base year. As shown in the tables, there have been no exceedances of the 1-hour ozone standard in the Middle Tennessee area during the time period. Therefore, these data document that the maintenance area continues to attain the 1-hour ozone NAAQS as projected in the 1996 maintenance plan. The maximum 1-hour ozone values are shown in parts per million (ppm).

Table 2.1 2000 - 2002 1-HOUR OZONE AIR QUALITY DATA

County	Site	2000 Max.	2001 Max.	2002 Max.	Exceedances
Davidson	470370011	0.104	0.088	0.087	0
Davidson	470370026	0.109	0.106	0.100	0
Rutherford	471490101	0.102	0.088	0.121	0
Sumner	471650007	0.123	0.113	0.118	0
Sumner	471650101	0.110	0.109	0.106	0
Williamson	471870106	0.122	0.097	0.124	0
Wilson	471890103	0.118	0.096	0.124	0

Table 2.2 2002 - 2004 1-HOUR OZONE AIR QUALITY DATA

County	Site	2002Max.	2003 Max.	2004 Max.	Exceedances
Davidson	470370011	0.087	0.085	0.084	0
Davidson	470370026	0.100	0.092	0.096	0
Rutherford	471490101	0.121	0.090	0.098	0
Sumner	471650007	0.118	0.100	0.095	0
Sumner	471650101	0.106	0.098	0.104	0
Williamson	471870106	0.124	0.091	0.081	0
Wilson	471890103	0.124	0.099	0.098	0

The Metro Nashville Public Health Department, Pollution Control Division (local program) and the Tennessee Department of Environment and Conservation, Air Pollution Control Division (state program) will continue to monitor ozone in the five-county area throughout the maintenance period.

SECTION 3.0 EMISSIONS INVENTORY FROM 2002 - 2016

Tables 3.1 and 3.2 show VOC and NOx emissions from 2002 - 2016 along with the safety margin based on 2002 (base year) emissions. The 2002 emissions were calculated based on actual emissions for 2002 as used for the 2002 NEI, VISTAS, MOBILE6.2.03 and NONROAD2004 (draft). The safety margin is calculated by subtracting future year emissions from 2002 emissions. The safety margin represents the total expected emission reductions for each milestone year. The emission units are in tons per ozone season day.

Table 3.1 VOC Emissions Inventory 2002 - 2016

	Area	Non-Road Mobile	On-Road Mobile	Point	Total	Safety Margin Based on 2002 Emissions
2002	80.63	27.53	51.21	19.97	179.34	na
2006	85.56	24.01	37.28	13.05	159.90	19.44
2009	89.03	20.30	31.03	14.02	154.38	24.96
2012	92.75	18.45	24.91	15.09	151.20	28.14
2016	98.87	16.77	19.18	17.02	151.84	27.50

Table 3.2 NOx Emissions Inventory 2002 - 2016

	Area	Non-Road Mobile	On-Road Mobile	Point	Total	Safety Margin Based on 2002 Emissions
2002	21.13	47.85	136.00	53.29	258.27	na
2006	23.48	44.74	97.89	61.01	227.11	31.15
2009	24.45	41.18	77.65	61.57	204.85	53.42
2012	25.69	37.71	56.02	64.21	183.63	74.64
2016	26.53	32.97	36.01	65.21	160.72	97.54

3.1 SUMMARY OF BASE AND FUTURE YEAR EMISSION INVENTORY PREPARATION PROCEDURES

This section presents information regarding sources of input data, and the methodologies and procedures for preparing base year and future year emission inventories for the Middle Tennessee 5-county area for the 1-hour ozone maintenance plan update.

3.1.1 BASE YEAR EMISSIONS

Base year emissions were developed for 2002 for the Middle Tennessee 5-county area from a variety of information sources and using the latest available versions of EPA's emission estimation tools. Following is a summary of the procedures used to develop the 2002 base year emissions inventory.

3.1.1.1 POINT SOURCES

Point source emissions were based on the EPA's preliminary NEI 2002 data base, except for TVA's Gallatin facility located in Sumner County, and three gas compressor stations located in Sumner and Wilson Counties. Day-specific emissions for TVA's Gallatin facility were supplied for the ATMOS June 2001 episode. The emissions for June 18, 2001 (weekday) were used as representative for the 2002 base year inventory. Emission estimates for 2001 provided by the companies for three gas compressor

stations (Tennessee Gas Pipeline Station 87, Midwestern Gas Transmission Co., and Texas Eastern Transmission Gladeville) were used for the 2002 base year. Appendix A lists point source emissions by facility. Appendix B lists point source emissions by source classification code. Appendix C lists the TVA and gas compressor station emissions.

3.1.1.2 AREA SOURCES

Area source emissions were based on 2002 data obtained from the VISTAS group. The methodologies followed in preparing the VISTAS 2002 inventory are summarized in Appendix D.

3.1.1.3 NON-ROAD MOBILE SOURCES

Emissions for aircraft, commercial marine vessels, and railroads were based on the VISTAS 2002 database as described in Appendix D. Emissions for other non-road source categories were estimated using the EPA draft NONROAD2004 model, using June maximum, minimum and average temperatures. The month of June was selected as being a representative month in the mid portion of the ozone season. Please see Appendix I for an example options input file used for NONROAD2004.

3.1.1.4 ON-ROAD MOBILE SOURCES

Emissions for 2002 were estimated using MOBILE6.2.03 with June temperatures and absolute humidity data (30-year historical average), and county-level 2002 DVMT data provided by the Nashville Area Metropolitan Planning Organization (Nashville MPO). Details about the application of MOBILE6 for the base and future years are presented in Section 3.1.2.4 and Appendix J.

3.1.2 PERMANENT AND ENFORCEABLE EMISSION REDUCTIONS

Implementation of the following Federal, State and Local programs, along with automobile fleet turnover, results in permanent and enforceable emission reductions that contribute to continued maintenance of the 1-Hour Ozone NAAQS in the Middle Tennessee five-county area.

3.1.2.1 FEDERAL MOTOR VEHICLE CONTROL PROGRAM (FMVCP)

Permanent and enforceable emission reductions have been and continue to be achieved each year through this program. In recent years, stricter federal requirements have been imposed on automobile manufacturers for improved fuel-efficiency and extended warranties for emission control devices. The projected emission reductions due to this program are reflected in the output from the MOBILE 6.2 model.

3.1.2.2 LOWER REID VAPOR PRESSURE OF GASOLINE

The 1990 CAAA mandated that the Reid Vapor Pressure (RVP) of gasoline decrease from 9.5 pounds per square inch (psi), to the current value of 7.8 psi during the ozone season. The projected emission reductions due to this program are reflected in the output from the MOBILE 6.2 model.

3.1.2.3 TIER 2 MOTOR VEHICLE EMISSIONS AND FUEL STANDARDS

Permanent and enforceable reductions will occur through this program. Beginning in 2004, this program will phase in a single set of tailpipe emission standards that will apply to all passenger cars, light trucks, and larger passenger vehicles operated on any fuel. To enable the control technology to be introduced and to maintain its effectiveness, this program also requires reduced gasoline sulfur levels nationwide. The reduction in sulfur levels will also contribute directly to cleaner air in addition to its beneficial effects on vehicle emission control systems. The Tier2/Sulfur standards are to be phased in during the 2004 - 2009 timeframe. The projected emission reductions due to this program are reflected in the output from the MOBILE 6.2 model.

3.1.2.4 HEAVY-DUTY DIESEL ENGINE AND FUEL STANDARDS

Permanent and enforceable reductions will occur through this program. This program will result in NOx emission levels from new heavy duty diesel engines that are significantly below the levels in effect today. The rule mandates a 97 percent reduction in the sulfur content of diesel fuel beginning in 2006. The projected emission reductions due to this program are reflected in the output from the MOBILE 6.2 model.

3.1.2.5 POINT SOURCE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP)

Permanent and enforceable reductions will result from the implementation of several federal regulations promulgated to control the emission of Hazardous Air Pollutants, many of which are also Volatile Organic Compounds. The projected emission reductions due to this regulatory program are reflected in the point source emission growth projections.

3.1.2.6 AREA SOURCE EMISSION REDUCTIONS

Although there are many beneficial Federal programs directed at reducing volatile organic compound (VOC) emissions from things such as architectural coatings, traffic paints, autobody refinishing and commercial and consumer products, the VOC emission reductions from these programs are very hard to accurately quantify. Therefore, no specific area source VOC emission reductions were quantified for the Middle Tennessee five county area for purposes of this 1-hour ozone maintenance plan update.

3.1.2.7 NON-ROAD MOBILE SOURCE EMISSION REDUCTIONS

Tier 2 and Tier 3 diesel engine standards will be phased in for various sized nonroad diesel engines from 2001 - 2008. These standards along with mandated fuel sulfur level reductions will allow similar results as obtained in the onroad diesel engine and fuel sulfur program. The projected emission reductions due to this program are reflected in the output from the NONROAD 2004 model.

3.1.2.8 FLEET TURNOVER OF ON-ROAD VEHICLES

Permanent and enforceable emission reductions have been and continue to be achieved each year as a result of fleet turnover of on-road vehicles. As older, less efficient on-road vehicles are replaced by newer, more efficient models, the emissions

decrease on a per mile basis. The projected emission reductions due to this program are reflected in the output from the MOBILE 6.2 model.

3.1.2.9 STATE AND LOCAL VEHICLE INSPECTION PROGRAM WITH THE ADDITION OF THE HDGV2B WEIGHT CLASS VEHICLES

There is an existing IM Program in the counties of Davidson, Rutherford, Sumner, Williamson and Wilson. This program tests light duty gas vehicles up to 8,500 pounds GVWR. On April 1, 2005, the program was expanded by the addition of light duty gas vehicles up to 10,500 pounds GVWR and light duty diesel vehicles. The projected emission reductions due to this program are reflected in the output from the MOBILE 6.2 model.

3.1.3 EMISSIONS GROWTH PROJECTIONS

This section describes how the future-year emissions for the Middle Tennessee five-county area, presented in Tables 3.1 and 3.2, were derived for point, area, non-road, and on-road mobile sources. The future-year emissions for the Middle Tennessee five-county area were projected forward from the 2002 base year emissions estimates.

The development of future-year emissions estimates for point and area sources follows a two-step process. First, base-year emissions are projected to a designated future year using growth factors. The growth factors are derived from economic projection models, which take into account expected changes in economic conditions by source sector and include expected changes in population and workforce. The growth factors used in this assessment were those contained in EPA's Economic Growth Analysis System, Version 5.0 (EGAS-5.0). This database is based on economic modeling conducted in 2004 and provides growth factor information by source category for every year up to 2025. The growth factors, by Source Category Code (SCC), that were used to project area and point source emissions for the Middle Tennessee five-county area are presented in Appendix F.

After the emissions are "grown" (in some cases reduced), energy adjustments are made on various fuel combustion sources using information provided by the Department of Energy (DOE, 1998). The energy adjustment factors used in preparation of the Middle Tennessee five-county inventories are presented in Appendix G. In addition to these adjustments, applicable national controls are applied in the specified future year on certain sources using information provided by EPA (EPA, 2000). For example, certain sources emitting VOC's are required to install MACT controls to comply with existing national regulations. The list of controls for the Middle Tennessee five-county area is provided in Appendix H. The net of growth and control of emissions results in the estimate for the applicable future year.

The following presents details of the future-year emission estimates for point, area, non-road, and on-road mobile emissions for Nashville area counties.

3.1.3.1 POINT SOURCES

The future-year emission estimates for point sources are based on the projection of the base year inventory (2002) to the future years using economic growth factors contained in EPA's EGAS-5.0 database/tool, which contains economic growth factors by point source category code. Energy adjustment factors, as obtained from the US Department of Energy, were applied to applicable non-electric generation unit (non-EGU) fuel combustion point sources in each of the counties. The following procedures were used for the Middle Tennessee five-county area.

The emission changes from 2002 to 2003 for CITGO and DuPont supplied by Metro Nashville Public Health Department (MNPHD) were applied to the 2002 base year. The emissions for the future years were projected from the revised 2002 base year level. Controls included in the CAA and MACT assumptions were applied to the applicable point sources.

EGAS-5.0 growth factors were applied to the 2002 base year emissions except for TVA's Gallatin facility located in Sumner County, and three gas compressor stations located in Sumner and Wilson counties. Emissions for 2007 and 2012 for TVA's Gallatin facility as supplied for the ATMOS 2007 and 2012 inventories were incorporated. It was assumed that the combustion turbines only operate for four (4) hours per day (noon to 4pm). The 2007 TVA emission estimates were used for 2006 and 2009, while the 2012 estimates provided by TVA were used for 2016.

Energy adjustment factors were applied to the non-EGU fuel combustion sources. NOx SIP Call Phase I controls were applied to the non-EGU source, DuPont located in Davidson County.

A 6% growth rate assumption was used to project the emissions for gas compressor stations from base year level to 2006 (the emissions were then kept at the 2006 level for 2009, 2012, and 2016).

An example of applying an EGAS growth rate to estimate emissions for 2012 for a particular point source (Rhodia Inc., located in Davidson County) is provided in the following:

> Based on the preliminary NEI 2002 data, the 2002 NOx emissions from this facility are 8.29 tons/year, i.e., annual average daily emissions are 0.0227 tpd. The SCC for the facility is 10200602 (External combustion, Industrial, Natural Gas). The EGAS-5.0 growth factor for the SCC from 2002 to 2012 is 1.2017. Therefore, the NOx emissions for the facility after applying the 2012 growth rate are as follows:
>
> 0.0227 tpd * 1.2017 = 0.0273 tpd

Following the projection to 2012, an energy adjustment factor is used to account for expected future energy efficiencies.

From the projection above, the NOx emissions for the facility are 0.0273 tpd. The energy adjustment factor for the SCC is 0.8831, so the NOx emissions after applying the adjustment is as follows:

0.0273 tpd * 0.8831 = 0.0241 tpd

3.1.3.2 AREA SOURCES

The base year emissions for area sources were based on VISTAS estimates for 2002. The future year estimates for area sources are based on EPA's EGAS-5.0, which contains economic growth factors by area source category code. Energy adjustment factors were also applied to fuel combustion sources. The projection and energy adjustment factors contained in Appendices F and G were applied to specific area-source categories, as applicable, for sources located in the five-county Middle Tennessee area.

3.1.3.3 NON-ROAD MOBILE SOURCES

The future-year emission estimates from non-road mobile sources are based on EPA's draft NONROAD2004 model, which includes estimates for growth based on expected future economic conditions and other factors, as well as any national controls that apply to these sources in the future years. In applying the NONROAD2004 model, June maximum, minimum and average temperatures were used. Following is a summary of the inputs to the NONROAD2004 model for the Middle Tennessee area. The EPA NONROAD2004 default input data were used in the following packages:

/RUNFILES/
/POP FILES/
/GROWTH FILES/
/ALLOC FILES/
/EMSFAC FILES/
/DETERIORATE FILES/

The FIPS codes for the Nashville 5-county area were specified in the /REGION/ package. In addition, the following inputs were used for 2002, 2006, 2009, 2012 and 2016.

Table 3.3 NONROAD2004 Local Parameters

Year	2002	2006	2009	2012	2016
Month	June	June	June	June	June
Weekday or Weekend	Weekday	Weekday	Weekday	Weekday	Weekday
Fuel RVP for gas	8	8	8	8	8
Oxygen Weight %	0	0	0	0	0
Gas sulfur %	0.0339	0.0339	0.0339	0.0339	0.0339
Diesel sulfur for Land-base Equipment %	0.2283	0.2249	0.0348	0.0031	0.0011
Diesel sulfur for Recreational Marine %	0.2638	0.2616	0.0408	0.0123	0.0056
CNG/LPG sulfur %	0.003	0.003	0.003	0.003	0.003
Minimum temper. (F)	62	62	62	62	62
Maximum temper. (F)	85	85	85	85	85
Average temper. (F)	73	73	73	73	73
Altitude of region	Low	Low	Low	Low	Low

An example NONROAD2004 input file for Middle Tennessee five-county area for 2006 with diesel fuel sulfur level set for land-based equipment is presented in Appendix I. For this assessment for non-road sources, future-year emissions for aircraft, commercial marine vessels, and locomotives were based on 2002 information projected to the future years using EGAS-5.0 factors.

3.1.3.4 ON-ROAD MOBILE SOURCES

To estimate future-year on-road mobile source emissions, EPA's MOBILE6 emission factor model (MOBILE6.2.03) was used along with county-specific estimates of future DVMT. In applying MOBILE6, June temperatures and absolute humidity data (30-year historical averages) were used. Following are the summer-time base year and future year DVMT estimates for the Middle Tennessee five-county area, which were provided by the Nashville Area MPO for each of the counties.

Table 3.4 Middle Tennessee DVMT Used to Estimate On-Road Mobile Emissions

Year	Davidson	Rutherford	Sumner	Williamson	Wilson	Total DVMT
2002	22,310,893	6,902,149	3,662,699	4,870,814	3,591,017	41,337,572
2006	23,672,279	8,380,123	3,695,161	5,721,576	3,777,766	45,246,905
2009	24,870,495	9,488,238	3,906,984	6,359,980	3,918,299	48,543,995
2012	26,068,711	10,596,353	4,028,969	6,998,383	4,058,831	51,751,247
2016	27,666,332	12,073,839	4,162,581	7,849,587	4,246,208	55,998,547

To provide more detail about the assumed on-road mobile inputs used for this analysis, Appendix J contains the following tables:

Table J-1. DVMT by Facility Type and County for the Nashville 5-County Area.

Table J-2. Vehicle Mix by Facility Type and Vehicle Type Davidson County

Table J-3. Vehicle Mix by Facility Type and Vehicle Type Rutherford County

Table J-4. Vehicle Mix by Facility Type and Vehicle Type Sumner County

Table J-5. Vehicle Mix by Facility Type and Vehicle Type Williamson County

Table J-6. Vehicle Mix by Facility Type and Vehicle Type Wilson County

Table J-7. Example speed input file for Davidson County

Table J-8. IM Program Input Files for Davidson County

Table J-9. IM Program Input Files for Rutherford, Sumner, Williamson and Wilson County

In estimating the future-year emissions, the effects of the Inspection and Maintenance (I&M) program currently operating in Davidson County, which is run and overseen by Davidson County, and a slightly different program in the other four counties, which is administered by the State of Tennessee, were accounted for with MOBILE6.2.03. Based on information from the Tennessee Department of Transportation (TDOT), it was assumed that 76 percent of the VMT in Davidson County is from cars subject to the Davidson County I&M program and 24 percent of the VMT is subject to the State's I&M program. An example MOBILE6 input file for Davidson County for 2006 is presented in Appendix K and an example output file for Davidson County for 2006 is presented in Appendix L.

4.0 MOTOR VEHICLE EMISSIONS BUDGET

Section 176(c) of the CAA, 42 U.S.C. 7506(c), states that transportation plans, programs, and projects must conform to an approved implementation plan. Pursuant to 40 CFR part 93 (i.e., the Transportation Conformity Rule) a specific emissions budget is defined for VOC and NOx for the Middle Tennessee five-county area. The Motor Vehicle Emissions Budget (MVEB) is to be used by the local metropolitan planning organization and transportation authorities to assure that transportation plans, programs, and projects are consistent with, and conform to, the long term maintenance of acceptable air quality in the Middle Tennessee five-county area.

4.1 2006 MOTOR VEHICLE EMISSIONS BUDGET

The 2006 emissions budgets for VOC and NOx were established in the 1996 maintenance plan. The area is currently meeting transportation conformity with the on-road mobile VOC and NOx emissions budgets. The MVEB for 2006 remains the same as defined in original 1996 maintenance plan. Following is the budget as presented in the 1996 plan for the Middle Tennessee five county area. The values are in tons per ozone season day.

Table 4.1 2006 MOTOR VEHICLE EMISSIONS BUDGET

	2006
VOC	53.17
NOx	96.60

4.2 2016 MOTOR VEHICLE EMISSIONS BUDGET

The MVEB is defined for the Middle Tennessee five-county area, for 2016, in this section. The values are equal to the 2016 on-road mobile source projected level of emissions plus an allocation from the safety margin. This allocation from the safety margin accounts for uncertainty in the projections and is available because of significant reductions of VOC and NOx that have occurred, and are projected to occur, primarily from mobile sources. The MVEB is constrained to assure that the total emissions (i.e., all source categories) do not exceed the 2002 attainment year emissions. In no case are the projected total emissions (i.e., all source categories and including the allocation from the safety margin to the on-road mobile source category), for any year, greater than the attainment year emissions totals for either VOC or NOx.

Under 40 CFR 93.101 the term safety margin is the difference between the attainment level (from all sources) and the projected level of emissions (from all sources) in the maintenance plan. The attainment level of emissions is the level of emissions during one of the years in which the area met the NAAQS for the pollutant of concern. The safety margin (or a portion of the safety margin) can be allocated to the transportation sector. However, the total emission level must stay below the attainment level. Table 4.2 presents the previously defined 2006 MVEB and defines the new 2016 estimated on-road mobile emissions, without the safety margin, for the Middle Tennessee five-county area.

Table 4.2 2006 MOTOR VEHICLE EMISSIONS BUDGET and 2016 ESTIMATED ON-ROAD MOBILE EMISSIONS

	2006	2016
VOC	53.17	19.18
NOx	96.60	36.01

The Nashville Area Metropolitan Planning Organization, (NAMPO), is currently in the process of developing a Long Range Transportation Plan (LRTP) update for the Middle Tennessee area. Because of timing issues between the 1-hour ozone maintenance plan update and the LRTP update, an effort was made to coordinate the 2016 MVEB with the emission totals from the MPO's travel demand model. Having this coordinated effort allows the NAMPO to develop a conforming LRTP simultaneously with the 1-hour ozone maintenance plan update. Without this coordination, the NAMPO would be forced to develop a new conforming LRTP within 18 months of the approval of the 1-hour ozone maintenance plan update.

Due to the submission schedule of the 1-hour ozone maintenance plan update, final emission values will not be available from the LRTP update. Therefore, it was decided by interagency consultation to add emissions equal to 10% of the VOC and NOx safety margins to the modeled 2016 VOC and NOx on-road mobile emissions estimate. This reallocation of emissions would provide the likelihood that the NAMPO LRTP update would conform to the 2016 MVEB and still maintain 2016 total VOC and NOx emissions less than the 2002 base year.

For 2016, the safety margins were 27.50 tpd for VOC and 97.54 tpd for NOx. It was determined that 10% of the VOC and NOx safety margins would be applied to the 2016 calculated on-road mobile emissions. For VOC, this would be 2.75 tpd taken from the 2016 safety margin and added to the calculated 2016 on-road mobile emissions. For NOx, this would be 9.75 tpd taken from the 2016 safety margin and added to the calculated on-road mobile emissions. After the 10% allocation of the VOC and NOx safety margins to the calculated on-road mobile emissions, the remaining safety margins in 2016 are 24.75 tpd for VOC and 87.79 tpd for NOx. The 2016 MVEB then becomes 21.93 tpd for VOC and 45.76 tpd for NOx. Table 4.3 illustrates the application of 10% of the 2016 safety margin to create the 2016 MVEB. All units are tons per ozone season day.

TABLE 4.3 2016 MVEB WITH SAFETY MARGIN INCLUDED

	2016 Safety Margin	10% of Safety Margin	2016 Estimated On-Road Mobile Emissions	2016 MVEB with Safety Margin
VOC	27.50	2.75	19.18	21.93
NOx	97.54	9.75	36.01	45.76

5.0 CONTINGENCY MEASURES

Following is a description of each activity that will be considered as a contingency measure should the Nashville MSA fail to maintain the 1-hour ozone standard while the standard remains in effect for the area. These measures are:

- High Occupancy Vehicle (HOV) lane expansion;
- Rideshare and trip reduction programs;
- Traffic signal synchronization;
- New pedestrian facilities (greenways) and bikeways;
- Improve bus ridership;
- New rail service (Nashville - Lebanon corridor);
- Land use planning that reduces driving; and,
- Clean Air Partnership (air quality action days).

In order to determine if contingency measures will be implemented, the MPHD and TDEC will periodically assess the assumptions used to develop the point and on-road mobile emissions inventory. An assessment will be made on the triennial cycle of the Consolidated Emissions Reporting Rule (CERR). Point source emissions and on-road daily vehicle miles traveled (DVMT) will be assessed to verify that they are in basic agreement with the assumptions made in the Middle Tennessee one-hour ozone maintenance plan update. If the basic assumptions made in the plan update prove to be erroneous, the MPHD and TDEC will initiate discussions on whether there appears to be enough difference to warrant the recalculation of the emissions in the remaining years of the plan and/or the implementation of any of the contingency measures.

Monitored air quality data will be an additional trigger used to initiate discussions on the implementation of any of the contingency measures. If a monitor in the five-county Middle Tennessee area shows a violation of the one-hour ozone NAAQS (an average of more than one exceedance per year over a consecutive three-year period), the MPHD and TDEC will initiate discussions to determine the most effective way to return the area to attainment.

In the event that a 1-hour ozone violation occurs, the agencies will assess the need for additional control measure(s) within 6 months. If it is determined that additional control measure(s) are needed, they will be selected and developed within 12 months. Within 18 months, any needed rulemaking and adoption of the control measure(s) will be completed and the SIP submitted to EPA. Implementation of the selected control measure(s) will occur no later than 24 months after the violation is discovered.

5.1 HIGH OCCUPANCY VEHICLE (HOV) LANE EXPANSION

The MPO and the Tennessee Department of Transportation will continue to explore ways to improve the system of interstate High Occupancy Vehicle (HOV) lanes throughout the Nashville MSA. Funding has been programmed into the Long Range Transportation Plan (LRTP) for HOV lanes in the Nashville MSA during the next 3 years totaling more than 11 miles of laneage, and additional laneage would be considered if contingency measures are needed.

5.2 RIDESHARE AND TRIP REDUCTION PROGRAMS

The Regional Transportation Authority and the TMA Group in Williamson County will continue activities to promote an increase in the number of persons using their rideshare programs, including carpools, vanpools, and inter-county express bus routes. As a contingency measure, the State and Local governments and the Nashville MPO would encourage and participate in these efforts to build new infrastructure to promote trip reduction and rideshare programs.

5.3 TRAFFIC SIGNAL SYNCHRONIZATION

Traffic signal synchronization is an on-going activity in several Nashville MSA counties. Expanding this effort would be considered if contingency measures are needed.

5.4 NEW PEDESTRIAN FACILITIES (GREENWAYS) and BIKEWAYS

There is a current program to build a system of pedestrian facilities and bikeways in the Nashville MSA. Expansion and acceleration of the existing program would be considered as a contingency measure. Also, every effort would be made to increase the use of the existing system by improving its safety and functionality.

5.5 IMPROVE BUS RIDERSHIP

Davidson County has already programmed funding in the regional Transportation Improvement Program (TIP) to make several key enhancements to its transit service. These projects include:

- Building a new transit facility in downtown Nashville to provide passengers with a safe, clean indoor location to transfer buses;
- Adding new express bus routes to previously unserviced/underserviced areas of the county;
- Replacing older buses, and expanding the total bus fleet with new, lower emission buses; and
- Improving existing bus stop facilities and adding shelters at key locations.

If contingency measures are needed, the State and Local governments will work with the Nashville MTA to accelerate plans for these activities and to explore other methods of improving bus ridership.

5.6 NEW RAIL SERVICE (Nashville - Lebanon Corridor)

The region is establishing a commuter rail line between Nashville and Lebanon, much of which is being funded through Congressional earmarks. However, significant portions will also be funded by local governments in Davidson and Wilson counties. The following local governments are contributing local matching funds for the project's capital costs:

- Metro Nashville/Davidson County;
- City of Mt. Juliet;
- City of Lebanon; and

- Wilson County.

In addition, all the local governments of the five-county Nashville MPO have jointly programmed $1.2 million to help operate the commuter rail line for its first three years.

If needed as a contingency measure, the State and Local governments would work with the Nashville RTA to promote commuter rail service and assist in the location of funds to maintain and expand commuter rail service in Middle Tennessee.

5.7 LAND USE PLANNING THAT REDUCES DRIVING

Local governments in the Nashville MSA counties have received training in the past two years through regionally sponsored workshops on creating "walkable communities". New mixed-use projects are beginning to appear which will help reduce the number of vehicle trips made by area citizens. Several cities have adopted changes to design standards and zoning that promote pedestrian activity, and others are currently considering such changes.

Changing travel habits through land use planning is a cumulative effort that typically takes years to show full results. As a contingency measure, the State and Local governments in the Nashville MSA will continue to promote and encourage land use planning that will ultimately reduce vehicles miles traveled.

5.8 CLEAN AIR PARTNERSHIP (AIR QUALITY ACTION DAYS)

Air quality forecasting is an on-going program in Middle Tennessee. Currently when air quality is forecast to be at or worse than the unhealthy for sensitive groups category, as determined by the EPA air quality index, an Air Quality Action Day (AQAD) will be called. The intent is to alert area residents the day prior to a forecast AQAD so that actions can be taken to reduce emissions and protect the health of sensitive populations. This requires air quality to be forecast at least one day in advance. In the case of weekends and holidays, a two or three day forecast will be issued.

Forecasting for the Nashville EAC area is performed by meteorologists with the State of Tennessee Air Pollution Control Division (TNAPCD). A two-day forecast is prepared Monday through Thursday and a three-day forecast is prepared on Friday to cover the weekend. Longer forecasts are made to cover long weekends. The forecast is distributed via email by approximately 2:00 PM CST (or DST). The forecast includes PM2.5 throughout the year, and ozone from March 1 through October 31.

The forecast is subsequently made available through EPA, state, and local websites, local and national news and weather media, and by recorded telephone message. The websites and recorded telephone message give the air quality forecast and define the appropriate sensitive groups, cautionary statement and health effects.

The Clean Air Partnership of Middle Tennessee was one of the initial participants in the voluntary EnviroFlash alert program. The program began on October 23, 2004. An EnviroFlash alert will be issued on days when the air quality is predicted to be in or

worse than the unhealthy for sensitive groups category as determined by the EPA air quality index. For those who have signed up for an EnviroFlash alert, they will be notified through emails or text messages before the end of the work day. Others will be notified through their employers, drive-time radio weather and traffic reports, on freeway variable message boards, by TV news and weather programs, and in morning print news media. The EnviroFlash alerts will include the AQI health-based activity advisories, and will also have messages encouraging people to avoid or postpone activities that generate air pollution until the air quality improves. Examples of actions people will be asked to take include:

- bringing their lunch to work;
- planning a short trip on foot or bicycle rather than by car;
- postponing errands, especially during rush hour;
- postponing use of gas-powered lawn and garden tools;
- carpooling;
- taking the bus; and,
- telecommuting or flexing work schedules to avoid rush hour.

Employers will be reached through Chambers of Commerce in the Nashville MSA counties, as well as other direct contacts. Employers will be encouraged to not only distribute the EnviroFlash alerts to their employees, but also develop programs to encourage their employees to participate in the activities that would minimize air pollution on EnviroFlash alert days. Companies will also be asked to reduce their own contributions to air pollution on EnviroFlash alert days by postponing certain activities where possible. Employers will be encouraged to track and report their participation through awards and recognition. Participating employers on the Clean Air Partnership steering committee include:

- Vanderbilt University;
- HCA Healthcare;
- Tennessee Department of Environment and Conservation;
- Metropolitan Transit Authority;
- Regional Transportation Authority;
- Metro Public Health Department;
- Tennessee Department of Health;
- Tennessee Department of Transportation; and
- Tennessee Valley Authority.

Participation in the EnviroFlash alert program will continue. As a contingency measure, the activities already in place will be enhanced in order to encourage more participation in Middle Tennessee counties.

SECTION 6.0 CONCLUSION.

This document presents an update to the Middle Tennessee 1-Hour Ozone Maintenance Plan. The original Maintenance Plan demonstrated maintenance with the 1-hour ozone NAAQS for the period 1996 - 2006. This update demonstrates continued maintenance during the period 2006 - 2016. 2002 is the base year chosen for the 1-hour ozone maintenance plan update and the emissions inventory for the base year represents an attainment period, as shown by the lack of exceedances of the 1-Hour Ozone NAAQS during the period, as summarized in Tables 2.1 and 2.2. Total VOC and NOx ozone season day emissions are shown in Tables 3.1 and 3.2. Emissions in each of the out years (2006, 2009, 2012 and 2016) are less than the 2002 base year emissions as indicated by the safety margin in each of these years. Therefore, the combination of attainment with the 1-hour ozone standard in 2002 and all out year emissions being less than the 2002 base year, demonstrates that the Middle Tennessee five-county area has been and will remain in attainment with the 1-hour ozone standard for the additional 10-year period of 2006 - 2016.

SECTION 7.0 APPENDICES

The following Appendices are included for support and additional explanation of the emissions inventory procedures

- **Appendix A** - Five-County Point Source Emissions by Facility Name
- **Appendix B** - Five-County Point Source Emissions by Source Classification Code
- **Appendix C** - TVA and Gas Compressor Station Emissions
- **Appendix D** - VISTAS Emissions Preparation Summary
- **Appendix E** - Five-County Area Source Emissions by Source Classification Code
- **Appendix F** - EGAS-5.0 Growth Factors for State of Tennessee from 2002 to 2006, 2009, 2012, and 2016 for Point and Area Source Categories
- **Appendix G** - Energy Adjustment Factors for Area and Point Source Type Combustion Sources
- **Appendix H** - Point Source Control Factors
- **Appendix I** - Options Input File the NONROAD2004 Model for the Middle Tennessee 5-County Area
- **Appendix J** - DVMT, Vehicle Mix and Example Speed Files
- **Appendix K** - Example Input File to MOBILE6.2.03 for Davidson County for 2006
- **Appendix L** - Example Output File from MOBILE6.2.03 for Davidson County for 2006

APPENDIX A

FIVE-COUNTY POINT SOURCE EMISSIONS

BY

FACILITY NAME

Annual 2002 Nashville 5-County Area Point Source Emissions: NOx
- EPA Preliminary NEI 2002 Data

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)		Facility Name
47037	2869	10200602	4703700002	003	3	36.26	-86.65	15.2	1.31	589	2.5	7.07	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	005	5	36.26	-86.65	21.3	1.31	589	3.3	12.88	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	007	7	36.26	-86.65	21.3	1.37	589	3.7	13.85	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200501	4703700002	009	9	36.26	-86.65	61	2.9	451	10.7	0.01	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200202	4703700002	009	9	36.26	-86.65	61	2.9	451	10.7	617.14	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200601	4703700002	009	9	36.26	-86.65	61	2.9	451	10.7	51.85	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200202	4703700002	010	10	36.26	-86.65	61	3.35	439	7	355.06	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200601	4703700002	010	10	36.26	-86.65	61	3.35	439	7	65.84	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200501	4703700002	011	11	36.26	-86.65	61	2.13	440	12.8	0.03	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200202	4703700002	011	11	36.26	-86.65	61	2.13	440	12.8	543.6	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200601	4703700002	011	11	36.26	-86.65	61	2.13	440	12.8	87.75	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30190013	4703700002	030	30	36.26	-86.65	54.9	1.22	294	0	3.5	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30190004	4703700002	030	30	36.26	-86.65	54.9	1.22	294	0	9.58	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200501	4703700002	031	31	36.26	-86.65	53.3	1.73	633	9.1	0.05	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	031	31	36.26	-86.65	53.3	1.73	633	9.1	21.18	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	032	32	36.26	-86.65	53.3	1.73	633	9.1	21.18	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200501	4703700002	032	32	36.26	-86.65	53.3	1.73	633	9.1	0.05	E I	DUPONT DE NEMOURS & CO INC
47037	2869	39000689	4703700002	068	68	36.26	-86.65	8.2	1.16	493	2.3	0.03	E I	DUPONT DE NEMOURS & CO INC
47037	2819	30299999	4703700005	001	1	36.16	-86.84	4.6	0.15	324	21	0.51		RHODIA INC.
47037	2819	30299999	4703700005	002	2	36.16	-86.84	12.2	0.65	350	3.4	0.48		RHODIA INC.
47037	2819	30299999	4703700005	003	3	36.16	-86.84	12.8	0.26	305	15.2	0.29		RHODIA INC.
47037	2819	30299999	4703700005	004	4	36.16	-86.84	13.7	0.3	330	12.2	0.96		RHODIA INC.
47037	2819	30299999	4703700005	005	5	36.16	-86.84	23.8	0.5	313	21.8	0.29		RHODIA INC.
47037	2819	10200602	4703700005	007	7	36.16	-86.84	39.6	3.05	547	0.9	8.29		RHODIA INC.
47037	2819	10200501	4703700005	007	7	36.16	-86.84	39.6	3.05	547	0.9	0.04		RHODIA INC.
47037	2819	30299999	4703700005	008	8	36.16	-86.84	1.5	0.3	308	11.6	0.36		RHODIA INC.
47037	2951	30500201	4703700007	001	1	36.12	-86.92	6.4	1.07	383	16.2	0.41		APAC TENNESSEE INC
47037	2951	30500201	4703700008	001	1	36.18	-86.77	6.4	1.28	394	16.8	1.16		APAC-TENNESSEE INC
47037	2951	30500201	4703700009	001	1	36.08	-86.67	6.7	1.07	383	17.8	7.7		APAC TENNESSEE INC
47037	3295	30501801	4703700022	001	1	36.17	-86.81	7.6	0.61	366	15.8	0.23		CHEMROCK CORP
47037	3295	30501801	4703700022	002	2	36.17	-86.81	7.6	0.61	394	13.4	0.71		CHEMROCK CORP
47037	7011	20100107	4703700025	001	1	36.21	-86.7	12.2	0.56	672	36.7	0.63		OPRYLAND USA INC
47037	7011	10300602	4703700025	002	2	36.2	-86.69	9.4	0.51	478	8.4	1.73		OPRYLAND USA INC
47037	7011	10300603	4703700025	003	3	36.2	-86.69	9.1	0.36	422	6.3	1.35		OPRYLAND USA INC
47037	7011	10300602	4703700025	004	4	36.2	-86.69	21.3	1.4	436	19.3	43.81		OPRYLAND USA INC
47037	7011	10300602	4703700025	004	4	36.2	-86.69	21.3	1.4	436	19.3	6.2		OPRYLAND USA INC
47037	7011	10300602	4703700025	004	4	36.2	-86.69	21.3	1.4	436	19.3	1.85		OPRYLAND USA INC
47037	7011	10300503	4703700025	004	4	36.2	-86.69	21.3	1.4	436	19.3	0.03		OPRYLAND USA INC
47037	7011	20100107	4703700025	007	7	36.2	-86.69	6.1	0.3	478	23.2	0.45		OPRYLAND USA INC
47037	7011	39000689	4703700025	010	10	36.2	-86.69	-9	-9	-9	-9	12.69		OPRYLAND USA INC
47037	3321	30400301	4703700026	001	1	36.16	-86.8	19.8	0.71	351	6.6	0.41		JOHN BOUCHARD & SONS
47037	2048	10200602	4703700029	008	8	36.09	-86.75	9.8	0.51	450	6.9	0.79		PURINA MILLS INC
47037	3272	30590003	4703700033	001	1	36.16	-86.88	9.8	1.19	394	15.2	1.13		QUIKRETE NASHVILLE
47037	8063	10300602	4703700035	001	1	36.16	-86.63	13.1	0.99	499	11.1	0.07		CLOVER BOTTOM HOSPITAL
47037	8221	10300207	4703700038	001	1	36.16	-86.82	53.3	2.13	561	6.3	1.03		TENNESSE STATE UNIVERSITY

Davidson County

FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	8221	10300602	4703700038	002	2	36.16	-86.82	13.7	1.37	450	13.1	8.81	TENNESSE STATE UNIVERSITY
47037	8221	10300602	4703700038	003	3	36.16	-86.82	14	0.61	478	12.1	2.6	TENNESSE STATE UNIVERSITY
47037	4911	20200107	4703700039	101	1	36.14	-86.8	6.7	0.51	866	63.1	1.27	Vanderbilt University - Vanderbilt University
47037	4911	10300601	4703700039	205	2	36.14	-86.8	65.5	3.81	436	5.9	0.55	Vanderbilt University - Vanderbilt University
47037	4911	10300209	4703700039	207	2	36.14	-86.8	65.5	3.81	436	5.9	194.11	Vanderbilt University - Vanderbilt University
47037	4911	10300209	4703700039	208	2	36.14	-86.8	65.5	3.81	436	5.9	163.64	Vanderbilt University - Vanderbilt University
47037	4911	10300209	4703700039	209	2	36.14	-86.8	65.5	3.81	436	5.9	203.2	Vanderbilt University - Vanderbilt University
47037	4911	10300603	4703700039	401	4	36.14	-86.8	6.1	0.23	755	4	10.62	Vanderbilt University - Vanderbilt University
47037	3211	30501403	4703700040	004	4	36.18	-86.87	64	2.29	765	12.4	882.37	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501403	4703700040	006	6	36.18	-86.87	64	2.29	654	11.9	816.77	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	017	17	36.18	-86.87	9.1	0.76	294	3.4	0.46	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	018	18	36.18	-86.87	9.1	0.76	294	3.7	1.34	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	019	19	36.18	-86.87	11.3	0.46	294	2.4	0.74	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	020	20	36.18	-86.87	11.3	0.46	294	3	0.84	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	021	21	36.18	-86.87	9.1	0.46	294	2.4	0.24	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	022	22	36.18	-86.87	9.1	0.51	294	1.5	0.24	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	023	23	36.18	-86.87	12.2	0.51	366	4.8	0.6	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	040	40	36.18	-86.87	11.6	0.46	294	4	1.24	VISTEON CORP - NASHVILLE GLASS
47037	3211	10300602	4703700040	044	44	36.18	-86.87	12.2	0.61	366	9.8	1.85	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	047	47	36.18	-86.87	-9	-9	-9	-9	2.48	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	048	48	36.18	-86.87	-9	-9	-9	-9	2.48	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	049	49	36.18	-86.87	-9	-9	-9	-9	2.48	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	050	50	36.18	-86.87	-9	-9	-9	-9	2.48	VISTEON CORP - NASHVILLE GLASS
47037	3211	10500106	4703700040	801	801	36.18	-86.87	-9	-9	-9	-9	9.47	VISTEON CORP - NASHVILLE GLASS
47037	3728	10200602	4703700042	006	6	36.12	-86.69	12.2	1.07	422	8.5	5.71	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200602	4703700042	007	7	36.12	-86.69	12.2	1.07	422	8.7	7.26	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200602	4703700042	008	8	36.12	-86.69	13.4	0.76	505	9.2	0.28	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200603	4703700042	009	9	36.12	-86.69	14	0.46	433	6.3	0.54	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200603	4703700042	010	10	36.12	-86.69	12.2	0.49	422	4.5	1.77	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202499	4703700042	017	17	36.12	-86.69	10.7	1.12	339	12.2	0.02	AEROSTRUCTURES CORPORATION, THE
47037	3728	10500106	4703700042	058	58	36.12	-86.69	4.6	0.3	505	6.1	5.32	AEROSTRUCTURES CORPORATION, THE
47037	3728	20300107	4703700042	061	61	36.12	-86.69	2.7	0.1	866	72.8	0.09	AEROSTRUCTURES CORPORATION, THE
47037	3728	20300101	4703700042	062	62	36.12	-86.69	3	0.15	866	30.3	0.1	AEROSTRUCTURES CORPORATION, THE
47037	3728	20100107	4703700042	063	63	36.12	-86.69	3.7	0.15	866	110.5	0.04	AEROSTRUCTURES CORPORATION, THE
47037	2426	10200906	4703700045	007	7	36.16	-86.85	36.6	0.89	334	18.3	3.87	BRUCE HARDWOOD FLOOR
47037	2426	40200810	4703700045	009	9	36.16	-86.85	7.6	0.43	422	5.8	0	BRUCE HARDWOOD FLOOR
47037	2426	10200903	4703700045	012	12	36.16	-86.85	36.6	0.98	330	15.2	3.14	BRUCE HARDWOOD FLOOR
47037	2426	40200310	4703700045	016	16	36.16	-86.85	11.6	0.35	450	10.9	0.08	BRUCE HARDWOOD FLOOR
47037	4953	50100799	4703700049	008	8	36.18	-86.78	-9	-9	-9	-9	0.02	METRO CENTRAL WWTP
47037	4961	10300601	4703700050	001	1	36.15	-86.77	36	1.52	589	19.1	0.84	NASHVILLE THERMAL TRANSFER CORP
47037	4961	10300601	4703700050	002	2	36.15	-86.77	36.9	2.74	501	9.2	1.45	NASHVILLE THERMAL TRANSFER CORP
47037	4961	10301201	4703700050	002	2	36.15	-86.77	36.9	2.74	501	9.2	473.36	NASHVILLE THERMAL TRANSFER CORP
47037	4961	10100601	4703700050	007	7	36.15	-86.77	39.6	1.52	436	18.3	0.17	NASHVILLE THERMAL TRANSFER CORP
47037	2711	10300602	4703700058	001	1	36.15	-86.78	19.8	1.22	464	3.5	2.04	THE TENNESSEAN
47037	3449	10300602	4703700059	005	5	36.17	-86.87	7.3	0.48	436	35.4	1.49	TENN DEPT OF TRANSPORTATION
47037	5171	40400153	4703700062	006	6	36.17	-86.87	6.1	0.09	294	17.3	1.13	CUMBERLAND TERMINALS
47037	5171	40400250	4703700065	008	8	36.16	-86.85	4.6	0.15	294	12.4	3.53	MOTIVA ENTERPRISE
47037	5171	40600145	4703700066	010	10	36.16	-86.86	-9	-9	-9	-9	0.73	WILLIAMS ENERGY VENTURES

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	2295	40201001	4703700074	001	1	36.09	-86.75	8.5	1.46	316	3.7	0.2	OUIMET CORP
47037	2295	40201101	4703700074	002	2	36.09	-86.75	0.6	0.4	305	2	0.09	OUIMET CORP
47037	5171	30500206	4703700076	002	2	36.2	-86.81	9.1	0.61	561	1.5	3.24	MARATHON ASHLAND PETROLEUM CO.
47037	3229	30501401	4703700080	002	2	36.13	-86.74	-9	-9	-9	-9	1.91	GAF CORPORATION
47037	3229	30501401	4703700080	005	5	36.13	-86.74	-9	-9	-9	-9	1.92	GAF CORPORATION
47037	3229	30501401	4703700080	008	8	36.13	-86.74	-9	-9	-9	-9	1.91	GAF CORPORATION
47037	3229	30501401	4703700080	011	11	36.13	-86.74	-9	-9	-9	-9	1.91	GAF CORPORATION
47037	3229	30501401	4703700080	014	14	36.13	-86.74	-9	-9	-9	-9	1.75	GAF CORPORATION
47037	3229	30501401	4703700080	017	17	36.13	-86.74	-9	-9	-9	-9	1.91	GAF CORPORATION
47037	3229	30501401	4703700080	020	20	36.13	-86.74	-9	-9	-9	-9	1.91	GAF CORPORATION
47037	2131	10200206	4703700081	001	1	36.16	-86.78	30.5	1.22	422	10.9	21.03	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	010	10	36.16	-86.78	14.6	1.22	344	11.9	0.66	UNITED STATES TOBACCO MFG LP
47037	2131	20200102	4703700081	011	11	36.16	-86.78	4.6	0.15	822	55.6	0.12	UNITED STATES TOBACCO MFG LP
47037	2131	20200401	4703700081	012	12	36.16	-86.78	4.6	0.25	818	95.3	0.12	UNITED STATES TOBACCO MFG LP
47037	2951	30500201	4703700082	001	1	36.29	-86.69	8.8	1.3	453	17.5	0.97	ROGERS GROUP INC
47037	2752	40500597	4703700083	002	2	36.14	-86.7	9.1	0.33	444	17.6	0.31	LITHOGRAPHICS INC
47037	2752	39000689	4703700092	001	1	36.22	-86.77	9.1	1.11	450	3.9	16.61	QUEBECOR WORLD/RETAIL PRINTING
47037	2673	10200603	4703700097	004	4	36.17	-86.79	12.8	0.46	466	2.9	1.68	WERTHAN PACKAGING, INC.
47037	2673	10200603	4703700097	005	5	36.17	-86.79	12.8	0.46	466	2.9	1.68	WERTHAN PACKAGING, INC.
47037	2023	39000689	4703700103	001	1	36.02	-86.59	21.3	1.22	366	15.4	1.41	LEVEL VALLEY CREAMERY
47037	2023	10300602	4703700103	002	2	36.02	-86.59	9.1	0.71	505	13.8	7.3	LEVEL VALLEY CREAMERY
47037	2051	30203201	4703700107	001	1	36.12	-86.78	9.1	0.3	405	8.3	0.93	EARTHGRAINS CO. OF NASHVILLE
47037	2051	30203201	4703700107	002	2	36.12	-86.78	8.8	0.3	444	1.6	0.28	EARTHGRAINS CO. OF NASHVILLE
47037	2038	10300603	4703700109	002	2	36.16	-86.74	13.1	0.51	311	2.5	0.09	EQUITY GROUP-TENNESSEE DIVISION
47037	2038	10300602	4703700109	004	4	36.16	-86.74	-9	-9	-9	-9	0.77	EQUITY GROUP-TENNESSEE DIVISION
47037	2038	10300603	4703700109	005	5	36.16	-86.74	9.8	0.51	603	7.1	1.54	EQUITY GROUP-TENNESSEE DIVISION
47037	3711	40202501	4703700120	031	31	36.27	-86.68	9.8	0.28	355	7.7	0.41	PETERBILT MOTORS COMPANY
47037	3711	40202501	4703700120	131	101	36.27	-86.68	12.5	1.07	294	23.8	0.34	PETERBILT MOTORS COMPANY
47037	3711	40202501	4703700120	731	731	36.27	-86.68	10.4	0.76	339	16.6	1.44	PETERBILT MOTORS COMPANY
47037	2752	40500401	4703700124	001	1	36.18	-86.87	9.1	0.38	408	4.1	0.17	RICH PRINTING CO. INC
47037	2752	40500401	4703700124	002	2	36.18	-86.87	9.1	0.38	408	4.1	0.14	RICH PRINTING CO. INC
47037	2752	40500401	4703700124	002	2	36.18	-86.87	9.1	0.38	408	4.1	0.05	RICH PRINTING CO. INC
47037	3496	40200210	4703700126	001	1	36.18	-86.83	10.7	0.61	339	7.8	0.8	NASHVILLE WIRE PRODUCTS
47037	2434	30790013	4703700127	003	3	36.09	-86.74	5.2	0.25	1061	4	0	UNITED CABINET CORP
47037	3471	10300602	4703700137	001	1	36.15	-86.75	7.9	0.51	422	20.4	2.33	NASHVILLE WIRE PRODUCTS-PLATING DIVISION
47037	3471	39000199	4703700137	002	2	36.15	-86.75	6.7	0.1	344	16.1	0.02	NASHVILLE WIRE PRODUCTS-PLATING DIVISION
47037	3559	40200801	4703700139	002	2	36.01	-86.6	5.5	0.24	505	11.7	1.16	HENNESSY INDUSTRIES INC
47037	3585	10200602	4703700141	008	8	36.02	-86.6	10.7	1.14	533	10.5	0.22	WHIRLPOOL CORP
47037	3585	10200602	4703700141	009	9	36.02	-86.6	10.7	0.51	475	7.7	0.33	WHIRLPOOL CORP
47037	2299	33000198	4703700142	001	1	36.16	-86.75	7.6	1.31	333	3.4	1.14	LEGGETT & PLATT INC-NOVA BOND DIV
47037	2299	33000198	4703700142	002	2	36.16	-86.75	7.6	1.31	333	2.7	1.14	LEGGETT & PLATT INC-NOVA BOND DIV
47037	3085	20200102	4703700143	002	2	36.13	-86.73	4.6	0.25	672	142.3	1.05	ALADDIN IND INC
47037	5051	10200603	4703700146	002	2	36.18	-86.77	13.1	0.41	533	9.8	1.77	CARGIL STEEL & WIRE
47037	8061	10300602	4703700163	001	1	36.25	-86.68	5.2	1	436	11.8	2.2	TENNESSEE CHRISTIAN MEDICAL CENTER
47037	8061	10300501	4703700163	001	1	36.25	-86.68	5.2	1	436	11.8	0	TENNESSEE CHRISTIAN MEDICAL CENTER
47037	1611	30500205	4703700164	001	1	36.12	-86.91	11	1.22	436	18	2.38	LOJAC ENTERPRISE INC
47037	2751	40500199	4703700169	001	2	36.19	-86.78	-9	-9	-9	-9	0.01	AMBROSE PRINTING CO
47037	2891	40202501	4703700186	001	1	36.22	-86.78	7.3	0.3	294	2.1	0.65	SERVITECH INDUSTRIES

Davidson County

FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	2891	40202533	4703700186	003	3	36.22	-86.78	7.3	0.76	294	4.1	0.41	SERVITECH INDUSTRIES
47037	3555	40588804	4703700188	004	4	36.08	-86.75	0.6	0.2	295	4.1	1.05	DIXIE GRAPHICS CO
47037	4953	50100410	4703700189	001	1	36.17	-86.84	8.5	0.3	1144	15.2	1.7	METRO - BORDEAUX LANDFILL
47037	5171	30500206	4703700191	001	1	36.16	-86.73	6.1	0.46	561	8.8	0.01	ERGON INC
47037	5171	10200501	4703700191	001	1	36.16	-86.73	6.1	0.46	561	8.8	0.04	ERGON INC
47037	2297	10200602	4703700196	006	6	36.26	-86.65	38.1	0.91	589	3.7	6.8	REEMAY INC
47037	2751	40500199	4703700197	002	2	36.11	-86.75	6.7	0.17	322	8.1	0.05	MAGNETIC TICKET & LABEL CORP.
47037	8062	10300602	4703700198	001	1	36.17	-86.6	5.5	0.66	478	12.2	2.11	SUMMIT MEDICAL CENTER
47037	8062	10300501	4703700198	001	1	36.17	-86.6	5.5	0.66	478	12.2	0.02	SUMMIT MEDICAL CENTER
47037	8062	10300603	4703700198	002	2	36.17	-86.6	36.9	0.61	478	1.8	0.08	SUMMIT MEDICAL CENTER
47037	2951	30500205	4703700204	001	1	36.09	-86.67	13.7	1.15	343	18.2	3.43	HMA PRODUCTS, L.L.C.
47037	2273	33000399	4703700207	001	1	36.17	-86.87	8.8	0.58	339	12.2	1.31	SPRINGS INDUSTRIES, INC.
47037	2273	10300602	4703700207	004	4	36.17	-86.87	10.7	0.94	507	13.4	7.69	SPRINGS INDUSTRIES, INC.
47037	1611	30500205	4703700208	001	1	36.18	-86.61	9.4	1.16	394	26.1	4.29	LOJAC ENTERPRISES, INC.
47037	5013	10300208	4703700212	001	1	36.14	-86.74	16.8	0.41	422	6.7	0.82	CUSTOM TRUCK SALES
47037	2951	30500240	4703700220	001	1	36.22	-86.8	12.2	0.91	372	19.8	1.97	HMA CONTRACTORS, L.L.C.
47037	2262	40500101	4703700222	001	1	36.28	-86.69	12.8	0.3	366	25.3	0.02	PRESTIGE PRINTING CO
47037	1611	30500205	4703700234	001	1	36.16	-86.87	10.4	1.12	450	14.4	0.21	ROGERS GROUP INC. - REOSTONE ASPHALT
47037	2026	10300602	4703700236	001	1	36.14	-86.74	18.3	0.48	489	12.8	1.81	PURITY DAIRIES INC.
47037	2297	40201001	4703700240	001	1	36.28	-86.69	12.2	1.6	721	11.4	8.57	PRECISION FABRICS GROUP INC
47037	8069	10100501	4703700241	001	1	36.14	-86.8	6.1	0.3	783	22.9	1.94	VANDERBILT UNIVERSITY MEDICAL CENTER
47037	8062	10300602	4703700244	001	1	36.15	-86.8	10.4	0.51	478	11.6	6.03	CENTENNIAL MEDICAL CENTER
47037	4941	20100102	4703700268	001	1	36.12	-86.69	6.1	0.36	770	70.9	1.97	METRO WATER - K.R. HARRINGTON PLANT
Total												4870.44	

Rutherford County

FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47149	3011	30800112	0057	003	S03-4	36	-86.6	13.7	0.41	294	4.6	0.08	BRIDGESTONE/FIRESTONE, INC.
47149	3011	30800112	0057	003	S03-5	36	-86.6	11	0.3	294	16.2	0.08	BRIDGESTONE/FIRESTONE, INC.
47149	3011	10200602	0057	005	S05-1	36	-86.6	10.7	1.07	533	13.1	14.84	BRIDGESTONE/FIRESTONE, INC.
47149	3011	10200602	0057	005	S05-2	36	-86.6	10.7	1.07	533	13.1	14.84	BRIDGESTONE/FIRESTONE, INC.
47149	3011	10200602	0057	005	S05-3	36	-86.6	10.7	1.07	533	13.1	14.84	BRIDGESTONE/FIRESTONE, INC.
47149	3621	10200603	0062	001	101	35.79	-86.37	7.6	0.3	422	8.3	0.13	GENERAL ELECTRIC
47149	3621	40201001	0062	010	1010	35.79	-86.37	10.7	0.3	422	7.8	0.48	GENERAL ELECTRIC
47149	8221	10300207	0064	001	1	35.86	-86.37	17.7	0.76	577	11.3	43.72	MIDDLE TN STATE UNIV
47149	8221	10300501	0064	001	1	35.86	-86.37	17.7	0.76	577	11.3	4.66	MIDDLE TN STATE UNIV
47149	8221	10300602	0064	001	1	35.86	-86.37	17.7	0.76	577	11.3	32.64	MIDDLE TN STATE UNIV
47149	3732	31401518	0148	005	ABH	35.91	-86.47	3	0.15	294	0.5	1.32	MARINE GROUP, LLC
47149	3625	40201001	0153	002	002	35.85	-86.38	-9	-9	-9	-9	6.68	SQUARE D COMPANY
47149	3711	10200602	0155	01	SOB3	35.95	-86.49	39.6	1.22	456	20.7	7.3	NISSAN NORTH AMERICA, INC.
47149	3711	10200204	0155	01	SOB3	35.95	-86.49	39.6	1.22	456	20.7	81.3	NISSAN NORTH AMERICA, INC.
47149	3711	20400401	0155	63	TC14	35.95	-86.49	12.2	1.07	-9	-9	1.5	NISSAN NORTH AMERICA, INC.
47149	3711	39000699	0155	65	NG65	35.95	-86.49	-9	-9	-9	-9	61.5	NISSAN NORTH AMERICA, INC.
47149	3711	31499999	0155	87	TC23	35.95	-86.49	-9	-9	-9	-9	0.2	NISSAN NORTH AMERICA, INC.
47149	2834	39000689	0191	002	02	36	-86.5	15.2	0.56	298	4.8	1.4	CUMBERLAND SWAN
Total												287.51	

Sumner County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47165	2522	40200510	0002	001	02&07	36.38	-86.42	10.7	1.07	294	9.1	0.33	G.F. OFFICE FURNITURE, LTD.
47165	2522	40200510	0002	002	03	36.38	-86.42	10.7	0.46	293	6.1	1.35	G.F. OFFICE FURNITURE, LTD.
47165	3621	40201001	0018	009	7	36.3	-86.61	13.4	0.61	359	3.2	5.4	GENERAL ELECTRIC CO
47165	3621	40200801	0018	009	7	36.3	-86.61	13.4	0.61	359	3.2	0.44	GENERAL ELECTRIC CO
47165	3621	30999999	0018	011	9	36.31	-86.61	19.8	0.3	344	22.6	4.62	GENERAL ELECTRIC CO
47165	3621	39000699	0018	011	9	36.31	-86.61	19.8	0.3	344	22.6	4.36	GENERAL ELECTRIC CO
47165	3621	30999999	0018	016	14	36.31	-86.61	13.1	0.52	372	4.5	1.02	GENERAL ELECTRIC CO
47165	2752	10200602	0125	001	B1	36.38	-86.42	12.2	0.94	478	15.5	4.45	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	10200602	0125	013	B2	36.38	-86.42	12.2	0.94	478	15.5	4.45	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	3313	30400701	0129	001	EP-1	36.37	-86.42	28.7	2.44	339	13.8	67.31	HOEGANAES CORPORATION
47165	3313	30400701	0129	001	EP-1A	36.37	-86.42	28.3	1.52	339	10.3	26.22	HOEGANAES CORPORATION
47165	3313	30400799	0129	002	EP-2	36.37	-86.42	18.3	0.66	348	19.6	5.02	HOEGANAES CORPORATION
47165	3313	30400799	0129	002	EP-2A	36.37	-86.42	28.3	0.81	348	20.8	5.02	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-4	36.37	-86.42	19.2	0.61	383	6.7	4.33	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-43	36.37	-86.42	18.3	1.52	311	2.2	4.33	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-10	36.37	-86.42	20.7	1.01	305	14.7	4.33	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-36	36.37	-86.42	20.7	1.37	294	2.9	4.33	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-18	36.37	-86.42	20.7	0.81	305	18.1	4.33	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-30	36.37	-86.42	20.7	0.81	305	18.1	4.33	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-32	36.37	-86.42	20.7	0.81	305	2.5	4.33	HOEGANAES CORPORATION
47165	4953	10200501	0135	001	001	36.44	-86.45	-9	-9	-9	-9	0.15	RESOURCE AUTHORITY
47165	4953	10301202	0135	001	001	36.44	-86.45	-9	-9	-9	-9	126.89	RESOURCE AUTHORITY
47165	2731	40500199	0164	001	S01-1	36.5	-86.52	10.7	0.49	408	12.5	4.65	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	2731	40500199	0164	001	S01-2	36.5	-86.52	10.7	0.49	408	12.5	4.65	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	2731	49000203	0164	002	S02-2	36.5	-86.52	10.7	0.61	533	10.4	6.24	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	2731	49000203	0164	002	S02-1	36.5	-86.52	10.7	0.61	533	14.6	6.24	HERTIAGE GRAPHICS,LLC, MPG, L.P.
Total												309.12	

Williamson County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47187	3634	50300102	0005	001	1	35.91	-86.87	11	0.46	505	3.4	1.1	LASKO METAL PRODUCTS, INC.
47187	3634	30999999	0005	010	10	35.93	-86.86	7.6	0.21	394	9.2	0.55	LASKO METAL PRODUCTS, INC.
47187	3634	39000699	0005	010	10	35.93	-86.86	7.6	0.21	394	9.2	0.52	LASKO METAL PRODUCTS, INC.
47187	2679	10200602	0006	002	B-1	35.9	-86.87	6.7	0.61	478	5.7	5.49	CPS CORPORATION
47187	2679	10200602	0006	002	B-2	35.9	-86.87	9.1	0.51	499	8	3.68	CPS CORPORATION
47187	2679	30390013	0006	003	I-1	35.9	-86.87	15.2	0.91	478	2.5	2.05	CPS CORPORATION
Total												13.39	

Wilson County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47189	3714	10200603	0003	004	004	36.23	-86.25	9.1	0.61	450	3.2	10.21	TRW, INC.- ROSS GEAR DIV.
47189	3714	10500106	0003	020	020	36.23	-86.25	9.1	0.3	450	3.2	0.03	TRW, INC.- ROSS GEAR DIV.
47189	3479	39000699	0103	001	1	36.19	-86.52	9.1	0.85	574	14.3	4.36	JOHN DEAL COMPANY
47189	3479	40500201	0103	001	1	36.19	-86.52	9.1	0.85	574	14.3	4.61	JOHN DEAL COMPANY
Total												19.21	

Annual 2002 Nashville 5-County Area Point Source Emissions: VOC
- EPA Preliminary NEI 2002 Data

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)		Facility Name
47037	2869	10200602	4703700002	003	3	36.26	-86.65	15.2	1.31	589	2.5	0.13	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	005	5	36.26	-86.65	21.3	1.31	589	3.3	0.25	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	007	7	36.26	-86.65	21.3	1.37	589	3.7	0.27	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200601	4703700002	009	9	36.26	-86.65	61.0	2.90	451	10.7	0.12	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200202	4703700002	009	9	36.26	-86.65	61.0	2.90	451	10.7	2.83	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200202	4703700002	010	10	36.26	-86.65	61.0	3.35	439	7.0	1.93	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200601	4703700002	010	10	36.26	-86.65	61.0	3.35	439	7.0	0.16	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200601	4703700002	011	11	36.26	-86.65	61.0	2.13	440	12.8	0.22	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200202	4703700002	011	11	36.26	-86.65	61.0	2.13	440	12.8	2.37	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103102	4703700002	014	14	36.26	-86.65	26.5	0.46	311	1.6	40.57	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103103	4703700002	015	15	36.26	-86.65	4.6	0.46	323	11.5	7.00	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103102	4703700002	017	17	36.26	-86.65	36.6	0.64	320	65.8	288.98	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103103	4703700002	018	18	36.26	-86.65	21.3	0.08	305	3.5	15.77	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103104	4703700002	019	19	36.26	-86.65	21.3	0.08	438	0.0	0.16	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103104	4703700002	020	20	36.26	-86.65	21.3	0.05	300	7.2	4.84	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103104	4703700002	021	21	36.26	-86.65	21.3	0.05	338	0.1	0.33	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103104	4703700002	024	24	36.26	-86.65	23.8	0.08	316	1.6	0.67	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103104	4703700002	025	25	36.26	-86.65	23.8	0.08	316	1.6	0.67	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103104	4703700002	026	26	36.26	-86.65	21.3	0.08	304	5.8	3.08	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103199	4703700002	029	29	36.26	-86.65	16.2	0.05	306	0.0	0.39	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30190013	4703700002	030	30	36.26	-86.65	54.9	1.22	294	0.0	0.07	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30190004	4703700002	030	30	36.26	-86.65	54.9	1.22	294	0.0	3.14	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	031	31	36.26	-86.65	53.3	1.73	633	9.1	0.42	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200799	4703700002	031	31	36.26	-86.65	53.3	1.73	633	9.1	3.63	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	032	32	36.26	-86.65	53.3	1.73	633	9.1	0.42	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200799	4703700002	032	32	36.26	-86.65	53.3	1.73	633	9.1	3.63	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40700815	4703700002	033	33	36.26	-86.65	-9.0	-9.00	-9	-9.0	3.44	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40700815	4703700002	034	34	36.26	-86.65	-9.0	-9.00	-9	-9.0	3.44	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40700815	4703700002	035	35	36.26	-86.65	-9.0	-9.00	-9	-9.0	0.40	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40700815	4703700002	036	36	36.26	-86.65	-9.0	-9.00	-9	-9.0	1.08	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40700815	4703700002	037	37	36.26	-86.65	-9.0	-9.00	-9	-9.0	2.02	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40704413	4703700002	039	39	36.26	-86.65	-9.0	-9.00	-9	-9.0	9.41	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40703621	4703700002	040	40	36.26	-86.65	-9.0	-9.00	-9	-9.0	2.51	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40703621	4703700002	041	41	36.26	-86.65	-9.0	-9.00	-9	-9.0	2.19	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40703621	4703700002	042	42	36.26	-86.65	-9.0	-9.00	-9	-9.0	2.19	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40703621	4703700002	044	44	36.26	-86.65	-9.0	-9.00	-9	-9.0	2.19	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40703621	4703700002	046	46	36.26	-86.65	-9.0	-9.00	-9	-9.0	2.34	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40703619	4703700002	047	47	36.26	-86.65	-9.0	-9.00	-9	-9.0	2.36	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	048	48	36.26	-86.65	24.4	0.05	294	0.0	1.42	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	049	49	36.26	-86.65	24.4	0.05	294	0.0	1.46	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	050	50	36.26	-86.65	24.4	0.05	294	0.0	1.50	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	052	52	36.26	-86.65	24.4	0.05	294	0.0	0.09	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	054	54	36.26	-86.65	17.4	0.05	294	0.0	1.26	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	055	55	36.26	-86.65	16.8	0.10	301	0.0	0.15	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	056	56	36.26	-86.65	16.2	0.10	301	0.0	0.08	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	059	59	36.26	-86.65	16.2	0.10	301	0.0	0.12	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40705603	4703700002	060	60	36.26	-86.65	-9.0	-9.00	-9	-9.0	15.02	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	062	62	36.26	-86.65	17.1	3.05	304	5.5	76.75	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	063	63	36.26	-86.65	29.0	0.05	313	0.1	1.17	E I	DUPONT DE NEMOURS & CO INC

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)		Facility Name
47037	2869	40799997	4703700002	083	83	36.26	-86.65	3.0	0.05	313	0.4	0.86	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30188801	4703700002	084	84	36.26	-86.65	-9.0	-9.00	-9	-9.0	54.99	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103180	4703700002	085	85	36.26	-86.65	-9.0	-9.00	-9	-9.0	3.83	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30182003	4703700002	086	86	36.26	-86.65	-9.0	-9.00	-9	-9.0	275.97	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103199	4703700002	089	89	36.26	-86.65	15.2	1.31	589	2.5	0.19	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40700815	4703700002	091	91	36.26	-86.65	-9.0	-9.00	-9	-9.0	1.22	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103102	4703700002	096	96	36.26	-86.65	36.6	0.20	533	52.4	32.32	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	104	104	36.26	-86.65	-9.0	-9.00	-9	-9.0	0.07	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103199	4703700002	105	105	36.26	-86.65	-9.0	-9.00	-9	-9.0	0.55	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30188801	4703700002	110	110	36.26	-86.65	19.8	0.10	325	0.0	4.46	E I	DUPONT DE NEMOURS & CO INC
47037	2869	40880001	4703700002	111	111	36.26	-86.65	1.8	0.05	295	0.0	0.18	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	116	116	36.26	-86.65	7.6	0.15	303	1.5	0.40	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30101837	4703700002	117	117	36.26	-86.65	15.8	0.15	303	3.0	0.40	E I	DUPONT DE NEMOURS & CO INC
47037	2819	30299999	4703700005	001	1	36.16	-86.84	4.6	0.15	324	21.0	0.02		RHODIA INC.
47037	2819	30299999	4703700005	002	2	36.16	-86.84	12.2	0.65	350	3.4	0.02		RHODIA INC.
47037	2819	30299999	4703700005	003	3	36.16	-86.84	12.8	0.26	305	15.2	0.01		RHODIA INC.
47037	2819	30299999	4703700005	004	4	36.16	-86.84	13.7	0.30	330	12.2	0.05		RHODIA INC.
47037	2819	30299999	4703700005	005	5	36.16	-86.84	23.8	0.50	313	21.8	0.01		RHODIA INC.
47037	2819	10200602	4703700005	007	7	36.16	-86.84	39.6	3.05	547	0.9	0.45		RHODIA INC.
47037	2951	30500201	4703700007	001	1	36.12	-86.92	6.4	1.07	383	16.2	0.16		APAC TENNESSEE INC
47037	2951	30500201	4703700008	001	1	36.18	-86.77	6.4	1.28	394	16.8	0.46		APAC-TENNESSEE INC
47037	2951	30500201	4703700009	001	1	36.08	-86.67	6.7	1.07	383	17.8	7.86		APAC TENNESSEE INC
47037	3452	30988801	4703700013	001	1	36.09	-86.73	-9.0	-9.00	-9	-9.0	0.04		GREER STOP NUT
47037	3452	30988801	4703700013	001	1	36.09	-86.73	-9.0	-9.00	-9	-9.0	0.26		GREER STOP NUT
47037	3931	40200410	4703700014	001	1	36.15	-86.71	12.2	0.61	294	1.0	6.94		GIBSON GUITAR CUSTOM SHOP
47037	3295	30501801	4703700022	001	1	36.17	-86.81	7.6	0.61	366	15.8	0.01		CHEMROCK CORP
47037	3295	30501801	4703700022	002	2	36.17	-86.81	7.6	0.61	394	13.4	0.04		CHEMROCK CORP
47037	2752	40588801	4703700023	001	1	36.14	-86.76	-9.0	-9.00	-9	-9.0	0.11		TRUCOLOR CO
47037	2752	40588802	4703700023	001	1	36.14	-86.76	-9.0	-9.00	-9	-9.0	2.96		TRUCOLOR CO
47037	2721	40588802	4703700024	001	1	36.11	-86.75	-9.0	-9.00	-9	-9.0	2.78		DOUGLAS PRINTING INC.
47037	2721	40588801	4703700024	001	1	36.11	-86.75	-9.0	-9.00	-9	-9.0	0.38		DOUGLAS PRINTING INC.
47037	7011	20100107	4703700025	001	1	36.21	-86.7	12.2	0.56	672	36.7	0.06		OPRYLAND USA INC
47037	7011	10300602	4703700025	002	2	36.2	-86.69	9.4	0.51	478	8.4	0.06		OPRYLAND USA INC
47037	7011	10300603	4703700025	003	3	36.2	-86.69	9.1	0.36	422	6.3	0.04		OPRYLAND USA INC
47037	7011	10300602	4703700025	004	4	36.2	-86.69	21.3	1.40	436	19.3	9.53		OPRYLAND USA INC
47037	7011	10300602	4703700025	004	4	36.2	-86.69	21.3	1.40	436	19.3	0.18		OPRYLAND USA INC
47037	7011	10300602	4703700025	004	4	36.2	-86.69	21.3	1.40	436	19.3	0.06		OPRYLAND USA INC
47037	7011	40200110	4703700025	006	6	36.2	-86.69	10.4	0.91	294	18.3	1.13		OPRYLAND USA INC
47037	7011	40200901	4703700025	006	6	36.2	-86.69	10.4	0.91	294	18.3	0.12		OPRYLAND USA INC
47037	7011	40200901	4703700025	006	6	36.2	-86.69	10.4	0.91	294	18.3	0.16		OPRYLAND USA INC
47037	7011	20100107	4703700025	007	7	36.2	-86.69	6.1	0.30	478	23.2	0.02		OPRYLAND USA INC
47037	7011	39000689	4703700025	010	10	36.2	-86.69	-9.0	-9.00	-9	-9.0	1.40		OPRYLAND USA INC
47037	3321	30400301	4703700026	001	1	36.16	-86.8	19.8	0.71	351	6.6	0.75		JOHN BOUCHARD & SONS
47037	2048	10200602	4703700029	008	8	36.09	-86.75	9.8	0.51	450	6.9	0.04		PURINA MILLS INC
47037	2869	49000206	4703700032	001	1	36.11	-86.74	-9.0	-9.00	-9	-9.0	0.30		SAFETY KLEEN
47037	2869	40188898	4703700032	002	2	36.11	-86.74	-9.0	-9.00	-9	-9.0	0.00		SAFETY KLEEN
47037	2869	49099998	4703700032	003	3	36.11	-86.74	-9.0	-9.00	-9	-9.0	0.03		SAFETY KLEEN
47037	2869	49099998	4703700032	004	4	36.11	-86.74	-9.0	-9.00	-9	-9.0	0.00		SAFETY KLEEN
47037	2869	49099998	4703700032	005	5	36.11	-86.74	-9.0	-9.00	-9	-9.0	0.00		SAFETY KLEEN
47037	3272	30590003	4703700033	001	1	36.16	-86.88	9.8	1.19	394	15.2	0.04		QUIKRETE NASHVILLE
47037	4212	40202542	4703700034	001	1	36.14	-86.73	-9.0	-9.00	-9	-9.0	2.11		BFI OF TN, INC.
47037	8063	10300602	4703700035	001	1	36.16	-86.63	13.1	0.99	499	11.1	0.01		CLOVER BOTTOM HOSPITAL

Davidson County

FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	7534	30899999	4703700037	002	2	36.09	-86.7	6.7	0.61	294	8.8	5.07	TIRE DISTRIBUTION SYSTEMS, INC.
47037	7534	40200110	4703700037	003	3	36.09	-86.7	-9.0	-9.00	-9	-9.0	0.09	TIRE DISTRIBUTION SYSTEMS, INC.
47037	7534	40200110	4703700037	003	3	36.09	-86.7	-9.0	-9.00	-9	-9.0	0.02	TIRE DISTRIBUTION SYSTEMS, INC.
47037	7534	40200110	4703700037	003	3	36.09	-86.7	-9.0	-9.00	-9	-9.0	0.40	TIRE DISTRIBUTION SYSTEMS, INC.
47037	8221	10300207	4703700038	001	1	36.16	-86.82	53.3	2.13	561	6.3	0.01	TENNESSE STATE UNIVERSITY
47037	8221	10300602	4703700038	002	2	36.16	-86.82	13.7	1.37	450	13.1	0.17	TENNESSE STATE UNIVERSITY
47037	8221	10300602	4703700038	003	3	36.16	-86.82	14.0	0.61	478	12.1	0.05	TENNESSE STATE UNIVERSITY
47037	4911	20200107	4703700039	101	1	36.14	-86.8	6.7	0.51	866	63.1	0.03	Vanderbilt University - Vanderbilt University
47037	4911	10300601	4703700039	205	2	36.14	-86.8	65.5	3.81	436	5.9	0.01	Vanderbilt University - Vanderbilt University
47037	4911	10300209	4703700039	207	2	36.14	-86.8	65.5	3.81	436	5.9	0.77	Vanderbilt University - Vanderbilt University
47037	4911	10300209	4703700039	208	2	36.14	-86.8	65.5	3.81	436	5.9	0.65	Vanderbilt University - Vanderbilt University
47037	4911	10300209	4703700039	209	2	36.14	-86.8	65.5	3.81	436	5.9	0.81	Vanderbilt University - Vanderbilt University
47037	4911	10300603	4703700039	401	4	36.14	-86.8	6.1	0.23	755	4.0	0.58	Vanderbilt University - Vanderbilt University
47037	4911	20200107	4703700039	501	5	36.14	-86.8	6.1	0.30	783	22.9	0.25	Vanderbilt University - Vanderbilt University
47037	3211	30501403	4703700040	004	4	36.18	-86.87	64.0	2.29	765	12.4	8.25	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501403	4703700040	006	6	36.18	-86.87	64.0	2.29	654	11.9	8.35	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	017	17	36.18	-86.87	9.1	0.76	294	3.4	0.02	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	018	18	36.18	-86.87	9.1	0.76	294	3.7	0.07	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	019	19	36.18	-86.87	11.3	0.46	294	2.4	0.03	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	020	20	36.18	-86.87	11.3	0.46	294	3.0	0.04	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	021	21	36.18	-86.87	9.1	0.46	294	2.4	0.01	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	022	22	36.18	-86.87	9.1	0.51	294	1.5	0.01	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	023	23	36.18	-86.87	12.2	0.51	366	4.6	0.03	VISTEON CORP - NASHVILLE GLASS
47037	3211	40200110	4703700040	027	27	36.18	-86.87	12.5	0.30	325	19.2	0.73	VISTEON CORP - NASHVILLE GLASS
47037	3211	40200110	4703700040	028	28	36.18	-86.87	12.5	0.30	325	19.2	0.73	VISTEON CORP - NASHVILLE GLASS
47037	3211	40200810	4703700040	031	31	36.18	-86.87	12.5	0.30	325	19.2	0.23	VISTEON CORP - NASHVILLE GLASS
47037	3211	40200110	4703700040	032	32	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.33	VISTEON CORP - NASHVILLE GLASS
47037	3211	40200110	4703700040	034	34	36.18	-86.87	16.8	1.07	294	11.9	0.08	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	040	40	36.18	-86.87	11.6	0.46	294	4.0	0.06	VISTEON CORP - NASHVILLE GLASS
47037	3211	10300602	4703700040	044	44	36.18	-86.87	12.2	0.61	366	9.8	0.10	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	045	45	36.18	-86.87	9.4	0.25	294	4.6	0.17	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	046	46	36.18	-86.87	9.4	0.25	294	4.6	0.17	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	047	47	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.13	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	048	48	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.13	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	049	49	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.13	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	050	50	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.13	VISTEON CORP - NASHVILLE GLASS
47037	3211	40188801	4703700040	054	54	36.18	-86.87	-9.0	-9.00	-9	-9.0	11.23	VISTEON CORP - NASHVILLE GLASS
47037	3211	40188801	4703700040	062	62	36.18	-86.87	-9.0	-9.00	-9	-9.0	11.23	VISTEON CORP - NASHVILLE GLASS
47037	3211	40188801	4703700040	229	229	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.56	VISTEON CORP - NASHVILLE GLASS
47037	3211	40188801	4703700040	243	243	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.56	VISTEON CORP - NASHVILLE GLASS
47037	3211	40188801	4703700040	275	275	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.05	VISTEON CORP - NASHVILLE GLASS
47037	3211	40188801	4703700040	276	276	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.16	VISTEON CORP - NASHVILLE GLASS
47037	3211	40188801	4703700040	304	304	36.18	-86.87	-9.0	-9.00	-9	-9.0	1.14	VISTEON CORP - NASHVILLE GLASS
47037	3211	10500106	4703700040	801	801	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.54	VISTEON CORP - NASHVILLE GLASS
47037	3728	10200602	4703700042	006	6	36.12	-86.69	12.2	1.07	422	8.5	0.11	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200602	4703700042	007	7	36.12	-86.69	12.2	1.07	422	8.7	0.14	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200602	4703700042	008	8	36.12	-86.69	13.4	0.76	505	9.2	0.01	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200603	4703700042	009	9	36.12	-86.69	14.0	0.46	433	6.3	0.01	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200603	4703700042	010	10	36.12	-86.69	12.2	0.49	422	4.5	0.04	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	014	14	36.12	-86.69	13.1	1.07	294	7.0	0.11	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202406	4703700042	014	14	36.12	-86.69	13.1	1.07	294	7.0	0.04	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	015	15	36.12	-86.69	9.8	1.08	294	10.4	0.21	AEROSTRUCTURES CORPORATION, THE

Davidson County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47037	3728	40202406	4703700042	015	15	36.12	-86.69	9.8	1.08	294	10.4	0.17	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	016	16	36.12	-86.69	20.4	1.22	294	20.1	0.20	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202406	4703700042	016	16	36.12	-86.69	20.4	1.22	294	20.1	0.24	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	017	17	36.12	-86.69	10.7	1.12	339	12.2	0.22	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202406	4703700042	017	17	36.12	-86.69	10.7	1.12	339	12.2	0.13	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202499	4703700042	017	17	36.12	-86.69	10.7	1.12	339	12.2	0.00	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	018	18	36.12	-86.69	9.8	1.08	294	12.8	0.29	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202406	4703700042	018	18	36.12	-86.69	9.8	1.08	294	12.8	0.00	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	019	19	36.12	-86.69	12.2	1.62	294	6.4	0.09	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202406	4703700042	019	19	36.12	-86.69	12.2	1.62	294	6.4	0.39	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	022	22	36.12	-86.69	9.1	0.91	294	4.3	0.05	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202406	4703700042	022	22	36.12	-86.69	9.1	0.91	294	4.3	0.49	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	023	23	36.12	-86.69	12.8	0.99	294	11.3	0.26	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202406	4703700042	023	23	36.12	-86.69	12.8	0.99	294	11.3	0.87	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	024	24	36.12	-86.69	12.5	1.07	294	1.8	0.21	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202402	4703700042	028	28	36.12	-86.69	7.6	1.07	297	19.5	9.34	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202405	4703700042	029	29	36.12	-86.69	-9.0	-9.00	-9	-9.0	1.02	AEROSTRUCTURES CORPORATION, THE
47037	3728	40100205	4703700042	030	30	36.12	-86.69	6.1	0.91	297	1.8	5.78	AEROSTRUCTURES CORPORATION, THE
47037	3728	40100205	4703700042	031	31	36.12	-86.69	6.1	0.91	297	9.1	0.72	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202405	4703700042	033	33	36.12	-86.69	-9.0	-9.00	-9	-9.0	6.05	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202401	4703700042	036	36	36.12	-86.69	5.2	1.01	294	9.8	0.47	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202406	4703700042	036	36	36.12	-86.69	5.2	1.01	294	9.8	0.35	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202405	4703700042	044	44	36.12	-86.69	4.3	0.30	294	6.4	0.10	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202405	4703700042	046	46	36.12	-86.69	-9.0	-9.00	-9	-9.0	2.83	AEROSTRUCTURES CORPORATION, THE
47037	3728	10500106	4703700042	058	58	36.12	-86.69	4.6	0.30	505	6.1	0.14	AEROSTRUCTURES CORPORATION, THE
47037	3728	20300107	4703700042	061	61	36.12	-86.69	2.7	0.10	866	72.8	0.01	AEROSTRUCTURES CORPORATION, THE
47037	3728	20300101	4703700042	062	62	36.12	-86.69	3.0	0.15	866	30.3	0.01	AEROSTRUCTURES CORPORATION, THE
47037	3728	20100107	4703700042	063	63	36.12	-86.69	3.7	0.15	866	110.5	0.00	AEROSTRUCTURES CORPORATION, THE
47037	2426	10200906	4703700045	007	7	36.16	-86.85	36.6	0.89	334	18.3	0.67	BRUCE HARDWOOD FLOOR
47037	2426	40200310	4703700045	008	8	36.16	-86.85	6.1	0.36	294	13.7	1.87	BRUCE HARDWOOD FLOOR
47037	2426	40288802	4703700045	008	8	36.16	-86.85	6.1	0.36	294	13.7	0.12	BRUCE HARDWOOD FLOOR
47037	2426	10200903	4703700045	012	12	36.16	-86.85	36.6	0.98	330	15.2	0.56	BRUCE HARDWOOD FLOOR
47037	2426	40200310	4703700045	016	16	36.16	-86.85	11.6	0.35	450	10.9	1.33	BRUCE HARDWOOD FLOOR
47037	2426	40200310	4703700045	017	17	36.16	-86.85	11.6	0.46	294	21.5	0.10	BRUCE HARDWOOD FLOOR
47037	2426	40200810	4703700045	018	18	36.16	-86.85	11.6	0.46	319	21.5	1.03	BRUCE HARDWOOD FLOOR
47037	2426	40200310	4703700045	019	19	36.16	-86.85	-9.0	-9.00	-9	-9.0	1.28	BRUCE HARDWOOD FLOOR
47037	4953	40202501	4703700046	001	1	36.08	-86.68	8.2	0.36	294	2.3	1.63	WASTE MANAGEMENT CO
47037	4953	50100799	4703700049	008	8	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.01	METRO CENTRAL WWTP
47037	4953	50100772	4703700049	009	9	36.18	-86.78	4.3	0.76	291	3.1	0.01	METRO CENTRAL WWTP
47037	4953	50100702	4703700049	010	10	36.18	-86.78	15.5	0.76	291	8.3	0.07	METRO CENTRAL WWTP
47037	4953	50100702	4703700049	011	11	36.18	-86.78	15.5	0.76	291	8.3	0.07	METRO CENTRAL WWTP
47037	4953	50100799	4703700049	012	12	36.18	-86.78	15.8	0.49	291	4.8	0.01	METRO CENTRAL WWTP
47037	4953	50100769	4703700049	014	14	36.18	-86.78	-9.0	-9.00	-9	-9.0	1.98	METRO CENTRAL WWTP
47037	4953	50100719	4703700049	015	15	36.18	-86.78	13.1	1.07	291	6.9	0.01	METRO CENTRAL WWTP
47037	4953	50100719	4703700049	016	16	36.18	-86.78	13.1	1.07	291	6.9	0.01	METRO CENTRAL WWTP
47037	4953	50100710	4703700049	017	17	36.18	-86.78	10.1	0.47	291	6.7	0.02	METRO CENTRAL WWTP
47037	4953	50100702	4703700049	018	18	36.18	-86.78	16.2	0.91	291	20.3	0.04	METRO CENTRAL WWTP
47037	4953	50100707	4703700049	019	19	36.18	-86.78	14.9	0.91	291	24.7	0.05	METRO CENTRAL WWTP
47037	4961	10300601	4703700050	001	1	36.15	-86.77	36.0	1.52	589	19.1	0.01	NASHVILLE THERMAL TRANSFER CORP
47037	4961	10300601	4703700050	002	2	36.15	-86.77	36.9	2.74	501	9.2	0.01	NASHVILLE THERMAL TRANSFER CORP
47037	4961	10301201	4703700050	002	2	36.15	-86.77	36.9	2.74	501	9.2	13.72	NASHVILLE THERMAL TRANSFER CORP
47037	4961	10100601	4703700050	007	7	36.15	-86.77	39.6	1.52	436	18.3	0.59	NASHVILLE THERMAL TRANSFER CORP

Davidson County

FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	2711	10300602	4703700058	001	1	36.15	-86.76	19.8	1.22	464	3.5	0.40	THE TENNESSEAN
47037	2711	40588602	4703700058	002	2	36.15	-86.76	-9.0	-9.00	-9	-9.0	1.69	THE TENNESSEAN
47037	3449	40288802	4703700059	003	3	36.17	-86.87	-9.0	-9.00	-9	-9.0	0.01	TENN DEPT OF TRANSPORTATION
47037	3449	10300602	4703700059	005	5	36.17	-86.87	7.3	0.48	436	35.4	0.07	TENN DEPT OF TRANSPORTATION
47037	5171	40400109	4703700060	001	1	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.09	LION OIL CO
47037	5171	40400109	4703700060	002	2	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.16	LION OIL CO
47037	5171	40400109	4703700060	003	3	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.13	LION OIL CO
47037	5171	40400140	4703700060	004	4	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.90	LION OIL CO
47037	5171	40400140	4703700060	005	5	36.18	-86.78	-9.0	-9.00	-9	-9.0	1.09	LION OIL CO
47037	5171	40400140	4703700060	006	6	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.04	LION OIL CO
47037	5171	40400160	4703700060	007	7	36.18	-86.78	-9.0	-9.00	-9	-9.0	4.26	LION OIL CO
47037	5171	40600141	4703700060	008	8	36.18	-86.78	4.0	0.15	294	7.5	0.13	LION OIL CO
47037	5171	40400153	4703700060	008	11	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.19	LION OIL CO
47037	5171	40400154	4703700060	008	11	36.18	-86.78	-9.0	-9.00	-9	-9.0	1.03	LION OIL CO
47037	5171	40400140	4703700061	001	1	36.15	-86.76	-9.0	-9.00	-9	-9.0	3.29	CITGO PETROLEUM CORP
47037	5171	40400140	4703700061	002	2	36.15	-86.76	-9.0	-9.00	-9	-9.0	1.69	CITGO PETROLEUM CORP
47037	5171	40400160	4703700061	003	3	36.15	-86.76	-9.0	-9.00	-9	-9.0	2.91	CITGO PETROLEUM CORP
47037	5171	40400109	4703700061	004	4	36.15	-86.76	-9.0	-9.00	-9	-9.0	0.25	CITGO PETROLEUM CORP
47037	5171	40400109	4703700061	005	5	36.15	-86.76	-9.0	-9.00	-9	-9.0	2.13	CITGO PETROLEUM CORP
47037	5171	40400250	4703700061	006	6	36.15	-86.76	4.3	0.15	294	17.1	16.46	CITGO PETROLEUM CORP
47037	5171	40400153	4703700061	006	6	36.15	-86.76	4.3	0.15	294	17.1	0.05	CITGO PETROLEUM CORP
47037	5171	40400154	4703700061	006	6	36.15	-86.76	4.3	0.15	294	17.1	4.01	CITGO PETROLEUM CORP
47037	5171	40400109	4703700061	007	7	36.15	-86.76	-9.0	-9.00	-9	-9.0	0.01	CITGO PETROLEUM CORP
47037	5171	40400109	4703700061	008	8	36.15	-86.76	-9.0	-9.00	-9	-9.0	0.00	CITGO PETROLEUM CORP
47037	5171	40400151	4703700061	009	9	36.15	-86.76	-9.0	-9.00	-9	-9.0	0.23	CITGO PETROLEUM CORP
47037	5171	40400109	4703700062	001	1	36.17	-86.87	-9.0	-9.00	-9	-9.0	0.11	CUMBERLAND TERMINALS
47037	5171	40400160	4703700062	002	2	36.17	-86.87	-9.0	-9.00	-9	-9.0	0.01	CUMBERLAND TERMINALS
47037	5171	40400140	4703700062	003	3	36.17	-86.87	-9.0	-9.00	-9	-9.0	0.05	CUMBERLAND TERMINALS
47037	5171	40400140	4703700062	004	4	36.17	-86.87	-9.0	-9.00	-9	-9.0	7.93	CUMBERLAND TERMINALS
47037	5171	40400160	4703700062	005	5	36.17	-86.87	-9.0	-9.00	-9	-9.0	1.29	CUMBERLAND TERMINALS
47037	5171	40400153	4703700062	006	6	36.17	-86.87	6.1	0.09	294	17.3	3.36	CUMBERLAND TERMINALS
47037	5171	40400151	4703700062	006	9	36.17	-86.87	-9.0	-9.00	-9	-9.0	0.29	CUMBERLAND TERMINALS
47037	5171	40400154	4703700062	006	9	36.17	-86.87	-9.0	-9.00	-9	-9.0	2.24	CUMBERLAND TERMINALS
47037	5171	40400109	4703700064	001	1	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.42	B P OIL COMPANY
47037	5171	40400109	4703700064	002	2	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.07	B P OIL COMPANY
47037	5171	40400109	4703700064	003	3	36.16	-86.84	-9.0	-9.00	-9	-9.0	1.93	B P OIL COMPANY
47037	5171	40400109	4703700064	004	4	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.12	B P OIL COMPANY
47037	5171	40400109	4703700064	005	5	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.06	B P OIL COMPANY
47037	5171	40400109	4703700064	006	6	36.16	-86.84	-9.0	-9.00	-9	-9.0	1.13	B P OIL COMPANY
47037	5171	40400160	4703700064	007	7	36.16	-86.84	-9.0	-9.00	-9	-9.0	2.72	B P OIL COMPANY
47037	5171	40400160	4703700064	008	8	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.62	B P OIL COMPANY
47037	5171	40400160	4703700064	009	9	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.77	B P OIL COMPANY
47037	5171	40600145	4703700064	010	10	36.16	-86.84	4.6	0.15	314	12.4	11.26	B P OIL COMPANY
47037	5171	40400153	4703700064	010	15	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.29	B P OIL COMPANY
47037	5171	40400154	4703700064	010	15	36.16	-86.84	-9.0	-9.00	-9	-9.0	6.45	B P OIL COMPANY
47037	5171	40400109	4703700064	011	11	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.01	B P OIL COMPANY
47037	5171	40400109	4703700064	012	12	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.14	B P OIL COMPANY
47037	5171	40400109	4703700064	014	14	36.16	-86.84	-9.0	-9.00	-9	-9.0	0.00	B P OIL COMPANY
47037	5171	40400205	4703700065	001	1	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.49	MOTIVA ENTERPRISE
47037	5171	40400205	4703700065	002	2	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.06	MOTIVA ENTERPRISE
47037	5171	40400205	4703700065	003	3	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.05	MOTIVA ENTERPRISE
47037	5171	40400205	4703700065	004	4	36.16	-86.85	-9.0	-9.00	-9	-9.0	1.93	MOTIVA ENTERPRISE

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	5171	40400260	4703700065	005	5	36.16	-86.85	-9.0	-9.00	-9	-9.0	1.63	MOTIVA ENTERPRISE
47037	5171	40400260	4703700065	006	6	36.16	-86.85	-9.0	-9.00	-9	-9.0	2.59	MOTIVA ENTERPRISE
47037	5171	40400260	4703700065	007	7	36.16	-86.85	-9.0	-9.00	-9	-9.0	2.61	MOTIVA ENTERPRISE
47037	5171	40400250	4703700065	008	8	36.16	-86.85	4.6	0.15	294	12.4	9.57	MOTIVA ENTERPRISE
47037	5171	40400153	4703700065	008	12	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.41	MOTIVA ENTERPRISE
47037	5171	40400154	4703700065	008	12	36.16	-86.85	-9.0	-9.00	-9	-9.0	5.67	MOTIVA ENTERPRISE
47037	5171	40400251	4703700065	008	12	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.19	MOTIVA ENTERPRISE
47037	5171	40400109	4703700065	010	10	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.08	MOTIVA ENTERPRISE
47037	5171	40400102	4703700065	010	10	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.00	MOTIVA ENTERPRISE
47037	5171	40400109	4703700065	010	10	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.00	MOTIVA ENTERPRISE
47037	5171	40400109	4703700065	011	11	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.29	MOTIVA ENTERPRISE
47037	5171	40400160	4703700066	001	1	36.16	-86.86	-9.0	-9.00	-9	-9.0	3.60	WILLIAMS ENERGY VENTURES
47037	5171	40400160	4703700066	002	2	36.16	-86.86	-9.0	-9.00	-9	-9.0	0.05	WILLIAMS ENERGY VENTURES
47037	5171	40400140	4703700066	003	3	36.16	-86.86	-9.0	-9.00	-9	-9.0	7.88	WILLIAMS ENERGY VENTURES
47037	5171	40400160	4703700066	004	4	36.16	-86.86	-9.0	-9.00	-9	-9.0	1.93	WILLIAMS ENERGY VENTURES
47037	5171	40400160	4703700066	005	5	36.16	-86.86	-9.0	-9.00	-9	-9.0	0.06	WILLIAMS ENERGY VENTURES
47037	5171	40400109	4703700066	006	6	36.16	-86.86	-9.0	-9.00	-9	-9.0	0.02	WILLIAMS ENERGY VENTURES
47037	5171	40400109	4703700066	007	7	36.16	-86.86	-9.0	-9.00	-9	-9.0	0.02	WILLIAMS ENERGY VENTURES
47037	5171	40600145	4703700066	010	10	36.16	-86.86	-9.0	-9.00	-9	-9.0	9.59	WILLIAMS ENERGY VENTURES
47037	5171	40400153	4703700066	010	10	36.16	-86.86	-9.0	-9.00	-9	-9.0	0.20	WILLIAMS ENERGY VENTURES
47037	5171	40400154	4703700066	010	10	36.16	-86.86	-9.0	-9.00	-9	-9.0	2.81	WILLIAMS ENERGY VENTURES
47037	5171	40400109	4703700066	011	11	36.16	-86.86	-9.0	-9.00	-9	-9.0	0.56	WILLIAMS ENERGY VENTURES
47037	5171	40400109	4703700066	012	12	36.16	-86.86	-9.0	-9.00	-9	-9.0	0.17	WILLIAMS ENERGY VENTURES
47037	5171	40400160	4703700067	004	1	36.17	-86.82	-9.0	-9.00	-9	-9.0	0.55	EXXON MOBILE CORPORATION
47037	5171	40400160	4703700067	005	2	36.17	-86.82	-9.0	-9.00	-9	-9.0	0.55	EXXON MOBILE CORPORATION
47037	5171	40400109	4703700067	006	3	36.17	-86.82	-9.0	-9.00	-9	-9.0	0.12	EXXON MOBILE CORPORATION
47037	5171	40400109	4703700067	007	4	36.17	-86.82	-9.0	-9.00	-9	-9.0	0.13	EXXON MOBILE CORPORATION
47037	5171	40400160	4703700067	008	5	36.17	-86.82	-9.0	-9.00	-9	-9.0	1.24	EXXON MOBILE CORPORATION
47037	5171	40400160	4703700067	010	6	36.17	-86.82	-9.0	-9.00	-9	-9.0	1.23	EXXON MOBILE CORPORATION
47037	5171	40400160	4703700067	011	7	36.17	-86.82	-9.0	-9.00	-9	-9.0	0.38	EXXON MOBILE CORPORATION
47037	5171	40400160	4703700067	012	8	36.17	-86.82	-9.0	-9.00	-9	-9.0	2.35	EXXON MOBILE CORPORATION
47037	5171	40400160	4703700067	014	9	36.17	-86.82	-9.0	-9.00	-9	-9.0	0.04	EXXON MOBILE CORPORATION
47037	5171	40600145	4703700067	024	10	36.17	-86.82	3.7	0.15	289	6.8	14.27	EXXON MOBILE CORPORATION
47037	5171	40400153	4703700067	024	10	36.17	-86.82	3.7	0.15	289	6.8	0.06	EXXON MOBILE CORPORATION
47037	5171	40400154	4703700067	024	10	36.17	-86.82	3.7	0.15	289	6.8	7.90	EXXON MOBILE CORPORATION
47037	5171	40400150	4703700067	024	10	36.17	-86.82	3.7	0.15	289	6.8	0.10	EXXON MOBILE CORPORATION
47037	5171	40400150	4703700067	024	10	36.17	-86.82	3.7	0.15	289	6.8	0.00	EXXON MOBILE CORPORATION
47037	5171	40400109	4703700067	025	11	36.17	-86.82	-9.0	-9.00	-9	-9.0	0.03	EXXON MOBILE CORPORATION
47037	5171	40400109	4703700067	027	13	36.17	-86.82	-9.0	-9.00	-9	-9.0	1.19	EXXON MOBILE CORPORATION
47037	5171	40400151	4703700067	028	28	36.17	-86.82	-9.0	-9.00	-9	-9.0	1.99	EXXON MOBILE CORPORATION
47037	5171	40400109	4703700069	001	1	36.18	-86.83	-9.0	-9.00	-9	-9.0	0.09	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400109	4703700069	002	2	36.18	-86.83	-9.0	-9.00	-9	-9.0	0.11	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400109	4703700069	003	3	36.18	-86.83	-9.0	-9.00	-9	-9.0	0.06	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400160	4703700069	004	4	36.18	-86.83	-9.0	-9.00	-9	-9.0	0.05	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400160	4703700069	005	5	36.18	-86.83	-9.0	-9.00	-9	-9.0	0.14	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400160	4703700069	006	6	36.18	-86.83	-9.0	-9.00	-9	-9.0	4.24	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400160	4703700069	007	7	36.18	-86.83	-9.0	-9.00	-9	-9.0	1.21	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400160	4703700069	008	8	36.18	-86.83	-9.0	-9.00	-9	-9.0	7.04	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400160	4703700069	009	9	36.18	-86.83	-9.0	-9.00	-9	-9.0	7.11	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40600145	4703700069	010	10	36.18	-86.83	5.8	0.23	294	2.5	0.29	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400153	4703700069	010	17	36.18	-86.83	-9.0	-9.00	-9	-9.0	0.99	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400154	4703700069	010	10	36.18	-86.83	5.8	0.23	294	2.5	6.12	MARATHON ASHLAND PETROLEUM LLC

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	5171	40400108	4703700069	011	11	36.19	-86.84	-9.0	-9.00	-9	-9.0	0.07	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400108	4703700069	012	12	36.19	-86.84	-9.0	-9.00	-9	-9.0	0.24	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400109	4703700069	013	13	36.19	-86.84	-9.0	-9.00	-9	-9.0	0.14	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400109	4703700069	014	14	36.19	-86.84	-9.0	-9.00	-9	-9.0	0.16	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400140	4703700070	001	1	36.16	-86.85	-9.0	-9.00	-9	-9.0	1.88	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	5171	40400140	4703700070	002	2	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.07	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	5171	40400109	4703700070	003	3	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.11	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	5171	40400140	4703700070	004	4	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.22	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	5171	40400140	4703700070	005	5	36.16	-86.85	-9.0	-9.00	-9	-9.0	1.11	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	5171	40400160	4703700070	006	6	36.16	-86.85	-9.0	-9.00	-9	-9.0	1.73	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	5171	40600145	4703700070	007	7	36.16	-86.85	4.3	0.09	294	21.5	0.85	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	5171	40400151	4703700070	007	7	36.16	-86.85	4.3	0.09	294	21.5	3.44	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	5171	40400154	4703700070	007	7	36.16	-86.85	4.3	0.09	294	21.5	0.20	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	5171	40400109	4703700070	008	8	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.31	WILLIAMS TERMINALS HOLDINGS, L.P.
47037	2851	30101401	4703700072	001	1	36.13	-86.77	-9.0	-9.00	-9	-9.0	10.92	WARREN PAINT & COLOR
47037	2752	40500312	4703700073	001	1	36.1	-86.75	-9.0	-9.00	-9	-9.0	2.45	SOUTHERN COLORTYPE CO
47037	2752	40500599	4703700073	001	1	36.1	-86.75	-9.0	-9.00	-9	-9.0	0.25	SOUTHERN COLORTYPE CO
47037	2752	40588801	4703700073	001	1	36.1	-86.75	-9.0	-9.00	-9	-9.0	0.14	SOUTHERN COLORTYPE CO
47037	2752	40500312	4703700073	003	3	36.1	-86.75	-9.0	-9.00	-9	-9.0	0.22	SOUTHERN COLORTYPE CO
47037	2752	40588801	4703700073	004	4	36.1	-86.75	-9.0	-9.00	-9	-9.0	0.56	SOUTHERN COLORTYPE CO
47037	2295	40201001	4703700074	001	1	36.09	-86.75	8.5	1.46	316	3.7	0.66	OUIMET CORP
47037	2295	40201101	4703700074	002	2	36.09	-86.75	0.6	0.40	305	2.0	0.22	OUIMET CORP
47037	2295	40201101	4703700074	002	2	36.09	-86.75	0.6	0.40	305	2.0	1.73	OUIMET CORP
47037	2295	40299996	4703700074	003	3	36.09	-86.75	6.7	1.43	316	6.1	0.11	OUIMET CORP
47037	2295	40299996	4703700074	004	4	36.09	-86.75	-9.0	-9.00	-9	-9.0	0.03	OUIMET CORP
47037	2295	40201103	4703700074	005	5	36.09	-86.75	5.8	0.61	339	12.8	27.70	OUIMET CORP
47037	5171	40400109	4703700076	001	1	36.2	-86.81	-9.0	-9.00	-9	-9.0	0.01	MARATHON ASHLAND PETROLEUM CO.
47037	5171	40400250	4703700076	001	1	36.2	-86.81	-9.0	-9.00	-9	-9.0	0.01	MARATHON ASHLAND PETROLEUM CO.
47037	5171	30500206	4703700076	002	2	36.2	-86.81	9.1	0.61	561	1.5	0.13	MARATHON ASHLAND PETROLEUM CO.
47037	5171	40400170	4703700079	003	3	36.18	-86.77	-9.0	-9.00	-9	-9.0	2.49	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400170	4703700079	004	4	36.18	-86.77	-9.0	-9.00	-9	-9.0	1.71	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400170	4703700079	006	6	36.18	-86.77	-9.0	-9.00	-9	-9.0	1.48	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400160	4703700079	007	7	36.18	-86.77	-9.0	-9.00	-9	-9.0	6.63	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400109	4703700079	008	8	36.18	-86.77	-9.0	-9.00	-9	-9.0	1.01	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400250	4703700079	009	9	36.18	-86.77	3.7	0.18	294	5.4	2.69	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400153	4703700079	009	9	36.18	-86.77	3.7	0.18	294	5.4	0.13	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400154	4703700079	009	9	36.18	-86.77	3.7	0.18	294	5.4	4.96	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400160	4703700079	010	10	36.18	-86.77	-9.0	-9.00	-9	-9.0	0.03	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400109	4703700079	011	11	36.18	-86.77	-9.0	-9.00	-9	-9.0	0.12	MARATHON ASHLAND PETROLEUM LLC
47037	5171	40400109	4703700079	012	12	36.18	-86.77	-9.0	-9.00	-9	-9.0	0.05	MARATHON ASHLAND PETROLEUM LLC
47037	3229	30501401	4703700080	002	2	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.11	GAF CORPORATION
47037	3229	30501401	4703700080	005	5	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.11	GAF CORPORATION
47037	3229	30501401	4703700080	008	8	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.11	GAF CORPORATION
47037	3229	30501401	4703700080	011	11	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.11	GAF CORPORATION
47037	3229	30501401	4703700080	014	14	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.10	GAF CORPORATION
47037	3229	30501401	4703700080	017	17	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.11	GAF CORPORATION
47037	3229	30501401	4703700080	020	20	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.11	GAF CORPORATION
47037	2131	10200206	4703700081	001	1	36.16	-86.78	30.5	1.22	422	10.9	2.87	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	001	1	36.16	-86.78	30.5	1.22	422	10.9	1.22	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	004	4	36.16	-86.78	-9.0	-9.00	-9	-9.0	3.04	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	004	4	36.16	-86.78	-9.0	-9.00	-9	-9.0	7.17	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	004	4	36.16	-86.78	-9.0	-9.00	-9	-9.0	1.76	UNITED STATES TOBACCO MFG LP

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	2131	40588801	4703700081	004	4	36.16	-86.78	-9.0	-9.00	-9	-9.0	1.32	UNITED STATES TOBACCO MFG LP
47037	2131	40588801	4703700081	004	4	36.16	-86.78	-9.0	-9.00	-9	-9.0	2.15	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	006	6	36.16	-86.78	22.9	0.61	311	3.4	0.06	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	007	7	36.16	-86.78	-9.0	-9.00	-9	-9.0	0.20	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	008	8	36.16	-86.78	-9.0	-9.00	-9	-9.0	0.06	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	010	10	36.16	-86.78	14.6	1.22	344	11.9	0.03	UNITED STATES TOBACCO MFG LP
47037	2131	20200102	4703700081	011	11	36.16	-86.78	4.6	0.15	822	55.6	0.00	UNITED STATES TOBACCO MFG LP
47037	2131	20200401	4703700081	012	12	36.16	-86.78	4.6	0.25	818	95.3	0.00	UNITED STATES TOBACCO MFG LP
47037	2951	30500201	4703700082	001	1	36.29	-86.69	8.8	1.30	453	17.5	0.39	ROGERS GROUP INC
47037	2752	40588802	4703700083	001	1	36.14	-86.7	-9.0	-9.00	-9	-9.0	15.21	LITHOGRAPHICS INC
47037	2752	40588801	4703700083	001	1	36.14	-86.7	-9.0	-9.00	-9	-9.0	2.69	LITHOGRAPHICS INC
47037	2752	40588803	4703700083	001	1	36.14	-86.7	-9.0	-9.00	-9	-9.0	0.16	LITHOGRAPHICS INC
47037	2752	40500433	4703700083	001	1	36.14	-86.7	-9.0	-9.00	-9	-9.0	0.32	LITHOGRAPHICS INC
47037	2752	40500597	4703700083	002	2	36.14	-86.7	9.1	0.33	444	17.6	0.01	LITHOGRAPHICS INC
47037	2752	40500199	4703700083	002	2	36.14	-86.7	9.1	0.33	444	17.6	0.10	LITHOGRAPHICS INC
47037	2752	40588801	4703700083	002	2	36.14	-86.7	9.1	0.33	444	17.6	0.13	LITHOGRAPHICS INC
47037	2752	40500418	4703700083	002	2	36.14	-86.7	9.1	0.33	444	17.6	0.01	LITHOGRAPHICS INC
47037	2752	40588801	4703700086	001	1	36.09	-86.69	-9.0	-9.00	-9	-9.0	1.86	NICHOLSTONE/FALCON PRESS
47037	7534	30800101	4703700089	002	2	36.15	-86.74	-9.0	-9.00	-9	-9.0	0.63	GOODYEAR TIRE AND RUBBER COMPANY
47037	4581	40100398	4703700090	001	1	36.12	-86.68	-9.0	-9.00	-9	-9.0	0.22	CELSIUS AEROTECH
47037	4581	40299995	4703700090	002	2	36.12	-86.68	15.8	0.91	291	18.0	0.09	CELSIUS AEROTECH
47037	4581	40202401	4703700090	002	2	36.12	-86.68	15.8	0.91	291	18.0	0.64	CELSIUS AEROTECH
47037	4581	40202406	4703700090	002	2	36.12	-86.68	15.8	0.91	291	18.0	1.37	CELSIUS AEROTECH
47037	4581	40288801	4703700090	002	2	36.12	-86.68	15.8	0.91	291	18.0	0.11	CELSIUS AEROTECH
47037	4581	40288802	4703700090	002	2	36.12	-86.68	15.8	0.91	291	18.0	0.92	CELSIUS AEROTECH
47037	5093	31401101	4703700091	001	1	36.16	-86.76	18.3	1.22	321	17.1	0.09	PHILIP METALS, INC.
47037	2752	39000689	4703700092	001	1	36.22	-86.77	9.1	1.11	450	3.9	0.10	QUEBECOR WORLD/RETAIL PRINTING
47037	2752	40588801	4703700092	001	2	36.22	-86.77	-9.0	-9.00	-9	-9.0	30.43	QUEBECOR WORLD/RETAIL PRINTING
47037	2752	40588802	4703700092	001	2	36.22	-86.77	-9.0	-9.00	-9	-9.0	2.63	QUEBECOR WORLD/RETAIL PRINTING
47037	2752	40588803	4703700092	001	2	36.22	-86.77	-9.0	-9.00	-9	-9.0	5.37	QUEBECOR WORLD/RETAIL PRINTING
47037	2752	40588801	4703700092	002	3	36.22	-86.77	-9.0	-9.00	-9	-9.0	0.05	QUEBECOR WORLD/RETAIL PRINTING
47037	2673	10200603	4703700097	004	4	36.17	-86.79	12.8	0.46	466	2.9	0.07	WERTHAN PACKAGING, INC.
47037	2673	10200603	4703700097	005	5	36.17	-86.79	12.8	0.46	466	2.9	0.07	WERTHAN PACKAGING, INC.
47037	2673	40500101	4703700097	007	7	36.17	-86.79	8.2	0.57	310	11.1	18.00	WERTHAN PACKAGING, INC.
47037	2673	40500101	4703700097	007	7	36.17	-86.79	8.2	0.57	310	11.1	7.71	WERTHAN PACKAGING, INC.
47037	2673	40500312	4703700097	008	8	36.17	-86.79	8.2	0.57	422	13.5	0.37	WERTHAN PACKAGING, INC.
47037	2673	40500305	4703700097	008	8	36.17	-86.79	8.2	0.57	422	13.5	0.23	WERTHAN PACKAGING, INC.
47037	2673	40500199	4703700097	009	9	36.17	-86.79	8.2	0.34	422	9.4	0.12	WERTHAN PACKAGING, INC.
47037	2673	40588802	4703700097	009	9	36.17	-86.79	8.2	0.34	422	9.4	0.05	WERTHAN PACKAGING, INC.
47037	2673	40500312	4703700097	011	11	36.17	-86.79	10.7	0.46	396	13.5	1.94	WERTHAN PACKAGING, INC.
47037	2673	40500305	4703700097	011	11	36.17	-86.79	10.7	0.46	396	13.5	0.71	WERTHAN PACKAGING, INC.
47037	2673	40500305	4703700097	011	11	36.17	-86.79	10.7	0.46	396	13.5	1.53	WERTHAN PACKAGING, INC.
47037	2673	40500312	4703700097	013	13	36.17	-86.79	-9.0	-9.00	-9	-9.0	6.43	WERTHAN PACKAGING, INC.
47037	2023	39000689	4703700103	001	1	36.02	-86.59	21.3	1.22	366	15.4	0.07	LEVEL VALLEY CREAMERY
47037	2023	10300602	4703700103	002	2	36.02	-86.59	9.1	0.71	505	13.8	0.40	LEVEL VALLEY CREAMERY
47037	2851	30101401	4703700104	001	1	36.09	-86.75	-9.0	-9.00	-9	-9.0	5.72	NATIONAL PAINT & COATINGS CO., INC.
47037	2851	30101401	4703700105	002	2	36.17	-86.62	-9.0	-9.00	-9	-9.0	4.74	SERVICE PAINT & COATINGS INC
47037	2051	30203201	4703700107	001	1	36.12	-86.78	9.1	0.30	405	8.3	29.70	EARTHGRAINS CO. OF NASHVILLE
47037	2051	30203201	4703700107	002	2	36.12	-86.78	8.8	0.30	444	1.6	11.01	EARTHGRAINS CO. OF NASHVILLE
47037	2038	10300603	4703700109	002	2	36.16	-86.74	13.1	0.51	311	2.5	0.01	EQUITY GROUP-TENNESSEE DIVISION
47037	2038	10300602	4703700109	004	4	36.16	-86.74	-9.0	-9.00	-9	-9.0	0.04	EQUITY GROUP-TENNESSEE DIVISION
47037	2038	10300603	4703700109	005	5	36.16	-86.74	9.8	0.51	603	7.1	0.08	EQUITY GROUP-TENNESSEE DIVISION

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	2721	40588801	4703700110	001	1	36.27	-86.79	-9.0	-9.00	-9	-9.0	0.43	CRT CUSTOM PRODUCTS
47037	2721	40588802	4703700110	001	1	36.27	-86.79	-9.0	-9.00	-9	-9.0	1.52	CRT CUSTOM PRODUCTS
47037	2891	40799998	4703700114	001	1	36.16	-86.85	-9.0	-9.00	-9	-9.0	4.37	IMPERIAL ADHESIVES
47037	2891	40799998	4703700114	002	2	36.16	-86.85	-9.0	-9.00	-9	-9.0	4.27	IMPERIAL ADHESIVES
47037	5169	40799998	4703700115	001	1	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.14	ASHLAND CHEMICAL CO
47037	5169	40899995	4703700115	002	2	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.05	ASHLAND CHEMICAL CO
47037	5169	40899999	4703700115	003	3	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.01	ASHLAND CHEMICAL CO
47037	5169	40714698	4703700115	006	6	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.04	ASHLAND CHEMICAL CO
47037	2721	40588801	4703700116	001	1	36.17	-86.77	-9.0	-9.00	-9	-9.0	0.92	VAUGHAN PRINTING
47037	2721	40588802	4703700116	001	1	36.17	-86.77	-9.0	-9.00	-9	-9.0	5.26	VAUGHAN PRINTING
47037	2721	40588802	4703700116	001	1	36.17	-86.77	-9.0	-9.00	-9	-9.0	0.13	VAUGHAN PRINTING
47037	2721	40588802	4703700116	001	1	36.17	-86.77	-9.0	-9.00	-9	-9.0	0.16	VAUGHAN PRINTING
47037	2721	40588802	4703700116	001	1	36.17	-86.77	-9.0	-9.00	-9	-9.0	0.72	VAUGHAN PRINTING
47037	3535	40202501	4703700118	001	1	36.09	-86.74	11.6	1.22	294	0.5	3.54	SOUTHERN MACHINERY CO
47037	3535	40288802	4703700118	001	1	36.09	-86.74	11.6	1.22	294	0.5	0.18	SOUTHERN MACHINERY CO
47037	2752	40588802	4703700119	001	1	36.13	-86.73	-9.0	-9.00	-9	-9.0	5.84	MCQUIDDY PRINTING CO
47037	2752	40588801	4703700119	001	1	36.13	-86.73	-9.0	-9.00	-9	-9.0	2.14	MCQUIDDY PRINTING CO
47037	2752	40500199	4703700119	002	2	36.13	-86.73	7.6	0.41	533	10.8	0.60	MCQUIDDY PRINTING CO
47037	2752	40588801	4703700119	003	3	36.13	-86.73	-9.0	-9.00	-9	-9.0	2.70	MCQUIDDY PRINTING CO
47037	2752	40588802	4703700119	003	3	36.13	-86.73	-9.0	-9.00	-9	-9.0	4.86	MCQUIDDY PRINTING CO
47037	3711	40202521	4703700120	011	11	36.27	-86.68	9.4	0.86	294	27.0	45.62	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	011	11	36.27	-86.68	9.4	0.86	294	27.0	0.45	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	011	11	36.27	-86.68	9.4	0.86	294	27.0	0.59	PETERBILT MOTORS COMPANY
47037	3711	40202501	4703700120	031	31	36.27	-86.68	9.8	0.28	355	7.7	2.44	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	101	101	36.27	-86.68	12.5	1.07	294	23.8	0.81	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	101	101	36.27	-86.68	12.5	1.07	294	23.8	60.33	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	101	101	36.27	-86.68	12.5	1.07	294	23.8	1.38	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	101	101	36.27	-86.68	12.5	1.07	294	23.8	6.43	PETERBILT MOTORS COMPANY
47037	3711	40202501	4703700120	131	101	36.27	-86.68	12.5	1.07	294	23.8	3.26	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	611	611	36.27	-86.68	12.8	1.07	294	37.2	0.01	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	611	611	36.27	-86.68	12.8	1.07	294	37.2	6.40	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	611	611	36.27	-86.68	12.8	1.07	294	37.2	0.86	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	611	611	36.27	-86.68	12.8	1.07	294	37.2	0.37	PETERBILT MOTORS COMPANY
47037	3711	40202521	4703700120	711	711	36.27	-86.68	11.0	1.07	294	11.9	0.45	PETERBILT MOTORS COMPANY
47037	3711	40202501	4703700120	731	731	36.27	-86.68	10.4	0.76	339	16.6	0.06	PETERBILT MOTORS COMPANY
47037	3711	40202501	4703700120	812	812	36.27	-86.68	9.4	0.46	294	7.1	0.00	PETERBILT MOTORS COMPANY
47037	3711	40100252	4703700120	901	901	36.27	-86.68	-9.0	-9.00	-9	-9.0	1.79	PETERBILT MOTORS COMPANY
47037	3711	40188801	4703700120	902	902	36.27	-86.68	-9.0	-9.00	-9	-9.0	3.79	PETERBILT MOTORS COMPANY
47037	3711	40299998	4703700120	903	903	36.27	-86.68	-9.0	-9.00	-9	-9.0	0.33	PETERBILT MOTORS COMPANY
47037	3711	40299998	4703700120	904	904	36.27	-86.68	11.3	0.46	294	6.9	0.01	PETERBILT MOTORS COMPANY
47037	2751	40588801	4703700123	001	1	36.14	-86.72	-9.0	-9.00	-9	-9.0	0.38	VISION GRAPHICS
47037	2751	40588802	4703700123	001	1	36.14	-86.72	-9.0	-9.00	-9	-9.0	0.01	VISION GRAPHICS
47037	2752	40500401	4703700124	001	1	36.18	-86.87	9.1	0.38	408	4.1	3.27	RICH PRINTING CO. INC
47037	2752	40500401	4703700124	002	2	36.18	-86.87	9.1	0.38	408	4.1	2.26	RICH PRINTING CO. INC
47037	2752	40500401	4703700124	002	2	36.18	-86.87	9.1	0.38	408	4.1	0.61	RICH PRINTING CO. INC
47037	2752	40588801	4703700124	003	3	36.18	-86.87	-9.0	-9.00	-9	-9.0	1.00	RICH PRINTING CO. INC
47037	2752	40588802	4703700124	003	3	36.18	-86.87	-9.0	-9.00	-9	-9.0	2.92	RICH PRINTING CO. INC
47037	2752	40588803	4703700124	003	3	36.18	-86.87	-9.0	-9.00	-9	-9.0	1.31	RICH PRINTING CO. INC
47037	3496	40200210	4703700126	001	1	36.18	-86.83	10.7	0.61	339	7.8	0.04	NASHVILLE WIRE PRODUCTS
47037	3496	40200210	4703700126	002	2	36.18	-86.83	-9.0	-9.00	-9	-9.0	28.44	NASHVILLE WIRE PRODUCTS
47037	2434	40201901	4703700127	001	1	36.09	-86.74	6.1	0.76	300	5.2	7.10	UNITED CABINET CORP
47037	2434	40201901	4703700127	001	1	36.09	-86.74	6.1	0.76	300	5.2	12.11	UNITED CABINET CORP

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	2434	40201901	4703700127	001	1	36.09	-86.74	6.1	0.76	300	5.2	14.39	UNITED CABINET CORP
47037	2434	40201901	4703700127	001	1	36.09	-86.74	6.1	0.76	300	5.2	1.99	UNITED CABINET CORP
47037	2434	40201901	4703700127	001	1	36.09	-86.74	6.1	0.76	300	5.2	2.27	UNITED CABINET CORP
47037	2434	40201901	4703700127	001	1	36.09	-86.74	6.1	0.76	300	5.2	3.84	UNITED CABINET CORP
47037	2434	40201901	4703700127	001	1	36.09	-86.74	6.1	0.76	300	5.2	5.15	UNITED CABINET CORP
47037	2851	30101401	4703700128	001	1	36.13	-86.77	-9.0	-9.00	-9	-9.0	6.69	MARCUS PAINTS
47037	3446	40202545	4703700129	001	1	36.15	-86.75	8.5	0.61	294	2.2	10.30	IKG INDUSTRIES
47037	3993	40500201	4703700130	002	2	36.15	-86.72	-9.0	-9.00	-9	-9.0	0.52	SANDERS MFG CO
47037	3993	40588802	4703700130	002	2	36.15	-86.72	-9.0	-9.00	-9	-9.0	5.28	SANDERS MFG CO
47037	3143	32099999	4703700132	002	2	36.11	-86.69	5.5	0.46	295	2.7	0.85	JOHNSTON & MURPHY SHOE COMPANY
47037	3143	32099999	4703700132	003	3	36.11	-86.69	5.2	0.20	295	0.3	0.06	JOHNSTON & MURPHY SHOE COMPANY
47037	3143	32099999	4703700132	005	5	36.11	-86.69	5.5	0.24	295	15.2	1.79	JOHNSTON & MURPHY SHOE COMPANY
47037	3143	32099999	4703700132	006	1	36.11	-86.69	5.2	0.37	295	6.4	2.51	JOHNSTON & MURPHY SHOE COMPANY
47037	3143	32099999	4703700132	010	10	36.11	-86.69	5.2	0.46	295	2.5	0.42	JOHNSTON & MURPHY SHOE COMPANY
47037	3143	32099999	4703700132	012	12	36.11	-86.69	6.1	0.46	295	2.0	0.03	JOHNSTON & MURPHY SHOE COMPANY
47037	3143	32099999	4703700132	013	13	36.11	-86.69	-9.0	-9.00	-9	-9.0	12.19	JOHNSTON & MURPHY SHOE COMPANY
47037	3732	30800722	4703700133	001	1	36.32	-86.71	-9.0	-9.00	-9	-9.0	7.15	GIBSON FIBERGLASS
47037	3732	30800730	4703700133	001	1	36.32	-86.71	-9.0	-9.00	-9	-9.0	18.83	GIBSON FIBERGLASS
47037	3732	30800704	4703700133	001	1	36.32	-86.71	-9.0	-9.00	-9	-9.0	0.48	GIBSON FIBERGLASS
47037	3732	30800704	4703700133	001	1	36.32	-86.71	-9.0	-9.00	-9	-9.0	0.41	GIBSON FIBERGLASS
47037	3732	30800703	4703700133	001	1	36.32	-86.71	-9.0	-9.00	-9	-9.0	0.19	GIBSON FIBERGLASS
47037	3713	40202537	4703700134	001	1	36.14	-86.73	3.4	0.76	294	0.8	6.38	ROGERS MFG CO
47037	3713	40299998	4703700134	001	1	36.14	-86.73	3.4	0.76	294	0.8	3.26	ROGERS MFG CO
47037	2752	40500412	4703700135	001	1	36.14	-86.73	-9.0	-9.00	-9	-9.0	0.60	H & E PRINTING CO
47037	2752	40588802	4703700135	001	1	36.14	-86.73	-9.0	-9.00	-9	-9.0	1.96	H & E PRINTING CO
47037	2752	40588801	4703700135	001	1	36.14	-86.73	-9.0	-9.00	-9	-9.0	0.61	H & E PRINTING CO
47037	3471	10300602	4703700137	001	1	36.15	-86.75	7.9	0.51	422	20.4	0.04	NASHVILLE WIRE PRODUCTS-PLATING DIVISION
47037	3471	39000199	4703700137	002	2	36.15	-86.75	6.7	0.10	344	16.1	0.00	NASHVILLE WIRE PRODUCTS-PLATING DIVISION
47037	3559	40200110	4703700139	001	1	36.01	-86.6	8.2	1.07	294	6.6	2.88	HENNESSY INDUSTRIES INC
47037	3559	40200801	4703700139	002	2	36.01	-86.6	5.5	0.24	505	11.7	0.06	HENNESSY INDUSTRIES INC
47037	3585	10200602	4703700141	008	8	36.02	-86.6	10.7	1.14	533	10.5	0.01	WHIRLPOOL CORP
47037	3585	10200602	4703700141	009	9	36.02	-86.6	10.7	0.51	475	7.7	0.01	WHIRLPOOL CORP
47037	3585	40188801	4703700141	010	10	36.02	-86.6	-9.0	-9.00	-9	-9.0	0.31	WHIRLPOOL CORP
47037	3585	40188801	4703700141	012	12	36.02	-86.6	-9.0	-9.00	-9	-9.0	1.02	WHIRLPOOL CORP
47037	3585	40201499	4703700141	014	14	36.02	-86.6	9.1	0.61	294	14.6	0.00	WHIRLPOOL CORP
47037	3585	40201499	4703700141	015	15	36.02	-86.6	-9.0	-9.00	-9	-9.0	52.48	WHIRLPOOL CORP
47037	2299	33000198	4703700142	001	1	36.16	-86.75	7.6	1.31	333	3.4	0.40	LEGGETT & PLATT INC-NOVA BOND DIV
47037	2299	33000198	4703700142	002	2	36.16	-86.75	7.6	1.31	333	2.7	0.40	LEGGETT & PLATT INC-NOVA BOND DIV
47037	3085	40202201	4703700143	001	1	36.13	-86.73	-9.0	-9.00	-9	-9.0	2.02	ALADDIN IND INC
47037	3085	40202299	4703700143	001	1	36.13	-86.73	-9.0	-9.00	-9	-9.0	1.44	ALADDIN IND INC
47037	3085	40202205	4703700143	001	1	36.13	-86.73	-9.0	-9.00	-9	-9.0	0.20	ALADDIN IND INC
47037	3085	20200102	4703700143	002	2	36.13	-86.73	4.6	0.25	672	142.3	0.26	ALADDIN IND INC
47037	3999	40202501	4703700144	001	1	36.02	-86.6	6.1	2.93	294	14.3	1.29	WOLFE INDUSTRIAL INC
47037	3999	40202502	4703700144	001	1	36.02	-86.6	6.1	2.93	294	14.3	0.69	WOLFE INDUSTRIAL INC
47037	5051	10200603	4703700146	002	2	36.16	-86.77	13.1	0.41	533	9.8	0.09	CARGIL STEEL & WIRE
47037	2434	40201901	4703700149	001	1	36.14	-86.76	6.1	0.61	294	1.6	4.18	CLIFF'S CABINET SHOP
47037	2434	40200998	4703700149	001	1	36.14	-86.76	6.1	0.61	294	1.6	1.73	CLIFF'S CABINET SHOP
47037	2434	40200701	4703700149	001	1	36.14	-86.76	6.1	0.61	294	1.6	0.10	CLIFF'S CABINET SHOP
47037	2893	30102099	4703700150	001	1	36.1	-86.75	6.4	0.65	294	5.6	0.43	SUN CHEMICAL CORP
47037	2434	40201901	4703700153	001	1	36.07	-86.63	6.1	0.61	294	13.3	2.37	CUSTOM CRAFT CABINET
47037	2434	40299998	4703700153	001	1	36.07	-86.63	6.1	0.61	294	13.3	0.96	CUSTOM CRAFT CABINET
47037	2434	40201901	4703700153	002	2	36.07	-86.63	6.1	0.91	294	9.0	6.46	CUSTOM CRAFT CABINET

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FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	2434	40299998	4703700153	002	2	36.07	-86.63	6.1	0.91	294	9.0	0.06	CUSTOM CRAFT CABINET
47037	2434	40288801	4703700153	005	5	36.07	-86.63	3.7	0.61	294	1.6	1.00	CUSTOM CRAFT CABINET
47037	3088	30800730	4703700154	001	1	36.2	-86.75	9.1	0.76	296	8.7	27.68	AQUA BATH CO INC
47037	3931	40200110	4703700156	001	1	36.15	-86.7	12.2	0.61	295	2.6	9.97	GIBSON GUITAR CO
47037	3931	40200110	4703700156	002	2	36.15	-86.7	12.2	0.61	295	2.6	5.56	GIBSON GUITAR CO
47037	3931	40200410	4703700156	003	3	36.15	-86.7	12.2	0.61	295	2.6	4.96	GIBSON GUITAR CO
47037	3931	40200410	4703700156	004	4	36.15	-86.7	12.2	0.61	295	2.6	0.88	GIBSON GUITAR CO
47037	3931	40200410	4703700156	005	5	36.15	-86.7	12.2	0.61	295	2.6	0.55	GIBSON GUITAR CO
47037	3931	40200110	4703700156	006	6	36.15	-86.7	12.2	0.61	295	2.6	33.36	GIBSON GUITAR CO
47037	3931	40200101	4703700156	007	7	36.15	-86.7	12.2	0.61	295	2.6	11.44	GIBSON GUITAR CO
47037	3931	40200101	4703700156	008	8	36.15	-86.7	12.2	0.61	295	2.6	0.82	GIBSON GUITAR CO
47037	3931	40200101	4703700156	009	9	36.15	-86.7	12.2	0.61	295	2.6	0.13	GIBSON GUITAR CO
47037	2541	40201901	4703700157	001	1	36.08	-86.68	5.2	0.61	294	12.4	1.43	CREATIVE DISPLAY
47037	2434	40288802	4703700159	001	1	36.13	-86.76	6.1	0.61	300	11.3	2.53	H & H ASSOCIATES INC.
47037	2434	40288802	4703700159	002	2	36.13	-86.76	-9.0	-9.00	-9	-9.0	4.76	H & H ASSOCIATES INC.
47037	2721	40588802	4703700160	001	1	36.16	-86.74	-9.0	-9.00	-9	-9.0	7.02	MARSHALL & BRUCE CO
47037	2721	40588801	4703700160	001	1	36.16	-86.74	-9.0	-9.00	-9	-9.0	0.39	MARSHALL & BRUCE CO
47037	2721	40588803	4703700160	001	1	36.16	-86.74	-9.0	-9.00	-9	-9.0	0.27	MARSHALL & BRUCE CO
47037	2851	30101403	4703700161	001	1	36.26	-86.71	-9.0	-9.00	-9	-9.0	0.04	BESWAY CHEMICAL SYSTEMS, INC.
47037	2851	30101403	4703700161	002	2	36.26	-86.71	-9.0	-9.00	-9	-9.0	0.05	BESWAY CHEMICAL SYSTEMS, INC.
47037	8061	10300602	4703700163	001	1	36.25	-86.68	5.2	1.00	436	11.8	0.04	TENNESSEE CHRISTIAN MEDICAL CENTER
47037	1611	30500205	4703700164	001	1	36.12	-86.91	11.0	1.22	436	18.0	1.61	LOJAC ENTERPRISE INC
47037	2721	40588801	4703700165	001	1	36.18	-86.77	-9.0	-9.00	-9	-9.0	0.41	CLASSIC PRINTING
47037	2721	40588801	4703700165	001	1	36.18	-86.77	-9.0	-9.00	-9	-9.0	1.49	CLASSIC PRINTING
47037	2721	40588801	4703700165	001	1	36.18	-86.77	-9.0	-9.00	-9	-9.0	0.69	CLASSIC PRINTING
47037	2721	40588802	4703700165	001	1	36.18	-86.77	-9.0	-9.00	-9	-9.0	4.54	CLASSIC PRINTING
47037	2721	40588801	4703700165	001	1	36.18	-86.77	-9.0	-9.00	-9	-9.0	0.39	CLASSIC PRINTING
47037	2721	40588803	4703700165	001	1	36.18	-86.77	-9.0	-9.00	-9	-9.0	0.19	CLASSIC PRINTING
47037	2721	40588801	4703700167	001	1	36.22	-86.78	-9.0	-9.00	-9	-9.0	1.07	BRANDAU PRINTING, INC.
47037	2721	40588802	4703700167	001	1	36.22	-86.78	-9.0	-9.00	-9	-9.0	2.44	BRANDAU PRINTING, INC.
47037	2751	40588803	4703700168	007	7	36.11	-86.75	6.7	0.15	294	15.2	1.02	MAGNETIC TICKET & LABEL CORP.
47037	2751	40500199	4703700169	001	2	36.19	-86.78	-9.0	-9.00	-9	-9.0	0.26	AMBROSE PRINTING CO
47037	2751	40588801	4703700169	002	2	36.19	-86.78	-9.0	-9.00	-9	-9.0	0.01	AMBROSE PRINTING CO
47037	2751	40588802	4703700169	002	2	36.19	-86.78	-9.0	-9.00	-9	-9.0	1.31	AMBROSE PRINTING CO
47037	2751	40588801	4703700169	003	3	36.19	-86.78	-9.0	-9.00	-9	-9.0	0.03	AMBROSE PRINTING CO
47037	2751	40588802	4703700169	003	3	36.19	-86.78	-9.0	-9.00	-9	-9.0	3.78	AMBROSE PRINTING CO
47037	3713	40200101	4703700172	001	1	36.14	-86.73	7.3	0.61	294	1.6	2.49	FLEET PAINTING
47037	2752	40588801	4703700174	001	1	36.14	-86.72	-9.0	-9.00	-9	-9.0	2.31	PATTERSON PRESS
47037	2752	40500199	4703700174	002	2	36.14	-86.71	4.6	0.30	339	0.2	1.36	PATTERSON PRESS
47037	2752	40588801	4703700174	003	3	36.14	-86.71	-9.0	-9.00	-9	-9.0	5.72	PATTERSON PRESS
47037	2677	40500312	4703700175	001	1	36.22	-86.78	-9.0	-9.00	-9	-9.0	4.91	AMERICAN MAIL-WELL ENVELOPE
47037	2677	40588801	4703700175	002	2	36.22	-86.78	-9.0	-9.00	-9	-9.0	0.21	AMERICAN MAIL-WELL ENVELOPE
47037	2677	40588802	4703700175	002	2	36.22	-86.78	-9.0	-9.00	-9	-9.0	0.01	AMERICAN MAIL-WELL ENVELOPE
47037	3714	40188801	4703700176	001	1	36.27	-86.66	7.9	0.81	295	15.2	4.16	BROWNS MANUFACTURING CO
47037	2711	40588802	4703700177	001	1	36.19	-86.81	-9.0	-9.00	-9	-9.0	1.12	GANNETT OFFSET
47037	2599	40201901	4703700179	001	1	36.06	-86.63	10.4	0.86	299	10.5	4.02	COMMERCIAL LAMINATION CO
47037	2599	40299998	4703700179	001	1	36.06	-86.63	10.4	0.86	299	10.5	1.58	COMMERCIAL LAMINATION CO
47037	2599	40288801	4703700179	002	2	36.06	-86.63	10.4	0.86	299	10.5	3.04	COMMERCIAL LAMINATION CO
47037	2599	40299998	4703700179	002	2	36.06	-86.63	10.4	0.86	299	10.5	0.53	COMMERCIAL LAMINATION CO
47037	2599	40288801	4703700179	003	3	36.06	-86.63	10.4	0.61	299	11.6	1.32	COMMERCIAL LAMINATION CO
47037	2599	40299998	4703700179	003	3	36.06	-86.63	10.4	0.61	299	11.6	0.15	COMMERCIAL LAMINATION CO
47037	2599	40299998	4703700179	004	4	36.06	-86.63	-9.0	-9.00	-9	-9.0	1.84	COMMERCIAL LAMINATION CO

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	7216	40100104	4703700184	001	1	36.26	-86.65	-9.0	-9.00	-9	-9.0	0.67	OLD HICKORY CLEANERS
47037	2891	40202501	4703700186	001	1	36.22	-86.78	7.3	0.30	294	2.1	0.87	SERVITECH INDUSTRIES
47037	2891	40202501	4703700186	002	2	36.22	-86.78	7.3	0.76	294	4.1	0.08	SERVITECH INDUSTRIES
47037	2891	40202533	4703700186	003	3	36.22	-86.78	7.3	0.76	294	4.1	0.32	SERVITECH INDUSTRIES
47037	2891	40288802	4703700186	004	4	36.22	-86.78	-9.0	-9.00	-9	-9.0	0.67	SERVITECH INDUSTRIES
47037	3993	40588801	4703700187	001	1	36.11	-86.74	-9.0	-9.00	-9	-9.0	0.90	THE IMAGERY GROUP, INC.
47037	3555	40588804	4703700188	001	1	36.08	-86.75	-9.0	-9.00	-9	-9.0	3.97	DIXIE GRAPHICS CO
47037	3555	40588804	4703700188	002	2	36.08	-86.75	-9.0	-9.00	-9	-9.0	0.11	DIXIE GRAPHICS CO
47037	3555	40588804	4703700188	003	3	36.08	-86.75	-9.0	-9.00	-9	-9.0	0.10	DIXIE GRAPHICS CO
47037	3555	40588804	4703700188	004	4	36.08	-86.75	0.6	0.20	295	4.1	2.24	DIXIE GRAPHICS CO
47037	3555	40200101	4703700188	005	5	36.08	-86.75	1.5	0.46	299	10.1	0.37	DIXIE GRAPHICS CO
47037	4953	50100410	4703700189	001	1	36.17	-86.84	8.5	0.30	1144	15.2	0.39	METRO - BORDEAUX LANDFILL
47037	4953	50100402	4703700189	002	2	36.17	-86.84	-9.0	-9.00	-9	-9.0	1.61	METRO - BORDEAUX LANDFILL
47037	5171	30500206	4703700191	001	1	36.16	-86.73	6.1	0.46	561	8.8	0.00	ERGON INC
47037	5171	10200501	4703700191	001	1	36.16	-86.73	6.1	0.46	561	8.8	0.00	ERGON INC
47037	5171	40400103	4703700191	002	2	36.16	-86.73	-9.0	-9.00	-9	-9.0	0.17	ERGON INC
47037	7216	40100104	4703700192	001	1	36.32	-86.71	-9.0	-9.00	-9	-9.0	3.37	ATOMIC CLEANERS
47037	7216	40100104	4703700193	001	1	36.15	-86.85	-9.0	-9.00	-9	-9.0	2.20	BRYANT CLEANERS
47037	2297	10200602	4703700196	006	6	36.26	-86.65	36.1	0.91	589	3.7	0.37	REEMAY INC
47037	2297	40500312	4703700196	008	8	36.26	-86.65	11.6	0.46	366	20.4	0.51	REEMAY INC
47037	2751	40500199	4703700197	002	2	36.11	-86.75	6.7	0.17	322	8.1	0.44	MAGNETIC TICKET & LABEL CORP.
47037	2751	40500199	4703700197	002	2	36.11	-86.75	6.7	0.17	322	8.1	0.01	MAGNETIC TICKET & LABEL CORP.
47037	2751	40500101	4703700197	002	2	36.11	-86.75	6.7	0.17	322	8.1	0.08	MAGNETIC TICKET & LABEL CORP.
47037	2751	40500101	4703700197	002	2	36.11	-86.75	6.7	0.17	322	8.1	0.25	MAGNETIC TICKET & LABEL CORP.
47037	2751	40588802	4703700197	011	11	36.11	-86.75	-9.0	-9.00	-9	-9.0	0.43	MAGNETIC TICKET & LABEL CORP.
47037	2751	40500212	4703700197	011	11	36.11	-86.75	-9.0	-9.00	-9	-9.0	0.01	MAGNETIC TICKET & LABEL CORP.
47037	2751	40188801	4703700197	015	15	36.11	-86.75	-9.0	-9.00	-9	-9.0	0.04	MAGNETIC TICKET & LABEL CORP.
47037	2751	40188801	4703700197	015	15	36.11	-86.75	-9.0	-9.00	-9	-9.0	0.17	MAGNETIC TICKET & LABEL CORP.
47037	2751	40288801	4703700197	016	16	36.11	-86.75	-9.0	-9.00	-9	-9.0	0.01	MAGNETIC TICKET & LABEL CORP.
47037	2751	40288801	4703700197	016	16	36.11	-86.75	-9.0	-9.00	-9	-9.0	0.31	MAGNETIC TICKET & LABEL CORP.
47037	8062	10300602	4703700198	001	1	36.17	-86.6	5.5	0.66	478	12.2	0.33	SUMMIT MEDICAL CENTER
47037	8062	10300501	4703700198	001	1	36.17	-86.6	5.5	0.66	478	12.2	0.00	SUMMIT MEDICAL CENTER
47037	8062	10300603	4703700198	002	2	36.17	-86.6	36.9	0.61	478	1.8	0.01	SUMMIT MEDICAL CENTER
47037	4953	49099999	4703700199	001	1	36.07	-86.68	20.7	0.59	294	15.5	0.00	SAFETY-KLEEN INC.
47037	4953	40188801	4703700199	003	3	36.07	-86.68	-9.0	-9.00	-9	-9.0	0.01	SAFETY-KLEEN INC.
47037	4512	40301016	4703700200	001	1	36.13	-86.67	-9.0	-9.00	-9	-9.0	0.03	AMERICAN AIRLINES
47037	4512	40301016	4703700200	002	2	36.13	-86.67	-9.0	-9.00	-9	-9.0	0.02	AMERICAN AIRLINES
47037	4512	40301016	4703700200	003	3	36.13	-86.67	-9.0	-9.00	-9	-9.0	0.01	AMERICAN AIRLINES
47037	4512	40301016	4703700200	004	4	36.13	-86.67	-9.0	-9.00	-9	-9.0	0.01	AMERICAN AIRLINES
47037	4512	40200110	4703700200	005	5	36.13	-86.67	12.2	1.22	294	5.1	0.01	AMERICAN AIRLINES
47037	2752	40588801	4703700202	001	1	36.14	-86.78	-9.0	-9.00	-9	-9.0	1.26	BUFORD LEWIS CO
47037	2752	40588802	4703700202	001	1	36.14	-86.78	-9.0	-9.00	-9	-9.0	5.53	BUFORD LEWIS CO
47037	2752	40588802	4703700202	002	2	36.14	-86.78	-9.0	-9.00	-9	-9.0	2.84	BUFORD LEWIS CO
47037	2541	40201901	4703700203	001	1	36.16	-86.75	9.1	0.86	294	8.1	5.54	DAVIS CABINET COMPANY
47037	2541	40288824	4703700203	002	2	36.16	-86.75	-9.0	-9.00	-9	-9.0	0.90	DAVIS CABINET COMPANY
47037	2951	30500205	4703700204	001	1	36.09	-86.67	13.7	1.15	343	18.2	5.83	HMA PRODUCTS, L.L.C.
47037	3089	40202201	4703700206	001	1	36.11	-86.75	6.7	0.91	294	10.7	0.06	NASHVILLE PLASTIC PRODUCTS
47037	2273	33000399	4703700207	001	1	36.17	-86.87	8.6	0.58	339	12.2	1.31	SPRINGS INDUSTRIES, INC.
47037	2273	33000399	4703700207	003	3	36.17	-86.87	7.6	0.61	353	13.7	0.03	SPRINGS INDUSTRIES, INC.
47037	2273	10300602	4703700207	004	4	36.17	-86.87	10.7	0.94	507	13.4	0.42	SPRINGS INDUSTRIES, INC.
47037	1611	30500205	4703700208	001	1	36.18	-86.61	9.4	1.16	394	26.1	7.30	LOJAC ENTERPRISES, INC.
47037	3713	40202501	4703700209	001	1	36.27	-86.79	9.4	1.22	297	5.5	1.02	TRAILER CONDITIONERS INC

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	3713	40202501	4703700209	002	2	36.27	-86.79	-9.0	-9.00	-9	-9.0	3.28	TRAILER CONDITIONERS INC
47037	5169	40899995	4703700211	001	1	36.15	-86.81	-9.0	-9.00	-9	-9.0	0.66	ASHLAND CHEMICAL CO
47037	5169	40899999	4703700211	002	2	36.15	-86.81	-9.0	-9.00	-9	-9.0	0.10	ASHLAND CHEMICAL CO
47037	5169	40799998	4703700211	004	4	36.15	-86.81	-9.0	-9.00	-9	-9.0	0.60	ASHLAND CHEMICAL CO
47037	5169	40799998	4703700211	005	5	36.15	-86.81	-9.0	-9.00	-9	-9.0	1.60	ASHLAND CHEMICAL CO
47037	5013	10300208	4703700212	001	1	36.14	-86.74	16.8	0.41	422	6.7	0.00	CUSTOM TRUCK SALES
47037	3081	30800704	4703700213	002	2	36.13	-86.71	3.0	0.46	294	10.7	1.93	TREW IND WHEELS INC
47037	3081	30800702	4703700213	003	3	36.13	-86.71	-9.0	-9.00	-9	-9.0	0.49	TREW IND WHEELS INC
47037	3081	40200110	4703700213	004	4	36.13	-86.71	3.0	0.46	300	4.6	0.46	TREW IND WHEELS INC
47037	3713	40200101	4703700217	001	1	36.15	-86.7	8.5	1.07	333	13.2	2.29	FONTAINE TRUCK EQUIPMENT CO
47037	3931	40200410	4703700218	001	1	36.14	-86.7	12.2	0.61	294	1.0	0.18	GIBSON GUITAR CUSTOMER SERVICE DIVISION
47037	3069	30800704	4703700219	003	3	36.16	-86.8	1.5	0.15	294	45.0	0.97	TENNESSEE WHEEL & RUBBER
47037	3069	30800702	4703700219	004	4	36.16	-86.8	-9.0	-9.00	-9	-9.0	0.16	TENNESSEE WHEEL & RUBBER
47037	3069	40200110	4703700219	006	6	36.16	-86.8	1.5	0.15	294	45.0	0.34	TENNESSEE WHEEL & RUBBER
47037	2951	30500240	4703700220	001	1	36.22	-86.8	12.2	0.91	372	19.8	1.34	HMA CONTRACTORS, L.L.C.
47037	2262	40500312	4703700222	001	1	36.28	-86.69	12.8	0.30	366	25.3	0.37	PRESTIGE PRINTING CO
47037	2262	40500101	4703700222	001	1	36.28	-86.69	12.8	0.30	366	25.3	0.00	PRESTIGE PRINTING CO
47037	2751	40500312	4703700223	001	1	36.12	-86.77	-9.0	-9.00	-9	-9.0	0.23	CELLUX CONVERTERS IND
47037	2721	40588802	4703700232	001	1	36.15	-86.71	-9.0	-9.00	-9	-9.0	1.84	LELLYET & ROGERS CO
47037	2721	40588801	4703700232	001	1	36.15	-86.71	-9.0	-9.00	-9	-9.0	0.01	LELLYET & ROGERS CO
47037	1611	30500205	4703700234	001	1	36.16	-86.87	10.4	1.12	450	14.4	0.08	ROGERS GROUP INC. - REOSTONE ASPHALT
47037	2026	10300602	4703700236	001	1	36.14	-86.74	18.3	0.48	489	12.8	0.10	PURITY DAIRIES INC.
47037	2431	40200110	4703700237	001	1	36.16	-86.75	6.1	0.76	294	13.5	4.51	CUMBERLAND ARCHITECTURAL MILLWORK
47037	2297	40201001	4703700240	001	1	36.28	-86.69	12.2	1.60	721	11.4	6.91	PRECISION FABRICS GROUP INC
47037	2297	40204340	4703700240	002	2	36.28	-86.69	11.0	0.30	325	1.9	0.22	PRECISION FABRICS GROUP INC
47037	2297	40204330	4703700240	003	3	36.28	-86.69	-9.0	-9.00	-9	-9.0	0.13	PRECISION FABRICS GROUP INC
47037	2297	40204351	4703700240	004	4	36.28	-86.69	-9.0	-9.00	-9	-9.0	0.01	PRECISION FABRICS GROUP INC
47037	8069	10100501	4703700241	001	1	36.14	-86.8	6.1	0.30	783	22.9	0.40	VANDERBILT UNIVERSITY MEDICAL CENTER
47037	5169	40899995	4703700242	001	1	36.17	-86.85	-9.0	-9.00	-9	-9.0	1.33	CONE SOLVENTS INC.
47037	5169	40899995	4703700242	002	2	36.17	-86.85	-9.0	-9.00	-9	-9.0	1.34	CONE SOLVENTS INC.
47037	5169	40799997	4703700242	003	3	36.17	-86.85	-9.0	-9.00	-9	-9.0	0.83	CONE SOLVENTS INC.
47037	5169	40799998	4703700242	004	4	36.17	-86.85	-9.0	-9.00	-9	-9.0	4.78	CONE SOLVENTS INC.
47037	8062	10300602	4703700244	001	1	36.15	-86.8	10.4	0.51	478	11.6	0.97	CENTENNIAL MEDICAL CENTER
47037	2893	40188801	4703700247	001	1	36.09	-86.68	-9.0	-9.00	-9	-9.0	2.60	KOHL & MADDEN PRINTING INK CORP. #1
47037	3444	40202501	4703700248	001	1	36.33	-86.71	8.5	0.61	294	17.1	0.64	G. F. PUHL COMPANY
47037	2893	30101520	4703700249	001	1	36.09	-86.69	6.1	1.37	478	0.3	4.34	KOHL & MADDEN PRINTING INK CORP. #2
47037	2893	30102015	4703700249	004	4	36.09	-86.69	7.6	0.15	311	3.2	1.55	KOHL & MADDEN PRINTING INK CORP. #2
47037	2752	40500415	4703700250	001	1	36.14	-86.77	-9.0	-9.00	-9	-9.0	1.70	VANDERBILT UNIVERSITY PRINTING SERVICES
47037	2434	40188801	4703700251	001	1	36.28	-86.69	-9.0	-9.00	-9	-9.0	0.22	R.J. WHERRY AND ASSOCIATES
47037	2434	40188801	4703700251	001	1	36.28	-86.69	-9.0	-9.00	-9	-9.0	0.10	R.J. WHERRY AND ASSOCIATES
47037	2434	40188801	4703700251	001	1	36.28	-86.69	-9.0	-9.00	-9	-9.0	0.08	R.J. WHERRY AND ASSOCIATES
47037	2434	40188801	4703700251	001	1	36.28	-86.69	-9.0	-9.00	-9	-9.0	0.45	R.J. WHERRY AND ASSOCIATES
47037	2434	40188801	4703700251	001	1	36.28	-86.69	-9.0	-9.00	-9	-9.0	0.07	R.J. WHERRY AND ASSOCIATES
47037	2434	40188801	4703700251	001	1	36.28	-86.69	-9.0	-9.00	-9	-9.0	1.65	R.J. WHERRY AND ASSOCIATES
47037	2434	40188801	4703700251	001	1	36.28	-86.69	-9.0	-9.00	-9	-9.0	2.06	R.J. WHERRY AND ASSOCIATES
47037	3069	40188801	4703700254	001	1	36.13	-86.76	7.6	0.49	300	3.4	25.56	TENNESSEE MAT CO. INC.
47037	3069	40188801	4703700254	002	2	36.13	-86.76	-9.0	-9.00	-9	-9.0	6.24	TENNESSEE MAT CO. INC.
47037	3069	40202532	4703700254	003	3	36.13	-86.76	-9.0	-9.00	-9	-9.0	0.56	TENNESSEE MAT CO. INC.
47037	3069	40200701	4703700254	004	4	36.13	-86.76	-9.0	-9.00	-9	-9.0	0.70	TENNESSEE MAT CO. INC.
47037	2752	40500802	4703700257	001	1	36.14	-86.72	-9.0	-9.00	-9	-9.0	0.15	LITHOGRAPHICS SLD, INC.
47037	2752	40500802	4703700257	001	1	36.14	-86.72	-9.0	-9.00	-9	-9.0	0.01	LITHOGRAPHICS SLD, INC.
47037	2752	40500415	4703700257	001	1	36.14	-86.72	-9.0	-9.00	-9	-9.0	0.65	LITHOGRAPHICS SLD, INC.

Davidson County

FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	2752	40500802	4703700257	001	1	36.14	-86.72	-9.0	-9.00	-9	-9.0	2.78	LITHOGRAPHICS SLD, INC.
47037	3931	40299995	4703700258	001	1	36.14	-86.74	7.9	0.61	294	13.7	0.91	FENDER MUSICAL INSTRUMENTS
47037	3931	40200101	4703700259	001	1	36.21	-86.69	12.2	0.61	295	2.6	0.30	GIBSON ORIGINAL ACOUSTIC INSTRUMENTS
47037	3931	40200401	4703700259	002	2	36.21	-86.69	12.2	0.61	295	2.6	1.72	GIBSON ORIGINAL ACOUSTIC INSTRUMENTS
47037	3931	40288801	4703700259	003	3	36.21	-86.69	-9.0	-9.00	-9	-9.0	1.61	GIBSON ORIGINAL ACOUSTIC INSTRUMENTS
47037	2752	40500415	4703700263	001	1	36.09	-86.68	-9.0	-9.00	-9	-9.0	0.39	FRANKLIN GRAPHICS, INC.
47037	2752	40500417	4703700263	001	1	36.09	-86.68	-9.0	-9.00	-9	-9.0	2.13	FRANKLIN GRAPHICS, INC.
47037	2752	40500597	4703700263	001	1	36.09	-86.68	-9.0	-9.00	-9	-9.0	0.01	FRANKLIN GRAPHICS, INC.
47037	4581	40688801	4703700264	001	1	36.11	-86.67	-9.0	-9.00	-9	-9.0	3.18	MERCURY AIR CENTER
47037	2759	40500597	4703700265	001	1	36.16	-86.85	-9.0	-9.00	-9	-9.0	1.83	AFL WIRE PRODUCTS
47037	2759	40500598	4703700265	001	1	36.16	-86.85	-9.0	-9.00	-9	-9.0	0.19	AFL WIRE PRODUCTS
47037	3357	30801002	4703700267	001	1	36.16	-86.86	-9.0	-9.00	-9	-9.0	3.64	AFL WIRE PRODUCTS-MORROW ROAD
47037	3357	40500212	4703700267	002	2	36.16	-86.86	-9.0	-9.00	-9	-9.0	0.14	AFL WIRE PRODUCTS-MORROW ROAD
47037	3357	40500598	4703700267	002	2	36.16	-86.86	-9.0	-9.00	-9	-9.0	0.06	AFL WIRE PRODUCTS-MORROW ROAD
47037	4941	20100102	4703700268	001	1	36.12	-86.69	6.1	0.36	770	70.9	0.07	METRO WATER - K.R. HARRINGTON PLANT
47037	4941	40400316	4703700268	002	2	36.12	-86.69	-9.0	-9.00	-9	-9.0	0.00	METRO WATER - K.R. HARRINGTON PLANT
47037	5162	30101866	4703700269	001	1	36.23	-86.78	-9.0	-9.00	-9	-9.0	0.41	NORTH AMERICAN COMPOSITES
47037	5162	30101811	4703700269	002	2	36.23	-86.78	-9.0	-9.00	-9	-9.0	0.57	NORTH AMERICAN COMPOSITES
47037	3433	40200101	4703700270	001	1	36.15	-86.69	7.3	1.07	294	7.9	6.47	LOCHINVAR CORP.
47037	4581	40202406	4703700271	001	1	36.12	-86.69	7.6	0.86	294	13.6	0.16	CELCIUS AEROTECH
47037	4581	40202406	4703700271	001	1	36.12	-86.69	7.6	0.86	294	13.6	0.01	CELCIUS AEROTECH
47037	4581	40202401	4703700271	001	1	36.12	-86.69	7.6	0.86	294	13.6	0.12	CELCIUS AEROTECH
Total												2240.51	

Rutherford County

FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47149	3011	30800112	0057	002	S02-2	36	-86.6	33.5	0.91	297	15.6	3.52	BRIDGESTONE/FIRESTONE, INC.
47149	3011	30800112	0057	003	S03-3	36	-86.6	10.4	0.41	294	10.4	0.08	BRIDGESTONE/FIRESTONE, INC.
47149	3011	30800112	0057	003	S03-5	36	-86.6	11.0	0.30	294	16.2	12.61	BRIDGESTONE/FIRESTONE, INC.
47149	3011	10200602	0057	005	S05-1	36	-86.6	10.7	1.07	533	13.1	0.95	BRIDGESTONE/FIRESTONE, INC.
47149	3011	10200602	0057	005	S05-2	36	-86.6	10.7	1.07	533	13.1	0.95	BRIDGESTONE/FIRESTONE, INC.
47149	3011	10200602	0057	005	S05-3	36	-86.6	10.7	1.07	533	13.1	0.95	BRIDGESTONE/FIRESTONE, INC.
47149	3621	40200501	0062	005	105	35.79	-86.37	19.8	0.76	298	5.5	9.49	GENERAL ELECTRIC
47149	3621	40200501	0062	007	107	35.79	-86.37	15.2	0.30	298	9.7	1.49	GENERAL ELECTRIC
47149	3621	40201001	0062	010	1010	35.79	-86.37	10.7	0.30	422	7.6	35.69	GENERAL ELECTRIC
47149	3621	40200701	0062	011	1011	35.79	-86.37	19.8	0.30	298	11.3	3.97	GENERAL ELECTRIC
47149	3621	40100299	0062	049	1049	35.79	-86.37	9.1	0.74	298	8.9	1.19	GENERAL ELECTRIC
47149	3621	40200101	0062	050	1050	35.79	-86.37	18.3	0.85	294	12.3	5.09	GENERAL ELECTRIC
47149	8221	10300207	0064	001	1	35.86	-86.37	17.7	0.76	577	11.3	1.85	MIDDLE TN STATE UNIV
47149	8221	10300501	0064	001	1	35.86	-86.37	17.7	0.76	577	11.3	0.36	MIDDLE TN STATE UNIV
47149	8221	10300602	0064	001	1	35.86	-86.37	17.7	0.76	577	11.3	2.97	MIDDLE TN STATE UNIV
47149	2752	40500212	0094	001	101	35.86	-86.41	9.8	0.73	298	12.4	58.36	COURIER PRINTING COMPANY
47149	2752	40500598	0094	001	201	35.86	-86.41	9.8	0.73	298	12.4	7.04	COURIER PRINTING COMPANY
47149	3634	40100205	0106	001	101	35.86	-86.4	9.1	0.74	298	8.9	2.19	CHROMALOX DIV EMERSON ELECTRIC
47149	3634	40100205	0106	002	102	35.86	-86.4	9.1	0.74	298	8.9	1.48	CHROMALOX DIV EMERSON ELECTRIC
47149	3634	40200101	0106	003	103	35.86	-86.4	7.6	1.22	298	5.9	2.34	CHROMALOX DIV EMERSON ELECTRIC
47149	3634	40200924	0106	003	203	35.86	-86.4	7.6	1.22	298	5.9	2.00	CHROMALOX DIV EMERSON ELECTRIC
47149	3634	40200110	0106	004	104	35.86	-86.4	7.6	1.22	298	5.9	1.33	CHROMALOX DIV EMERSON ELECTRIC
47149	3634	40200924	0106	004	204	35.86	-86.4	7.6	1.22	298	5.9	2.34	CHROMALOX DIV EMERSON ELECTRIC
47149	3442	40202033	0147	001	101	35.98	-86.49	10.4	0.97	298	10.2	11.47	BETTER-BILT ALUMINUM PRODUCTS, INC.
47149	3442	40200701	0147	001	201	35.98	-86.49	10.4	0.97	298	10.2	3.97	BETTER-BILT ALUMINUM PRODUCTS, INC.
47149	3442	40200922	0147	001	301	35.98	-86.49	10.4	0.97	298	10.2	21.98	BETTER-BILT ALUMINUM PRODUCTS, INC.

Rutherford County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47149	3442	40100307	0147	001	401	35.98	-86.49	10.4	0.97	298	10.2	2.13	BETTER-BILT ALUMINUM PRODUCTS, INC.
47149	3732	31401510	0148	001	RFA	35.91	-86.47	9.1	1.22	294	8.1	3.21	MARINE GROUP, LLC
47149	3732	31401510	0148	001	RFB	35.91	-86.47	9.1	1.22	294	8.1	3.21	MARINE GROUP, LLC
47149	3732	31401510	0148	001	RFC	35.91	-86.47	9.1	1.22	294	8.1	3.21	MARINE GROUP, LLC
47149	3732	31401510	0148	002	EF1	35.91	-86.47	9.1	1.01	294	12.1	7.70	MARINE GROUP, LLC
47149	3732	31401510	0148	002	EF2	35.91	-86.47	9.1	1.01	294	12.1	7.70	MARINE GROUP, LLC
47149	3732	31401510	0148	002	EF3	35.91	-86.47	9.1	1.01	294	12.1	7.70	MARINE GROUP, LLC
47149	3732	31401510	0148	002	EF4	35.91	-86.47	9.1	1.01	294	12.1	7.70	MARINE GROUP, LLC
47149	3732	31401510	0148	002	EF5	35.91	-86.47	9.1	1.01	294	12.1	7.70	MARINE GROUP, LLC
47149	3732	31401510	0148	002	EF6	35.91	-86.47	9.1	1.01	294	12.1	7.70	MARINE GROUP, LLC
47149	3732	31401510	0148	002	EF7	35.91	-86.47	9.1	1.01	294	12.1	7.70	MARINE GROUP, LLC
47149	3732	31401510	0148	002	EF8	35.91	-86.47	9.1	1.01	294	12.1	7.70	MARINE GROUP, LLC
47149	3732	31401512	0148	003	EF9	35.91	-86.47	9.1	1.17	294	9.9	4.95	MARINE GROUP, LLC
47149	3732	31401512	0148	003	EF10	35.91	-86.47	9.1	1.17	294	9.9	4.95	MARINE GROUP, LLC
47149	3732	31401512	0148	003	EF11	35.91	-86.47	9.1	1.17	294	9.9	4.95	MARINE GROUP, LLC
47149	3732	31401512	0148	003	EF12	35.91	-86.47	9.1	1.17	294	9.9	4.95	MARINE GROUP, LLC
47149	3732	31401552	0148	004	TPA	35.91	-86.47	9.1	0.86	300	14.9	1.75	MARINE GROUP, LLC
47149	3732	31401552	0148	004	TPB	35.91	-86.47	9.1	0.86	300	14.9	1.75	MARINE GROUP, LLC
47149	3732	31401552	0148	004	TPC	35.91	-86.47	9.1	0.86	300	13.4	4.61	MARINE GROUP, LLC
47149	3732	31401552	0148	004	TPD	35.91	-86.47	9.1	0.86	300	13.4	4.61	MARINE GROUP, LLC
47149	3625	40200810	0153	002	002	35.85	-86.38	-9.0	-9.00	-9	-9.0	14.91	SQUARE D COMPANY
47149	3625	40201001	0153	002	002	35.85	-86.38	-9.0	-9.00	-9	-9.0	0.10	SQUARE D COMPANY
47149	3711	10200602	0155	01	SOB3	35.95	-86.49	39.6	1.22	456	20.7	2.77	NISSAN NORTH AMERICA, INC.
47149	3711	10200204	0155	01	SOB3	35.95	-86.49	39.6	1.22	456	20.7	3.69	NISSAN NORTH AMERICA, INC.
47149	3711	40201631	0155	04	S1P61	35.95	-86.49	22.9	1.22	-9	16.2	232.69	NISSAN NORTH AMERICA, INC.
47149	3711	40201627	0155	05	S1P41	35.95	-86.49	22.9	1.22	-9	-9.0	111.52	NISSAN NORTH AMERICA, INC.
47149	3711	40201628	0155	06	S1P19	35.95	-86.49	21.0	0.76	-9	-9.0	11.89	NISSAN NORTH AMERICA, INC.
47149	3711	40201628	0155	07	S1P6	35.95	-86.49	14.3	0.38	-9	-9.0	1.01	NISSAN NORTH AMERICA, INC.
47149	3711	40201609	0155	14	BFP5	35.95	-86.49	12.2	0.46	339	-9.0	28.02	NISSAN NORTH AMERICA, INC.
47149	3711	40201608	0155	15	S1P26	35.95	-86.49	19.2	1.12	-9	-9.0	29.97	NISSAN NORTH AMERICA, INC.
47149	3711	49099999	0155	22	FUG22	35.95	-86.49	0.0	-9.00	-9	-9.0	726.90	NISSAN NORTH AMERICA, INC.
47149	3711	39999999	0155	61	SOS3	35.95	-86.49	4.6	0.61	300	-9.0	4.00	NISSAN NORTH AMERICA, INC.
47149	3711	40202201	0155	62	S3P12	35.95	-86.49	15.2	1.52	297	-9.0	12.31	NISSAN NORTH AMERICA, INC.
47149	3711	40200801	0155	62	S3P10	35.95	-86.49	15.2	0.61	404	7.4	0.43	NISSAN NORTH AMERICA, INC.
47149	3711	20400401	0155	63	TC14	35.95	-86.49	12.2	1.07	-9	-9.0	1.70	NISSAN NORTH AMERICA, INC.
47149	3711	40201626	0155	64	S2P26	35.95	-86.49	30.5	1.52	297	-9.0	139.97	NISSAN NORTH AMERICA, INC.
47149	3711	40200830	0155	64	S2P37	35.95	-86.49	19.5	1.22	-9	1.2	0.04	NISSAN NORTH AMERICA, INC.
47149	3711	39000699	0155	65	NG65	35.95	-86.49	-9.0	-9.00	-9	-9.0	20.61	NISSAN NORTH AMERICA, INC.
47149	3711	40201619	0155	66	S2P16	35.95	-86.49	30.5	-9.00	297	-9.0	72.09	NISSAN NORTH AMERICA, INC.
47149	3711	40200801	0155	66	S2P23	35.95	-86.49	19.5	1.22	-9	1.4	0.12	NISSAN NORTH AMERICA, INC.
47149	3711	40201622	0155	71	S2P4	35.95	-86.49	15.2	0.46	294	-9.0	6.36	NISSAN NORTH AMERICA, INC.
47149	3711	40200801	0155	71	S2P2	35.95	-86.49	19.5	1.22	321	-9.0	0.32	NISSAN NORTH AMERICA, INC.
47149	3711	40201601	0155	72	SPP3	35.95	-86.49	15.8	0.46	-9	-9.0	0.08	NISSAN NORTH AMERICA, INC.
47149	3711	20201706	0155	86	TC1	35.95	-86.49	-9.0	-9.00	-9	-9.0	0.85	NISSAN NORTH AMERICA, INC.
47149	3711	31499999	0155	87	TC23	35.95	-86.49	-9.0	-9.00	-9	-9.0	0.20	NISSAN NORTH AMERICA, INC.
47149	3711	39999999	0155	89	S2P1	35.95	-86.49	15.8	0.46	294	-9.0	7.02	NISSAN NORTH AMERICA, INC.
47149	3711	39999999	0155	90	S1P4	35.95	-86.49	14.9	0.38	-9	-9.0	9.24	NISSAN NORTH AMERICA, INC.
47149	3711	40201607	0155	93	FUG93	35.95	-86.49	0.0	-9.00	-9	-9.0	30.76	NISSAN NORTH AMERICA, INC.
47149	3711	40201608	0155	68A	S2P10	35.95	-86.49	19.5	1.22	-9	-9.0	5.20	NISSAN NORTH AMERICA, INC.
47149	3711	40201608	0155	68B	S2P55	35.95	-86.49	15.8	1.01	297	-9.0	1.86	NISSAN NORTH AMERICA, INC.
47149	3732	31401510	0172	001	S-13	35.79	-86.38	7.9	0.82	294	24.8	5.61	STRATOS/JAVELIN BOATS
47149	3732	31401510	0172	001	S-10	35.79	-86.38	7.9	0.82	294	24.8	5.61	STRATOS/JAVELIN BOATS

Rutherford County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47149	3732	31401510	0172	001	S-11	35.79	-86.38	7.9	0.82	294	24.8	5.61	STRATOS/JAVELIN BOATS
47149	3732	31401510	0172	001	S-12	35.79	-86.38	7.9	0.82	294	24.8	5.61	STRATOS/JAVELIN BOATS
47149	3732	40200110	0172	002	S-8	35.79	-86.38	7.9	0.76	294	19.1	5.44	STRATOS/JAVELIN BOATS
47149	3732	40200110	0172	002	S-9	35.78	-86.37	7.9	0.76	294	19.1	5.44	STRATOS/JAVELIN BOATS
47149	3732	31401510	0172	002	S-14	35.79	-86.38	7.9	0.82	294	24.8	5.61	STRATOS/JAVELIN BOATS
47149	3732	31401510	0172	002	S-15	35.79	-86.38	7.9	0.82	294	24.8	5.61	STRATOS/JAVELIN BOATS
47149	3732	31401510	0172	002	S-16	35.79	-86.38	7.9	1.37	294	12.0	33.68	STRATOS/JAVELIN BOATS
47149	3732	31401510	0172	002	S-17	35.79	-86.38	7.9	1.37	294	12.0	33.68	STRATOS/JAVELIN BOATS
47149	3732	31401510	0172	002	S-18	35.79	-86.38	7.9	2.04	294	10.9	67.36	STRATOS/JAVELIN BOATS
47149	3732	40200110	0172	002	S-6	35.79	-86.38	7.9	0.76	294	19.1	5.44	STRATOS/JAVELIN BOATS
47149	3732	40200110	0172	002	S-7	35.79	-86.38	7.9	0.76	294	19.1	5.44	STRATOS/JAVELIN BOATS
47149	3714	39999999	0173	001	A	35.79	-86.37	7.6	0.30	294	15.5	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	001	J	35.79	-86.37	7.6	0.51	294	11.5	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	001	B	35.79	-86.37	7.6	0.43	294	8.1	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	001	C	35.79	-86.37	7.6	0.37	294	6.4	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	001	D	35.79	-86.37	7.6	0.46	294	1.0	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	001	E	35.79	-86.37	7.6	0.40	294	6.7	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	001	F	35.79	-86.37	7.6	0.37	294	6.4	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	001	G	35.79	-86.37	7.6	0.46	294	3.9	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	001	H	35.79	-86.37	7.6	0.51	294	11.5	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	001	I	35.79	-86.37	7.6	0.51	294	11.5	2.35	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	003	SRC10	35.79	-86.37	7.6	0.46	294	7.9	5.71	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	005	SRC13	35.79	-86.37	7.6	0.38	294	14.5	0.18	TENNEX INDUSTRIES INC.
47149	3714	39999999	0173	006	SRC15	35.79	-86.37	7.6	0.25	294	9.2	0.35	TENNEX INDUSTRIES INC.
47149	7699	40200101	0174	001	01	35.86	-86.41	9.8	1.07	294	12.3	42.69	HOOVER, INC.
47149	3449	40200501	0175	001	01	35.86	-86.58	8.2	0.61	294	12.3	35.48	HOLT SPECIALTY EQUIP
47149	3449	40202501	0179	001	01-01	35.83	-86.4	12.2	0.89	298	11.1	4.70	USA TODAY
47149	3449	40200998	0179	001	01-02	35.83	-86.4	12.2	0.89	298	11.1	1.97	USA TODAY
47149	3449	40100398	0179	001	01-03	35.83	-86.4	12.2	0.89	298	11.1	0.01	USA TODAY
47149	2834	30106099	0191	001	01-01	36	-86.5	18.9	1.25	450	11.3	40.63	CUMBERLAND SWAN
47149	2834	40700813	0191	001	01-04	36	-86.5	18.9	1.25	450	11.3	0.01	CUMBERLAND SWAN
47149	2834	40700814	0191	001	01-05	36	-86.5	18.9	1.25	450	11.3	0.58	CUMBERLAND SWAN
47149	2834	40704406	0191	001	01-07	36	-86.5	18.9	1.25	450	11.3	0.01	CUMBERLAND SWAN
47149	2834	39000689	0191	002	02	36	-86.5	15.2	0.56	298	4.8	0.07	CUMBERLAND SWAN
47149	3713	40201601	0200	001	01-01	36.01	-86.55	25.9	1.12	298	11.7	29.96	ALLVAN CORP
47149	3713	40200998	0200	001	01-02	36.01	-86.55	25.9	1.12	298	11.7	19.17	ALLVAN CORP
47149	3713	40100398	0200	001	01-03	36.01	-86.55	25.9	1.12	298	11.7	0.29	ALLVAN CORP
47149	1422	50200602	0222	001	1	35.88	-86.4	7.6	0.21	294	0.6	290.89	Independence recycling, Inc.
47149	4953	50100410	0381	001	FLARE	35.93	-86.36	15.2	3.35	1033	3.5	10.85	BFI- MIDDLE POINT LANDFILL
Total												2477.56	

Sumner County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47165	2522	40200510	0002	001	02&07	36.38	-86.42	10.7	1.07	294	9.1	10.06	G.F. OFFICE FURNITURE, LTD.
47165	2522	40200510	0002	002	03	36.38	-86.42	10.7	0.46	293	6.1	29.29	G.F. OFFICE FURNITURE, LTD.
47165	2522	40200510	0002	003	19	36.38	-86.42	7.6	0.46	293	11.0	3.39	G.F. OFFICE FURNITURE, LTD.
47165	2522	40202111	0002	004	24	36.38	-86.42	7.6	0.85	293	6.4	5.42	G.F. OFFICE FURNITURE, LTD.
47165	2522	40202111	0002	004	23	36.38	-86.42	7.6	0.61	294	10.4	5.42	G.F. OFFICE FURNITURE, LTD.
47165	2522	40200510	0002	005	05	36.38	-86.42	7.6	0.40	294	2.9	22.62	G.F. OFFICE FURNITURE, LTD.
47165	2522	40200711	0002	006	27	36.38	-86.42	7.6	0.61	293	8.8	2.26	G.F. OFFICE FURNITURE, LTD.
47165	2522	40200711	0002	007	10	36.38	-86.42	9.1	0.91	293	1.6	5.65	G.F. OFFICE FURNITURE, LTD.
47165	2522	40200711	0002	009	25&26	36.38	-86.42	7.3	0.61	293	16.2	22.62	G.F. OFFICE FURNITURE, LTD.

Sumner County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47165	2522	40200711	0002	010	28	36.38	-86.42	8.5	0.61	293	8.8	11.31	G.F. OFFICE FURNITURE, LTD.
47165	3621	40200101	0018	008	6	36.31	-86.61	13.1	0.91	311	5.1	1.02	GENERAL ELECTRIC CO
47165	3621	30999999	0018	011	9	36.31	-86.61	19.8	0.30	344	22.6	4.62	GENERAL ELECTRIC CO
47165	3621	39000699	0018	011	9	36.31	-86.61	19.8	0.30	344	22.6	4.36	GENERAL ELECTRIC CO
47165	3621	40200301	0018	029	18	36.31	-86.61	13.4	0.61	311	6.2	40.08	GENERAL ELECTRIC CO
47165	3621	40201001	0018	029	18	36.31	-86.61	13.4	0.61	311	6.2	0.00	GENERAL ELECTRIC CO
47165	3621	40200301	0018	042	24	36.31	-86.61	13.7	1.07	298	10.5	19.53	GENERAL ELECTRIC CO
47165	3621	40200101	0018	045	27	36.31	-86.61	13.7	0.76	298	10.3	3.08	GENERAL ELECTRIC CO
47165	3621	40200101	0018	046	28	36.31	-86.61	13.7	1.07	298	10.5	27.75	GENERAL ELECTRIC CO
47165	3621	40200101	0018	047	29	36.31	-86.61	13.7	0.30	298	6.5	13.36	GENERAL ELECTRIC CO
47165	3448	40200601	0116	001	1	36.58	-86.51	11.3	0.40	294	28.7	20.62	KIRBY BUILDING SYSTEM
47165	3448	40200601	0116	002	2	36.58	-86.51	11.9	0.88	298	10.2	1.36	KIRBY BUILDING SYSTEM
47165	3448	40200601	0116	003	003	36.58	-86.51	-9.0	-9.00	-9	-9.0	65.35	KIRBY BUILDING SYSTEM
47165	2752	10200602	0125	001	B1	36.38	-86.42	12.2	0.94	478	15.5	0.06	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40100501	0125	002	FOT-1	36.38	-86.42	10.4	0.10	300	1.2	0.01	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40799999	0125	003	ST-1	36.38	-86.42	8.5	0.10	300	0.4	1.61	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40799999	0125	004	T1T4	36.38	-86.42	10.7	0.10	300	0.6	2.06	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201330	0125	005	CR&DC	36.38	-86.42	12.5	0.30	305	14.1	19.30	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201305	0125	007	824FS	36.38	-86.42	14.3	0.66	305	8.8	6.43	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201305	0125	007	827FS	36.38	-86.42	14.6	0.66	305	9.1	6.63	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201305	0125	007	828FS	36.38	-86.42	14.6	0.66	305	8.8	6.40	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201305	0125	007	802FS	36.38	-86.42	14.9	0.51	305	12.5	5.47	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201305	0125	007	813FS	36.38	-86.42	14.3	0.41	305	18.6	5.17	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201305	0125	007	815FS	36.38	-86.42	14.6	0.66	305	11.0	7.90	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201305	0125	007	816FS	36.38	-86.42	14.6	0.62	305	7.6	4.93	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201305	0125	007	821FS	36.38	-86.42	14.3	0.66	305	6.1	4.52	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	011	802A	36.38	-86.42	14.9	0.86	305	9.8	12.24	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	011	813A	36.38	-86.42	14.0	0.86	305	10.1	12.19	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	011	815A	36.38	-86.42	13.7	0.69	305	21.0	16.82	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	011	816A	36.38	-86.42	13.7	0.69	305	24.1	19.32	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	011	821A	36.38	-86.42	14.9	0.86	305	14.3	18.08	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	011	824A	36.38	-86.42	14.9	0.86	305	12.6	16.13	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	011	827A	36.38	-86.42	13.7	0.69	305	22.9	18.35	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	011	828A	36.38	-86.42	13.7	0.69	305	21.9	17.57	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	012	802B	36.38	-86.42	14.9	0.86	305	8.5	10.75	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	012	813B	36.38	-86.42	14.0	0.86	305	10.4	13.03	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	012	815B	36.38	-86.42	13.7	0.69	305	20.7	16.61	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	012	816B	36.38	-86.42	13.7	0.69	305	21.6	17.36	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	012	821B	36.38	-86.42	14.9	0.86	305	13.7	17.43	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	012	824B	36.38	-86.42	14.9	0.86	305	14.3	18.13	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	012	827B	36.38	-86.42	13.7	0.69	305	23.5	18.92	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	40201399	0125	012	828B	36.38	-86.42	13.7	0.69	305	21.3	17.16	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	10200602	0125	013	B2	36.38	-86.42	12.2	0.94	478	15.5	0.06	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	3313	30400701	0129	001	EP-1	36.37	-86.42	28.7	2.44	339	13.8	0.91	HOEGANAES CORPORATION
47165	3313	30400701	0129	001	EP-1A	36.37	-86.42	28.3	1.52	339	10.3	0.42	HOEGANAES CORPORATION
47165	3313	30400799	0129	002	EP-2	36.37	-86.42	18.3	0.66	348	19.6	0.10	HOEGANAES CORPORATION
47165	3313	30400799	0129	002	EP-2A	36.37	-86.42	28.3	0.61	348	20.6	0.10	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-32	36.37	-86.42	20.7	0.61	305	2.5	0.07	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-4	36.37	-86.42	19.2	0.61	383	6.7	0.07	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-43	36.37	-86.42	18.3	1.52	311	2.2	0.07	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-10	36.37	-86.42	20.7	1.01	305	14.7	0.07	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-36	36.37	-86.42	20.7	1.37	294	2.9	0.07	HOEGANAES CORPORATION

Sumner County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47165	3313	30400799	0129	004	EP-18	36.37	-86.42	20.7	0.81	305	18.1	0.07	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-30	36.37	-86.42	20.7	0.81	305	18.1	0.07	HOEGANAES CORPORATION
47165	4953	10301202	0135	001	001	36.44	-86.45	-9.0	-9.00	-9	-9.0	31.76	RESOURCE AUTHORITY
47165	3714	40200701	0137	011	11	36.36	-86.43	10.1	0.46	294	10.8	2.85	ALLIED SIGNAL, INC. / BENDIX AUTOMOTIVE
47165	3714	40200701	0137	018	18	36.36	-86.43	10.1	0.61	294	8.1	25.31	ALLIED SIGNAL, INC. / BENDIX AUTOMOTIVE
47165	3089	40200101	0153	002	2	36.58	-86.47	6.7	0.76	298	9.4	51.55	DEL MET TENNESSEE
47165	3089	40201001	0153	003	3	36.58	-86.47	6.7	0.76	298	9.4	24.88	DEL MET TENNESSEE
47165	3089	40200101	0153	004	4	36.58	-86.47	6.7	0.76	298	5.8	4.38	DEL MET TENNESSEE
47165	3089	40200101	0153	005	5	36.58	-86.47	6.7	0.76	298	9.4	16.45	DEL MET TENNESSEE
47165	3089	40200101	0153	006	6	36.58	-86.47	6.7	0.76	298	9.4	26.32	DEL MET TENNESSEE
47165	3646	40200101	0154	001	01	36.58	-86.47	7.3	0.61	322	17.6	15.32	GARCY CORPORATION
47165	3646	40200101	0154	003	03	36.58	-86.47	8.2	1.07	322	10.5	14.30	GARCY CORPORATION
47165	3715	40200501	0158	001	01	36.45	-86.47	6.1	0.91	294	12.3	14.23	WIL-RO INCORPORATED
47165	3496	40200210	0159	001	01	36.37	-86.41	11.3	0.86	298	9.1	10.99	ITW CIP FASTENERS (CALIFORNIA IND PRODUCTION)
47165	3496	40200110	0159	001	01	36.37	-86.41	11.3	0.86	298	9.1	3.20	ITW CIP FASTENERS (CALIFORNIA IND PRODUCTION)
47165	3496	40200918	0159	001	01	36.37	-86.41	11.3	0.86	298	9.1	1.67	ITW CIP FASTENERS (CALIFORNIA IND PRODUCTION)
47165	2731	40500199	0164	001	S01-1	36.5	-86.52	10.7	0.49	408	12.5	43.52	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	2731	40500199	0164	001	S01-2	36.5	-86.52	10.7	0.49	408	12.5	43.52	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	2731	49000203	0164	002	S02-1	36.5	-86.52	10.7	0.61	533	14.6	36.86	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	2731	49000203	0164	002	S02-2	36.5	-86.52	10.7	0.61	533	10.4	36.86	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	3732	30800722	0170	001	01	36.34	-86.41	10.4	0.66	298	11.3	0.96	BOATING CORPORATION OF AMERICA
47165	3732	30800724	0170	001	01	36.34	-86.41	10.4	0.66	298	11.3	9.49	BOATING CORPORATION OF AMERICA
47165	3732	30101890	0170	001	01	36.34	-86.41	10.4	0.66	298	11.3	1.26	BOATING CORPORATION OF AMERICA
47165	3732	40200902	0170	001	01	36.34	-86.41	10.4	0.66	298	11.3	10.14	BOATING CORPORATION OF AMERICA
47165	3448	40200110	0178	001	01	36.6	-86.53	11.6	1.21	298	7.9	37.96	UNITED STRUCTURES OF AMERICA
47165	3448	40200924	0178	001	01	36.6	-86.53	11.6	1.21	298	7.9	1.22	UNITED STRUCTURES OF AMERICA
47165	2451	40200110	0180	001	001	36.37	-86.44	11.6	1.21	294	7.9	17.22	FLEETWOOD HOMES #26
47165	2851	30101403	0188	001	001	36.38	-86.42	8.5	1.09	294	4.2	4.01	JOHN L ARMATAGE & CO
47165	4953	50200602	0209	001	001	36.37	-86.43	7.6	0.21	294	0.6	279.55	RESOURCE AUTHORITY LANDFILL
Total												1417.65	

Williamson County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47187	3634	50300102	0005	001	1	35.91	-86.87	11.0	0.46	505	3.4	1.10	LASKO METAL PRODUCTS, INC.
47187	3634	40200501	0005	002	2	35.93	-86.86	4.6	0.76	298	5.2	11.07	LASKO METAL PRODUCTS, INC.
47187	3634	40200501	0005	003	3	35.93	-86.86	4.6	0.76	298	5.2	11.07	LASKO METAL PRODUCTS, INC.
47187	3634	40200501	0005	004	4	35.93	-86.86	4.6	0.76	298	5.2	47.60	LASKO METAL PRODUCTS, INC.
47187	3634	40200501	0005	006	6	35.93	-86.86	4.6	0.76	298	5.2	47.60	LASKO METAL PRODUCTS, INC.
47187	2679	40201330	0006	001	P-1	35.9	-86.87	11.0	0.57	311	8.8	36.43	CPS CORPORATION
47187	2679	40201330	0006	001	P-2	35.9	-86.87	11.6	0.91	311	4.1	36.43	CPS CORPORATION
47187	2679	40201330	0006	001	P-3	35.9	-86.87	11.0	0.91	311	3.8	36.43	CPS CORPORATION
47187	2679	40201330	0006	001	P-4	35.9	-86.87	11.0	0.91	311	3.6	36.43	CPS CORPORATION
47187	2679	40201330	0006	001	P-5	35.9	-86.87	11.3	0.82	311	4.1	36.43	CPS CORPORATION
47187	2679	40201330	0006	001	P-6A	35.9	-86.87	11.6	0.69	311	6.1	39.90	CPS CORPORATION
47187	2679	40201330	0006	001	P-6B	35.9	-86.87	10.1	0.20	305	21.6	39.90	CPS CORPORATION
47187	2679	10200602	0006	002	B-1	35.9	-86.87	6.7	0.61	478	5.7	0.29	CPS CORPORATION
47187	2679	10200602	0006	002	B-2	35.9	-86.87	9.1	0.51	499	8.0	0.19	CPS CORPORATION
47187	2679	30390013	0006	003	I-1	35.9	-86.87	15.2	0.91	478	2.5	0.11	CPS CORPORATION
47187	3144	40200701	0061	001	001	35.92	-86.9	4.9	0.30	294	1.8	9.63	GEORGIA BOOT
47187	3144	40200701	0061	002	002	35.92	-86.9	4.9	0.61	294	13.7	10.81	GEORGIA BOOT
47187	3144	40288801	0061	003	003	35.92	-86.9	10.7	0.94	294	8.0	19.26	GEORGIA BOOT
47187	3089	40202201	0098	001	ST-1	35.92	-86.86	10.7	0.49	303	39.6	19.19	LDM TECHNOLOGIES, INC.

Williamson County

FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47187	3089	40202201	0098	001	ST-2	35.92	-86.86	10.7	0.49	303	39.6	19.19	LDM TECHNOLOGIES, INC.
47187	3089	40202201	0098	001	ST-3	35.92	-86.86	10.7	0.49	347	6.1	2.96	LDM TECHNOLOGIES, INC.
47187	3089	40202201	0098	001	ST-4	35.92	-86.86	10.7	0.49	347	15.2	7.40	LDM TECHNOLOGIES, INC.
47187	3089	40202201	0098	002	ST-5	35.92	-86.86	10.7	0.49	303	41.8	20.81	LDM TECHNOLOGIES, INC.
47187	3089	40202201	0098	002	ST-6	35.92	-86.86	10.7	0.49	303	41.8	20.81	LDM TECHNOLOGIES, INC.
47187	3089	40202201	0098	002	ST-7	35.92	-86.86	10.7	0.49	303	41.8	20.81	LDM TECHNOLOGIES, INC.
47187	3089	40202201	0098	002	ST-8	35.92	-86.86	10.7	0.49	303	41.8	20.81	LDM TECHNOLOGIES, INC.
47187	3089	40202201	0098	002	ST-9	35.92	-86.86	10.7	0.49	350	21.9	10.93	LDM TECHNOLOGIES, INC.
47187	3089	40202201	0098	002	ST-10	35.92	-86.86	10.7	0.49	350	6.7	3.34	LDM TECHNOLOGIES, INC.
47187	3644	30800723	0100	01	01	35.88	-86.9	7.6	0.82	355	7.0	52.89	FIBERTEK, INC.
47187	3644	30800723	0100	02	02	35.88	-86.9	7.6	0.52	308	1.6	17.62	FIBERTEK, INC.
47187	2851	30101401	0115	001	001	35.92	-86.9	8.5	1.09	294	4.2	13.36	EGYPTIAN LACQUER MFG
47187	5541	40400108	0122	001	001	35.9	-86.86	8.8	1.07	294	0.3	26.14	CANTER OIL CO
Total												676.94	

Wilson County

FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47189	3714	40200101	0003	005	005	36.23	-86.25	2.7	0.91	294	8.6	56.95	TRW, INC.- ROSS GEAR DIV.
47189	3714	40200101	0003	006	006	36.23	-86.25	2.1	0.61	294	11.3	8.38	TRW, INC.- ROSS GEAR DIV.
47189	3498	40299995	0017	001	S-1	36.23	-86.32	7.6	0.91	294	16.3	0.64	PERMA PIPE- A SUBSIDARY OF MFRI, INC.
47189	3498	40299995	0017	001	S-1	36.23	-86.32	7.6	0.91	294	16.3	7.91	PERMA PIPE- A SUBSIDARY OF MFRI, INC.
47189	3498	30901607	0017	002	S-2	36.23	-86.32	10.7	1.22	294	7.4	10.65	PERMA PIPE- A SUBSIDARY OF MFRI, INC.
47189	3498	30901607	0017	002	S-3	36.23	-86.32	8.2	1.22	294	7.4	10.65	PERMA PIPE- A SUBSIDARY OF MFRI, INC.
47189	3498	30901607	0017	002	S-4	36.23	-86.32	10.7	1.22	294	7.4	10.65	PERMA PIPE- A SUBSIDARY OF MFRI, INC.
47189	3498	30901607	0017	002	S-5	36.23	-86.32	8.2	1.22	294	7.4	10.65	PERMA PIPE- A SUBSIDARY OF MFRI, INC.
47189	3498	40299995	0017	004	S-6	36.23	-86.32	7.6	1.13	294	17.6	0.01	PERMA PIPE- A SUBSIDARY OF MFRI, INC.
47189	3498	40299999	0017	006	S-10	36.23	-86.32	7.6	1.22	294	11.4	1.31	PERMA PIPE- A SUBSIDARY OF MFRI, INC.
47189	3498	40299999	0017	006	S-11	36.23	-86.32	7.6	1.22	294	11.4	1.31	PERMA PIPE- A SUBSIDARY OF MFRI, INC.
47189	3479	40500201	0103	001	1	36.19	-86.52	9.1	0.85	574	14.3	167.33	JOHN DEAL COMPANY
47189	4953	50200602	0137	001	001	36.23	-86.25	7.6	0.21	294	0.6	142.58	WILSON COUNTY LANDFILL
Total												429.02	

Annual 2002 Nashville 5-County Area Point Source Emissions: CO
- EPA Preliminary NEI 2002 Data

Davidson County					Release			Stk Ht	Diam	Temp	Vel	Ems		
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)		Facility Name
47037	2869	10200602	4703700002	003	3	36.26	-86.65	15.2	1.31	589	2.5	1.76	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	005	5	36.26	-86.65	21.3	1.31	589	3.3	3.22	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	007	7	36.26	-86.65	21.3	1.37	589	3.7	3.45	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200202	4703700002	009	9	36.26	-86.65	61.0	2.90	451	10.7	22.77	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200601	4703700002	009	9	36.26	-86.65	61.0	2.90	451	10.7	3.77	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200202	4703700002	010	10	36.26	-86.65	61.0	3.35	439	7.0	16.14	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200601	4703700002	010	10	36.26	-86.65	61.0	3.35	439	7.0	4.79	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200501	4703700002	011	11	36.26	-86.65	61.0	2.13	440	12.8	0.01	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200202	4703700002	011	11	36.26	-86.65	61.0	2.13	440	12.8	9.53	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200601	4703700002	011	11	36.26	-86.65	61.0	2.13	440	12.8	6.38	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103102	4703700002	014	14	36.26	-86.65	26.5	0.46	311	1.6	22.96	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103103	4703700002	015	15	36.26	-86.65	4.6	0.46	323	11.5	136.30	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103102	4703700002	017	17	36.26	-86.65	36.6	0.64	320	65.6	3703.43	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30190013	4703700002	030	30	36.26	-86.65	54.9	1.22	294	0.0	0.87	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30190004	4703700002	030	30	36.26	-86.65	54.9	1.22	294	0.0	17.22	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200501	4703700002	031	31	36.26	-86.65	53.3	1.73	633	9.1	0.01	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	031	31	36.26	-86.65	53.3	1.73	633	9.1	5.29	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200602	4703700002	032	32	36.26	-86.65	53.3	1.73	633	9.1	5.29	E I	DUPONT DE NEMOURS & CO INC
47037	2869	10200501	4703700002	032	32	36.26	-86.65	53.3	1.73	633	9.1	0.01	E I	DUPONT DE NEMOURS & CO INC
47037	2869	39000689	4703700002	068	68	36.26	-86.65	8.2	1.16	493	2.3	0.01	E I	DUPONT DE NEMOURS & CO INC
47037	2869	30103102	4703700002	096	96	36.26	-86.65	36.6	0.20	533	52.4	18.30	E I	DUPONT DE NEMOURS & CO INC
47037	2819	30299999	4703700005	001	1	36.16	-86.84	4.6	0.15	324	21.0	0.42		RHODIA INC.
47037	2819	30299999	4703700005	002	2	36.16	-86.84	12.2	0.65	350	3.4	0.40		RHODIA INC.
47037	2819	30299999	4703700005	003	3	36.16	-86.84	12.8	0.26	305	15.2	0.25		RHODIA INC.
47037	2819	30299999	4703700005	004	4	36.16	-86.84	13.7	0.30	330	12.2	0.80		RHODIA INC.
47037	2819	30299999	4703700005	005	5	36.16	-86.84	23.8	0.50	313	21.6	0.23		RHODIA INC.
47037	2819	10200602	4703700005	007	7	36.16	-86.84	39.6	3.05	547	0.9	7.01		RHODIA INC.
47037	2819	10200501	4703700005	007	7	36.16	-86.84	39.6	3.05	547	0.9	0.01		RHODIA INC.
47037	2951	30500201	4703700007	001	1	36.12	-86.92	6.4	1.07	383	16.2	5.59		APAC TENNESSEE INC
47037	2951	30500201	4703700008	001	1	36.18	-86.77	6.4	1.28	394	16.8	15.84		APAC-TENNESSEE INC
47037	2951	30500201	4703700009	001	1	36.08	-86.67	6.7	1.07	383	17.8	23.12		APAC TENNESSEE INC
47037	3295	30501801	4703700022	001	1	36.17	-86.81	7.6	0.61	366	15.8	0.19		CHEMROCK CORP
47037	3295	30501801	4703700022	002	2	36.17	-86.81	7.6	0.61	394	13.4	0.60		CHEMROCK CORP
47037	7011	20100107	4703700025	001	1	36.21	-86.70	12.2	0.56	672	36.7	0.25		OPRYLAND USA INC
47037	7011	10300602	4703700025	002	2	36.20	-86.69	9.4	0.51	478	8.4	1.31		OPRYLAND USA INC
47037	7011	10300603	4703700025	003	3	36.20	-86.69	9.1	0.36	422	6.3	0.33		OPRYLAND USA INC
47037	7011	10300602	4703700025	004	4	36.20	-86.69	21.3	1.40	436	19.3	77.32		OPRYLAND USA INC
47037	7011	10300602	4703700025	004	4	36.20	-86.69	21.3	1.40	436	19.3	6.20		OPRYLAND USA INC
47037	7011	10300602	4703700025	004	4	36.20	-86.69	21.3	1.40	436	19.3	2.32		OPRYLAND USA INC
47037	7011	10300503	4703700025	004	4	36.20	-86.69	21.3	1.40	436	19.3	0.02		OPRYLAND USA INC
47037	7011	20100107	4703700025	007	7	36.20	-86.69	6.1	0.30	478	23.2	0.11		OPRYLAND USA INC
47037	7011	39000689	4703700025	010	10	36.20	-86.69	-9.0	-9.00	-9	-9.0	10.66		OPRYLAND USA INC
47037	3321	30400301	4703700026	001	1	36.16	-86.80	19.8	0.71	351	6.6	4.86		JOHN BOUCHARD & SONS
47037	2048	10200602	4703700029	006	8	36.09	-86.75	9.8	0.51	450	6.9	0.66		PURINA MILLS INC
47037	3272	30590003	4703700033	001	1	36.16	-86.88	9.8	1.19	394	15.2	0.28		QUIKRETE NASHVILLE

Davidson County FIPS	SIC	SCC	Facility ID	Unit ID	Release Point ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpy)	Facility Name
47037	8063	10300602	4703700035	001	1	36.16	-86.63	13.1	0.99	499	11.1	0.18	CLOVER BOTTOM HOSPITAL
47037	8221	10300207	4703700038	001	1	36.16	-86.82	53.3	2.13	561	6.3	0.82	TENNESSE STATE UNIVERSITY
47037	8221	10300602	4703700038	002	2	36.16	-86.82	13.7	1.37	450	13.1	2.20	TENNESSE STATE UNIVERSITY
47037	8221	10300602	4703700038	003	3	36.16	-86.82	14.0	0.61	478	12.1	0.65	TENNESSE STATE UNIVERSITY
47037	4911	20200107	4703700039	101	1	36.14	-86.80	6.7	0.51	866	63.1	0.23	Vanderbilt University - Vanderbilt University
47037	4911	10300601	4703700039	205	2	36.14	-86.80	65.5	3.81	436	5.9	0.13	Vanderbilt University - Vanderbilt University
47037	4911	10300209	4703700039	207	2	36.14	-86.80	65.5	3.81	436	5.9	49.91	Vanderbilt University - Vanderbilt University
47037	4911	10300209	4703700039	208	2	36.14	-86.80	65.5	3.81	436	5.9	42.07	Vanderbilt University - Vanderbilt University
47037	4911	10300209	4703700039	209	2	36.14	-86.80	65.5	3.81	436	5.9	52.25	Vanderbilt University - Vanderbilt University
47037	4911	10300603	4703700039	401	4	36.14	-86.80	6.1	0.23	755	4.0	8.93	Vanderbilt University - Vanderbilt University
47037	3211	30501403	4703700040	004	4	36.18	-86.87	64.0	2.29	765	12.4	13.01	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501403	4703700040	006	6	36.18	-86.87	64.0	2.29	654	11.9	2.75	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	017	17	36.18	-86.87	9.1	0.76	294	3.4	0.39	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	018	18	36.18	-86.87	9.1	0.76	294	3.7	1.13	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	019	19	36.18	-86.87	11.3	0.46	294	2.4	0.62	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	020	20	36.18	-86.87	11.3	0.46	294	3.0	0.70	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	021	21	36.18	-86.87	9.1	0.46	294	2.4	0.20	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	022	22	36.18	-86.87	9.1	0.51	294	1.5	0.20	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200602	4703700040	023	23	36.18	-86.87	12.2	0.51	366	4.6	0.50	VISTEON CORP - NASHVILLE GLASS
47037	3211	40200110	4703700040	032	32	36.18	-86.87	-9.0	-9.00	-9	-9.0	0.23	VISTEON CORP - NASHVILLE GLASS
47037	3211	10200603	4703700040	040	40	36.18	-86.87	11.6	0.46	294	4.0	1.04	VISTEON CORP - NASHVILLE GLASS
47037	3211	10300602	4703700040	044	44	36.18	-86.87	12.2	0.61	366	9.8	1.55	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	047	47	36.18	-86.87	-9.0	-9.00	-9	-9.0	2.08	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	048	48	36.18	-86.87	-9.0	-9.00	-9	-9.0	2.08	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	049	49	36.18	-86.87	-9.0	-9.00	-9	-9.0	2.08	VISTEON CORP - NASHVILLE GLASS
47037	3211	30501407	4703700040	050	50	36.18	-86.87	-9.0	-9.00	-9	-9.0	2.08	VISTEON CORP - NASHVILLE GLASS
47037	3211	10500106	4703700040	801	801	36.18	-86.87	-9.0	-9.00	-9	-9.0	1.98	VISTEON CORP - NASHVILLE GLASS
47037	3728	10200602	4703700042	006	6	36.12	-86.69	12.2	1.07	422	8.5	1.42	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200602	4703700042	007	7	36.12	-86.69	12.2	1.07	422	8.7	1.81	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200602	4703700042	008	8	36.12	-86.69	13.4	0.76	505	9.2	0.07	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200603	4703700042	009	9	36.12	-86.69	14.0	0.46	433	6.3	0.11	AEROSTRUCTURES CORPORATION, THE
47037	3728	10200603	4703700042	010	10	36.12	-86.69	12.2	0.49	422	4.5	0.37	AEROSTRUCTURES CORPORATION, THE
47037	3728	40202499	4703700042	017	17	36.12	-86.69	10.7	1.12	339	12.2	0.01	AEROSTRUCTURES CORPORATION, THE
47037	3728	10500106	4703700042	058	58	36.12	-86.69	4.6	0.30	505	6.1	1.11	AEROSTRUCTURES CORPORATION, THE
47037	3728	20300107	4703700042	061	61	36.12	-86.69	2.7	0.10	866	72.8	0.01	AEROSTRUCTURES CORPORATION, THE
47037	3728	20300101	4703700042	062	62	36.12	-86.69	3.0	0.15	866	30.3	0.02	AEROSTRUCTURES CORPORATION, THE
47037	3728	20100107	4703700042	063	63	36.12	-86.69	3.7	0.15	866	110.5	0.01	AEROSTRUCTURES CORPORATION, THE
47037	2426	10200906	4703700045	007	7	36.16	-86.85	36.6	0.89	334	18.3	79.43	BRUCE HARDWOOD FLOOR
47037	2426	40200810	4703700045	009	9	36.16	-86.85	7.6	0.43	422	5.8	0.00	BRUCE HARDWOOD FLOOR
47037	2426	10200903	4703700045	012	12	36.16	-86.85	36.6	0.98	330	15.2	66.12	BRUCE HARDWOOD FLOOR
47037	2426	40200310	4703700045	016	16	36.16	-86.85	11.6	0.35	450	10.9	0.01	BRUCE HARDWOOD FLOOR
47037	4953	50100799	4703700049	008	8	36.18	-86.78	-9.0	-9.00	-9	-9.0	0.01	METRO CENTRAL WWTP
47037	4961	10300601	4703700050	001	1	36.15	-86.77	36.0	1.52	589	19.1	0.21	NASHVILLE THERMAL TRANSFER CORP
47037	4961	10300601	4703700050	002	2	36.15	-86.77	36.9	2.74	501	9.2	0.36	NASHVILLE THERMAL TRANSFER CORP
47037	4961	10301201	4703700050	002	2	36.15	-86.77	36.9	2.74	501	9.2	148.17	NASHVILLE THERMAL TRANSFER CORP
47037	4961	10100601	4703700050	007	7	36.15	-86.77	39.6	1.52	436	18.3	0.46	NASHVILLE THERMAL TRANSFER CORP
47037	2711	10300602	4703700058	001	1	36.15	-86.76	19.8	1.22	464	3.5	0.52	THE TENNESSEAN
47037	3449	10300602	4703700059	005	5	36.17	-86.87	7.3	0.48	436	35.4	0.29	TENN DEPT OF TRANSPORTATION

Davidson County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47037	5171	40400153	4703700062	006	6	36.17	-86.87	6.1	0.09	294	17.3	2.90	CUMBERLAND TERMINALS
47037	5171	40400250	4703700065	008	8	36.16	-86.85	4.6	0.15	294	12.4	8.85	MOTIVA ENTERPRISE
47037	5171	40600145	4703700066	010	10	36.16	-86.86	-9.0	-9.00	-9	-9.0	7.99	WILLIAMS ENERGY VENTURES
47037	2295	40201001	4703700074	001	1	36.09	-86.75	8.5	1.46	316	3.7	0.04	OUIMET CORP
47037	2295	40201101	4703700074	002	2	36.09	-86.75	0.6	0.40	305	2.0	0.01	OUIMET CORP
47037	5171	30500206	4703700076	002	2	36.20	-86.81	9.1	0.61	561	1.5	0.81	MARATHON ASHLAND PETROLEUM CO.
47037	3229	30501401	4703700080	002	2	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.38	GAF CORPORATION
47037	3229	30501401	4703700080	005	5	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.38	GAF CORPORATION
47037	3229	30501401	4703700080	008	8	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.38	GAF CORPORATION
47037	3229	30501401	4703700080	011	11	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.38	GAF CORPORATION
47037	3229	30501401	4703700080	014	14	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.35	GAF CORPORATION
47037	3229	30501401	4703700080	017	17	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.38	GAF CORPORATION
47037	3229	30501401	4703700080	020	20	36.13	-86.74	-9.0	-9.00	-9	-9.0	0.38	GAF CORPORATION
47037	2131	10200206	4703700081	001	1	36.16	-86.78	30.5	1.22	422	10.9	24.35	UNITED STATES TOBACCO MFG LP
47037	2131	30203399	4703700081	010	10	36.16	-86.78	14.6	1.22	344	11.9	0.55	UNITED STATES TOBACCO MFG LP
47037	2131	20200102	4703700081	011	11	36.16	-86.78	4.6	0.15	822	55.6	0.02	UNITED STATES TOBACCO MFG LP
47037	2131	20200401	4703700081	012	12	36.16	-86.78	4.6	0.25	616	95.3	0.03	UNITED STATES TOBACCO MFG LP
47037	2951	30500201	4703700082	001	1	36.29	-86.69	8.8	1.30	453	17.5	13.15	ROGERS GROUP INC
47037	2752	40500597	4703700083	002	2	36.14	-86.70	9.1	0.33	444	17.6	0.31	LITHOGRAPHICS INC
47037	2752	39000689	4703700092	001	1	36.22	-86.77	9.1	1.11	450	3.9	20.19	QUEBECOR WORLD/RETAIL PRINTING
47037	2673	10200603	4703700097	004	4	36.17	-86.79	12.8	0.46	466	2.9	1.50	WERTHAN PACKAGING, INC.
47037	2673	10200603	4703700097	005	5	36.17	-86.79	12.8	0.46	466	2.9	1.50	WERTHAN PACKAGING, INC.
47037	2023	39000689	4703700103	001	1	36.02	-86.59	21.3	1.22	366	15.4	1.18	LEVEL VALLEY CREAMERY
47037	2023	10300602	4703700103	002	2	36.02	-86.59	9.1	0.71	505	13.8	6.13	LEVEL VALLEY CREAMERY
47037	2051	30203201	4703700107	001	1	36.12	-86.78	9.1	0.30	405	8.3	0.78	EARTHGRAINS CO. OF NASHVILLE
47037	2051	30203201	4703700107	002	2	36.12	-86.78	8.8	0.30	444	1.6	0.23	EARTHGRAINS CO. OF NASHVILLE
47037	2038	10300603	4703700109	002	2	36.16	-86.74	13.1	0.51	311	2.5	0.02	EQUITY GROUP-TENNESSEE DIVISION
47037	2038	10300602	4703700109	004	4	36.16	-86.74	-9.0	-9.00	-9	-9.0	0.16	EQUITY GROUP-TENNESSEE DIVISION
47037	2038	10300603	4703700109	005	5	36.16	-86.74	9.8	0.51	603	7.1	0.32	EQUITY GROUP-TENNESSEE DIVISION
47037	3711	40202501	4703700120	031	31	36.27	-86.68	9.8	0.28	355	7.7	0.08	PETERBILT MOTORS COMPANY
47037	3711	40202501	4703700120	131	101	36.27	-86.68	12.5	1.07	294	23.8	0.07	PETERBILT MOTORS COMPANY
47037	3711	40202501	4703700120	731	731	36.27	-86.68	10.4	0.76	339	16.6	0.30	PETERBILT MOTORS COMPANY
47037	2752	40500401	4703700124	001	1	36.18	-86.87	9.1	0.38	408	4.1	1.35	RICH PRINTING CO. INC
47037	2752	40500401	4703700124	002	2	36.18	-86.87	9.1	0.38	408	4.1	1.12	RICH PRINTING CO. INC
47037	2752	40500401	4703700124	002	2	36.18	-86.87	9.1	0.38	408	4.1	0.39	RICH PRINTING CO. INC
47037	3496	40200210	4703700126	001	1	36.18	-86.83	10.7	0.61	339	7.8	0.67	NASHVILLE WIRE PRODUCTS
47037	2434	30790013	4703700127	003	3	36.09	-86.74	5.2	0.25	1061	4.0	0.00	UNITED CABINET CORP
47037	3471	10300602	4703700137	001	1	36.15	-86.75	7.9	0.51	422	20.4	0.58	NASHVILLE WIRE PRODUCTS-PLATING DIVISION
47037	3471	39000199	4703700137	002	2	36.15	-86.75	6.7	0.10	344	16.1	0.01	NASHVILLE WIRE PRODUCTS-PLATING DIVISION
47037	3559	40200801	4703700139	002	2	36.01	-86.60	5.5	0.24	505	11.7	0.98	HENNESSY INDUSTRIES INC
47037	3585	10200602	4703700141	008	8	36.02	-86.60	10.7	1.14	533	10.5	0.13	WHIRLPOOL CORP
47037	3585	10200602	4703700141	009	9	36.02	-86.60	10.7	0.51	475	7.7	0.20	WHIRLPOOL CORP
47037	2299	33000198	4703700142	001	1	36.16	-86.75	7.6	1.31	333	3.4	0.96	LEGGETT & PLATT INC-NOVA BOND DIV
47037	2299	33000198	4703700142	002	2	36.16	-86.75	7.6	1.31	333	2.7	0.96	LEGGETT & PLATT INC-NOVA BOND DIV
47037	3085	20200102	4703700143	002	2	36.13	-86.73	4.6	0.25	672	142.3	0.55	ALADDIN IND INC
47037	5051	10200603	4703700146	002	2	36.18	-86.77	13.1	0.41	533	9.8	1.49	CARGIL STEEL & WIRE
47037	8061	10300602	4703700163	001	1	36.25	-86.68	5.2	1.00	436	11.8	0.55	TENNESSEE CHRISTIAN MEDICAL CENTER
47037	1611	30500205	4703700164	001	1	36.12	-86.91	11.0	1.22	436	16.0	32.41	LOJAC ENTERPRISE INC

Davidson County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47037	2751	40500199	4703700189	001	2	36.19	-86.78	-9.0	-9.00	-9	-9.0	0.02	AMBROSE PRINTING CO
47037	2891	40202501	4703700186	001	1	36.22	-86.78	7.3	0.30	294	2.1	0.13	SERVITECH INDUSTRIES
47037	2891	40202533	4703700186	003	3	36.22	-86.78	7.3	0.76	294	4.1	0.08	SERVITECH INDUSTRIES
47037	4953	50100410	4703700189	001	1	36.17	-86.84	8.5	0.30	1144	15.2	31.85	METRO - BORDEAUX LANDFILL
47037	5171	30500206	4703700191	001	1	36.16	-86.73	6.1	0.46	561	8.8	0.01	ERGON INC
47037	5171	10200501	4703700191	001	1	36.16	-86.73	6.1	0.46	561	8.8	0.01	ERGON INC
47037	2297	10200602	4703700196	006	6	36.26	-86.65	38.1	0.91	589	3.7	5.71	REEMAY INC
47037	2751	40500199	4703700197	002	2	36.11	-86.75	6.7	0.17	322	8.1	0.02	MAGNETIC TICKET & LABEL CORP.
47037	8062	10300602	4703700198	001	1	36.17	-86.60	5.5	0.66	478	12.2	3.16	SUMMIT MEDICAL CENTER
47037	8062	10300501	4703700198	001	1	36.17	-86.60	5.5	0.66	478	12.2	0.00	SUMMIT MEDICAL CENTER
47037	8062	10300603	4703700198	002	2	36.17	-86.60	36.9	0.61	478	1.8	0.12	SUMMIT MEDICAL CENTER
47037	2951	30500205	4703700204	001	1	36.09	-86.67	13.7	1.15	343	18.2	6.40	HMA PRODUCTS, L.L.C.
47037	2273	33000399	4703700207	001	1	36.17	-86.87	8.8	0.58	339	12.2	1.11	SPRINGS INDUSTRIES, INC.
47037	2273	10300602	4703700207	004	4	36.17	-86.87	10.7	0.94	507	13.4	6.46	SPRINGS INDUSTRIES, INC.
47037	1611	30500205	4703700208	001	1	36.18	-86.61	9.4	1.16	394	26.1	8.01	LOJAC ENTERPRISES, INC.
47037	5013	10300208	4703700212	001	1	36.14	-86.74	16.6	0.41	422	6.7	0.02	CUSTOM TRUCK SALES
47037	2951	30500240	4703700220	001	1	36.22	-86.80	12.2	0.91	372	19.8	26.76	HMA CONTRACTORS, L.L.C.
47037	2262	40500101	4703700222	001	1	36.28	-86.69	12.8	0.30	366	25.3	0.02	PRESTIGE PRINTING CO
47037	1611	30500205	4703700234	001	1	36.16	-86.87	10.4	1.12	450	14.4	2.97	ROGERS GROUP INC. - REOSTONE ASPHALT
47037	2026	10300602	4703700236	001	1	36.14	-86.74	18.3	0.48	489	12.8	1.52	PURITY DAIRIES INC.
47037	2297	40201001	4703700240	001	1	36.28	-86.69	12.2	1.60	721	11.4	7.18	PRECISION FABRICS GROUP INC
47037	8069	10100501	4703700241	001	1	36.14	-86.80	6.1	0.30	783	22.9	0.10	VANDERBILT UNIVERSITY MEDICAL CENTER
47037	8062	10300602	4703700244	001	1	36.15	-86.80	10.4	0.51	478	11.6	9.10	CENTENNIAL MEDICAL CENTER
47037	4941	20100102	4703700268	001	1	36.12	-86.69	6.1	0.36	770	70.9	0.30	METRO WATER - K.R. HARRINGTON PLANT
Total												4878.33	

Rutherford County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47149	3011	10200602	0057	005	S05-1	36.00	-86.60	10.7	1.07	533	13.1	14.54	BRIDGESTONE/FIRESTONE, INC.
47149	3011	10200602	0057	005	S05-2	36.00	-86.60	10.7	1.07	533	13.1	14.54	BRIDGESTONE/FIRESTONE, INC.
47149	3011	10200602	0057	005	S05-3	36.00	-86.60	10.7	1.07	533	13.1	14.54	BRIDGESTONE/FIRESTONE, INC.
47149	8221	10300207	0064	001	1	35.86	-86.37	17.7	0.76	577	11.3	9.02	MIDDLE TN STATE UNIV
47149	8221	10300501	0064	001	1	35.86	-86.37	17.7	0.76	577	11.3	0.30	MIDDLE TN STATE UNIV
47149	8221	10300602	0064	001	1	35.86	-86.37	17.7	0.76	577	11.3	2.10	MIDDLE TN STATE UNIV
47149	3732	31401518	0148	005	ABH	35.91	-86.47	3.0	0.15	294	0.5	0.26	MARINE GROUP, LLC
47149	3625	40201001	0153	002	002	35.85	-86.38	-9.0	-9.00	-9	-9.0	1.11	SQUARE D COMPANY
47149	3711	10200602	0155	01	SOB3	35.95	-86.49	39.6	1.22	456	20.7	10.20	NISSAN NORTH AMERICA, INC.
47149	3711	10200204	0155	01	SOB3	35.95	-86.49	39.6	1.22	456	20.7	37.00	NISSAN NORTH AMERICA, INC.
47149	3711	20400401	0155	63	TC14	35.95	-86.49	12.2	1.07	-9	-9.0	14.40	NISSAN NORTH AMERICA, INC.
47149	3711	39000699	0155	65	NG65	35.95	-86.49	-9.0	-9.00	-9	-9.0	45.60	NISSAN NORTH AMERICA, INC.
47149	3711	31499999	0155	87	TC23	35.95	-86.49	-9.0	-9.00	-9	-9.0	2.00	NISSAN NORTH AMERICA, INC.
47149	2834	39000689	0191	002	02	36.00	-86.50	15.2	0.56	298	4.8	0.27	CUMBERLAND SWAN
Total												165.88	

Sumner County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47165	2522	40200510	0002	001	02&07	36.38	-86.42	10.7	1.07	294	9.1	0.33	G.F. OFFICE FURNITURE, LTD.
47165	2522	40200510	0002	002	03	36.38	-86.42	10.7	0.46	293	6.1	1.13	G.F. OFFICE FURNITURE, LTD.

Sumner County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47165	3621	40200801	0018	009	7	36.30	-86.61	13.4	0.61	359	3.2	0.51	GENERAL ELECTRIC CO
47165	3621	40201001	0018	009	7	36.30	-86.61	13.4	0.61	359	3.2	0.48	GENERAL ELECTRIC CO
47165	3621	30999999	0018	011	9	36.31	-86.61	19.8	0.30	344	22.6	4.62	GENERAL ELECTRIC CO
47165	3621	39000699	0018	011	9	36.31	-86.61	19.8	0.30	344	22.6	4.36	GENERAL ELECTRIC CO
47165	2752	10200602	0125	001	B1	36.38	-86.42	12.2	0.94	478	15.5	1.11	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	2752	10200602	0125	013	B2	36.38	-86.42	12.2	0.94	478	15.5	1.11	R.R. DONNELLEY & SONS CO.,GALLATIN DIV.
47165	3313	30400701	0129	001	EP-1A	36.37	-86.42	28.3	1.52	339	10.3	850.37	HOEGANAES CORPORATION
47165	3313	30400701	0129	001	EP-1	36.37	-86.42	28.7	2.44	339	13.8	600.32	HOEGANAES CORPORATION
47165	3313	30400799	0129	002	EP-2	36.37	-86.42	18.3	0.66	348	19.6	2.51	HOEGANAES CORPORATION
47165	3313	30400799	0129	002	EP-2A	36.37	-86.42	28.3	0.81	348	20.8	2.51	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-4	36.37	-86.42	19.2	0.61	383	6.7	1.02	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-43	36.37	-86.42	18.3	1.52	311	2.2	1.02	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-36	36.37	-86.42	20.7	1.37	294	2.9	1.02	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-18	36.37	-86.42	20.7	0.81	305	18.1	1.02	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-30	36.37	-86.42	20.7	0.81	305	18.1	1.02	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-32	36.37	-86.42	20.7	0.81	305	2.5	1.02	HOEGANAES CORPORATION
47165	3313	30400799	0129	004	EP-10	36.37	-86.42	20.7	1.01	305	14.7	1.02	HOEGANAES CORPORATION
47165	4953	10200501	0135	001	001	36.44	-86.45	-9.0	-9.00	-9	-9.0	0.05	RESOURCE AUTHORITY
47165	4953	10301202	0135	001	001	36.44	-86.45	-9.0	-9.00	-9	-9.0	66.46	RESOURCE AUTHORITY
47165	2731	40500199	0164	001	S01-1	36.50	-86.52	10.7	0.49	408	12.5	0.97	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	2731	40500199	0164	001	S01-2	36.50	-86.52	10.7	0.49	408	12.5	0.97	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	2731	49000203	0164	002	S02-2	36.50	-86.52	10.7	0.61	533	10.4	3.78	HERTIAGE GRAPHICS,LLC, MPG, L.P.
47165	2731	49000203	0164	002	S02-1	36.50	-86.52	10.7	0.61	533	14.6	3.78	HERTIAGE GRAPHICS,LLC, MPG, L.P.
Total												1552.51	

Williamson County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47187	3634	50300102	0005	001	1	35.91	-86.87	11.0	0.46	505	3.4	3.32	LASKO METAL PRODUCTS, INC.
47187	2679	10200602	0006	002	B-2	35.90	-86.87	9.1	0.51	499	8.0	0.77	CPS CORPORATION
47187	2679	10200602	0006	002	B-1	35.90	-86.87	6.7	0.61	478	5.7	1.15	CPS CORPORATION
47187	2679	30390013	0006	003	I-1	35.90	-86.87	15.2	0.91	478	2.5	0.43	CPS CORPORATION
Total												5.67	

Wilson County					Release			Stk Ht	Diam	Temp	Vel	Ems	
FIPS	SIC	SCC	Facility ID	Unit ID	Point ID	Latitude	Longitude	(m)	(m)	(Deg K)	(m/s)	(tpy)	Facility Name
47189	3714	10200603	0003	004	004	36.23	-86.25	9.1	0.61	450	3.2	2.40	TRW, INC.- ROSS GEAR DIV.
47189	3714	10500106	0003	020	020	36.23	-86.25	9.1	0.30	450	3.2	0.01	TRW, INC.- ROSS GEAR DIV.
47189	3479	40500201	0103	001	1	36.19	-86.52	9.1	0.85	574	14.3	1.15	JOHN DEAL COMPANY
47189	3479	39000699	0103	001	1	36.19	-86.52	9.1	0.85	574	14.3	1.09	JOHN DEAL COMPANY
Total												4.65	

APPENDIX B

FIVE-COUNTY POINT SOURCE EMISSIONS

BY

SOURCE CLASSIFICATION CODE

Point Source Emissions Summary for Davidson County (FIPS 47037) by Source Category - EPA Preliminary NEI 2002 Data																	
				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
10100501	External Combustion	Electric Generation	Distillate Oil	0.0053	0.0011	0.0003	0.0210	0.0043	0.0011	0.0097	0.0020	0.0005	0.0122	0.0025	0.0006	0.0448	0.0092	0.0023
10100601	External Combustion	Electric Generation	Natural Gas	0.0005	0.0016	0.0013	0.0006	0.0022	0.0017	0.0006	0.0019	0.0015	0.0008	0.0026	0.0020	0.0015	0.0052	0.0040
10200202	External Combustion	Industrial	Bituminous/Sub bituminous Coal	4.1529	0.0195	0.1327	2.0028	0.0174	0.0000	1.8971	0.0165	0.0000	1.8445	0.0161	0.0000	1.8114	0.0158	0.0000
10200206	External Combustion	Industrial	Bituminous/Sub bituminous Coal	0.0576	0.0079	0.0667	0.0514	0.0070	0.0595	0.0487	0.0066	0.0564	0.0473	0.0065	0.0548	0.0465	0.0063	0.0538
10200501	External Combustion	Industrial	Distillate Oil	0.0006	0.0000	0.0001	0.0006	0.0000	0.0001	0.0006	0.0000	0.0001	0.0006	0.0000	0.0001	0.0006	0.0000	0.0001
10200601	External Combustion	Industrial	Natural Gas	0.5628	0.0014	0.0409	0.4455	0.0014	0.0000	0.4450	0.0014	0.0000	0.4593	0.0015	0.0000	0.4635	0.0015	0.0000
10200602	External Combustion	Industrial	Natural Gas	0.2986	0.0076	0.1059	0.3073	0.0078	0.0554	0.3070	0.0078	0.0554	0.3168	0.0081	0.0571	0.3197	0.0082	0.0577
10200603	External Combustion	Industrial	Natural Gas	0.0274	0.0011	0.0195	0.0282	0.0011	0.0201	0.0282	0.0011	0.0200	0.0291	0.0012	0.0207	0.0293	0.0012	0.0209
10200799	External Combustion	Industrial	Process Gas	0.0000	0.0199	0.0000	0.0000	0.0197	0.0000	0.0000	0.0195	0.0000	0.0000	0.0197	0.0000	0.0000	0.0201	0.0000
10200903	External Combustion	Industrial	Wood/Bark Waste	0.0086	0.0015	0.1812	0.0091	0.0016	0.1911	0.0093	0.0017	0.1963	0.0099	0.0018	0.2078	0.0105	0.0019	0.2219
10200906	External Combustion	Industrial	Wood/Bark Waste	0.0106	0.0018	0.2176	0.0112	0.0019	0.2296	0.0115	0.0020	0.2358	0.0122	0.0021	0.2496	0.0130	0.0022	0.2665
10300207	External Combustion	Commercial/Institutional	Bituminous/Sub bituminous Coal	0.0028	0.0000	0.0022	0.0029	0.0000	0.0023	0.0030	0.0000	0.0024	0.0030	0.0000	0.0024	0.0030	0.0000	0.0024
10300208	External Combustion	Commercial/Institutional	Bituminous/Sub bituminous Coal	0.0022	0.0000	0.0001	0.0023	0.0000	0.0001	0.0024	0.0000	0.0001	0.0024	0.0000	0.0001	0.0024	0.0000	0.0001
10300209	External Combustion	Commercial/Institutional	Bituminous/Sub bituminous Coal	1.5368	0.0061	0.3952	1.6033	0.0064	0.4122	1.6238	0.0065	0.4175	1.6157	0.0064	0.4154	1.6170	0.0064	0.4158
10300501	External Combustion	Commercial/Institutional	Distillate Oil	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000
10300503	External Combustion	Commercial/Institutional	Distillate Oil	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001
10300601	External Combustion	Commercial/Institutional	Natural Gas	0.0078	0.0001	0.0019	0.0092	0.0001	0.0023	0.0100	0.0001	0.0025	0.0108	0.0001	0.0027	0.0113	0.0001	0.0028
10300602	External Combustion	Commercial/Institutional	Natural Gas	0.2759	0.0355	0.3293	0.3272	0.0422	0.3906	0.3559	0.0458	0.4248	0.3816	0.0492	0.4556	0.4008	0.0516	0.4784
10300603	External Combustion	Commercial/Institutional	Natural Gas	0.0375	0.0020	0.0266	0.0445	0.0023	0.0316	0.0483	0.0025	0.0344	0.0518	0.0027	0.0368	0.0544	0.0029	0.0387
10301201	External Combustion	Commercial/Institutional	Solid Waste	1.2969	0.0376	0.4059	1.3163	0.0382	0.4120	1.3241	0.0384	0.4145	1.3241	0.0384	0.4145	1.3163	0.0382	0.4120
10500106	External Combustion	Space Heaters	Industrial	0.0405	0.0019	0.0085	0.0417	0.0019	0.0087	0.0417	0.0019	0.0087	0.0430	0.0020	0.0090	0.0434	0.0020	0.0091
20100102	Internal Combustion	Electric Generation	Distillate Oil (Diesel)	0.0054	0.0002	0.0008	0.0213	0.0008	0.0032	0.0098	0.0003	0.0015	0.0124	0.0004	0.0019	0.0455	0.0016	0.0069
20100107	Internal Combustion	Electric Generation	Distillate Oil (Diesel)	0.0031	0.0002	0.0010	0.0121	0.0009	0.0040	0.0056	0.0004	0.0018	0.0071	0.0005	0.0023	0.0259	0.0018	0.0086
20200102	Internal Combustion	Industrial	Distillate Oil (Diesel)	0.0032	0.0007	0.0016	0.0032	0.0007	0.0015	0.0031	0.0007	0.0015	0.0032	0.0007	0.0015	0.0033	0.0007	0.0016
20200107	Internal Combustion	Industrial	Distillate Oil (Diesel)	0.0035	0.0008	0.0006	0.0034	0.0008	0.0006	0.0033	0.0007	0.0006	0.0034	0.0008	0.0006	0.0035	0.0008	0.0006
20200401	Internal Comb	Industrial	Large Bore Eng	0.0003	0.0000	0.0001	0.0003	0.0000	0.0001	0.0003	0.0000	0.0001	0.0003	0.0000	0.0001	0.0003	0.0000	0.0001

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
20300101	Internal Combustion	Commercial/Institutional	Distillate Oil (Diesel)	0.0003	0.0000	0.0001	0.0003	0.0000	0.0001	0.0003	0.0000	0.0001	0.0003	0.0000	0.0001	0.0003	0.0000	0.0001
20300107	Internal Combustion	Commercial/Institutional	Distillate Oil (Diesel)	0.0002	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000
30101401	Industrial Processe	Chemical Manufacturing	Paint Manufacture	0.0000	0.0769	0.0000	0.0000	0.0605	0.0000	0.0000	0.0702	0.0000	0.0000	0.0781	0.0000	0.0000	0.0890	0.0000
30101403	Industrial Processe	Chemical Manufacturing	Paint Manufacture	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000
30101520	Industrial Processe	Chemical Manufacturing	Varnish Manufacturing	0.0000	0.0119	0.0000	0.0000	0.0144	0.0000	0.0000	0.0167	0.0000	0.0000	0.0186	0.0000	0.0000	0.0212	0.0000
30101811	Industrial Processe	Chemical Manufacturing	Plastics Production	0.0000	0.0016	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000
30101837	Industrial Processe	Chemical Manufacturing	Plastics Production	0.0000	0.2325	0.0000	0.0000	0.0084	0.0000	0.0000	0.0097	0.0000	0.0000	0.0109	0.0000	0.0000	0.0128	0.0000
30101866	Industrial Processe	Chemical Manufacturing	Plastics Production	0.0000	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
30102015	Industrial Processe	Chemical Manufacturing	Printing Ink Manufacture	0.0000	0.0042	0.0000	0.0000	0.0051	0.0000	0.0000	0.0059	0.0000	0.0000	0.0066	0.0000	0.0000	0.0075	0.0000
30102099	Industrial Processe	Chemical Manufacturing	Printing Ink Manufacture	0.0000	0.0012	0.0000	0.0000	0.0009	0.0000	0.0000	0.0011	0.0000	0.0000	0.0012	0.0000	0.0000	0.0014	0.0000
30103102	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	0.0000	0.9914	10.2595	0.0000	0.0642	0.0000	0.0000	0.0656	0.0000	0.0000	0.0693	0.0000	0.0000	0.0804	0.0000
30103103	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	0.0000	0.0624	0.3734	0.0000	0.0201	0.0000	0.0000	0.0205	0.0000	0.0000	0.0216	0.0000	0.0000	0.0251	0.0000
30103104	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	0.0000	0.0267	0.0000	0.0000	0.0086	0.0000	0.0000	0.0088	0.0000	0.0000	0.0093	0.0000	0.0000	0.0107	0.0000
30103180	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	0.0000	0.0105	0.0000	0.0000	0.0113	0.0000	0.0000	0.0115	0.0000	0.0000	0.0121	0.0000	0.0000	0.0141	0.0000
30103199	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	0.0000	0.0031	0.0000	0.0000	0.0010	0.0000	0.0000	0.0010	0.0000	0.0000	0.0011	0.0000	0.0000	0.0012	0.0000
30182003	Industrial Processe	Chemical Manufacturing	Wastewater Treatment	0.0000	0.7561	0.0000	0.0000	0.8693	0.0000	0.0000	0.9539	0.0000	0.0000	1.0429	0.0000	0.0000	1.2103	0.0000
30188801	Industrial Processe	Chemical Manufacturing	Fugitive Emissions	0.0000	0.1629	0.0000	0.0000	0.0056	0.0000	0.0000	0.0062	0.0000	0.0000	0.0067	0.0000	0.0000	0.0078	0.0000
30190004	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	0.0262	0.0086	0.0472	0.0251	0.0082	0.0000	0.0243	0.0079	0.0000	0.0239	0.0078	0.0000	0.0235	0.0077	0.0000
30190013	Industrial Processes	Chemical Manufacturing	Fuel Fired Equipment	0.0096	0.0002	0.0024	0.0091	0.0002	0.0000	0.0087	0.0002	0.0000	0.0085	0.0002	0.0000	0.0083	0.0002	0.0000
30203201	Industrial Processe	Food and Agriculture	Bakeries	0.0033	0.1115	0.0028	0.0034	0.1156	0.0029	0.0036	0.1198	0.0030	0.0037	0.1234	0.0031	0.0038	0.1284	0.0032
30203399	Industrial Processe	Food and Agriculture	Tobacco Processing	0.0018	0.0371	0.0015	0.0018	0.0371	0.0015	0.0018	0.0375	0.0015	0.0020	0.0402	0.0016	0.0022	0.0457	0.0019
30299999	Industrial Processe	Food and Agriculture	Other Not Specified	0.0079	0.0003	0.0058	0.0082	0.0003	0.0060	0.0085	0.0003	0.0062	0.0088	0.0003	0.0064	0.0092	0.0003	0.0067
30400301	Industrial Processe	Secondary Metal Production	Grey Iron Foundries	0.0011	0.0021	0.0133	0.0013	0.0024	0.0154	0.0015	0.0027	0.0173	0.0016	0.0029	0.0191	0.0019	0.0034	0.0220
30500201	Industrial Processe	Mineral Products	Asphalt Concrete	0.0281	0.0243	0.1581	0.0305	0.0264	0.1716	0.0334	0.0290	0.1883	0.0358	0.0310	0.2016	0.0390	0.0338	0.2199

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
30500205	Industrial Processe	Mineral Products	Asphalt Concrete	0.0282	0.0406	0.1364	0.0307	0.0441	0.1481	0.0337	0.0484	0.1625	0.0360	0.0518	0.1740	0.0393	0.0565	0.1897
30500206	Industrial Processes	Mineral Products	Asphalt Concrete	0.0089	0.0004	0.0022	0.0095	0.0004	0.0024	0.0095	0.0004	0.0024	0.0097	0.0004	0.0025	0.0100	0.0004	0.0025
30500240	Industrial Processe	Mineral Products	Asphalt Concrete	0.0054	0.0037	0.0733	0.0059	0.0040	0.0796	0.0064	0.0044	0.0873	0.0069	0.0047	0.0935	0.0075	0.0051	0.1020
30501401	Industrial Processe	Mineral Products	Glass Manufacture	0.0362	0.0021	0.0072	0.0417	0.0024	0.0083	0.0460	0.0026	0.0092	0.0495	0.0028	0.0099	0.0557	0.0032	0.0111
30501403	Industrial Processe	Mineral Products	Glass Manufacture	4.6552	0.0455	0.0432	5.3618	0.0524	0.0497	5.9116	0.0578	0.0548	6.3678	0.0622	0.0591	7.1639	0.0700	0.0664
30501407	Industrial Processe	Mineral Products	Glass Manufacture	0.0272	0.0024	0.0228	0.0313	0.0027	0.0263	0.0345	0.0030	0.0289	0.0372	0.0032	0.0312	0.0418	0.0036	0.0351
30501801	Industrial Processe	Mineral Products	Perlite Manufacturing	0.0026	0.0001	0.0022	0.0027	0.0001	0.0023	0.0029	0.0002	0.0024	0.0030	0.0002	0.0025	0.0033	0.0002	0.0028
30590003	Industrial Processes	Mineral Products	Fuel Fired Equipment	0.0031	0.0001	0.0008	0.0030	0.0001	0.0007	0.0030	0.0001	0.0007	0.0030	0.0001	0.0007	0.0029	0.0001	0.0007
30800101	Industrial Processe	Rubber and Miscellaneous Pl	Tire Manufacture	0.0000	0.0017	0.0000	0.0000	0.0006	0.0000	0.0000	0.0007	0.0000	0.0000	0.0008	0.0000	0.0000	0.0008	0.0000
30800702	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	0.0000	0.0018	0.0000	0.0000	0.0006	0.0000	0.0000	0.0007	0.0000	0.0000	0.0008	0.0000	0.0000	0.0009	0.0000
30800703	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	0.0000	0.0005	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0003	0.0000
30800704	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	0.0000	0.0104	0.0000	0.0000	0.0037	0.0000	0.0000	0.0042	0.0000	0.0000	0.0046	0.0000	0.0000	0.0052	0.0000
30800722	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	0.0000	0.0196	0.0000	0.0000	0.0070	0.0000	0.0000	0.0079	0.0000	0.0000	0.0087	0.0000	0.0000	0.0099	0.0000
30800730	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	0.0000	0.1274	0.0000	0.0000	0.1512	0.0000	0.0000	0.1718	0.0000	0.0000	0.1890	0.0000	0.0000	0.2137	0.0000
30801002	Industrial Processe	Rubber and Miscellaneous Pl	Plastic Products Manufacturing	0.0000	0.0100	0.0000	0.0000	0.0118	0.0000	0.0000	0.0134	0.0000	0.0000	0.0148	0.0000	0.0000	0.0167	0.0000
30899999	Industrial Processe	Rubber and Miscellaneous Pl	Other Not Specified	0.0000	0.0139	0.0000	0.0000	0.0163	0.0000	0.0000	0.0185	0.0000	0.0000	0.0202	0.0000	0.0000	0.0227	0.0000
30988801	Industrial Processe	Fabricated Metal Products	Fugitive Emissions	0.0000	0.0008	0.0000	0.0000	0.0009	0.0000	0.0000	0.0011	0.0000	0.0000	0.0012	0.0000	0.0000	0.0013	0.0000
31401101	Industrial Processe	Transportation Equipment	Auto Body Shredding	0.0000	0.0002	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000
32099999	Industrial Processe	Leather and Leather Product	Other Not Classified	0.0000	0.0489	0.0000	0.0000	0.0548	0.0000	0.0000	0.0604	0.0000	0.0000	0.0660	0.0000	0.0000	0.0767	0.0000
33000198	Industrial Processe	Textile Products	Miscellaneous	0.0062	0.0022	0.0053	0.0066	0.0023	0.0055	0.0068	0.0024	0.0057	0.0073	0.0026	0.0061	0.0083	0.0029	0.0070
33000399	Industrial Processe	Textile Products	Carpet Operations	0.0036	0.0037	0.0030	0.0039	0.0040	0.0033	0.0038	0.0038	0.0032	0.0040	0.0041	0.0034	0.0047	0.0048	0.0040
39000199	Industrial Processe	In-process Fuel Use	Anthracite Coal	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
39000689	Industrial Processe	In-process Fuel Use	Natural Gas	0.0842	0.0043	0.0878	0.0867	0.0044	0.0903	0.0866	0.0044	0.0902	0.0894	0.0046	0.0931	0.0902	0.0046	0.0940
40100104	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Dry Cleaning	0.0000	0.0171	0.0000	0.0000	0.0053	0.0000	0.0000	0.0054	0.0000	0.0000	0.0056	0.0000	0.0000	0.0062	0.0000
40100205	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	0.0000	0.0178	0.0000	0.0000	0.0076	0.0000	0.0000	0.0084	0.0000	0.0000	0.0092	0.0000	0.0000	0.0105	0.0000
40100252	Pet/Sol Evap	Org Solvent Evap	Degreasing	0.0000	0.0049	0.0000	0.0000	0.0021	0.0000	0.0000	0.0023	0.0000	0.0000	0.0025	0.0000	0.0000	0.0029	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
40100398	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	0.0000	0.0006	0.0000	0.0000	0.0007	0.0000	0.0000	0.0008	0.0000	0.0000	0.0008	0.0000	0.0000	0.0010	0.0000
40188801	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Fugitive Emissions	0.0000	0.2013	0.0000	0.0000	0.2330	0.0000	0.0000	0.2575	0.0000	0.0000	0.2808	0.0000	0.0000	0.3215	0.0000
40200101	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	0.0000	0.0666	0.0000	0.0000	0.0170	0.0000	0.0000	0.0199	0.0000	0.0000	0.0225	0.0000	0.0000	0.0265	0.0000
40200110	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	0.0000	0.1660	0.0006	0.0000	0.0423	0.0008	0.0000	0.0496	0.0009	0.0000	0.0561	0.0010	0.0000	0.0659	0.0012
40200210	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	0.0022	0.0780	0.0018	0.0027	0.0946	0.0022	0.0031	0.1111	0.0026	0.0035	0.1256	0.0030	0.0041	0.1476	0.0035
40200310	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	0.0002	0.0125	0.0000	0.0003	0.0065	0.0000	0.0003	0.0077	0.0000	0.0004	0.0087	0.0000	0.0004	0.0102	0.0001
40200401	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	0.0000	0.0047	0.0000	0.0000	0.0012	0.0000	0.0000	0.0014	0.0000	0.0000	0.0016	0.0000	0.0000	0.0019	0.0000
40200410	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	0.0000	0.0370	0.0000	0.0000	0.0045	0.0000	0.0000	0.0053	0.0000	0.0000	0.0060	0.0000	0.0000	0.0070	0.0000
40200701	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	0.0000	0.0022	0.0000	0.0000	0.0006	0.0000	0.0000	0.0007	0.0000	0.0000	0.0008	0.0000	0.0000	0.0009	0.0000
40200801	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven - General	0.0032	0.0002	0.0027	0.0039	0.0002	0.0033	0.0045	0.0002	0.0038	0.0051	0.0003	0.0043	0.0060	0.0003	0.0051
40200810	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven - General	0.0000	0.0035	0.0000	0.0000	0.0042	0.0000	0.0000	0.0049	0.0000	0.0000	0.0056	0.0000	0.0000	0.0065	0.0000
40200901	Petroleum and Solvent Evaporation	Surface Coating Operations	Thinning Solvents - General	0.0000	0.0008	0.0000	0.0000	0.0009	0.0000	0.0000	0.0011	0.0000	0.0000	0.0012	0.0000	0.0000	0.0015	0.0000
40200998	Petroleum and Solvent Evaporation	Surface Coating Operations	Thinning Solvents - General	0.0000	0.0047	0.0000	0.0000	0.0012	0.0000	0.0000	0.0014	0.0000	0.0000	0.0016	0.0000	0.0000	0.0019	0.0000
40201001	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven Heater	0.0240	0.0207	0.0198	0.0247	0.0213	0.0204	0.0247	0.0213	0.0203	0.0255	0.0220	0.0210	0.0257	0.0222	0.0212
40201101	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating/Printing	0.0002	0.0053	0.0000	0.0003	0.0012	0.0000	0.0003	0.0013	0.0000	0.0003	0.0014	0.0000	0.0004	0.0016	0.0000
40201103	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating/Printing	0.0000	0.0759	0.0000	0.0000	0.0172	0.0000	0.0000	0.0185	0.0000	0.0000	0.0198	0.0000	0.0000	0.0225	0.0000
40201499	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	0.0000	0.1438	0.0000	0.0000	0.0163	0.0000	0.0000	0.0171	0.0000	0.0000	0.0187	0.0000	0.0000	0.0230	0.0000
40201901	Petroleum and Solvent Evaporation	Surface Coating Operations	Wood Furniture Surface Coating	0.0000	0.1941	0.0000	0.0000	0.1514	0.0000	0.0000	0.1564	0.0000	0.0000	0.1685	0.0000	0.0000	0.1991	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
40202201	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	0.0000	0.0057	0.0000	0.0000	0.0037	0.0000	0.0000	0.0042	0.0000	0.0000	0.0046	0.0000	0.0000	0.0053	0.0000
40202205	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	0.0000	0.0005	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0005	0.0000
40202299	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	0.0000	0.0039	0.0000	0.0000	0.0026	0.0000	0.0000	0.0029	0.0000	0.0000	0.0032	0.0000	0.0000	0.0036	0.0000
40202401	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	0.0000	0.0079	0.0000	0.0000	0.0034	0.0000	0.0000	0.0036	0.0000	0.0000	0.0038	0.0000	0.0000	0.0044	0.0000
40202402	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	0.0000	0.0256	0.0000	0.0000	0.0112	0.0000	0.0000	0.0116	0.0000	0.0000	0.0125	0.0000	0.0000	0.0142	0.0000
40202405	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	0.0000	0.0274	0.0000	0.0000	0.0120	0.0000	0.0000	0.0124	0.0000	0.0000	0.0134	0.0000	0.0000	0.0152	0.0000
40202406	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	0.0000	0.0116	0.0000	0.0000	0.0051	0.0000	0.0000	0.0052	0.0000	0.0000	0.0056	0.0000	0.0000	0.0064	0.0000
40202499	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000
40202501	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	0.0078	0.0497	0.0016	0.0103	0.0066	0.0021	0.0126	0.0080	0.0026	0.0145	0.0092	0.0030	0.0172	0.0109	0.0035
40202502	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	0.0000	0.0019	0.0000	0.0000	0.0002	0.0000	0.0000	0.0003	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000
40202521	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	0.0000	0.3389	0.0000	0.0000	0.4481	0.0000	0.0000	0.5483	0.0000	0.0000	0.6306	0.0000	0.0000	0.7470	0.0000
40202532	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	0.0000	0.0016	0.0000	0.0000	0.0002	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0004	0.0000
40202533	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	0.0011	0.0009	0.0002	0.0015	0.0001	0.0003	0.0018	0.0001	0.0004	0.0021	0.0002	0.0004	0.0025	0.0002	0.0005
40202537	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	0.0000	0.0175	0.0000	0.0000	0.0023	0.0000	0.0000	0.0028	0.0000	0.0000	0.0033	0.0000	0.0000	0.0039	0.0000
40202542	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	0.0000	0.0058	0.0000	0.0000	0.0076	0.0000	0.0000	0.0094	0.0000	0.0000	0.0108	0.0000	0.0000	0.0127	0.0000
40202545	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	0.0000	0.0282	0.0000	0.0000	0.0373	0.0000	0.0000	0.0457	0.0000	0.0000	0.0525	0.0000	0.0000	0.0622	0.0000
40204330	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating, Dip Coating	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0005	0.0000	0.0000	0.0005	0.0000
40204340	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating, Dip Coating	0.0000	0.0006	0.0000	0.0000	0.0007	0.0000	0.0000	0.0007	0.0000	0.0000	0.0008	0.0000	0.0000	0.0009	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
40204351	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating, Dip Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
40288801	Petroleum and Solvent Evaporation	Surface Coating Operations	Fugitive Emissions	0.0000	0.0203	0.0000	0.0000	0.0246	0.0000	0.0000	0.0289	0.0000	0.0000	0.0326	0.0000	0.0000	0.0383	0.0000
40288802	Petroleum and Solvent Evaporation	Surface Coating Operations	Fugitive Emissions	0.0000	0.0252	0.0000	0.0000	0.0305	0.0000	0.0000	0.0358	0.0000	0.0000	0.0405	0.0000	0.0000	0.0476	0.0000
40288824	Petroleum and Solvent Evaporation	Surface Coating Operations	Fugitive Emissions	0.0000	0.0025	0.0000	0.0000	0.0030	0.0000	0.0000	0.0035	0.0000	0.0000	0.0040	0.0000	0.0000	0.0047	0.0000
40299995	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous	0.0000	0.0027	0.0000	0.0000	0.0033	0.0000	0.0000	0.0039	0.0000	0.0000	0.0044	0.0000	0.0000	0.0052	0.0000
40299996	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous	0.0000	0.0004	0.0000	0.0000	0.0005	0.0000	0.0000	0.0005	0.0000	0.0000	0.0006	0.0000	0.0000	0.0007	0.0000
40299998	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous	0.0000	0.0239	0.0000	0.0000	0.0290	0.0000	0.0000	0.0340	0.0000	0.0000	0.0385	0.0000	0.0000	0.0452	0.0000
40301016	Petroleum and Solvent Evaporation	Petroleum Product Storage at Refineries	Fixed Roof Tanks (Varying Sizes)	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
40400103	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0000	0.0005	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000
40400108	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0000	0.0008	0.0000	0.0000	0.0008	0.0000	0.0000	0.0008	0.0000	0.0000	0.0008	0.0000	0.0000	0.0008	0.0000
40400109	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0000	0.0317	0.0000	0.0000	0.0301	0.0000	0.0000	0.0301	0.0000	0.0000	0.0301	0.0000	0.0000	0.0301	0.0000
40400140	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0000	0.0716	0.0000	0.0000	0.0681	0.0000	0.0000	0.0681	0.0000	0.0000	0.0681	0.0000	0.0000	0.0681	0.0000
40400150	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000
40400151	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0000	0.0163	0.0000	0.0200	0.1200	0.0500	0.0200	0.1200	0.0500	0.0200	0.1200	0.0500	0.0200	0.1200	0.0500
40400153	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0031	0.0156	0.0079	0.0031	0.0148	0.0079	0.0031	0.0148	0.0079	0.0031	0.0148	0.0079	0.0031	0.0148	0.0079
40400154	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0000	0.1134	0.0000	0.0000	0.1077	0.0000	0.0000	0.1077	0.0000	0.0000	0.1077	0.0000	0.0000	0.1077	0.0000
40400160	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0000	0.1445	0.0000	0.0000	0.1445	0.0000	0.0000	0.1445	0.0000	0.0000	0.1445	0.0000	0.0000	0.1445	0.0000
40400170	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Terminals	0.0000	0.0156	0.0000	0.0000	0.0156	0.0000	0.0000	0.0156	0.0000	0.0000	0.0156	0.0000	0.0000	0.0156	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd).	(tpd)
40400205	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	0.0000	0.0069	0.0000	0.0000	0.0066	0.0000	0.0000	0.0066	0.0000	0.0000	0.0067	0.0000	0.0000	0.0067	0.0000
40400250	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	0.0097	0.0787	0.0242	0.0097	0.0748	0.0242	0.0097	0.0748	0.0242	0.0097	0.0748	0.0242	0.0097	0.0748	0.0242
40400251	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	0.0000	0.0005	0.0000	0.0000	0.0005	0.0000	0.0000	0.0005	0.0000	0.0000	0.0005	0.0000	0.0000	0.0005	0.0000
40400260	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)	Bulk Plants	0.0000	0.0198	0.0000	0.0000	0.0198	0.0000	0.0000	0.0198	0.0000	0.0000	0.0198	0.0000	0.0000	0.0198	0.0000
40500101	Petroleum and Solvent Evaporation	Printing/Publishin g	Drying	0.0001	0.0713	0.0001	0.0001	0.0754	0.0001	0.0001	0.0780	0.0001	0.0001	0.0828	0.0001	0.0001	0.0917	0.0001
40500199	Petroleum and Solvent Evaporation	Printing/Publishin g	Drying	0.0002	0.0079	0.0001	0.0002	0.0084	0.0001	0.0002	0.0087	0.0001	0.0002	0.0092	0.0001	0.0002	0.0102	0.0001
40500201	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0014	0.0000	0.0000	0.0015	0.0000	0.0000	0.0015	0.0000	0.0000	0.0015	0.0000	0.0000	0.0017	0.0000
40500212	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0005	0.0000
40500305	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0068	0.0000	0.0000	0.0071	0.0000	0.0000	0.0074	0.0000	0.0000	0.0078	0.0000	0.0000	0.0087	0.0000
40500312	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0478	0.0000	0.0000	0.0332	0.0000	0.0000	0.0335	0.0000	0.0000	0.0352	0.0000	0.0000	0.0390	0.0000
40500401	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0010	0.0168	0.0078	0.0010	0.0172	0.0080	0.0010	0.0173	0.0081	0.0011	0.0183	0.0085	0.0012	0.0202	0.0094
40500412	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0016	0.0000	0.0000	0.0017	0.0000	0.0000	0.0017	0.0000	0.0000	0.0018	0.0000	0.0000	0.0020	0.0000
40500415	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0075	0.0000	0.0000	0.0077	0.0000	0.0000	0.0077	0.0000	0.0000	0.0081	0.0000	0.0000	0.0090	0.0000
40500417	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0058	0.0000	0.0000	0.0060	0.0000	0.0000	0.0060	0.0000	0.0000	0.0063	0.0000	0.0000	0.0070	0.0000
40500418	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
40500433	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0009	0.0000	0.0000	0.0009	0.0000	0.0000	0.0009	0.0000	0.0000	0.0010	0.0000	0.0000	0.0011	0.0000
40500597	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0008	0.0051	0.0008	0.0009	0.0054	0.0009	0.0009	0.0055	0.0009	0.0010	0.0059	0.0010	0.0011	0.0065	0.0011
40500598	Petroleum and Solvent Evaporation	Printing/Publishin g	General	0.0000	0.0007	0.0000	0.0000	0.0005	0.0000	0.0000	0.0005	0.0000	0.0000	0.0006	0.0000	0.0000	0.0006	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
40500599	Petroleum and Solvent Evaporation	Printing/Publishing	General	0.0000	0.0007	0.0000	0.0000	0.0005	0.0000	0.0000	0.0005	0.0000	0.0000	0.0006	0.0000	0.0000	0.0006	0.0000
40500802	Petroleum and Solvent Evaporation	Printing/Publishing	General	0.0000	0.0081	0.0000	0.0000	0.0085	0.0000	0.0000	0.0088	0.0000	0.0000	0.0093	0.0000	0.0000	0.0103	0.0000
40588801	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	0.0000	0.1729	0.0000	0.0000	0.1827	0.0000	0.0000	0.1890	0.0000	0.0000	0.2006	0.0000	0.0000	0.2221	0.0000
40588802	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	0.0000	0.2330	0.0000	0.0000	0.2461	0.0000	0.0000	0.2546	0.0000	0.0000	0.2702	0.0000	0.0000	0.2993	0.0000
40588803	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	0.0000	0.0228	0.0000	0.0000	0.0241	0.0000	0.0000	0.0249	0.0000	0.0000	0.0264	0.0000	0.0000	0.0293	0.0000
40588804	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	0.0029	0.0176	0.0000	0.0030	0.0186	0.0000	0.0031	0.0192	0.0000	0.0033	0.0204	0.0000	0.0037	0.0226	0.0000
40600141	Petroleum and Solvent Evaporation	Transportation and Marketing	Tank Cars and Trucks	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
40600145	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Tank Cars and Trucks	0.0020	0.0993	0.0219	0.0020	0.0944	0.0219	0.0020	0.0944	0.0219	0.0020	0.0944	0.0219	0.0020	0.0944	0.0219
40688801	Petroleum and Solvent Evaporation	Transportation and Marketing of Petroleum Products	Fugitive Emissions	0.0000	0.0087	0.0000	0.0000	0.0087	0.0000	0.0000	0.0087	0.0000	0.0000	0.0087	0.0000	0.0000	0.0087	0.0000
40700815	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Alcohols	0.0000	0.0318	0.0000	0.0000	0.0017	0.0000	0.0000	0.0017	0.0000	0.0000	0.0018	0.0000	0.0000	0.0021	0.0000
40703619	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Aromatics	0.0000	0.0065	0.0000	0.0000	0.0003	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000	0.0000	0.0004	0.0000
40703621	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Aromatics	0.0000	0.0313	0.0000	0.0000	0.0335	0.0000	0.0000	0.0342	0.0000	0.0000	0.0362	0.0000	0.0000	0.0420	0.0000
40704413	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Esters	0.0000	0.0258	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
40705603	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Glycols	0.0000	0.0412	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
40714698	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Miscellaneous	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000
40799997	Petroleum and Solvent Evaporation	Organic Chemical Storage	Miscellaneous	0.0000	0.0046	0.0000	0.0000	0.0002	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000
40799998	Petroleum and Solvent Evaporation	Organic Chemical Storage	Miscellaneous	0.0000	0.0437	0.0000	0.0000	0.0023	0.0000	0.0000	0.0024	0.0000	0.0000	0.0025	0.0000	0.0000	0.0029	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
40880001	Petroleum and Solvent Evaporation	Organic Chemical Transportation	Equipment Leaks	0.0000	0.0005	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000
40899995	Petroleum and Solvent Evaporation	Organic Chemical Transportation	Specific Liquid	0.0000	0.0093	0.0000	0.0000	0.0100	0.0000	0.0000	0.0102	0.0000	0.0000	0.0108	0.0000	0.0000	0.0125	0.0000
40899999	Petroleum and Solvent Evaporation	Organic Chemical Transportation	Specific Liquid	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0003	0.0000	0.0000	0.0004	0.0000
49000206	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Waste Solvent Recovery Operations	0.0000	0.0008	0.0000	0.0000	0.0009	0.0000	0.0000	0.0009	0.0000	0.0000	0.0010	0.0000	0.0000	0.0011	0.0000
49099998	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Miscellaneous Volatile Organic Compound Evaporation	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000
50100402	Waste Disposal	Solid Waste Disposal - Government	Landfill Dump	0.0000	0.0050	0.0000	0.0000	0.0055	0.0000	0.0000	0.0060	0.0000	0.0000	0.0065	0.0000	0.0000	0.0074	0.0000
50100410	Waste Disposal	Solid Waste Disposal - Government	Landfill Dump	0.0047	0.0011	0.0873	0.0047	0.0011	0.0873	0.0047	0.0011	0.0873	0.0047	0.0011	0.0873	0.0047	0.0011	0.0873
50100702	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	0.0000	0.0005	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000
50100707	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	0.0000	0.0001	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000
50100710	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000
50100719	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000
50100769	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	0.0000	0.0054	0.0000	0.0000	0.0060	0.0000	0.0000	0.0065	0.0000	0.0000	0.0071	0.0000	0.0000	0.0081	0.0000
50100772	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50100799	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000
Total				13.3437	6.1384	13.3653	12.0179	4.4608	2.6717	12.5083	4.8270	2.7713	12.9868	5.2056	2.8772	13.8867	5.8593	3.0103

APPENDIX C

TVA - GALLATIN

And

GAS COMPRESSOR STATION

EMISSIONS

2002 NOx Emissions for TVA Gallatin Facility

FIPS	SIC	SCC	Plant ID	Unit ID	Stack ID	Latitude	Longitute	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpd)	Facility Na
47165	4911	10100212	0025	1	1	36.32	-86.40	152.9	7.60	419	21.8	8.83	Gallatin
47165	4911	10100212	0025	2	1	36.32	-86.40	152.9	7.60	419	21.8	8.83	Gallatin
47165	4911	10100212	0025	3	2	36.32	-86.40	152.9	7.60	411	24.6	8.54	Gallatin
47165	4911	10100212	0025	4	2	36.32	-86.40	152.9	7.60	411	24.6	8.54	Gallatin
Total												34.73	

Estimated 2007 NOx Emissions for TVA Gallatin Facility (Emissions were used for 2006 and 2009)

FIPS	SIC	SCC	Plant ID	Unit ID	Stack ID	Latitude	Longitute	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpd)	Facility Na
47165	4911	10100212	0025	1	1	36.32	-86.40	152.9	7.60	419	21.8	9.57	Gallatin
47165	4911	10100212	0025	2	1	36.32	-86.40	152.9	7.60	419	21.8	9.57	Gallatin
47165	4911	10100212	0025	3	2	36.32	-86.40	152.9	7.60	411	24.6	10.55	Gallatin
47165	4911	10100212	0025	4	2	36.32	-86.40	152.9	7.60	411	24.6	10.55	Gallatin
47165	4911	10100601	0025	G01	101	36.32	-86.40	12.0	5.81	785	30.9	0.71	Gallatin
47165	4911	10100601	0025	G02	102	36.32	-86.40	12.0	5.81	785	30.9	0.71	Gallatin
47165	4911	10100601	0025	G03	103	36.32	-86.40	12.0	5.81	785	30.9	0.71	Gallatin
47165	4911	10100601	0025	G04	104	36.32	-86.40	12.0	5.81	785	30.9	0.71	Gallatin
47165	4911	10100601	0025	G05	105	36.32	-86.40	17.1	4.50	810	45.1	0.09	Gallatin
47165	4911	10100601	0025	G06	106	36.32	-86.40	17.1	4.50	810	45.1	0.09	Gallatin
47165	4911	10100601	0025	G07	107	36.32	-86.39	17.1	4.50	810	45.1	0.09	Gallatin
47165	4911	10100601	0025	G08	108	36.32	-86.39	17.1	4.50	810	45.1	0.09	Gallatin
Total												43.44	

Estimated 2012 NOx Emissions for TVA Gallatin Facility (Emissions were used for 2016)

FIPS	SIC	SCC	Plant ID	Unit ID	Stack ID	Latitude	Longitute	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpd)	Facility Na
47165	4911	10100212	0025	1	1	36.32	-86.40	152.9	7.60	419	21.8	9.90	Gallatin
47165	4911	10100212	0025	2	1	36.32	-86.40	152.9	7.60	419	21.8	9.90	Gallatin
47165	4911	10100212	0025	3	2	36.32	-86.40	152.9	7.60	411	24.6	10.92	Gallatin
47165	4911	10100212	0025	4	2	36.32	-86.40	152.9	7.60	411	24.6	10.92	Gallatin
47165	4911	10100601	0025	G01	101	36.32	-86.40	12.0	5.81	785	30.9	0.89	Gallatin
47165	4911	10100601	0025	G02	102	36.32	-86.40	12.0	5.81	785	30.9	0.89	Gallatin

Estimated 2012 NOx Emissions for TVA Gallatin Facility (Emissions were used for 2016)

Stk Ht	Diam	Temp	Vel	Ems

FIPS	SIC	SCC	Plant ID	Unit ID	Stack ID	Latitude	Longitute	(m)	(m)	(Deg K)	(m/s)	(tpd)	Facility Nam
47165	4911	10100601	0025	G03	103	36.32	-86.40	12.0	5.81	785	30.9	0.89	Gallatin
47165	4911	10100601	0025	G04	104	36.32	-86.40	12.0	5.81	785	30.9	0.89	Gallatin
47165	4911	10100601	0025	G05	105	36.32	-86.40	17.1	4.50	810	45.1	0.08	Gallatin
47165	4911	10100601	0025	G06	106	36.32	-86.40	17.1	4.50	810	45.1	0.08	Gallatin
47165	4911	10100601	0025	G07	107	36.32	-86.39	17.1	4.50	810	45.1	0.08	Gallatin
47165	4911	10100601	0025	G08	108	36.32	-86.39	17.1	4.50	810	45.1	0.08	Gallatin
Total												45.51	

2002 Emissions for Gas Compressor Stations: CO

FIPS	SIC	SCC	Plant ID	Unit ID	Stack ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpd)	Facility Name
47165	4922	20200202	0008	001	1	36.51	-86.55	5.3	0.35	533	42.2	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	002	2	36.51	-86.55	5.3	0.35	533	42.2	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	003	3	36.51	-86.55	5.3	0.35	533	42.2	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	004	4	36.51	-86.55	5.3	0.35	533	42.2	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	005	5	36.51	-86.55	5.3	0.35	533	42.2	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	006	6	36.51	-86.55	5.3	0.35	533	42.2	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	007	7	36.51	-86.55	5.3	0.35	533	42.2	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	008	8	36.51	-86.55	5.3	0.35	533	42.2	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	009	9	36.51	-86.55	5.3	0.35	533	42.2	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	026	26	36.51	-86.55	8.3	0.35	533	48.4	0.00	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	027	27	36.51	-86.55	8.3	0.35	533	48.4	0.01	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	028	28	36.51	-86.55	8.3	0.35	533	48.4	0.01	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	029	29	36.41	-86.55	8.3	0.35	533	48.4	0.01	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	030	30	36.41	-86.55	8.3	0.35	533	48.4	0.01	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	031	31	36.41	-86.56	8.3	0.35	533	48.4	0.01	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	032	32	36.41	-86.56	10.3	0.60	533	26.6	0.02	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	033	33	36.51	-86.56	10.3	0.60	533	26.6	0.02	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	038	38	36.41	-86.55	9.9	0.76	533	27.1	0.03	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	039	39	36.41	-86.55	9.9	0.76	533	27.1	0.03	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	040	40	36.51	-86.55	8.0	1.22	533	17.6	0.12	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0014	001	1	36.52	-86.56	10.7	0.45	644	30.4	0.04	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	001	2	36.52	-86.56	10.7	0.45	644	30.4	0.04	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	001	3	36.52	-86.56	10.7	0.45	644	30.4	0.04	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	002	4	36.52	-86.56	11.6	0.60	644	22.4	0.00	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	003	5	36.52	-86.56	7.6	0.74	533	17.6	0.01	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
Total												0.45	
47189	4922	20200201	0093	001	1	36.13	-86.40	9.8	2.47	700	56.0	0.15	TEXAS EASTERN TRANSMISSION GLADEVILLE

2002 Emissions for Gas Compressor Stations: NOx

FIPS	SIC	SCC	Plant ID	Unit ID	Stack ID	Latitude	Longitude	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpd)	Facility Name
47165	4922	20200202	0008	001	1	36.51	-86.55	5.3	0.35	533	42.2	0.03	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	002	2	36.51	-86.55	5.3	0.35	533	42.2	0.04	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	003	3	36.51	-86.55	5.3	0.35	533	42.2	0.02	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	004	4	36.51	-86.55	5.3	0.35	533	42.2	0.03	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	005	5	36.51	-86.55	5.3	0.35	533	42.2	0.03	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	006	6	36.51	-86.55	5.3	0.35	533	42.2	0.03	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	007	7	36.51	-86.55	5.3	0.35	533	42.2	0.04	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	008	8	36.51	-86.55	5.3	0.35	533	42.2	0.04	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	009	9	36.51	-86.55	5.3	0.35	533	42.2	0.03	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	026	26	36.51	-86.55	8.3	0.35	533	48.4	0.09	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	027	27	36.51	-86.55	8.3	0.35	533	48.4	0.15	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	028	28	36.51	-86.55	8.3	0.35	533	48.4	0.25	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	029	29	36.41	-86.55	8.3	0.35	533	48.4	0.25	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	030	30	36.41	-86.55	8.3	0.35	533	48.4	0.13	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	031	31	36.41	-86.56	8.3	0.35	533	48.4	0.22	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	032	32	36.41	-86.56	10.3	0.60	533	26.6	0.12	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	033	33	36.51	-86.56	10.3	0.60	533	26.6	0.06	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	038	38	36.41	-86.55	9.9	0.76	533	27.1	0.82	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	039	39	36.41	-86.55	9.9	0.76	533	27.1	0.53	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	040	40	36.51	-86.55	8.0	1.22	533	17.6	0.11	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0014	001	1	36.52	-86.56	10.7	0.45	644	30.4	0.04	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	001	2	36.52	-86.56	10.7	0.45	644	30.4	0.33	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	001	3	36.52	-86.56	10.7	0.45	644	30.4	0.11	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	002	4	36.52	-86.56	11.6	0.60	644	22.4	0.00	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	003	5	36.52	-86.56	7.6	0.74	533	17.6	0.00	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
Total												3.50	
47189	4922	20200201	0093	001	1	36.13	-86.4	9.8	2.47	700	56	0.05	TEXAS EASTERN TRANSMISSION GLADEVILLE

2002 Emissions for Gas Compressor Stations: VOC

FIPS	SIC	SCC	Plant ID	Unit ID	Stack ID	Latitude	Longitute	Stk Ht (m)	Diam (m)	Temp (Deg K)	Vel (m/s)	Ems (tpd)	Facility Name
47165	4922	20200202	0008	001	1	36.51	-86.55	5.3	0.35	533	42.2	0.001	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	002	2	36.51	-86.55	5.3	0.35	533	42.2	0.001	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	003	3	36.51	-86.55	5.3	0.35	533	42.2	0.001	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	004	4	36.51	-86.55	5.3	0.35	533	42.2	0.001	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	005	5	36.51	-86.55	5.3	0.35	533	42.2	0.002	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	006	6	36.51	-86.55	5.3	0.35	533	42.2	0.000	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	007	7	36.51	-86.55	5.3	0.35	533	42.2	0.002	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	008	8	36.51	-86.55	5.3	0.35	533	42.2	0.002	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	009	9	36.51	-86.55	5.3	0.35	533	42.2	0.001	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	026	26	36.51	-86.55	8.3	0.35	533	48.4	0.003	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	027	27	36.51	-86.55	8.3	0.35	533	48.4	0.004	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	028	28	36.51	-86.55	8.3	0.35	533	48.4	0.005	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	029	29	36.41	-86.55	8.3	0.35	533	48.4	0.005	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	030	30	36.41	-86.55	8.3	0.35	533	48.4	0.004	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	031	31	36.41	-86.56	8.3	0.35	533	48.4	0.004	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	032	32	36.41	-86.56	10.3	0.60	533	26.6	0.006	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	033	33	36.51	-86.56	10.3	0.60	533	26.6	0.007	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	038	38	36.41	-86.55	9.9	0.76	533	27.1	0.011	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	039	39	36.41	-86.55	9.9	0.76	533	27.1	0.012	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0008	040	40	36.51	-86.55	8.0	1.22	533	17.6	0.031	TENESSEE GAS PIPELINE STATION 87
47165	4922	20200202	0014	001	1	36.52	-86.56	10.7	0.45	644	30.4	0.005	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	001	2	36.52	-86.56	10.7	0.45	644	30.4	0.005	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	001	3	36.52	-86.56	10.7	0.45	644	30.4	0.005	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	002	4	36.52	-86.56	11.6	0.60	644	22.4	0.000	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
47165	4922	20200202	0014	003	5	36.52	-86.56	7.6	0.74	533	17.6	0.002	MIDWESTERN GAS TRANSMISSION CO.-STA. 2101
Total												0.122	
47189	4922	20200201	0093	001	1	36.13	-86.4	9.8	2.47	700	56.0	0.003	TEXAS EASTERN TRANSMISSION GLADEVILLE
47189	4922	28888802	0093	002	2	36.13	-86.4	-9	-9	-9	-9	0.001	TEXAS EASTERN TRANSMISSION GLADEVILLE
Total												0.004	

APPENDIX D

VISTAS EMISSION PREPARATION SUMMARY

Future Year Emission Inventory Development to Support Fine Particulate Mass and Visibility Modeling in the VISTAS Region

Gregory Stella
Alpine Geophysics, LLC, 387 Pollard Mine Road, Burnsville, NC 28714
gms@alpinegeophysics.com
Patricia Brewer
VISTAS, 2090 US Highway 70, Swannanoa, NC 28778
pat.brewer@ncmail.net

ABSTRACT

The United States Environmental Protection Agency (EPA) has issued regulations to improve visibility, or visual air quality, in 156 national parks and wilderness areas across the country. The regulations require States to develop long-term strategies including enforceable measures designed to meet reasonable progress goals. The first long-term strategy will cover 10 to 15 years, with reassessment and revision of those goals and strategies in 2018 and every 10 years thereafter. States strategies should address their contribution to visibility problems in Class I areas both within and outside the State. Through a memorandum of understanding the eight SESARM states (Alabama, Florida, Kentucky, Georgia, Mississippi, North Carolina, South Carolina and Tennessee) plus Virginia, West Virginia, and participating Tribes have agreed to collaborate in planning activities associated with the management of regional haze, visibility, and other air quality issues. This collaboration is known as Visibility Improvement - State and Tribal Association of the Southeast (VISTAS).

The purpose of this paper is to describe the production of a set of comprehensive future year annual emission inventories for the VISTAS States to support the modeling and assessment of speciated particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (PM-2.5). We briefly describe the VISTAS 2002 inventory, assumptions for 2018 projections, similarity of VISTAS projections to EPA's recent projections, and our procedures for collecting and manipulating inventories for other regions.

INTRODUCTION

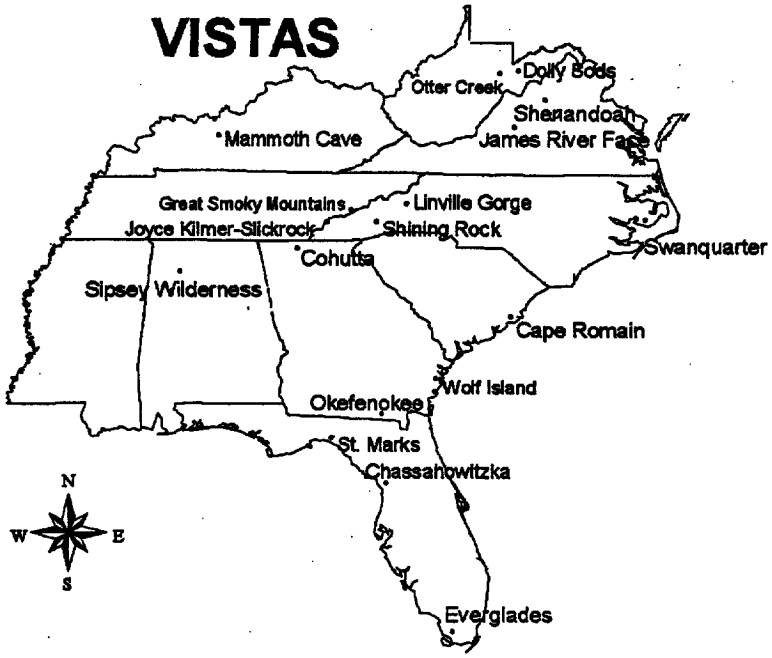
The United States Environmental Protection Agency (EPA) has issued regulations to improve visibility, or visual air quality, in 156 national parks and wilderness areas across the country. These areas include many of our best known and most treasured natural areas, such as the Grand Canyon, Yosemite, Yellowstone, Mount Rainier, Shenandoah, the Great Smoky Mountains, Acadia, and the Everglades. More than 280 million visitors come to enjoy the scenic vistas and unique natural features in these and other park and wilderness areas each year.

The regulations require States to develop long-term strategies including enforceable measures designed to meet reasonable progress goals. The first long-term strategy will cover 10 to 15 years, with reassessment and revision of those goals and strategies in 2018 and every 10 years thereafter. States strategies should address their contribution to visibility problems in Class I areas both within and outside the State. Through a

memorandum of understanding the eight SESARM states (Alabama, Florida, Kentucky, Georgia, Mississippi, North Carolina, South Carolina and Tennessee) plus Virginia, West Virginia, and participating Tribes have agreed to collaborate in planning activities associated with the management of regional haze, visibility, and other air quality issues. This collaboration is known as Visibility Improvement - State and Tribal Association of the Southeast (VISTAS). Figure 1 represents the ten VISTAS States and identifies the Class I areas within the domain.

In identifying the emission reduction measures to be included in the long-term strategy, States should address all types of manmade emissions contributing to impairment in Class I areas, including those from mobile sources, stationary point sources (such as factories and electric generating units (EGUs)), area sources (such as residential wood combustion, gas stations, and agriculture), and fires. Emissions from these activities generally span broad geographic areas and can be transported great distances, sometimes hundreds or thousands of miles. Consequently, haze occurs regionally throughout the nation.

Figure 1. Class I areas within VISTAS domain.



The Technical Analysis Workgroup (TAWG) of VISTAS is charged with overseeing the regional haze and fine particulate modeling that will be required for developing State Implementation Plans (SIPs). These plans are in response to the federal regional haze rules promulgated by the EPA. Through work conducted by VISTAS and its contractors, we generated a comprehensive set of future year emissions inventories for the VISTAS States to support the modeling and assessment of the atmosphere processes that result in particulate matter in air and its effect on visibility. Additionally, as our modeling domain covers all of the continental U.S. and much of Canada and Mexico, future scenario emission inventories for these domains were obtained or prepared for our modeling.

The purpose of this paper is to describe the production of a set of comprehensive future year emission inventories for the VISTAS States to support the modeling and assessment of speciated particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (PM-2.5). We have included a brief discussion of the VISTAS 2002 inventory with a focus on assumptions for its projection to 2018, how similar or dissimilar our results are from EPA's recent projection assumptions, and our procedures for collecting and manipulating inventories for other regions.

BASE YEAR 2002 EMISSION INVENTORY

Through other contracts, VISTAS had previously funded the development of base year 2002 emission inventories for all anthropogenic sources. In early 2004, these annual inventories of VOC, NOX, CO, SO2, PM-10, PM-2.5, and NH3 were completed and delivered to VISTAS for the categories EGU, non-EGU point, stationary area, onroad and nonroad mobile, and fires (MACTEC 2004a, 2004b; Pechan 2004).

The data sets used to develop these initial base year inventories originated from the U.S. EPA's 1999 National Emission Inventory and were augmented and updated with State, local and Tribal (SLT) agency emissions from the 1999 through 2002 time period (where available). Included with these submissions were recommendations and input on how to utilize non-2002 data to make them representative of the 2002 calendar year.

The VISTAS base year contractors then reviewed the methods and data as collected and provided recommendations on how to integrate these data into a single comprehensive 2002 inventory. Part of these recommendations included the augmentation of emissions and sources using the latest versions of emission factors, models, and methods. Examples include missing PM emissions (for sources previously only required to submit ozone precursors), ammonia (where coverage from the Carnegie Mellon University (CMU) ammonia model was now available), and attainment area emissions (where States previously did not have to submit inventories). Additional recommendations involved the forecasting of emissions from a historical year (e.g., 1999 or 2000) to the current year of study (2002) using SLT activity data or growth rates, U.S. EPA changes in emissions, or alternate methods of projection.

Each step of the process was quality assured by VISTAS stakeholder workgroups and State emission inventory developers. These emissions data are intended to both

support the regional modeling exercises planned by VISTAS and its States, and to serve as the starting point for State, and local inventory submittals under the EPA's Consolidated Emission Reporting Rule (CERR). As such, the data were prepared in a form (NIF 3.0) and a time period (annual) necessary to fulfill this reporting obligation. It is anticipated that much of the data prepared for this 2002 base year inventory will be submitted to EPA for the CERR requirements, particularly for area and non-road sectors. Some states will incorporate data unavailable by January 2004 (e.g. 2002 point source surveys and 2002 highway activity data) prior to the CERR submittal.

The remainder of this paper references the early 2004 base year inventories when mentioning "base year" or "2002" emissions and not to any improvements made by VISTAS or it's State, local and Tribal agencies for CERR submittal purposes.

EMISSION PROJECTION PROCESS

Because the VISTAS domain contains two States (North Carolina and Virginia) who have regulatory approval processes of two years, VISTAS is in a position where recommendations to participating States need to be finalized by December 2005. This date would allow these States the full two years necessary to complete a formal SIP submittal to EPA.

EMISSION PROJECTION METHODOLOGY

The initial 2018 projections will be used in emissions sensitivity modeling in the summer of 2004 to provide guidance to VISTAS' Planning Workgroup for emissions control strategy design. Because the schedule to draft the initial 2018 emission projections was relatively short, VISTAS used interim assumptions to prepare this initial set of projection data. For this application, ultimate accuracy of the inventory was not required. Instead, VISTAS' initial focus was to prepare these emissions to closely represent what a subsequent, more thorough emission projection process might produce. For this reason, existing information (growth rates, control factors, modeling parameters) that was available in early 2004 was used. The EPA's Interstate Air Quality Rule (IAQR) future year forecasts had recently been released and after review of these data, VISTAS decided that these files were the most relevant available in the required timeframe. Since VISTAS state and stakeholder review teams were to review and comment on the appropriateness of these factors, there was little concern that the recycled data would generate unsuitable emission estimates.

To completely fulfill the requirements of the projection and to define the basis of the sensitivity runs, the VISTAS Planning Workgroup developed a list of "Base Case" assumptions to be included in the future year inventories. These cases would be based on recently promulgated emission reduction strategies and would include Federal, State, local, and site-specific emission control information. The final list of cases defined by the Planning Workgroup is presented in Table 1.

Table 1. Control Programs Included in Emission Projection Inventories.
Base 1 (As of January 1, 2004)
- Atlanta / Northern Kentucky / Birmingham 1-hr SIPs

- Gulf Power (Crist 7) SCR application
- Heavy Duty Diesel (2007) Engine Standard (HDD)
- Large Spark Ignition and Recreational Vehicle Rule
- North Carolina Clean Smokestacks Act
- NOx RACT in 1-hr NAA SIPs
- NOx SIP Call (Phase I- except where states have adopted II already e.g. NC)
- Petroleum Refinery Initiative (October 1, 2003 notice; MS & WV)
- RFP 3% Plans where in place for one hour plans
- TECO & VEPCO Consent Agreements
- Tier 2 Tailpipe
- Title IV for Phase I and II EGUs
- VOC 2-, 4-, 7-, and 10-year MACT Standards
- Combustion Turbine MACT

Base 2a

- 8-hr attainment plans (e.g., NOx RACT)
- Industrial Boiler/Process Heater/RICE MACT
- Nonroad Diesel Rule (Tier 4)
- NOx SIP Call (Phase II – remaining States & IC engines)
- TVA scrubber application
- Interstate Air Quality Rule (IAQR)

Base 2b

- Base 2a assumptions
- Excludes Interstate Air Quality Rule

Beyond Base (Not included in any projection)

- Clear Skies Act (Phase I implementation through 2009)
- Clear Skies Act (Phase II implementation through 2018)
- Early Action Compact Plans
- PM SIPs
- Best Available Retrofit Technology (BART) Guidelines
- Utility Mercury MACT

VISTAS Base 1 was designed to represent control strategies that were known to exist and had been promulgated as of January 1, 2004. Included in this list of programs are the federally promulgated CAAA regulations (Title I and IV, NOx SIP Call Phase I, Heavy Duty Diesel (HDD) and Tier-2 Tailpipe onroad rules, and 2-, 4-, 7-., and 10-year MACT standards) and VISTAS-specific State (North Carolina Clean Smokestacks Act) and facility plans (e.g. Southern Company's Crist plant) and consent agreements (e.g. Tampa Electric, VEPCO). Base 2a closely resembles the U.S. EPA IAQR inventory assumptions and includes additional MACTs, Nonroad Diesel Rule (Tier 4), Phase II of the NOx SIP Call, and IAQR as proposed by EPA, as well as VISTAS-specific facility plans (e.g., TVA scrubbers).

Base 2b reflects all Base 2a programs with the exception of the IAQR. Table 1 also presents those strategies that VISTAS is currently considering beyond our base case.

These have not been included in any of the 2018 initial projection calculations and are listed for reference purposes only.

Because of the source specific nature of the planned base cases, a few of the major source categories required multiple base case inventories. Examples include both a Base 1 and Base 2 nonroad mobile source inventory to account for the inclusion of Tier 4 reductions, a Base 1 and Base 2 for non-EGU sources to account for MACTs and additional IC engine reduction from Phase II of the NOx SIP Call, and a Base 1, Base 2a, and Base 2b for EGUs to account for the application of NOx SIP Call, and forecasts with and without the IAQR. Stationary area and highway mobile sources required only a single forecasted inventory as the control programs applicable to these categories did not change from scenario to scenario.

Additionally, as two exclusive methods were chosen by VISTAS for forecasting EGU emissions, two sets of emissions for each strategy were developed to account for each individual technique. These are described in more detail in following section.

SPECIAL INTEREST WORKGROUP PROCESS

Special Interest Workgroups (SIWG) were assembled to review and assess initial emission forecast data and were presented with as much of the existing forecasting information as possible during the timeframe available for review. These data included growth rates, control technologies, reduction potential, and affected sources. The fundamental purpose of these Workgroups during the initial emission projection process was to assess, review, and modify "base case" assumptions that would allow VISTAS contractors to provide timely files for air quality modeling sensitivity runs.

Throughout the emission projection process, VISTAS emission projection contractors provided the Workgroups with these data in user-friendly or other Workgroup defined formats. These data and the initial emission projections were then refined with stakeholder input. Upon completed review of the projections, final emission inventories were provided with emission summaries for one final examination. The results of these final reviews are presented in this paper.

Each Workgroup also identified a list of issues which it would attempt to address during the initial emission forecast development process taking notice of the fact that the largest issues may have to wait for resolution during the final forecast process.

COMMON FORECAST ISSUES

While each Workgroup developed a unique list of concerns, each one had to deal with a common set of issues before beginning the projection process. These issues involved the methods for projection, growth data and control assumptions, model specific input data, and other source specific data applicable to the emissions categories.

The method for projecting emissions can be as important as the projections themselves. For a number of major source categories, models are readily available to project emissions to a future year. However, equally viable ad hoc methods lend themselves to

the preparation of these inventories. VISTAS Workgroups reviewed each available method or model and made determinations based on existing data, available time, and historical performance.

The availability of recent and timely growth factors and control information was reviewed by the VISTAS emission projection contractors and proposals were made to each Workgroup for their approval. These factors included federal, state, or local regulatory reductions and domain-specific growth rates and methods. Where factors were Identified which were not yet available, these data were tabled for future review and possible inclusion in the longer term forecasts.

Model specific data were identified for the Integrated Planning Model (IPM®), MOBILE6, NONROAD, and the CMU ammonia models. Data for each model were reviewed and updated by the Workgroups prior to application. Similarly, source specific data and projections were submitted to the Workgroups for review and upon approval were included in the forecasted emissions.

SOURCE SPECIFIC FORECAST ISSUES

Complementing the common issues identified by each Workgroup, the individual SIWGs also identified source specific issues related to projecting emissions from their categories. These issues are presented in Table 2 and are discussed in more detail in the following sections.

EGU

Two options for developing the three base case inventories were approved by the EGU SIWG and provided complementary data to refine the final "Base Case" decision making process. These options were modifying EPA's IAQR IPM® runs and projections calculated from VISTAS 2002 base year inventories.

Under Option 1, VISTAS contractors reviewed data and documentation (EPA, 2004a) of the development of the IAQR projection inventories. Although the inventories were generated using the proprietary IPM®, we were able to extract VISTAS sources from the final parsed files and integrate data modifications provided and approved by VISTAS States and EGU SIWG. Additionally, although these files were identified as 2015, EPA documentation on the development of these projections indicate that they are representative for a range of years around 2015 and therefore for purposes of our initial projections were considered applicable for 2018.

Since multiple base cases were identified for the EGU sector by the VISTAS Planning Committee, we needed to analyze and modify multiple IAQR files (base and control cases) with stakeholder provided data. After providing the EGU SIWG with the data files and summaries created with EPA's IAQR projections, participating stakeholders provided comment on revisions or refinements to these forecasts.
Included in these comments were planned emission rates and emissions for sources covered by North Carolina's Clean Smokestacks Act, scrubber application for a number of sources at TVA operated facilities, SCR application at Florida Power's Crist 7 unit

and hour specific emissions, heat input, and stack flow and temperature data for many sources owned and operated by Southern Company. Upon State and/or SIWG approval of these submitted data, they were incorporated into the Base 1, 2a, and 2b estimates.

Option 2 involved the use of VISTAS 2002 planning year inventory (e.g., "typical") as the basis of its emission projections. These files were generated through the application of growth factors from the EPA's Economic Growth Analysis System (EGAS) 4.0 or the Energy Information Administration (EIA), estimates of reduction percentages as calculated from EPA's IAQR files, and refined future emission rates from stakeholder input regarding utilization rates, capacity, retirements, and new unit information.

Table 2. VISTAS Special Interest Workgroup source specific issues.

EGU
- method for projection
- growth rates / energy efficiency
- assumed control programs / emission rates
  - base and future year
  - BART identification
- shared generation demands
- planned units / capacity / retirements
- utilization rates
- "typical" operation for base & projection year
- usage of CEM
- stack parameters
  - hourly stack parameters
  - changes in stack parameters due to scrubber application

Mobile (Onroad and Offroad)
- VMT or engine growth
- control programs
  - I/M, LEV, RFP, fuel characteristics
- Vehicle/fleet mix
  - Hybrid introduction
- Speed data
- Temperature application
- 3-D aircraft emissions
- nonroad distribution issues
- shipping lane information

Non-EGU Point
- growth rates / energy efficiency
- assumed control programs
  - base and future year
  - BART identification
- stack parameters
- planned units / retirements

Fires (Wild, Managed, Rx, and Agricultural)
- temporal and spatial distribution in base year

- "typical" fire inventory for use in base and projection year
- changes in fuel loadings / forest types

Agriculture
- improved NH3 estimates from animal /crop operations
- growth rates / moratoriums
- temporal schedule for SE states
- CAFOs

Stationary Area
- growth rates / energy efficiency
- assumed control programs
  - -base and future year
- PM transport factor application
- Paved / unpaved road estimate improvements
- -Urban sprawl

Because of anomalous operating conditions during any single year of operation, it was determined that instead of utilizing actual 2002 emissions from EGU sources in the projection process, we would first estimate a planning base year inventory. This inventory is also sometimes referred to as a "typical" year inventory and is a normalized version of historical activity at sources in the domain. In 2002 a number of VISTAS EGU sources were not in operation for part or all of the year due to regular maintenance, equipment failure, or control technology installation.

To prevent these abnormal activities from being carried into the future year, the EGU SIWG decided that a historical average of operations at each unit would be used instead. After obtaining, reviewing and processing historical operational data from EPA's Clean Air Markets Division, VISTAS contractors developed NOx, SO2, and heat input average profiles using data from 2000, 2001, and 2002. Additional reconciliation was completed with the VISTAS 2002 base year inventory to identify units that operated in 2000 or 2001 but did not operate in 2002. These profiles and resulting emissions were reviewed by the EGU SIWG and after approval were incorporated as the planning base year inventory.

Using input provided by the EGU SIWG and other participating stakeholders, we then incorporated known facility shutdowns, outages, and other relevant data to generate a future year forecasted inventory. These data were integrated with electric generation demand projections prepared by the Energy Information Administration (EIA) in their 2004 Annual Energy Outlook (DOE, 2004) and energy efficiency factors developed by EPA and used for the IAQR (EPA, 2002) to complete the emission forecast steps. These energy efficiency factors account for the CCAP programs, like EPA's Energy Star and U.S. Department of Energy's Motor Challenge Programs, which EPA estimates will effectively lower the reference case projections by 6.7% and 10.3% for the years 2010 and 2020, respectively.

Unlike the IPM®-based Option 1, Option 2 does not account for any trading program

within the VISTAS domain. Source classification codes (SCCs) for the industrial sector were identified from the Tier categories and each SCC was assigned to one of the fuel categories. Appropriate energy adjustment factors were applied to growth-factor based emissions projections for all pollutants for each SCC to develop the revised emissions projections. Similar adjustments were made to the projected emissions for combustion sources in the commercial/institutional sector included in the inventories by assuming increases in fuel efficiencies for future years.

NON-EGU POINT AND STATIONARY AREA

The EPA's EGAS Version 4.0 was used to develop projection factors by county and 2-digit SIC or 8- or 10-digit SCC. These factors were then applied to the VISTAS 2002 inventory to estimate changes in activity between 2002 and 2018 for the non-EGU point and stationary area source sectors. For each record in the VISTAS 2002 non-EGU inventory, a link was established between the State and county FIPS code, the standard industrial classification (SIC) or SCC code, and the applicable growth factor to be used for projecting emissions.

The adjustments made to account for energy efficiency increases in the industrial sector assume increases in fuel efficiencies for future years. Efficiency adjustment factors were developed from data on energy consumption per unit output from the EIA in their 2004 Annual Energy Outlook (DOE, 2004).

Using 2002 as the base year, these factors were calculated for each fuel (e.g., natural gas, steam coal, residual fuel, etc.) as the ratio between the base year consumption per unit output and the projection year consumption per unit output, as shown in Equation 1.

Equation (1) $EAF_{2018} = C18 / C02$
where
EAF_{2018} = efficiency adjustment factor for 2018
C18 = consumption per unit output for projection year 2018
C02 = consumption per unit output for base year 2002

Although not reflected in the mass emission inventories prepared for the 2018 cases, the application of a fugitive dust transport fraction is recommended by EPA to account for the amount of fugitive dust matter which enters a transport layer and disbursed within the domain. For the modeling file preparation, county-specific fugitive dust emission adjustment factors based on land-use categories were applied to the fugitive dust emissions within the area source inventories (EPA, 2003a).

The initial intent of the agricultural SIWG was to collect readily available information on animal and crop operations that would have an impact on future year estimates of ammonia emissions. However, due to the shortened timeline for the preparation of these initial estimates, no new information was collected on control strategies or technologies that were appropriate to these calculations. For growth factors, in addition to EGAS-based rates, where non-matching SCCs or more current data were

available, factors generated from U.S. Department of Agriculture sources or interpolated from EPA projections in recent publications (EPA, 2004b) or the IAQR inventories were utilized.

ONROAD MOBILE

For purposes of estimating onroad mobile source emissions in the 2018 forecast year, we are running the MOBILE6 module of the SMOKE emissions processor. Relevant to the development of these emissions using this module are the projected vehicle miles traveled (VMT) and MOBILE model input files by county.

Initial 2018 VMT estimates were developed at the vehicle class (i.e., LDGV, LDGT1, LDGT2, etc.) level of detail since the base 2002 VMT were provided at that level of resolution. In effect, the county and vehicle class specific growth factors derived from linear growth estimates of VMT from EPA's Heavy Duty-Diesel Engine Rulemaking inventories (EPA, 2000) were applied to the 2002 VMT estimates for each vehicle and road class.

Overall county-specific VMT estimates for 2018 (developed by summing the vehicle and road class specific forecasts) were then compared to the overall county-specific growth targets from the previously estimated growth factors. Since overall county growth is a more appropriate controlling factor as it includes the combined impacts of all vehicle classes, the initial 2018 vehicle and road class specific VMT forecasts were normalized so that the overall county VMT growth matched that of the previously provided growth spreadsheet using Equation 2.

Equation (2) Est_rv_f = (Est_rv_i) * (C_2018 / Sum(Est_rv_i))
where
Est_rv_f = the final road/vehicle class-specific estimates,
Est_rv_i = the initial road/vehicle class-specific estimates, and
C_2018 = the county-specific growth target.

Through coordinated efforts and review by the Mobile SIWG, the MOBILE input files for 2002 were revised to reflect appropriate factors (i.e., I/M, fuel programs, etc.) in the forecast year. These input files were then submitted to the modeling contractor and run using episode specific meteorological conditions.

With the exception of the diesel sulfur content, for 2018, all other input parameters were set to MOBILE defaults or retained 2002 values. The sulfur content of diesel fuel was set to 11 ppm, down from the 500 ppm value assumed for 2002 modeling. The 11 ppm value is based on data developed by EPA for the 2007 Heavy Duty-Diesel implementation and includes a small (4 ppm) compliance margin relative to the applicable 15 ppm standard.

Since the initial emission projection data sets generated for the VISTAS domain in this analysis were not required for an entire annual period but only for meteorological episodes in January and July of 2000 and 2001, no annual emissions are available at

this time. Future work to support the final regional haze recommendations will be completed by VISTAS in late 2004 and will generate these annual data sets.

NONROAD MOBILE

For NONROAD model categories, emission estimates for projection years were developed using a method comparable to that for the base year (Pechan 2004). Four seasonal NONROAD model runs were performed at the county level for each of the scenarios and for each State in the VISTAS domain. Seasonal runs account for differences in average seasonal temperature, as well as RVP.

The NONROAD model actually required three independent sets of runs to properly model the Tier 4 program. Two of the three sets included a diesel fuel sulfur content of 11 ppm (representing a 15 ppm standard and a 4 ppm compliance margin, as compared to a Base 1 sulfur level of 2500 ppm) and applied to all equipment with the exception of recreational marine engines. The first run properly modeled all engines with the exception of diesel engines between 50 and 75 hp, while the second properly modeled all engines except diesel engines between 75 and 100 hp. The two runs were subsequently aggregated using weighting factors of 57 percent 75-100 hp and 43 percent 50-75 hp (EPA, 2003b). The third set of runs applied to recreational marine engines, which are subject to a higher diesel fuel sulfur limit of 500 ppm. However, because a fraction of these engines are assumed to use the lower 11 ppm fuel, the actual modeled sulfur content is 233 ppm. The outputs from this third set of runs (for recreational marine engines only) were subsequently appended to those from the two aggregated runs. All other inputs are retained at their Base 1 inventory values.

The method used to estimate 2018 non-NONROAD model based emissions (locomotives, railroad, commercial marine vessels) was similar to that used to generate VISTAS 2002 emissions (Pechan 2004). We started with the 2002 estimates and forecast those to 2018 using growth rates developed at the county-SCC-pollutant level from EPA's Nonroad Diesel and IAQR modeling inventories. These forecasts are described as already considering economic growth and in-place control measures. In those cases where VISTAS SCCs did not directly match EPA's inventories at the county-10-digit SCC level, State generated values were applied based on the 6-digit SCC (e.g., 227502xxxx for aircraft).

Since the IAQR baseline emissions already include the impacts of the proposed Tier 4 diesel rules, which implement a low fuel sulfur requirement that will affect future NONROAD and non-NONROAD based emissions, a complimentary set of emissions were collected from the pre-controlled inventories of the Nonroad Diesel Engine Rulemaking. These two sets of emissions were required to appropriately model the VISTAS Base 1 and Base 2 forecasts.

Finally, using factors derived from the engine population and horsepower estimates of the NONROAD model, we applied reductions from the Nonroad Diesel Rule Regulatory Impact Analysis (RIA) to calculate emission changes due to the large spark ignition and recreational vehicle (LSIRV) rule. These additional reductions were required as the

LSIRV reductions are not currently available for modeling in the latest public version of the NONROAD model.

To develop an application factor (similar to rule penetration) for those SCCs which had both large and small engines, we assigned an additional factor based on the average horsepower (HP) from the model's file to determine small vs. large engines (small < 25 hp). We then multiplied the average horsepower for each SCC by the total population in each SCC/HP range bin and came up with a weighted contribution of large to small HP engines. Using this factor, we scaled the percent reduction from the RIA published reductions by this adjustment to account for the small population of engines which did not receive control under this regulation.

Fires

Several unique issues are involved with the forecasting of emissions from the fires categories. Not only is there a level of uncertainty associated with the magnitude of emissions (i.e., acres burned and fuel loading), but associated temporal and spatial uncertainty in predicting where many fires (especially wildfires) might occur. Through consultation with fire experts participating in the VISTAS Fire SIWG, an agreed upon method was developed to generate the initial forecast of fire emissions for 2018.

To comply with the timing of the near-term projections requirements of VISTAS, we based the initial forecast of fire emissions on a planning baseline or "typical year" acreage of fires at the State or county level of aggregation. VISTAS contractors collected these acreage estimates for recent time periods that were thought to be representative of the conditions of the "typical" base year or were readily available to stakeholders participating in the process. The goal was to try and obtain a minimum of five years worth of data where possible in order to develop an average number of acres per State for each fire type.

Although this was not always the case, many of the VISTAS States did have data for a number of historical years; some going back as far as 1984. These data were then used to "normalize" the 2002 base year inventory to "typical" conditions. Seven VISTAS States were able to provide a historical set of wildfire data, while six States have prescribed fire data readily available for this purpose. The process for estimating emissions from these sources in the initial projection is much like that employed in the development of a planning base year for EGU sources. We multiplied the current 2002 base year emissions by the estimated normalization factor to account for deviations from "typical" in the acreage burned for each fire type. This method assumes that:

- fuel loading/characteristics of the base year are representative of the "typical" year;
- spatial distribution of the emissions in the base year is representative of a "typical" year and;
- temporal variability of emissions in the base year is representative of a "typical" year.

Although an attempt was made to collect specific information related to easily implemented control or fire management programs that take effect between 2002 and the future base case year, no data were available in time to include in the initial

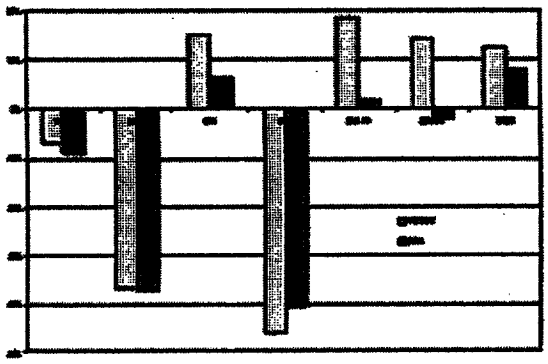
forecast. In particular, we were investigating strategies or changes in prescribed burn programs which may result from smoke management plans or other associated agenda.

If significant increases in the acres burned under prescribed burn programs are identified then the "typical" year approach applied above may not be appropriate for that fire category in future work and an alternative approach (perhaps implemented as control program) may be considered. In fact, such a program would effect both prescribed and wildfires since the increase in prescribed burning would potentially effect wildfire emissions in future years. These changes and any associated data will be considered in future forecast analyses.

RESULTS AND COMPARISON TO RECENT EPA PROJECTIONS

It is not expected that this initial emission projection to 2018 should exactly replicate those previously completed by other agencies. In fact, due to the regionally-specific information provided through VISTAS stakeholder groups, this projection should be unique. Not only has VISTAS chosen to use a set of growth factors slightly different that EPA's recent set, we have attempted to incorporate regional, State, local, and facility-based responses to recent Federal, State, and local pollution reduction actions into the forecast.

Figure 3 and Table 3. Relative emission change comparison between VISTAS and EPA reductions.



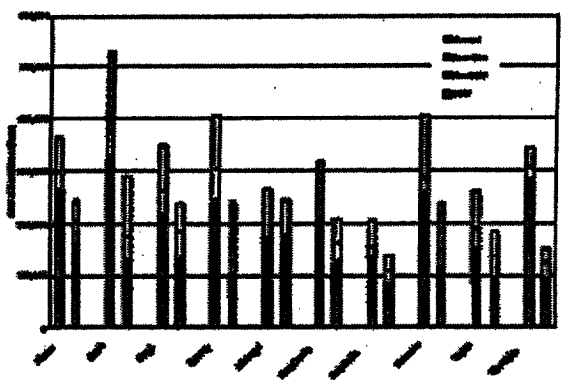
Pollutant	Percent Change in Annual Emissions	
	VISTAS	EPA
VOC	-7%	-9%
NOx	-37%	-37%
CO	15%	6%
SO2	-46%	-41%
PM-10	18%	2%
PM-2.5	14%	-2%
NH3	12%	8%

Despite this, the resulting emission changes track very closely on a percentage and tonnage basis to most pollutants and source sectors when compared to recent EPA projections. Figure 3 presents the relative emission change comparison between VISTAS 2002 base year to 2018 Base 2a and EPA's 2001 to 2015 IAQR control case scenario. Exceptions to the nearness of reductions include PM and CO emissions increases in the VISTAS domain which are resultant of the inclusion and change in fire emissions. The EPA assumptions hold fires constant between their base and future year and exclude wildfires altogether. Option 1 generated emissions from the EGU sector are presented in this section. Additionally, as no annual onroad mobile source

emissions from the VISTAS projection were available at the time of this publication, emissions and comparisons exclude the contribution from these sources.

Figure 4 presents a comparison of NOx emissions from the ten VISTAS States between the 2002 base year and 2018 Base 2a. Figure 5 represents annual SO2 emissions from these same States and categories during the projection timeframe. As expected and seen in these figures, emissions from EGU sources dominate these pollutants in most States. However, under the strategies applied in Base 2a, they also contribute the majority of the 37 and 46 percent reduction, respectively from all represented categories. These percentages correspond to annual emission reductions of 1,265,000 tons NOx and 2,237,000 tons SO2 in the VISTAS domain and compare to the 37 and 41 percent (1,336,000 tons NOx and 2,141,000 tons SO2) estimated by EPA in the latest IAQR modeling inventories for these same categories.

Figures 4 and 5. NOx and SO2 emission changes resulting from 2018 Base Case 2a in VISTAS States.



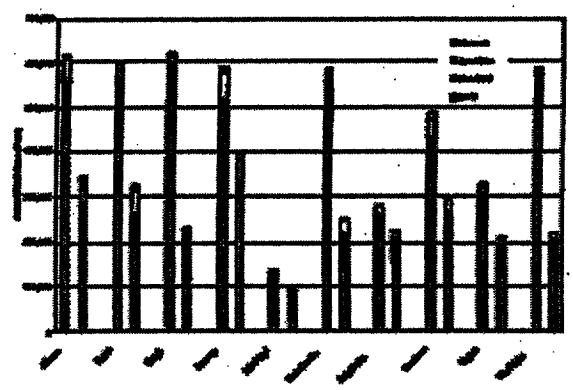
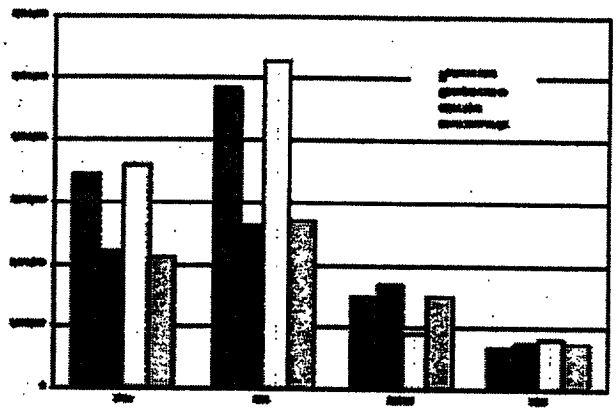


Figure 6 exhibits the actual emission changes for the four major regional haze and visibility inhibiting pollutants (NOx, SO2, PM-2.5, and NH3) as comparisons of VISTAS' 2002-2018 and EPA's 2001-2015 forecasts for the entire 10 State VISTAS domain. As indicated earlier, these reductions track quite closely.

Figure 6. Actual annual emissions change comparison between VISTAS and EPA projections.



NON-VISTAS DOMAIN PROJECTIONS

Since the modeling domain chosen by VISTAS covered an area much larger than the ten States represented by VISTAS, emission inventories for the U.S., Canada, and Mexico were required for each of the future year scenarios. Using emission inventories initially prepared by other RPOs, States, and EPA, VISTAS contractors generated a set of future year emissions used to represent the remaining modeling domain.

Western State base year point and area source emissions for 2002 were provided by the WRAP RPO and forecasted to 2018 using EGAS growth rates and similar control strategies as modeled by EPA in the IAQR rulemaking. Additionally, an inventory of point source resolved agricultural fire emissions were provided by WRAP and utilized in the projection. The CENRAP RPO provided VISTAS with an inventory of 2002 area source ammonia emissions which were also forecasted using EGAS growth rates and EPA control assumptions.

For the remaining U.S. domain, point source projections were based on EPA's 2001 modeling platform inventories and area source and fire emissions were based on EPA's preliminary 2002 NEI. These emissions were forecast to 2018 using EGAS 4.0 growth rates, DOE energy efficiency factors for combustion sources, and other control strategies as modeled by EPA in the IAQR inventories. Onroad and nonroad mobile source emissions were developed using interpolation of annual, county-level inventories developed and made publicly available through the Heavy Duty Diesel and IAQR Rulemakings.

Emission projections for Canadian nonpoint sources were based on interpolated inventories of Canadian area and mobile sources available and modeled by EPA during the Clear Skies Act analyses. Because confidentiality issues involved with Canadian point sources and the lack of Mexican emissions forecasts data, these emissions were held constant from base year to future year.

CONCLUSIONS

The goal of this analysis was to generate a set of comprehensive and complete emission inventories for the VISTAS States to support the modeling and assessment of

speciated particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (PM-2.5). To compound the difficulties associated with the generation of these data, VISTAS schedule compressed the analysis to a period of only a few months wherein data collection, review, analysis, comment, revision, and application occurred with the assistance of stakeholder Special Interest Workgroups.

The delivery of these projection inventories was met within the timeframes provided and the resulting inventories were of a quality and coverage more than acceptable to meet the needs of the planned sensitivity runs application. In fact, direct comparison to recent EPA projections in support of the IAQR show significant continued improvements to the base year, growth rates, and control factors are already underway and are expected to produce more robust future year inventories for control strategy application and air quality modeling runs. These improvements are largely based on the lessons learned from the initial projection and valuable input and data review efforts of the contractor teams and stakeholders. Ultimately those who have contributed to this process will benefit from their contributions in the form of regional haze and visibility recommendations based on the latest state-of-knowledge data, methods, and models.

REFERENCES

MACTEC, 2004a. "Draft Report – Development of Version 2 if the Draft 2002 VISTAS Emission Inventory for Regional Haze Modeling – Point Sources," Prepared for VISTAS by MACTEC Federal Programs, Inc., Herndon, VA, February 2004.

MACTEC, 2004b. "Draft Report – Development of Version 2 if the Draft 2002 VISTAS Emission Inventory for Regional Haze Modeling – Area Source Methodology," Prepared for VISTAS by MACTEC Engineering and Consulting, Inc., Newberry, FL, February 2004.

Pechan, 2004. "Development of the VISTAS Draft 2002 Mobile Source Emission Inventory (February 2004 Version)," Prepared for VISTAS by E.H. Pechan & Associates, Inc., Springfield, Virginia, February 2004.

EPA, 2004a. *Technical Support Document for the Interstate Air Quality Rule Air Quality Modeling Analyses,* U.S. Environmental Protection Agency, Research Triangle Park, NC, January 2004.

DOE, 2004. *Annual Energy Outlook 2004 with Projections to 2025*, U.S. Department of Energy, Energy Information Administration, Washington, DC, January 2004, DOE/EIA-0383(2004).

EPA, 2002. *Documentation of EPA Modeling Applications (V.2.1) Using the Integrated Planning Model,* U.S. Environmental Protection Agency, Washington, DC, March 2002, EPA 430/R-02-004.

EPA, 2003a. *A Conceptual Model to Adjust Fugitive Dust Emissions to Account for Near Source Particle Removal in Grid Model Applications*, U.S. Environmental Protection Agency, Research Triangle Park, NC, August 2003.

EPA, 2004b. *National Emission Inventory - Ammonia Emissions from Animal Husbandry Operations, Draft Report,* U.S. Environmental Protection Agency, Research Triangle Park, NC, January 2004.

EPA, 2000. *Procedures for Developing Base Year and Future Year Mass and Modeling Inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking,* U.S. Environmental Protection Agency, Research Triangle Park, NC, October 2000, EPA420-R-00-020.
EPA, 2003b. *Technical Support Document: Procedures for Developing Base Year and Future Year Mass Emission Inventories for the Nonroad Diesel Engine Rulemaking,* U.S. Environmental Protection Agency, Research Triangle Park, NC, April 2003, EPA454-R-03-009.

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KEYWORDS
VISTAS
Emissions
Projections
Regional Planning Organization
Regional Haze
Visibility

APPENDIX E

FIVE-COUNTY AREA SOURCE EMISSIONS

BY

SOURCE CLASSIFICATION CODE

Area Source Emissions Summary for Davidson County (FIPS 47037) by Source Category

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2102002000	Industrial	Bituminous/Subbituminous Coal	Total: All Boiler Types	0.1300	0.0195	0.1396	0.1160	0.0174	0.1246	0.1098	0.0165	0.1179	0.1068	0.0160	0.1147	0.1049	0.0158	0.1127
2102004000	Industrial	Distillate Oil	Total: Boilers and IC Engines	1.0315	0.0106	0.2655	1.0178	0.0105	0.2620	0.9870	0.0101	0.2541	1.0142	0.0104	0.2611	1.0504	0.0108	0.2704
2102005000	Industrial	Residual Oil	Total: All Boiler Types	0.7507	0.0039	0.0706	0.9788	0.0051	0.0921	0.9475	0.0050	0.0891	0.9528	0.0050	0.0896	0.9350	0.0049	0.0879
2102006001	Industrial	Natural Gas	All Boiler Types	1.0351	0.0207	0.2588	1.0653	0.0213	0.2663	1.0642	0.0213	0.2661	1.0985	0.0220	0.2746	1.1086	0.0222	0.2771
2102007000	Industrial	Liquified Petroleum Gas	Total: All Boiler Types	0.1033	0.0021	0.0258	0.0976	0.0020	0.0244	0.0981	0.0020	0.0245	0.1001	0.0020	0.0250	0.1027	0.0021	0.0256
2102008000	Industrial	Wood	Total: All Boiler Types	0.0027	0.0066	0.0156	0.0028	0.0070	0.0164	0.0029	0.0072	0.0169	0.0030	0.0076	0.0179	0.0033	0.0081	0.0191
2103002000	Commercial/Institutional	Bituminous/Subbituminous Coal	Total: All Boiler Types	0.2345	0.0066	0.0790	0.2447	0.0069	0.0825	0.2477	0.0069	0.0835	0.2465	0.0069	0.0831	0.2466	0.0069	0.0831
2103004000	Commercial/Institutional	Distillate Oil	Total: Boilers and IC Engines	0.7196	0.0122	0.1799	0.8180	0.0139	0.2045	0.8452	0.0144	0.2113	0.8512	0.0145	0.2128	0.8767	0.0149	0.2192
2103005000	Commercial/Institutional	Residual Oil	Total: All Boiler Types	0.0488	0.0010	0.0044	0.0226	0.0005	0.0021	0.0036	0.0001	0.0003	0.0223	0.0005	0.0020	0.0257	0.0005	0.0023
2103006000	Commercial/Institutional	Natural Gas	Total: Boilers and IC Engines	10.6425	0.5641	2.1285	12.6192	0.6688	2.5238	13.7291	0.7276	2.7458	14.7241	0.7804	2.9448	15.4533	0.8190	3.0907
2103007000	Commercial/Institutional	Liquified Petroleum Gas	Total: All Combustor Types	0.0594	0.0032	0.0122	0.0591	0.0032	0.0121	0.0602	0.0032	0.0123	0.0610	0.0033	0.0125	0.0614	0.0033	0.0126
2104002000	Residential	Bituminous/Subbituminous Coal	Total: All Combustor Types	0.0022	0.0075	0.0672	0.0022	0.0072	0.0649	0.0020	0.0066	0.0595	0.0019	0.0062	0.0554	0.0017	0.0056	0.0504
2104004000	Residential	Distillate Oil	Total: All Combustor Types	0.0168	0.0007	0.0047	0.0153	0.0006	0.0043	0.0139	0.0006	0.0039	0.0127	0.0005	0.0035	0.0112	0.0005	0.0031
2104006000	Residential	Natural Gas	Total: All Combustor Types	1.2045	0.0638	0.2409	1.2954	0.0687	0.2591	1.3333	0.0707	0.2667	1.3741	0.0728	0.2748	1.3832	0.0733	0.2766
2104007000	Residential	Liquified Petroleum Gas	Total: All Combustor Types	0.0368	0.0020	0.0075	0.0338	0.0018	0.0069	0.0330	0.0018	0.0067	0.0322	0.0017	0.0066	0.0307	0.0016	0.0063
2104008001	Residential	Wood	Fireplaces: General	0.0153	1.3499	0.3779	0.0155	1.3678	0.3829	0.0153	1.3490	0.3776	0.0152	1.3411	0.3754	0.0150	1.3211	0.3698
2104008002	Residential	Wood	Fireplaces: Insert; non-EPA certified	0.0328	0.6202	2.7008	0.0346	0.6541	2.8483	0.0350	0.6634	2.8888	0.0356	0.6741	2.9353	0.0361	0.6840	2.9787
2104008003	Residential	Wood	Fireplaces: Insert; EPA certified; non-catalytic	0.0000	0.0087	0.1021	0.0000	0.0092	0.1077	0.0000	0.0093	0.1092	0.0000	0.0095	0.1109	0.0000	0.0096	0.1126

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2104008004	Residential	Wood	Fireplaces: Insert; EPA certified; catalytic	0.0006	0.0044	0.0305	0.0006	0.0046	0.0322	0.0006	0.0047	0.0327	0.0006	0.0048	0.0332	0.0006	0.0048	0.0337
2104008010	Residential	Wood	Woodstoves: General	0.0284	0.5368	2.3374	0.0287	0.5439	2.3684	0.0283	0.5364	2.3359	0.0282	0.5332	2.3221	0.0277	0.5253	2.2874
2104008030	Residential	Wood	Catalytic Woodstoves: General	0.0005	0.0038	0.0264	0.0005	0.0039	0.0268	0.0005	0.0038	0.0264	0.0005	0.0038	0.0263	0.0005	0.0037	0.0259
2104008050	Residential	Wood	Non-catalytic Woodstoves: EPA certified	0.0000	0.0075	0.0884	0.0000	0.0076	0.0895	0.0000	0.0075	0.0883	0.0000	0.0075	0.0878	0.0000	0.0074	0.0865
2301010000	Chemical Manufacturing	Industrial Inorganic Chemical Manufact	Total	0.0000	0.0319	0.0000	0.0000	0.0342	0.0000	0.0000	0.0349	0.0000	0.0000	0.0369	0.0000	0.0000	0.0428	0.0000
2302050000	Food and Kindred Products	Bakery Products	Total	0.0000	0.5207	0.0000	0.0000	0.5398	0.0000	0.0000	0.5593	0.0000	0.0000	0.5761	0.0000	0.0000	0.5994	0.0000
2399000000	Industrial Processes: NEC	Industrial Processes: NEC	Total	0.0828	0.0644	0.0875	0.0828	0.0644	0.0875	0.0828	0.0644	0.0875	0.0828	0.0644	0.0875	0.0828	0.0644	0.0875
2401001000	Surface Coating	Architectural Coatings	Total: All Solvent Types	0.0000	3.4204	0.0000	0.0000	3.8935	0.0000	0.0000	4.3128	0.0000	0.0000	4.6491	0.0000	0.0000	5.0239	0.0000
2401005000	Surface Coating	Auto Refinishing	Total: All Solvent Types	0.0000	0.6679	0.0000	0.0000	0.7300	0.0000	0.0000	0.7932	0.0000	0.0000	0.8603	0.0000	0.0000	0.9375	0.0000
2401008000	Surface Coating	Traffic Markings	Total: All Solvent Types	0.0000	0.7112	0.0000	0.0000	0.7248	0.0000	0.0000	0.7498	0.0000	0.0000	0.7566	0.0000	0.0000	0.7580	0.0000
2401025000	Surface Coating	Metal Furniture	Total: All Solvent Types	0.0000	0.2401	0.0000	0.0000	0.2676	0.0000	0.0000	0.2765	0.0000	0.0000	0.2977	0.0000	0.0000	0.3518	0.0000
2401030000	Surface Coating	Paper	Total: All Solvent Types	0.0000	0.1459	0.0000	0.0000	0.1561	0.0000	0.0000	0.1642	0.0000	0.0000	0.1753	0.0000	0.0000	0.1960	0.0000
2401045000	Surface Coating	Metal Coils	Total: All Solvent Types	0.0000	0.4030	0.0000	0.0000	0.4030	0.0000	0.0000	0.4030	0.0000	0.0000	0.4030	0.0000	0.0000	0.4030	0.0000
2401055000	Surface Coating	Machinery and Equipment	Total: All Solvent Types	0.0000	0.0905	0.0000	0.0000	0.1408	0.0000	0.0000	0.1956	0.0000	0.0000	0.2407	0.0000	0.0000	0.2985	0.0000
2401065000	Surface Coating	Electronic and Other Electrical	Total: All Solvent Types	0.0000	0.4376	0.0000	0.0000	0.4316	0.0000	0.0000	0.3028	0.0000	0.0000	0.2276	0.0000	0.0000	0.2142	0.0000
2401080000	Surface Coating	Marine	Total: All Solvent Types	0.0000	0.1188	0.0000	0.0000	0.1255	0.0000	0.0000	0.1240	0.0000	0.0000	0.1294	0.0000	0.0000	0.1435	0.0000
2401090000	Surface Coating	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.9559	0.0000	0.0000	0.9559	0.0000	0.0000	0.9559	0.0000	0.0000	0.9559	0.0000	0.0000	0.9559	0.0000
2401100000	Surface Coating	Industrial Maintenance Coatings	Total: All Solvent Types	0.0000	0.8064	0.0000	0.0000	0.8064	0.0000	0.0000	0.8064	0.0000	0.0000	0.8064	0.0000	0.0000	0.8064	0.0000
2401200000	Surface Coating	Other Special Purpose Coatings	Total: All Solvent Types	0.0000	1.0745	0.0000	0.0000	1.3007	0.0000	0.0000	1.5096	0.0000	0.0000	1.6793	0.0000	0.0000	1.9142	0.0000
2415105000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0145	0.0000	0.0000	0.0161	0.0000	0.0000	0.0167	0.0000	0.0000	0.0179	0.0000	0.0000	0.0212	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2415110000	Degreasing	Primary Metal Industries	Total: All Solvent Types	0.0000	0.0207	0.0000	0.0000	0.0229	0.0000	0.0000	0.0246	0.0000	0.0000	0.0267	0.0000	0.0000	0.0310	0.0000
2415120000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.4192	0.0000	0.0000	0.4828	0.0000	0.0000	0.5423	0.0000	0.0000	0.5944	0.0000	0.0000	0.6756	0.0000
2415125000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.0819	0.0000	0.0000	0.1274	0.0000	0.0000	0.1770	0.0000	0.0000	0.2178	0.0000	0.0000	0.2701	0.0000
2415130000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.1507	0.0000	0.0000	0.1921	0.0000	0.0000	0.2303	0.0000	0.0000	0.2671	0.0000	0.0000	0.3310	0.0000
2415140000	Degreasing	Instruments and Related Products	Total: All Solvent Types	0.0000	0.0218	0.0000	0.0000	0.0254	0.0000	0.0000	0.0285	0.0000	0.0000	0.0314	0.0000	0.0000	0.0362	0.0000
2415145000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0609	0.0000	0.0000	0.0609	0.0000	0.0000	0.0609	0.0000	0.0000	0.0609	0.0000	0.0000	0.0609	0.0000
2415305000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0127	0.0000	0.0000	0.0142	0.0000	0.0000	0.0146	0.0000	0.0000	0.0158	0.0000	0.0000	0.0186	0.0000
2415310000	Degreasing	Primary Metal Industries	Total: All Solvent Types	0.0000	0.0038	0.0000	0.0000	0.0042	0.0000	0.0000	0.0046	0.0000	0.0000	0.0049	0.0000	0.0000	0.0057	0.0000
2415320000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.1062	0.0000	0.0000	0.1224	0.0000	0.0000	0.1375	0.0000	0.0000	0.1506	0.0000	0.0000	0.1712	0.0000
2415325000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.0277	0.0000	0.0000	0.0431	0.0000	0.0000	0.0599	0.0000	0.0000	0.0737	0.0000	0.0000	0.0914	0.0000
2415330000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.0163	0.0000	0.0000	0.0208	0.0000	0.0000	0.0250	0.0000	0.0000	0.0289	0.0000	0.0000	0.0359	0.0000
2415335000	Degreasing	Transportation Equipment	Total: All Solvent Types	0.0000	0.0250	0.0000	0.0000	0.0289	0.0000	0.0000	0.0333	0.0000	0.0000	0.0367	0.0000	0.0000	0.0414	0.0000
2415340000	Degreasing	Instruments and Related Products	Total: All Solvent Types	0.0000	0.0021	0.0000	0.0000	0.0025	0.0000	0.0000	0.0028	0.0000	0.0000	0.0030	0.0000	0.0000	0.0035	0.0000
2415345000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0459	0.0000	0.0000	0.0459	0.0000	0.0000	0.0459	0.0000	0.0000	0.0459	0.0000	0.0000	0.0459	0.0000
2415355000	Degreasing	Automotive Dealers	Total: All Solvent Types	0.0000	0.6608	0.0000	0.0000	0.7361	0.0000	0.0000	0.7907	0.0000	0.0000	0.8527	0.0000	0.0000	0.9485	0.0000
2415360000	Degreasing	Auto Repair Services	Total: All Solvent Types	0.0000	0.3384	0.0000	0.0000	0.4152	0.0000	0.0000	0.4899	0.0000	0.0000	0.5407	0.0000	0.0000	0.5927	0.0000
2415365000	Degreasing	Miscellaneous Repair Services	Total: All Solvent Types	0.0000	0.0173	0.0000	0.0000	0.0194	0.0000	0.0000	0.0213	0.0000	0.0000	0.0231	0.0000	0.0000	0.0254	0.0000
2420010055	Dry Cleaning	Commercial/Industrial Cleaners	Perchloroethylene	0.0000	1.0740	0.0000	0.0000	1.1046	0.0000	0.0000	1.1284	0.0000	0.0000	1.1828	0.0000	0.0000	1.2984	0.0000
2420010370	Dry Cleaning	Commercial/Industrial Cleaners	Special Naphthas	0.0000	1.8911	0.0000	0.0000	1.9450	0.0000	0.0000	1.9868	0.0000	0.0000	2.0826	0.0000	0.0000	2.2861	0.0000
2420020055	Dry Cleaning	Coin-operated Cleaners	Perchloroethylene	0.0000	0.0181	0.0000	0.0000	0.0186	0.0000	0.0000	0.0190	0.0000	0.0000	0.0199	0.0000	0.0000	0.0219	0.0000
2425000000	Graphic Arts	All Processes	Total: All Solvent Types	0.0000	4.2972	0.0000	0.0000	4.5395	0.0000	0.0000	4.6964	0.0000	0.0000	4.9843	0.0000	0.0000	5.5210	0.0000
2430000000	Rubber/Plastics	All Processes	Total: All Solvent Types	0.0000	0.3029	0.0000	0.0000	0.3029	0.0000	0.0000	0.3029	0.0000	0.0000	0.3029	0.0000	0.0000	0.3029	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2440020000	Miscellaneous Industrial	Adhesive (Industrial) Application	Total: All Solvent Types	0.0000	1.1304	0.0000	0.0000	1.1304	0.0000	0.0000	1.1304	0.0000	0.0000	1.1304	0.0000	0.0000	1.1304	0.0000
2461800000	Miscellaneous Non-industria	Pesticide Application: All Processes	Total: All Solvent Types	0.0000	0.0215	0.0000	0.0000	0.0226	0.0000	0.0000	0.0235	0.0000	0.0000	0.0244	0.0000	0.0000	0.0257	0.0000
2465100000	Miscellaneous Non-industria	Personal Care Products	Total: All Solvent Types	0.0000	1.2820	0.0000	0.0000	1.3437	0.0000	0.0000	1.3972	0.0000	0.0000	1.4532	0.0000	0.0000	1.5329	0.0000
2465200000	Miscellaneous Non-industria	Household Products	Total: All Solvent Types	0.0000	1.0040	0.0000	0.0000	1.0523	0.0000	0.0000	1.0942	0.0000	0.0000	1.1381	0.0000	0.0000	1.2005	0.0000
2465400000	Miscellaneous Non-industria	Automotive Aftermarket Products	Total: All Solvent Types	0.0000	3.6455	0.0000	0.0000	3.8209	0.0000	0.0000	3.9729	0.0000	0.0000	4.1322	0.0000	0.0000	4.3589	0.0000
2465600000	Miscellaneous Non-industria	Adhesives and Sealants	Total: All Solvent Types	0.0000	1.9771	0.0000	0.0000	2.0722	0.0000	0.0000	2.1546	0.0000	0.0000	2.2410	0.0000	0.0000	2.3640	0.0000
2501000000	Storage and Transport	Petroleum and Petroleum Product Storage	All Storage Types: Breathing Loss	0.0000	0.0091	0.0000	0.0000	0.0091	0.0000	0.0000	0.0091	0.0000	0.0000	0.0091	0.0000	0.0000	0.0091	0.0000
2501010000	Storage and Transport	Petroleum and Petroleum Product Storage	Commercial/Industrial: Breathing Loss	0.0000	0.0091	0.0000	0.0000	0.0091	0.0000	0.0000	0.0091	0.0000	0.0000	0.0091	0.0000	0.0000	0.0091	0.0000
2501050000	Storage and Transport	Petroleum and Petroleum Product Storage	Bulk Stations/Terminals: Breathing Loss	0.0000	0.0156	0.0000	0.0000	0.0156	0.0000	0.0000	0.0156	0.0000	0.0000	0.0156	0.0000	0.0000	0.0156	0.0000
2501060053	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 1: Balanced Submerged Filling	0.0000	1.0354	0.0000	0.0000	1.0367	0.0000	0.0000	1.0447	0.0000	0.0000	1.0483	0.0000	0.0000	1.0491	0.0000
2501060100	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Total	0.0000	1.0474	0.0000	0.0000	1.0486	0.0000	0.0000	1.0568	0.0000	0.0000	1.0604	0.0000	0.0000	1.0612	0.0000
2501060102	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Displacement Loss/Controlled	0.0000	1.0435	0.0000	0.0000	1.0447	0.0000	0.0000	1.0529	0.0000	0.0000	1.0564	0.0000	0.0000	1.0573	0.0000
2501060201	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Underground Tank: Breathing and Emptying	0.0000	0.0853	0.0000	0.0000	0.0854	0.0000	0.0000	0.0861	0.0000	0.0000	0.0863	0.0000	0.0000	0.0864	0.0000
2505030120	Petroleum and Petroleum Product Storage	Truck	Gasoline	0.0000	0.2273	0.0000	0.0000	0.2276	0.0000	0.0000	0.2294	0.0000	0.0000	0.2301	0.0000	0.0000	0.2303	0.0000
2510995000	Organic Chemical Storage	All Storage Types: Working Loss	Total: All Products	0.0000	0.0110	0.0000	0.0000	0.0118	0.0000	0.0000	0.0120	0.0000	0.0000	0.0127	0.0000	0.0000	0.0147	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2620030000	Landfills	Municipal	Total	0.0000	0.1516	0.0000	0.0000	0.1680	0.0000	0.0000	0.1821	0.0000	0.0000	0.1989	0.0000	0.0000	0.2251	0.0000
2630020000	Wastewater Treatment	Public Owned	Total Processed	0.0000	0.5138	0.0000	0.0000	0.5693	0.0000	0.0000	0.6172	0.0000	0.0000	0.6739	0.0000	0.0000	0.7628	0.0000
2810030000	Miscellaneous Area Sources	Other Combustion	Structure Fires	0.0022	0.0175	0.0952	0.0022	0.0175	0.0952	0.0022	0.0175	0.0952	0.0022	0.0175	0.0952	0.0022	0.0175	0.0952
Total				16.1810	35.7812	9.3465	18.5535	37.9764	9.9843	19.6425	39.6646	10.2002	20.7663	41.4847	10.4519	21.5605	44.2422	10.6145

Area Source Emissions Summary for Rutherford County (FIPS 47149) by Source Category

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2102002000	Industrial	Bituminous/Subbituminous Coal	Total: All Boiler Types	1.2375	0.0807	1.0853	1.1040	0.0720	0.9682	1.0454	0.0681	0.9168	1.0164	0.0662	0.8914	0.9988	0.0651	0.8760
2102004000	Industrial	Distillate Oil	Total: Boilers and IC Engines	0.0476	0.0006	0.0142	0.0470	0.0006	0.0140	0.0456	0.0006	0.0136	0.0468	0.0006	0.0140	0.0485	0.0006	0.0145
2102006001	Industrial	Natural Gas	All Boiler Types	0.3230	0.0099	0.1519	0.3325	0.0102	0.1564	0.3321	0.0102	0.1562	0.3428	0.0106	0.1612	0.3460	0.0107	0.1627
2102007000	Industrial	Liquified Petroleum Gas	Total: All Boiler Types	0.0144	0.0004	0.0049	0.0136	0.0004	0.0046	0.0137	0.0004	0.0047	0.0140	0.0004	0.0047	0.0143	0.0004	0.0049
2103002000	Commercial/Institutional	Bituminous/Subbituminous Coal	Total: All Boiler Types	0.0130	0.0006	0.0092	0.0135	0.0006	0.0096	0.0137	0.0006	0.0097	0.0136	0.0006	0.0097	0.0136	0.0006	0.0097
2103004000	Commercial/Institutional	Distillate Oil	Total: Boilers and IC Engines	0.0280	0.0005	0.0070	0.0319	0.0006	0.0080	0.0329	0.0006	0.0083	0.0332	0.0006	0.0083	0.0341	0.0006	0.0086
2103005000	Commercial/Institutional	Residual Oil	Total: All Boiler Types	0.0014	0.0000	0.0001	0.0006	0.0000	0.0001	0.0001	0.0000	0.0000	0.0006	0.0000	0.0001	0.0007	0.0000	0.0001
2103006000	Commercial/Institutional	Natural Gas	Total: Boilers and IC Engines	0.1838	0.0098	0.0368	0.2179	0.0116	0.0436	0.2371	0.0126	0.0474	0.2543	0.0135	0.0509	0.2669	0.0142	0.0534
2103007000	Commercial/Institutional	Liquified Petroleum Gas	Total: All Combustor Types	0.0070	0.0004	0.0014	0.0070	0.0004	0.0014	0.0071	0.0004	0.0014	0.0072	0.0004	0.0015	0.0073	0.0004	0.0015
2103011000	Commercial/Institutional	Kerosene	Total: All Combustor Types	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000
2104002000	Residential	Bituminous/Subbituminous Coal	Total: All Combustor Types	0.0040	0.0047	0.0419	0.0039	0.0045	0.0404	0.0036	0.0041	0.0371	0.0033	0.0039	0.0345	0.0030	0.0035	0.0315
2104004000	Residential	Distillate Oil	Total: All Combustor Types	0.0058	0.0002	0.0016	0.0052	0.0002	0.0015	0.0048	0.0002	0.0013	0.0044	0.0002	0.0012	0.0039	0.0001	0.0011
2104006000	Residential	Natural Gas	Total: All Combustor Types	0.2112	0.0112	0.0422	0.2271	0.0121	0.0454	0.2338	0.0124	0.0468	0.2409	0.0128	0.0482	0.2425	0.0129	0.0485
2104007000	Residential	Liquified Petroleum Gas	Total: All Combustor Types	0.0398	0.0021	0.0080	0.0366	0.0019	0.0074	0.0357	0.0019	0.0072	0.0348	0.0018	0.0070	0.0332	0.0018	0.0067
2104008001	Residential	Wood	Fireplaces: General	0.0040	0.3518	0.0985	0.0041	0.3565	0.0998	0.0040	0.3516	0.0984	0.0040	0.3495	0.0978	0.0039	0.3443	0.0964
2104008002	Residential	Wood	Fireplaces: Insert; non-EPA certified	0.0085	0.1616	0.7039	0.0090	0.1705	0.7423	0.0091	0.1729	0.7529	0.0093	0.1757	0.7650	0.0094	0.1783	0.7763
2104008003	Residential	Wood	Fireplaces: Insert; EPA certified; non-catalytic	0.0000	0.0023	0.0266	0.0000	0.0024	0.0281	0.0000	0.0024	0.0285	0.0000	0.0025	0.0289	0.0000	0.0025	0.0293

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2104008004	Residential	Wood	Fireplaces: Insert; EPA certified; catalytic	0.0002	0.0012	0.0080	0.0002	0.0012	0.0084	0.0002	0.0012	0.0085	0.0002	0.0013	0.0087	0.0002	0.0013	0.0088
2104008010	Residential	Wood	Woodstoves: General	0.0074	0.1399	0.6092	0.0075	0.1417	0.6172	0.0074	0.1398	0.6087	0.0073	0.1390	0.6052	0.0072	0.1369	0.5961
2104008030	Residential	Wood	Catalytic Woodstoves: General	0.0001	0.0010	0.0069	0.0001	0.0010	0.0070	0.0001	0.0010	0.0069	0.0001	0.0010	0.0069	0.0001	0.0010	0.0068
2104008050	Residential	Wood	Non-catalytic Woodstoves: EPA certified	0.0000	0.0020	0.0230	0.0000	0.0020	0.0233	0.0000	0.0020	0.0230	0.0000	0.0020	0.0229	0.0000	0.0019	0.0225
2104011000	Residential	Kerosene	Total: All Heater Types	0.0027	0.0001	0.0008	0.0042	0.0002	0.0012	0.0039	0.0002	0.0011	0.0037	0.0001	0.0011	0.0033	0.0001	0.0009
2275900000	Aircraft	Refueling: All Fuels	All Processes	0.0000	0.0243	0.0000	0.0000	0.0280	0.0000	0.0000	0.0316	0.0000	0.0000	0.0347	0.0000	0.0000	0.0387	0.0000
2302050000	Food and Kindred Products	Bakery Products	Total	0.0000	0.0903	0.0000	0.0000	0.0936	0.0000	0.0000	0.0970	0.0000	0.0000	0.0999	0.0000	0.0000	0.1039	0.0000
2401001000	Surface Coating	Architectural Coatings	Total: All Solvent Types	0.0000	0.7047	0.0000	0.0000	0.8021	0.0000	0.0000	0.8885	0.0000	0.0000	0.9578	0.0000	0.0000	1.0350	0.0000
2401005000	Surface Coating	Auto Refinishing	Total: All Solvent Types	0.0000	0.1336	0.0000	0.0000	0.1460	0.0000	0.0000	0.1586	0.0000	0.0000	0.1721	0.0000	0.0000	0.1875	0.0000
2401008000	Surface Coating	Traffic Markings	Total: All Solvent Types	0.0000	0.1454	0.0000	0.0000	0.1482	0.0000	0.0000	0.1533	0.0000	0.0000	0.1546	0.0000	0.0000	0.1549	0.0000
2401015000	Surface Coating	Factory Finished Wood	Total: All Solvent Types	0.0000	0.0033	0.0000	0.0000	0.0036	0.0000	0.0000	0.0039	0.0000	0.0000	0.0041	0.0000	0.0000	0.0045	0.0000
2401020000	Surface Coating	Wood Furniture	Total: All Solvent Types	0.0000	2.0210	0.0000	0.0000	2.2524	0.0000	0.0000	2.3270	0.0000	0.0000	2.5061	0.0000	0.0000	2.9608	0.0000
2401025000	Surface Coating	Metal Furniture	Total: All Solvent Types	0.0000	0.8860	0.0000	0.0000	0.9874	0.0000	0.0000	1.0201	0.0000	0.0000	1.0986	0.0000	0.0000	1.2980	0.0000
2401030000	Surface Coating	Paper	Total: All Solvent Types	0.0000	0.1206	0.0000	0.0000	0.1290	0.0000	0.0000	0.1356	0.0000	0.0000	0.1448	0.0000	0.0000	0.1619	0.0000
2401045000	Surface Coating	Metal Coils	Total: All Solvent Types	0.0000	0.3619	0.0000	0.0000	0.3619	0.0000	0.0000	0.3619	0.0000	0.0000	0.3619	0.0000	0.0000	0.3619	0.0000
2401065000	Surface Coating	Electronic and Other Electrical	Total: All Solvent Types	0.0000	0.5606	0.0000	0.0000	0.5528	0.0000	0.0000	0.3879	0.0000	0.0000	0.2915	0.0000	0.0000	0.2744	0.0000
2401080000	Surface Coating	Marine	Total: All Solvent Types	0.0000	0.1972	0.0000	0.0000	0.2083	0.0000	0.0000	0.2058	0.0000	0.0000	0.2147	0.0000	0.0000	0.2382	0.0000
2401090000	Surface Coating	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.3525	0.0000	0.0000	0.3525	0.0000	0.0000	0.3525	0.0000	0.0000	0.3525	0.0000	0.0000	0.3525	0.0000
2401100000	Surface Coating	Industrial Maintenance Coatings	Total: All Solvent Types	0.0000	0.2968	0.0000	0.0000	0.2968	0.0000	0.0000	0.2968	0.0000	0.0000	0.2968	0.0000	0.0000	0.2968	0.0000
2401200000	Surface Coating	Other Special Purpose Coatings	Total: All Solvent Types	0.0000	0.2211	0.0000	0.0000	0.2676	0.0000	0.0000	0.3106	0.0000	0.0000	0.3455	0.0000	0.0000	0.3939	0.0000
2415105000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0585	0.0000	0.0000	0.0653	0.0000	0.0000	0.0674	0.0000	0.0000	0.0726	0.0000	0.0000	0.0858	0.0000
2415110000	Degreasing	Primary Metal Industries	Total: All Solvent Types	0.0000	0.0223	0.0000	0.0000	0.0247	0.0000	0.0000	0.0265	0.0000	0.0000	0.0288	0.0000	0.0000	0.0335	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2415120000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.1424	0.0000	0.0000	0.1640	0.0000	0.0000	0.1842	0.0000	0.0000	0.2019	0.0000	0.0000	0.2295	0.0000
2415125000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.1052	0.0000	0.0000	0.1637	0.0000	0.0000	0.2274	0.0000	0.0000	0.2800	0.0000	0.0000	0.3471	0.0000
2415130000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.0454	0.0000	0.0000	0.0579	0.0000	0.0000	0.0694	0.0000	0.0000	0.0805	0.0000	0.0000	0.0998	0.0000
2415135000	Degreasing	Transportation Equipment	Total: All Solvent Types	0.0000	0.0528	0.0000	0.0000	0.0611	0.0000	0.0000	0.0704	0.0000	0.0000	0.0777	0.0000	0.0000	0.0876	0.0000
2415140000	Degreasing	Instruments and Related Products	Total: All Solvent Types	0.0000	0.0068	0.0000	0.0000	0.0080	0.0000	0.0000	0.0089	0.0000	0.0000	0.0098	0.0000	0.0000	0.0114	0.0000
2415145000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0336	0.0000	0.0000	0.0336	0.0000	0.0000	0.0336	0.0000	0.0000	0.0336	0.0000	0.0000	0.0336	0.0000
2415305000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0476	0.0000	0.0000	0.0530	0.0000	0.0000	0.0548	0.0000	0.0000	0.0590	0.0000	0.0000	0.0697	0.0000
2415310000	Degreasing	Primary Metal Industries	Total: All Solvent Types	0.0000	0.0038	0.0000	0.0000	0.0042	0.0000	0.0000	0.0046	0.0000	0.0000	0.0049	0.0000	0.0000	0.0057	0.0000
2415320000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.0358	0.0000	0.0000	0.0412	0.0000	0.0000	0.0463	0.0000	0.0000	0.0508	0.0000	0.0000	0.0577	0.0000
2415325000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.0358	0.0000	0.0000	0.0557	0.0000	0.0000	0.0774	0.0000	0.0000	0.0952	0.0000	0.0000	0.1180	0.0000
2415330000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.0112	0.0000	0.0000	0.0143	0.0000	0.0000	0.0172	0.0000	0.0000	0.0199	0.0000	0.0000	0.0247	0.0000
2415335000	Degreasing	Transportation Equipment	Total: All Solvent Types	0.0000	0.0112	0.0000	0.0000	0.0130	0.0000	0.0000	0.0150	0.0000	0.0000	0.0165	0.0000	0.0000	0.0186	0.0000
2415340000	Degreasing	Instruments and Related Products	Total: All Solvent Types	0.0000	0.0010	0.0000	0.0000	0.0012	0.0000	0.0000	0.0014	0.0000	0.0000	0.0015	0.0000	0.0000	0.0017	0.0000
2415345000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0260	0.0000	0.0000	0.0260	0.0000	0.0000	0.0260	0.0000	0.0000	0.0260	0.0000	0.0000	0.0260	0.0000
2415355000	Degreasing	Automotive Dealers	Total: All Solvent Types	0.0000	0.0921	0.0000	0.0000	0.1026	0.0000	0.0000	0.1103	0.0000	0.0000	0.1189	0.0000	0.0000	0.1323	0.0000
2415360000	Degreasing	Auto Repair Services	Total: All Solvent Types	0.0000	0.0308	0.0000	0.0000	0.0378	0.0000	0.0000	0.0446	0.0000	0.0000	0.0492	0.0000	0.0000	0.0539	0.0000
2420010055	Dry Cleaning	Commercial/Industrial Cleaners	Perchloroethylene	0.0000	0.0625	0.0000	0.0000	0.0643	0.0000	0.0000	0.0657	0.0000	0.0000	0.0688	0.0000	0.0000	0.0755	0.0000
2420010370	Dry Cleaning	Commercial/Industrial Cleaners	Special Naphthas	0.0000	0.1101	0.0000	0.0000	0.1133	0.0000	0.0000	0.1157	0.0000	0.0000	0.1213	0.0000	0.0000	0.1331	0.0000
2420020055	Dry Cleaning	Coin-operated Cleaners	Perchloroethylene	0.0000	0.0018	0.0000	0.0000	0.0019	0.0000	0.0000	0.0019	0.0000	0.0000	0.0020	0.0000	0.0000	0.0022	0.0000
2430000000	Rubber/Plastics	All Processes	Total: All Solvent Types	0.0000	0.2141	0.0000	0.0000	0.2141	0.0000	0.0000	0.2141	0.0000	0.0000	0.2141	0.0000	0.0000	0.2141	0.0000
2440020000	Miscellaneous Industrial	Adhesive (Industrial) Application	Total: All Solvent Types	0.0000	0.4840	0.0000	0.0000	0.4840	0.0000	0.0000	0.4840	0.0000	0.0000	0.4840	0.0000	0.0000	0.4840	0.0000
2461800000	Miscellaneous Non-industria	Pesticide Application: All Processes	Total: All Solvent Types	0.0000	0.1025	0.0000	0.0000	0.1075	0.0000	0.0000	0.1117	0.0000	0.0000	0.1162	0.0000	0.0000	0.1226	0.0000
2465100000	Miscellaneous Non-industria	Personal Care Products	Total: All Solvent Types	0.0000	0.2643	0.0000	0.0000	0.2770	0.0000	0.0000	0.2880	0.0000	0.0000	0.2996	0.0000	0.0000	0.3160	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2465200000	Miscellaneous Non-industria	Household Products	Total: All Solvent Types	0.0000	0.2069	0.0000	0.0000	0.2169	0.0000	0.0000	0.2255	0.0000	0.0000	0.2346	0.0000	0.0000	0.2474	0.0000
2465400000	Miscellaneous Non-industria	Automotive Aftermarket Products	Total: All Solvent Types	0.0000	0.7519	0.0000	0.0000	0.7881	0.0000	0.0000	0.8194	0.0000	0.0000	0.8523	0.0000	0.0000	0.8990	0.0000
2465600000	Miscellaneous Non-industria	Adhesives and Sealants	Total: All Solvent Types	0.0000	0.4081	0.0000	0.0000	0.4277	0.0000	0.0000	0.4447	0.0000	0.0000	0.4625	0.0000	0.0000	0.4879	0.0000
2501050000	Storage and Transport	Petroleum and Petroleum Product Storage	Bulk Stations/Terminals: Breathing Loss	0.0000	0.5835	0.0000	0.0000	0.5835	0.0000	0.0000	0.5835	0.0000	0.0000	0.5835	0.0000	0.0000	0.5835	0.0000
2501060050	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 1: Total	0.0000	1.6363	0.0000	0.0000	1.6383	0.0000	0.0000	1.6510	0.0000	0.0000	1.6566	0.0000	0.0000	1.6579	0.0000
2501060100	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Total	0.0000	0.3257	0.0000	0.0000	0.3261	0.0000	0.0000	0.3286	0.0000	0.0000	0.3297	0.0000	0.0000	0.3300	0.0000
2501060102	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Displacement Loss/Controlled	0.0000	0.3245	0.0000	0.0000	0.3249	0.0000	0.0000	0.3274	0.0000	0.0000	0.3285	0.0000	0.0000	0.3288	0.0000
2501060201	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Underground Tank: Breathing and Emptying	0.0000	0.0203	0.0000	0.0000	0.0203	0.0000	0.0000	0.0205	0.0000	0.0000	0.0205	0.0000	0.0000	0.0205	0.0000
2505000120	Petroleum and Petroleum Product Storage	All Transport Types	Gasoline	0.0000	0.0198	0.0000	0.0000	0.0198	0.0000	0.0000	0.0200	0.0000	0.0000	0.0201	0.0000	0.0000	0.0201	0.0000
2601010000	On-site Incineration	Industrial	Total	0.0468	0.0468	0.1559	0.0468	0.0468	0.1559	0.0468	0.0468	0.1559	0.0468	0.0468	0.1559	0.0468	0.0468	0.1559
2601020000	On-site Incineration	Commercial/Institutional	Total	0.0202	0.0202	0.0672	0.0229	0.0229	0.0762	0.0254	0.0254	0.0846	0.0275	0.0275	0.0915	0.0301	0.0301	0.1004
2610000100	Open Burning	All Categories	Yard Waste - Leaf Species Unspecified	0.0000	0.0212	0.0849	0.0000	0.0223	0.0890	0.0000	0.0231	0.0926	0.0000	0.0241	0.0963	0.0000	0.0254	0.1016
2610000400	Open Burning	All Categories	Yard Waste - Brush Species Unspecified	0.0000	0.0142	0.1044	0.0000	0.0148	0.1094	0.0000	0.0154	0.1138	0.0000	0.0161	0.1183	0.0000	0.0169	0.1248
2610030000	Open Burning	Residential	Household Waste	0.1076	0.5380	1.5242	0.1128	0.5638	1.5975	0.1173	0.5863	1.6611	0.1220	0.6098	1.7277	0.1286	0.6433	1.8225
2620030000	Landfills	Municipal	Total	0.0000	0.4929	0.0000	0.0000	0.5462	0.0000	0.0000	0.5922	0.0000	0.0000	0.6466	0.0000	0.0000	0.7319	0.0000
2630020000	Wastewater Treatment	Public Owned	Total Processed	0.0000	0.2135	0.0000	0.0000	0.2366	0.0000	0.0000	0.2565	0.0000	0.0000	0.2800	0.0000	0.0000	0.3170	0.0000
2660000000	Leaking Underground Storage	Leaking Underground Storage Tanks	Total: All Storage Types	0.0000	1.1187	0.0000	0.0000	1.1402	0.0000	0.0000	1.1794	0.0000	0.0000	1.1901	0.0000	0.0000	1.1923	0.0000
2801000005	Agriculture Production - Crops	Agriculture - Crops	Harvesting	0.0000	0.3629	0.0000	0.0000	0.4111	0.0000	0.0000	0.4499	0.0000	0.0000	0.4834	0.0000	0.0000	0.5211	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2810030000	Miscellaneous Area Sources	Other Combustion	Structure Fires	0.0007	0.0056	0.0304	0.0007	0.0056	0.0304	0.0007	0.0056	0.0304	0.0007	0.0056	0.0304	0.0007	0.0056	0.0304
Total				2.3149	16.0128	4.8485	2.2493	16.9658	4.8865	2.2206	17.4821	4.9169	2.2340	18.1692	4.9892	2.2436	19.5298	5.0918

Area Source Emissions Summary for Sumner County (FIPS 47165) by Source Category

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2102004000	Industrial	Distillate Oil	Total: Boilers and IC Engines	0.0009	0.0004	0.0002	0.0009	0.0004	0.0002	0.0008	0.0003	0.0002	0.0009	0.0004	0.0002	0.0009	0.0004	0.0002
2102005000	Industrial	Residual Oil	Total: All Boiler Types	0.0276	0.0001	0.0026	0.0360	0.0001	0.0034	0.0349	0.0001	0.0033	0.0351	0.0001	0.0033	0.0344	0.0001	0.0032
2102007000	Industrial	Liquified Petroleum Gas	Total: All Boiler Types	0.0116	0.0002	0.0029	0.0110	0.0002	0.0028	0.0111	0.0002	0.0028	0.0113	0.0002	0.0028	0.0116	0.0002	0.0029
2103002000	Commercial/Institutional	Bituminous/Subbituminous Coal	Total: All Boiler Types	0.0066	0.0003	0.0047	0.0069	0.0003	0.0049	0.0069	0.0003	0.0049	0.0069	0.0003	0.0049	0.0069	0.0003	0.0049
2103004000	Commercial/Institutional	Distillate Oil	Total: Boilers and IC Engines	0.0142	0.0002	0.0035	0.0161	0.0003	0.0040	0.0167	0.0003	0.0042	0.0168	0.0003	0.0042	0.0173	0.0003	0.0043
2103005000	Commercial/Institutional	Residual Oil	Total: All Boiler Types	0.0007	0.0000	0.0001	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0000	0.0000	0.0004	0.0000	0.0000
2103006000	Commercial/Institutional	Natural Gas	Total: Boilers and IC Engines	0.0930	0.0049	0.0186	0.1103	0.0058	0.0221	0.1200	0.0064	0.0240	0.1286	0.0068	0.0257	0.1350	0.0072	0.0270
2103007000	Commercial/Institutional	Liquified Petroleum Gas	Total: All Combustor Types	0.0036	0.0002	0.0007	0.0035	0.0002	0.0007	0.0036	0.0002	0.0007	0.0037	0.0002	0.0008	0.0037	0.0002	0.0008
2103011000	Commercial/Institutional	Kerosene	Total: All Combustor Types	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000
2104002000	Residential	Bituminous/Subbituminous Coal	Total: All Combustor Types	0.0035	0.0041	0.0365	0.0034	0.0039	0.0352	0.0031	0.0036	0.0323	0.0029	0.0033	0.0301	0.0026	0.0030	0.0274
2104004000	Residential	Distillate Oil	Total: All Combustor Types	0.0050	0.0002	0.0014	0.0046	0.0002	0.0013	0.0041	0.0002	0.0012	0.0038	0.0001	0.0011	0.0033	0.0001	0.0009
2104006000	Residential	Natural Gas	Total: All Combustor Types	0.1839	0.0098	0.0368	0.1977	0.0105	0.0395	0.2035	0.0108	0.0407	0.2097	0.0111	0.0419	0.2111	0.0112	0.0422
2104007000	Residential	Liquified Petroleum Gas	Total: All Combustor Types	0.0346	0.0019	0.0070	0.0319	0.0017	0.0065	0.0311	0.0017	0.0063	0.0303	0.0016	0.0061	0.0290	0.0016	0.0059
2104008001	Residential	Wood	Fireplaces: General	0.0094	0.8282	0.2318	0.0095	0.8392	0.2349	0.0094	0.8277	0.2317	0.0093	0.8228	0.2303	0.0092	0.8105	0.2268
2104008002	Residential	Wood	Fireplaces: Insert; non-EPA certified	0.0201	0.3805	1.6570	0.0212	0.4013	1.7475	0.0215	0.4070	1.7723	0.0219	0.4135	1.8008	0.0222	0.4197	1.8275

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2104008003	Residential	Wood	Fireplaces: Insert; EPA certified; non-catalytic	0.0000	0.0053	0.0626	0.0000	0.0056	0.0660	0.0000	0.0057	0.0670	0.0000	0.0058	0.0681	0.0000	0.0059	0.0691
2104008004	Residential	Wood	Fireplaces: Insert; EPA certified; catalytic	0.0004	0.0027	0.0187	0.0004	0.0028	0.0198	0.0004	0.0029	0.0200	0.0004	0.0029	0.0204	0.0004	0.0030	0.0207
2104008010	Residential	Wood	Woodstoves: General	0.0174	0.3293	1.4341	0.0176	0.3337	1.4531	0.0174	0.3291	1.4331	0.0173	0.3272	1.4247	0.0170	0.3223	1.4034
2104008030	Residential	Wood	Catalytic Woodstoves: General	0.0003	0.0023	0.0162	0.0003	0.0024	0.0164	0.0003	0.0023	0.0162	0.0003	0.0023	0.0161	0.0003	0.0023	0.0159
2104008050	Residential	Wood	Non-catalytic Woodstoves: EPA certified	0.0000	0.0046	0.0542	0.0000	0.0047	0.0549	0.0000	0.0046	0.0542	0.0000	0.0046	0.0538	0.0000	0.0045	0.0530
2104011000	Residential	Kerosene	Total: All Heater Types	0.0024	0.0001	0.0007	0.0037	0.0001	0.0010	0.0035	0.0001	0.0009	0.0032	0.0001	0.0009	0.0029	0.0001	0.0008
2275900000	Aircraft	Refueling: All Fuels	All Processes	0.0000	0.0012	0.0000	0.0000	0.0014	0.0000	0.0000	0.0015	0.0000	0.0000	0.0017	0.0000	0.0000	0.0019	0.0000
2302050000	Food and Kindred Products	Bakery Products	Total	0.0000	0.0786	0.0000	0.0000	0.0815	0.0000	0.0000	0.0844	0.0000	0.0000	0.0870	0.0000	0.0000	0.0905	0.0000
2401001000	Surface Coating	Architectural Coatings	Total: All Solvent Types	0.0000	0.6631	0.0000	0.0000	0.7548	0.0000	0.0000	0.8361	0.0000	0.0000	0.9012	0.0000	0.0000	0.9739	0.0000
2401005000	Surface Coating	Auto Refinishing	Total: All Solvent Types	0.0000	0.0745	0.0000	0.0000	0.0814	0.0000	0.0000	0.0885	0.0000	0.0000	0.0960	0.0000	0.0000	0.1046	0.0000
2401008000	Surface Coating	Traffic Markings	Total: All Solvent Types	0.0000	0.1388	0.0000	0.0000	0.1415	0.0000	0.0000	0.1464	0.0000	0.0000	0.1477	0.0000	0.0000	0.1480	0.0000
2401015000	Surface Coating	Factory Finished Wood	Total: All Solvent Types	0.0000	0.0005	0.0000	0.0000	0.0006	0.0000	0.0000	0.0006	0.0000	0.0000	0.0007	0.0000	0.0000	0.0007	0.0000
2401020000	Surface Coating	Wood Furniture	Total: All Solvent Types	0.0000	1.9323	0.0000	0.0000	2.1536	0.0000	0.0000	2.2249	0.0000	0.0000	2.3961	0.0000	0.0000	2.8309	0.0000
2401030000	Surface Coating	Paper	Total: All Solvent Types	0.0000	0.0174	0.0000	0.0000	0.0186	0.0000	0.0000	0.0195	0.0000	0.0000	0.0209	0.0000	0.0000	0.0233	0.0000
2401045000	Surface Coating	Metal Coils	Total: All Solvent Types	0.0000	0.3179	0.0000	0.0000	0.3179	0.0000	0.0000	0.3179	0.0000	0.0000	0.3179	0.0000	0.0000	0.3179	0.0000
2401065000	Surface Coating	Electronic and Other Electrical	Total: All Solvent Types	0.0000	0.1186	0.0000	0.0000	0.1169	0.0000	0.0000	0.0820	0.0000	0.0000	0.0617	0.0000	0.0000	0.0580	0.0000
2401070000	Surface Coating	Motor Vehicles	Total: All Solvent Types	0.0000	0.3487	0.0000	0.0000	0.4058	0.0000	0.0000	0.4730	0.0000	0.0000	0.5235	0.0000	0.0000	0.5905	0.0000
2401080000	Surface Coating	Marine	Total: All Solvent Types	0.0000	0.0210	0.0000	0.0000	0.0222	0.0000	0.0000	0.0219	0.0000	0.0000	0.0229	0.0000	0.0000	0.0254	0.0000
2401090000	Surface Coating	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.2064	0.0000	0.0000	0.2064	0.0000	0.0000	0.2064	0.0000	0.0000	0.2064	0.0000	0.0000	0.2064	0.0000
2401100000	Surface Coating	Industrial Maintenance Coatings	Total: All Solvent Types	0.0000	0.1738	0.0000	0.0000	0.1738	0.0000	0.0000	0.1738	0.0000	0.0000	0.1738	0.0000	0.0000	0.1738	0.0000
2401200000	Surface Coating	Other Special Purpose Coatings	Total: All Solvent Types	0.0000	0.2095	0.0000	0.0000	0.2536	0.0000	0.0000	0.2943	0.0000	0.0000	0.3274	0.0000	0.0000	0.3732	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2415105000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0904	0.0000	0.0000	0.1007	0.0000	0.0000	0.1041	0.0000	0.0000	0.1121	0.0000	0.0000	0.1324	0.0000
2415110000	Degreasing	Primary Metal Industries	Total: All Solvent Types	0.0000	0.0088	0.0000	0.0000	0.0097	0.0000	0.0000	0.0105	0.0000	0.0000	0.0114	0.0000	0.0000	0.0132	0.0000
2415120000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.1587	0.0000	0.0000	0.1827	0.0000	0.0000	0.2053	0.0000	0.0000	0.2250	0.0000	0.0000	0.2557	0.0000
2415125000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.0225	0.0000	0.0000	0.0351	0.0000	0.0000	0.0487	0.0000	0.0000	0.0600	0.0000	0.0000	0.0744	0.0000
2415130000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.0660	0.0000	0.0000	0.0841	0.0000	0.0000	0.1008	0.0000	0.0000	0.1169	0.0000	0.0000	0.1449	0.0000
2415135000	Degreasing	Transportation Equipment	Total: All Solvent Types	0.0000	0.0153	0.0000	0.0000	0.0177	0.0000	0.0000	0.0204	0.0000	0.0000	0.0225	0.0000	0.0000	0.0254	0.0000
2415140000	Degreasing	Instruments and Related Products	Total: All Solvent Types	0.0000	0.0016	0.0000	0.0000	0.0019	0.0000	0.0000	0.0021	0.0000	0.0000	0.0023	0.0000	0.0000	0.0027	0.0000
2415145000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0031	0.0000	0.0000	0.0031	0.0000	0.0000	0.0031	0.0000	0.0000	0.0031	0.0000	0.0000	0.0031	0.0000
2415305000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0747	0.0000	0.0000	0.0833	0.0000	0.0000	0.0861	0.0000	0.0000	0.0927	0.0000	0.0000	0.1095	0.0000
2415310000	Degreasing	Primary Metal Industries	Total: All Solvent Types	0.0000	0.0019	0.0000	0.0000	0.0021	0.0000	0.0000	0.0023	0.0000	0.0000	0.0025	0.0000	0.0000	0.0029	0.0000
2415320000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.0399	0.0000	0.0000	0.0460	0.0000	0.0000	0.0517	0.0000	0.0000	0.0566	0.0000	0.0000	0.0644	0.0000
2415325000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.0076	0.0000	0.0000	0.0119	0.0000	0.0000	0.0165	0.0000	0.0000	0.0203	0.0000	0.0000	0.0251	0.0000
2415330000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.0071	0.0000	0.0000	0.0091	0.0000	0.0000	0.0109	0.0000	0.0000	0.0126	0.0000	0.0000	0.0156	0.0000
2415335000	Degreasing	Transportation Equipment	Total: All Solvent Types	0.0000	0.0032	0.0000	0.0000	0.0036	0.0000	0.0000	0.0042	0.0000	0.0000	0.0046	0.0000	0.0000	0.0052	0.0000
2415345000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0020	0.0000	0.0000	0.0020	0.0000	0.0000	0.0020	0.0000	0.0000	0.0020	0.0000	0.0000	0.0020	0.0000
2415355000	Degreasing	Automotive Dealers	Total: All Solvent Types	0.0000	0.0578	0.0000	0.0000	0.0644	0.0000	0.0000	0.0692	0.0000	0.0000	0.0746	0.0000	0.0000	0.0830	0.0000
2415360000	Degreasing	Auto Repair Services	Total: All Solvent Types	0.0000	0.0135	0.0000	0.0000	0.0165	0.0000	0.0000	0.0195	0.0000	0.0000	0.0215	0.0000	0.0000	0.0236	0.0000
2415365000	Degreasing	Miscellaneous Repair Services	Total: All Solvent Types	0.0000	0.0011	0.0000	0.0000	0.0013	0.0000	0.0000	0.0014	0.0000	0.0000	0.0015	0.0000	0.0000	0.0017	0.0000
2420010055	Dry Cleaning	Commercial/Industrial Cleaners	Perchloroethylene	0.0000	0.0651	0.0000	0.0000	0.0670	0.0000	0.0000	0.0684	0.0000	0.0000	0.0717	0.0000	0.0000	0.0787	0.0000
2420010370	Dry Cleaning	Commercial/Industrial Cleaners	Special Naphthas	0.0000	0.1145	0.0000	0.0000	0.1178	0.0000	0.0000	0.1203	0.0000	0.0000	0.1261	0.0000	0.0000	0.1384	0.0000
2420020055	Dry Cleaning	Coin-operated Cleaners	Perchloroethylene	0.0000	0.0022	0.0000	0.0000	0.0023	0.0000	0.0000	0.0023	0.0000	0.0000	0.0024	0.0000	0.0000	0.0026	0.0000
2430000000	Rubber/Plastics	All Processes	Total: All Solvent Types	0.0000	0.1124	0.0000	0.0000	0.1124	0.0000	0.0000	0.1124	0.0000	0.0000	0.1124	0.0000	0.0000	0.1124	0.0000
2440020000	Miscellaneous Industrial	Adhesive (Industrial) Application	Total: All Solvent Types	0.0000	0.2810	0.0000	0.0000	0.2810	0.0000	0.0000	0.2810	0.0000	0.0000	0.2810	0.0000	0.0000	0.2810	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2461800000	Miscellaneous Non-industria	Pesticide Application: All Processes	Total: All Solvent Types	0.0000	0.1198	0.0000	0.0000	0.1255	0.0000	0.0000	0.1305	0.0000	0.0000	0.1358	0.0000	0.0000	0.1432	0.0000
2465100000	Miscellaneous Non-industria	Personal Care Products	Total: All Solvent Types	0.0000	0.2487	0.0000	0.0000	0.2607	0.0000	0.0000	0.2710	0.0000	0.0000	0.2819	0.0000	0.0000	0.2974	0.0000
2465200000	Miscellaneous Non-industria	Household Products	Total: All Solvent Types	0.0000	0.1945	0.0000	0.0000	0.2039	0.0000	0.0000	0.2120	0.0000	0.0000	0.2205	0.0000	0.0000	0.2326	0.0000
2465400000	Miscellaneous Non-industria	Automotive Aftermarket Products	Total: All Solvent Types	0.0000	0.7075	0.0000	0.0000	0.7415	0.0000	0.0000	0.7710	0.0000	0.0000	0.8019	0.0000	0.0000	0.8459	0.0000
2465600000	Miscellaneous Non-industria	Adhesives and Sealants	Total: All Solvent Types	0.0000	0.3835	0.0000	0.0000	0.4019	0.0000	0.0000	0.4179	0.0000	0.0000	0.4347	0.0000	0.0000	0.4585	0.0000
2501050000	Storage and Transport	Petroleum and Petroleum Product Storage	Bulk Stations/Terminals: Breathing Loss	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000
2501060050	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 1: Total	0.0000	1.1697	0.0000	0.0000	1.1711	0.0000	0.0000	1.1803	0.0000	0.0000	1.1842	0.0000	0.0000	1.1852	0.0000
2501060100	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Total	0.0000	0.1732	0.0000	0.0000	0.1734	0.0000	0.0000	0.1747	0.0000	0.0000	0.1753	0.0000	0.0000	0.1754	0.0000
2501060102	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Displacement Loss/Controlled	0.0000	0.1722	0.0000	0.0000	0.1725	0.0000	0.0000	0.1738	0.0000	0.0000	0.1744	0.0000	0.0000	0.1745	0.0000
2501060201	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Underground Tank: Breathing and Emptying	0.0000	0.0145	0.0000	0.0000	0.0145	0.0000	0.0000	0.0147	0.0000	0.0000	0.0147	0.0000	0.0000	0.0147	0.0000
2505000120	Petroleum and Petroleum Product Storage	All Transport Types	Gasoline	0.0000	0.0141	0.0000	0.0000	0.0142	0.0000	0.0000	0.0143	0.0000	0.0000	0.0143	0.0000	0.0000	0.0143	0.0000
2601010000	On-site Incineration	Industrial	Total	0.0277	0.0277	0.0924	0.0277	0.0277	0.0924	0.0277	0.0277	0.0924	0.0277	0.0277	0.0924	0.0277	0.0277	0.0924
2601020000	On-site Incineration	Commercial/Institutional	Total	0.0176	0.0176	0.0585	0.0199	0.0199	0.0664	0.0221	0.0221	0.0736	0.0239	0.0239	0.0797	0.0263	0.0263	0.0874
2610000100	Open Burning	All Categories	Yard Waste - Leaf Species Unspecified	0.0000	0.0067	0.0270	0.0000	0.0071	0.0283	0.0000	0.0073	0.0294	0.0000	0.0076	0.0306	0.0000	0.0081	0.0323
2610000400	Open Burning	All Categories	Yard Waste - Brush Species Unspecified	0.0000	0.0045	0.0332	0.0000	0.0047	0.0348	0.0000	0.0049	0.0362	0.0000	0.0051	0.0376	0.0000	0.0054	0.0397
2610030000	Open Burning	Residential	Household Waste	0.0684	0.3419	0.9686	0.0716	0.3583	1.0152	0.0745	0.3726	1.0556	0.0775	0.3875	1.0979	0.0817	0.4088	1.1582
2620030000	Landfills	Municipal	Total	0.0000	0.0364	0.0000	0.0000	0.0404	0.0000	0.0000	0.0438	0.0000	0.0000	0.0478	0.0000	0.0000	0.0541	0.0000
2630020000	Wastewater Treatment	Public Owned	Total Processed	0.0000	0.0555	0.0000	0.0000	0.0615	0.0000	0.0000	0.0666	0.0000	0.0000	0.0728	0.0000	0.0000	0.0824	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2640000000	TSDFs	All TSDF Types	Total: All Processes	0.0000	0.0032	0.0000	0.0000	0.0035	0.0000	0.0000	0.0038	0.0000	0.0000	0.0041	0.0000	0.0000	0.0047	0.0000
2660000000	Leaking Underground Storage	Leaking Underground Storage Tanks	Total: All Storage Types	0.0000	0.8330	0.0000	0.0000	0.8490	0.0000	0.0000	0.8783	0.0000	0.0000	0.8862	0.0000	0.0000	0.8879	0.0000
2801000005	Agriculture Production - Crops	Agriculture - Crops	Harvesting	0.0000	0.4419	0.0000	0.0000	0.5007	0.0000	0.0000	0.5479	0.0000	0.0000	0.5886	0.0000	0.0000	0.6345	0.0000
2810030000	Miscellaneous Area Sources	Other Combustion	Structure Fires	0.0005	0.0040	0.0218	0.0005	0.0040	0.0218	0.0005	0.0040	0.0218	0.0005	0.0040	0.0218	0.0005	0.0040	0.0218
Total				0.5493	12.1985	4.7918	0.5952	12.9552	4.9730	0.6132	13.4572	5.0250	0.6323	14.0177	5.0962	0.6445	14.9955	5.1687

Area Source Emissions Summary for Williamson County (FIPS 47187) by Source Category

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2102002000	Industrial	Bituminous/Subbituminous Coal	Total: All Boiler Types	0.5978	0.0293	0.4452	0.5333	0.0261	0.3971	0.5050	0.0247	0.3761	0.4910	0.0241	0.3656	0.4825	0.0236	0.3593
2102004000	Industrial	Distillate Oil	Total: Boilers and IC Engines	0.0200	0.0002	0.0052	0.0198	0.0002	0.0051	0.0192	0.0002	0.0049	0.0197	0.0002	0.0051	0.0204	0.0002	0.0052
2102005000	Industrial	Residual Oil	Total: All Boiler Types	0.0169	0.0001	0.0016	0.0220	0.0001	0.0021	0.0213	0.0001	0.0020	0.0215	0.0001	0.0020	0.0211	0.0001	0.0020
2102006001	Industrial	Natural Gas	All Boiler Types	0.0285	0.0027	0.0558	0.0293	0.0027	0.0574	0.0293	0.0027	0.0573	0.0302	0.0028	0.0592	0.0305	0.0028	0.0597
2102007000	Industrial	Liquified Petroleum Gas	Total: All Boiler Types	0.0072	0.0001	0.0018	0.0068	0.0001	0.0017	0.0068	0.0001	0.0017	0.0069	0.0001	0.0017	0.0071	0.0001	0.0018
2103002000	Commercial/Institutional	Bituminous/Subbituminous Coal	Total: All Boiler Types	0.0107	0.0005	0.0076	0.0112	0.0005	0.0079	0.0113	0.0005	0.0080	0.0113	0.0005	0.0080	0.0113	0.0005	0.0080
2103004000	Commercial/Institutional	Distillate Oil	Total: Boilers and IC Engines	0.0232	0.0004	0.0058	0.0263	0.0004	0.0066	0.0272	0.0005	0.0068	0.0274	0.0005	0.0069	0.0282	0.0005	0.0071
2103005000	Commercial/Institutional	Residual Oil	Total: All Boiler Types	0.0011	0.0000	0.0001	0.0005	0.0000	0.0000	0.0001	0.0000	0.0000	0.0005	0.0000	0.0000	0.0006	0.0000	0.0000
2103006000	Commercial/Institutional	Natural Gas	Total: Boilers and IC Engines	0.1520	0.0081	0.0304	0.1803	0.0096	0.0361	0.1961	0.0104	0.0392	0.2103	0.0111	0.0421	0.2207	0.0117	0.0442
2103007000	Commercial/Institutional	Liquified Petroleum Gas	Total: All Combustor Types	0.0058	0.0003	0.0012	0.0058	0.0003	0.0012	0.0059	0.0003	0.0012	0.0060	0.0003	0.0012	0.0060	0.0003	0.0012
2103011000	Commercial/Institutional	Kerosene	Total: All Combustor Types	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0000
2104002000	Residential	Bituminous/Subbituminous Coal	Total: All Combustor Types	0.0027	0.0032	0.0286	0.0026	0.0031	0.0276	0.0024	0.0028	0.0253	0.0023	0.0026	0.0236	0.0021	0.0024	0.0215
2104004000	Residential	Distillate Oil	Total: All Combustor Types	0.0039	0.0001	0.0011	0.0036	0.0001	0.0010	0.0033	0.0001	0.0009	0.0030	0.0001	0.0008	0.0026	0.0001	0.0007

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2104006000	Residential	Natural Gas	Total: All Combustor Types	0.1443	0.0076	0.0288	0.1552	0.0082	0.0310	0.1597	0.0085	0.0319	0.1646	0.0087	0.0329	0.1657	0.0088	0.0331
2104007000	Residential	Liquified Petroleum Gas	Total: All Combustor Types	0.0272	0.0015	0.0055	0.0250	0.0013	0.0051	0.0244	0.0013	0.0049	0.0238	0.0013	0.0048	0.0227	0.0012	0.0046
2104008001	Residential	Wood	Fireplaces: General	0.0031	0.2694	0.0754	0.0031	0.2730	0.0764	0.0031	0.2692	0.0753	0.0030	0.2677	0.0749	0.0030	0.2637	0.0738
2104008002	Residential	Wood	Fireplaces: Insert; non-EPA certified	0.0065	0.1238	0.5390	0.0069	0.1305	0.5684	0.0070	0.1324	0.5765	0.0071	0.1345	0.5858	0.0072	0.1365	0.5945
2104008003	Residential	Wood	Fireplaces: Insert; EPA certified; non-catalytic	0.0000	0.0017	0.0204	0.0000	0.0018	0.0215	0.0000	0.0018	0.0218	0.0000	0.0019	0.0222	0.0000	0.0019	0.0225
2104008004	Residential	Wood	Fireplaces: Insert; EPA certified; catalytic	0.0001	0.0009	0.0061	0.0001	0.0009	0.0064	0.0001	0.0009	0.0065	0.0001	0.0010	0.0066	0.0001	0.0010	0.0067
2104008010	Residential	Wood	Woodstoves: General	0.0057	0.1071	0.4665	0.0057	0.1085	0.4727	0.0057	0.1071	0.4662	0.0056	0.1064	0.4634	0.0055	0.1048	0.4565
2104008030	Residential	Wood	Catalytic Woodstoves: General	0.0001	0.0007	0.0053	0.0001	0.0007	0.0054	0.0001	0.0007	0.0053	0.0001	0.0007	0.0053	0.0001	0.0007	0.0052
2104008050	Residential	Wood	Non-catalytic Woodstoves: EPA certified	0.0000	0.0015	0.0176	0.0000	0.0015	0.0179	0.0000	0.0015	0.0176	0.0000	0.0015	0.0175	0.0000	0.0015	0.0172
2104011000	Residential	Kerosene	Total: All Heater Types	0.0019	0.0001	0.0005	0.0029	0.0001	0.0008	0.0027	0.0001	0.0007	0.0025	0.0001	0.0007	0.0023	0.0001	0.0006
2302050000	Food and Kindred Products	Bakery Products	Total	0.0000	0.0617	0.0000	0.0000	0.0639	0.0000	0.0000	0.0663	0.0000	0.0000	0.0682	0.0000	0.0000	0.0710	0.0000
2401001000	Surface Coating	Architectural Coatings	Total: All Solvent Types	0.0000	0.4947	0.0000	0.0000	0.5632	0.0000	0.0000	0.6238	0.0000	0.0000	0.6725	0.0000	0.0000	0.7267	0.0000
2401005000	Surface Coating	Auto Refinishing	Total: All Solvent Types	0.0000	0.0289	0.0000	0.0000	0.0316	0.0000	0.0000	0.0344	0.0000	0.0000	0.0373	0.0000	0.0000	0.0406	0.0000
2401008000	Surface Coating	Traffic Markings	Total: All Solvent Types	0.0000	0.1035	0.0000	0.0000	0.1055	0.0000	0.0000	0.1091	0.0000	0.0000	0.1101	0.0000	0.0000	0.1103	0.0000
2401015000	Surface Coating	Factory Finished Wood	Total: All Solvent Types	0.0000	0.0033	0.0000	0.0000	0.0036	0.0000	0.0000	0.0039	0.0000	0.0000	0.0041	0.0000	0.0000	0.0045	0.0000
2401020000	Surface Coating	Wood Furniture	Total: All Solvent Types	0.0000	0.2405	0.0000	0.0000	0.2681	0.0000	0.0000	0.2770	0.0000	0.0000	0.2983	0.0000	0.0000	0.3524	0.0000
2401025000	Surface Coating	Metal Furniture	Total: All Solvent Types	0.0000	0.1048	0.0000	0.0000	0.1168	0.0000	0.0000	0.1207	0.0000	0.0000	0.1300	0.0000	0.0000	0.1536	0.0000
2401045000	Surface Coating	Metal Coils	Total: All Solvent Types	0.0000	0.0627	0.0000	0.0000	0.0627	0.0000	0.0000	0.0627	0.0000	0.0000	0.0627	0.0000	0.0000	0.0627	0.0000
2401055000	Surface Coating	Machinery and Equipment	Total: All Solvent Types	0.0000	0.0748	0.0000	0.0000	0.1164	0.0000	0.0000	0.1617	0.0000	0.0000	0.1990	0.0000	0.0000	0.2468	0.0000
2401060000	Surface Coating	Large Appliances	Total: All Solvent Types	0.0000	0.5642	0.0000	0.0000	0.6397	0.0000	0.0000	0.6706	0.0000	0.0000	0.7340	0.0000	0.0000	0.9032	0.0000
2401065000	Surface Coating	Electronic and Other Electrical	Total: All Solvent Types	0.0000	0.0317	0.0000	0.0000	0.0313	0.0000	0.0000	0.0220	0.0000	0.0000	0.0165	0.0000	0.0000	0.0155	0.0000
2401070000	Surface Coating	Motor Vehicles	Total: All Solvent Types	0.0000	0.0993	0.0000	0.0000	0.1156	0.0000	0.0000	0.1347	0.0000	0.0000	0.1491	0.0000	0.0000	0.1682	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2401080000	Surface Coating	Marine	Total: All Solvent Types	0.0000	0.0068	0.0000	0.0000	0.0072	0.0000	0.0000	0.0071	0.0000	0.0000	0.0074	0.0000	0.0000	0.0082	0.0000
2401090000	Surface Coating	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.1162	0.0000	0.0000	0.1162	0.0000	0.0000	0.1162	0.0000	0.0000	0.1162	0.0000	0.0000	0.1162	0.0000
2401100000	Surface Coating	Industrial Maintenance Coatings	Total: All Solvent Types	0.0000	0.0974	0.0000	0.0000	0.0974	0.0000	0.0000	0.0974	0.0000	0.0000	0.0974	0.0000	0.0000	0.0974	0.0000
2401200000	Surface Coating	Other Special Purpose Coatings	Total: All Solvent Types	0.0000	0.1562	0.0000	0.0000	0.1891	0.0000	0.0000	0.2195	0.0000	0.0000	0.2442	0.0000	0.0000	0.2763	0.0000
2415105000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0075	0.0000	0.0000	0.0083	0.0000	0.0000	0.0086	0.0000	0.0000	0.0092	0.0000	0.0000	0.0109	0.0000
2415110000	Degreasing	Primary Metal Industries	Total: All Solvent Types	0.0000	0.0045	0.0000	0.0000	0.0050	0.0000	0.0000	0.0054	0.0000	0.0000	0.0059	0.0000	0.0000	0.0068	0.0000
2415120000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.0179	0.0000	0.0000	0.0206	0.0000	0.0000	0.0231	0.0000	0.0000	0.0254	0.0000	0.0000	0.0288	0.0000
2415125000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.0059	0.0000	0.0000	0.0091	0.0000	0.0000	0.0127	0.0000	0.0000	0.0156	0.0000	0.0000	0.0193	0.0000
2415130000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.1239	0.0000	0.0000	0.1581	0.0000	0.0000	0.1894	0.0000	0.0000	0.2197	0.0000	0.0000	0.2723	0.0000
2415135000	Degreasing	Transportation Equipment	Total: All Solvent Types	0.0000	0.0048	0.0000	0.0000	0.0056	0.0000	0.0000	0.0065	0.0000	0.0000	0.0071	0.0000	0.0000	0.0080	0.0000
2415140000	Degreasing	Instruments and Related Products	Total: All Solvent Types	0.0000	0.0068	0.0000	0.0000	0.0080	0.0000	0.0000	0.0089	0.0000	0.0000	0.0098	0.0000	0.0000	0.0114	0.0000
2415145000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0545	0.0000	0.0000	0.0545	0.0000	0.0000	0.0545	0.0000	0.0000	0.0545	0.0000	0.0000	0.0545	0.0000
2415305000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0064	0.0000	0.0000	0.0072	0.0000	0.0000	0.0074	0.0000	0.0000	0.0080	0.0000	0.0000	0.0094	0.0000
2415310000	Degreasing	Primary Metal Industries	Total: All Solvent Types	0.0000	0.0010	0.0000	0.0000	0.0011	0.0000	0.0000	0.0011	0.0000	0.0000	0.0012	0.0000	0.0000	0.0014	0.0000
2415320000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.0042	0.0000	0.0000	0.0048	0.0000	0.0000	0.0054	0.0000	0.0000	0.0059	0.0000	0.0000	0.0067	0.0000
2415325000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.0021	0.0000	0.0000	0.0033	0.0000	0.0000	0.0046	0.0000	0.0000	0.0057	0.0000	0.0000	0.0071	0.0000
2415330000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.0132	0.0000	0.0000	0.0168	0.0000	0.0000	0.0201	0.0000	0.0000	0.0234	0.0000	0.0000	0.0290	0.0000
2415335000	Degreasing	Transportation Equipment	Total: All Solvent Types	0.0000	0.0006	0.0000	0.0000	0.0007	0.0000	0.0000	0.0008	0.0000	0.0000	0.0009	0.0000	0.0000	0.0010	0.0000
2415340000	Degreasing	Instruments and Related Products	Total: All Solvent Types	0.0000	0.0010	0.0000	0.0000	0.0012	0.0000	0.0000	0.0014	0.0000	0.0000	0.0015	0.0000	0.0000	0.0017	0.0000
2415345000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0406	0.0000	0.0000	0.0406	0.0000	0.0000	0.0406	0.0000	0.0000	0.0406	0.0000	0.0000	0.0406	0.0000
2415355000	Degreasing	Automotive Dealers	Total: All Solvent Types	0.0000	0.0900	0.0000	0.0000	0.1002	0.0000	0.0000	0.1077	0.0000	0.0000	0.1161	0.0000	0.0000	0.1291	0.0000
2415360000	Degreasing	Auto Repair Services	Total: All Solvent Types	0.0000	0.0124	0.0000	0.0000	0.0152	0.0000	0.0000	0.0179	0.0000	0.0000	0.0197	0.0000	0.0000	0.0216	0.0000
2420010055	Dry Cleaning	Commercial/Industrial Cleaners	Perchloroethylene	0.0000	0.1684	0.0000	0.0000	0.1732	0.0000	0.0000	0.1769	0.0000	0.0000	0.1855	0.0000	0.0000	0.2036	0.0000
2420010370	Dry Cleaning	Commercial/Industrial Cleaners	Special Naphthas	0.0000	0.2967	0.0000	0.0000	0.3052	0.0000	0.0000	0.3118	0.0000	0.0000	0.3268	0.0000	0.0000	0.3587	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2420020055	Dry Cleaning	Coin-operated Cleaners	Perchloroethylene	0.0000	0.0015	0.0000	0.0000	0.0015	0.0000	0.0000	0.0015	0.0000	0.0000	0.0016	0.0000	0.0000	0.0018	0.0000
2425000000	Graphic Arts	All Processes	Total: All Solvent Types	0.0000	0.2275	0.0000	0.0000	0.2404	0.0000	0.0000	0.2487	0.0000	0.0000	0.2639	0.0000	0.0000	0.2923	0.0000
2430000000	Rubber/Plastics	All Processes	Total: All Solvent Types	0.0000	0.0573	0.0000	0.0000	0.0573	0.0000	0.0000	0.0573	0.0000	0.0000	0.0573	0.0000	0.0000	0.0573	0.0000
2440020000	Miscellaneous Industrial	Adhesive (Industrial) Application	Total: All Solvent Types	0.0000	0.1572	0.0000	0.0000	0.1572	0.0000	0.0000	0.1572	0.0000	0.0000	0.1572	0.0000	0.0000	0.1572	0.0000
2461800000	Miscellaneous Non-industria	Pesticide Application: All Processes	Total: All Solvent Types	0.0000	0.0857	0.0000	0.0000	0.0898	0.0000	0.0000	0.0934	0.0000	0.0000	0.0971	0.0000	0.0000	0.1025	0.0000
2465100000	Miscellaneous Non-industria	Personal Care Products	Total: All Solvent Types	0.0000	0.1858	0.0000	0.0000	0.1947	0.0000	0.0000	0.2025	0.0000	0.0000	0.2106	0.0000	0.0000	0.2221	0.0000
2465200000	Miscellaneous Non-industria	Household Products	Total: All Solvent Types	0.0000	0.1454	0.0000	0.0000	0.1524	0.0000	0.0000	0.1584	0.0000	0.0000	0.1648	0.0000	0.0000	0.1738	0.0000
2465400000	Miscellaneous Non-industria	Automotive Aftermarket Products	Total: All Solvent Types	0.0000	0.5278	0.0000	0.0000	0.5532	0.0000	0.0000	0.5752	0.0000	0.0000	0.5982	0.0000	0.0000	0.6311	0.0000
2465600000	Miscellaneous Non-industria	Adhesives and Sealants	Total: All Solvent Types	0.0000	0.2862	0.0000	0.0000	0.3000	0.0000	0.0000	0.3119	0.0000	0.0000	0.3244	0.0000	0.0000	0.3422	0.0000
2501050000	Storage and Transport	Petroleum and Petroleum Product Storage	Bulk Stations/Terminals: Breathing Loss	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000
2501060050	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 1: Total	0.0000	1.3547	0.0000	0.0000	1.3563	0.0000	0.0000	1.3669	0.0000	0.0000	1.3715	0.0000	0.0000	1.3726	0.0000
2501060100	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Total	0.0000	0.2315	0.0000	0.0000	0.2318	0.0000	0.0000	0.2336	0.0000	0.0000	0.2344	0.0000	0.0000	0.2346	0.0000
2501060102	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Displacement Loss/Controlled	0.0000	0.2302	0.0000	0.0000	0.2304	0.0000	0.0000	0.2322	0.0000	0.0000	0.2330	0.0000	0.0000	0.2332	0.0000
2501060201	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Underground Tank: Breathing and Emptying	0.0000	0.0168	0.0000	0.0000	0.0168	0.0000	0.0000	0.0169	0.0000	0.0000	0.0170	0.0000	0.0000	0.0170	0.0000
2505000120	Petroleum and Petroleum Product Storage	All Transport Types	Gasoline	0.0000	0.0164	0.0000	0.0000	0.0164	0.0000	0.0000	0.0165	0.0000	0.0000	0.0166	0.0000	0.0000	0.0166	0.0000
2601010000	On-site Incineration	Industrial	Total	0.0170	0.0170	0.0566	0.0170	0.0170	0.0566	0.0170	0.0170	0.0566	0.0170	0.0170	0.0566	0.0170	0.0170	0.0566
2601020000	On-site Incineration	Commercial/Institutional	Total	0.0138	0.0138	0.0459	0.0156	0.0156	0.0521	0.0173	0.0173	0.0578	0.0188	0.0188	0.0625	0.0206	0.0206	0.0686
2610000100	Open Burning	All Categories	Yard Waste - Leaf Species Unspecified	0.0000	0.0172	0.0690	0.0000	0.0181	0.0723	0.0000	0.0188	0.0752	0.0000	0.0195	0.0782	0.0000	0.0206	0.0825
2610000400	Open Burning	All Categories	Yard Waste - Brush Species Unspecified	0.0000	0.0115	0.0848	0.0000	0.0121	0.0889	0.0000	0.0125	0.0924	0.0000	0.0130	0.0961	0.0000	0.0138	0.1014
2610030000	Open Burning	Residential	Household Waste	0.0874	0.4368	1.2376	0.0916	0.4578	1.2972	0.0952	0.4760	1.3488	0.0990	0.4951	1.4029	0.1045	0.5223	1.4799

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2620030000	Landfills	Municipal	Total	0.0000	0.0168	0.0000	0.0000	0.0186	0.0000	0.0000	0.0201	0.0000	0.0000	0.0220	0.0000	0.0000	0.0249	0.0000
2630020000	Wastewater Treatment	Public Owned	Total Processed	0.0000	0.0293	0.0000	0.0000	0.0324	0.0000	0.0000	0.0352	0.0000	0.0000	0.0384	0.0000	0.0000	0.0434	0.0000
2660000000	Leaking Underground Storage	Leaking Underground Storage Tanks	Total: All Storage Types	0.0000	0.8330	0.0000	0.0000	0.8490	0.0000	0.0000	0.8783	0.0000	0.0000	0.8862	0.0000	0.0000	0.8879	0.0000
2801000005	Agriculture Production - Crops	Agriculture - Crops	Harvesting	0.0000	0.2785	0.0000	0.0000	0.3156	0.0000	0.0000	0.3453	0.0000	0.0000	0.3710	0.0000	0.0000	0.3999	0.0000
2810030000	Miscellaneous Area Sources	Other Combustion	Structure Fires	0.0005	0.0039	0.0212	0.0005	0.0039	0.0212	0.0005	0.0039	0.0212	0.0005	0.0039	0.0212	0.0005	0.0039	0.0212
Total				1.1775	9.0504	3.2645	1.1654	9.5753	3.3375	1.1608	9.9947	3.3823	1.1723	10.4284	3.4477	1.1824	11.1489	3.5355

Area Source Emissions Summary for Wilson County (FIPS 47189) by Source Category

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2102002000	Industrial	Bituminous/Subbituminous Coal	Total: All Boiler Types	0.4867	0.0238	0.3625	0.4342	0.0213	0.3234	0.4111	0.0201	0.3062	0.3997	0.0196	0.2977	0.3928	0.0192	0.2926
2102004000	Industrial	Distillate Oil	Total: Boilers and IC Engines	0.0163	0.0002	0.0042	0.0161	0.0002	0.0042	0.0156	0.0002	0.0040	0.0160	0.0002	0.0041	0.0166	0.0002	0.0043
2102005000	Industrial	Residual Oil	Total: All Boiler Types	0.0138	0.0001	0.0013	0.0180	0.0001	0.0017	0.0174	0.0001	0.0016	0.0175	0.0001	0.0016	0.0172	0.0001	0.0016
2102007000	Industrial	Liquified Petroleum Gas	Total: All Boiler Types	0.0058	0.0001	0.0015	0.0055	0.0001	0.0014	0.0055	0.0001	0.0014	0.0056	0.0001	0.0014	0.0057	0.0001	0.0015
2103002000	Commercial/Institutional	Bituminous/Subbituminous Coal	Total: All Boiler Types	0.0046	0.0002	0.0032	0.0048	0.0002	0.0033	0.0048	0.0002	0.0034	0.0048	0.0002	0.0034	0.0048	0.0002	0.0034
2103004000	Commercial/Institutional	Distillate Oil	Total: Boilers and IC Engines	0.0099	0.0002	0.0025	0.0112	0.0002	0.0028	0.0116	0.0002	0.0029	0.0117	0.0002	0.0029	0.0120	0.0002	0.0030
2103005000	Commercial/Institutional	Residual Oil	Total: All Boiler Types	0.0005	0.0000	0.0001	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000
2103006000	Commercial/Institutional	Natural Gas	Total: Boilers and IC Engines	0.0646	0.0034	0.0129	0.0766	0.0041	0.0153	0.0833	0.0044	0.0166	0.0894	0.0047	0.0179	0.0938	0.0050	0.0187
2103007000	Commercial/Institutional	Liquified Petroleum Gas	Total: All Combustor Types	0.0025	0.0001	0.0005	0.0025	0.0001	0.0005	0.0025	0.0001	0.0005	0.0025	0.0001	0.0005	0.0025	0.0001	0.0005
2103011000	Commercial/Institutional	Kerosene	Total: All Combustor Types	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2104002000	Residential	Bituminous/Subbituminous Coal	Total: All Combustor Types	0.0023	0.0027	0.0239	0.0022	0.0026	0.0230	0.0020	0.0024	0.0212	0.0019	0.0022	0.0197	0.0017	0.0020	0.0179
2104004000	Residential	Distillate Oil	Total: All Combustor Types	0.0033	0.0001	0.0009	0.0030	0.0001	0.0008	0.0027	0.0001	0.0007	0.0025	0.0001	0.0007	0.0022	0.0001	0.0006

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2104006000	Residential	Natural Gas	Total: All Combustor Types	0.1205	0.0064	0.0241	0.1296	0.0069	0.0259	0.1334	0.0071	0.0267	0.1375	0.0073	0.0275	0.1384	0.0073	0.0277
2104007000	Residential	Liquified Petroleum Gas	Total: All Combustor Types	0.0227	0.0012	0.0046	0.0209	0.0011	0.0042	0.0204	0.0011	0.0041	0.0198	0.0011	0.0040	0.0190	0.0010	0.0038
2104008001	Residential	Wood	Fireplaces: General	0.0028	0.2458	0.0688	0.0028	0.2491	0.0697	0.0028	0.2456	0.0687	0.0027	0.2442	0.0683	0.0027	0.2405	0.0673
2104008002	Residential	Wood	Fireplaces: Insert; non-EPA certified	0.0127	0.2400	1.0450	0.0134	0.2531	1.1020	0.0136	0.2567	1.1177	0.0138	0.2608	1.1357	0.0140	0.2647	1.1525
2104008003	Residential	Wood	Fireplaces: Insert; EPA certified; non-catalytic	0.0000	0.0034	0.0395	0.0000	0.0036	0.0417	0.0000	0.0036	0.0423	0.0000	0.0037	0.0429	0.0000	0.0037	0.0436
2104008004	Residential	Wood	Fireplaces: Insert; EPA certified; catalytic	0.0002	0.0017	0.0118	0.0002	0.0018	0.0125	0.0002	0.0018	0.0126	0.0002	0.0018	0.0128	0.0002	0.0019	0.0130
2104008010	Residential	Wood	Woodstoves: General	0.0244	0.4622	2.0129	0.0248	0.4684	2.0396	0.0244	0.4619	2.0116	0.0243	0.4592	1.9997	0.0239	0.4524	1.9699
2104008030	Residential	Wood	Catalytic Woodstoves: General	0.0004	0.0033	0.0228	0.0004	0.0033	0.0231	0.0004	0.0033	0.0228	0.0004	0.0033	0.0226	0.0004	0.0032	0.0223
2104008050	Residential	Wood	Non-catalytic Woodstoves: EPA certified	0.0000	0.0065	0.0761	0.0000	0.0066	0.0771	0.0000	0.0065	0.0760	0.0000	0.0064	0.0756	0.0000	0.0063	0.0744
2104011000	Residential	Kerosene	Total: All Heater Types	0.0016	0.0001	0.0005	0.0024	0.0001	0.0007	0.0022	0.0001	0.0007	0.0021	0.0001	0.0006	0.0019	0.0001	0.0006
2275900000	Aircraft	Refuel: All Fuels	All Processes	0.0000	0.0011	0.0000	0.0000	0.0012	0.0000	0.0000	0.0014	0.0000	0.0000	0.0015	0.0000	0.0000	0.0017	0.0000
2302050000	Food and Kindred Products	Bakery Products	Total	0.0000	0.0515	0.0000	0.0000	0.0534	0.0000	0.0000	0.0553	0.0000	0.0000	0.0570	0.0000	0.0000	0.0593	0.0000
2401001000	Surface Coating	Architectural Coatings	Total: All Solvent Types	0.0000	0.4398	0.0000	0.0000	0.5006	0.0000	0.0000	0.5545	0.0000	0.0000	0.5977	0.0000	0.0000	0.6459	0.0000
2401005000	Surface Coating	Auto Refinishing	Total: All Solvent Types	0.0000	0.0571	0.0000	0.0000	0.0624	0.0000	0.0000	0.0678	0.0000	0.0000	0.0736	0.0000	0.0000	0.0802	0.0000
2401008000	Surface Coating	Traffic Markings	Total: All Solvent Types	0.0000	0.0904	0.0000	0.0000	0.0921	0.0000	0.0000	0.0953	0.0000	0.0000	0.0981	0.0000	0.0000	0.0963	0.0000
2401015000	Surface Coating	Factory Finished Wood	Total: All Solvent Types	0.0000	0.0027	0.0000	0.0000	0.0030	0.0000	0.0000	0.0032	0.0000	0.0000	0.0034	0.0000	0.0000	0.0037	0.0000
2401020000	Surface Coating	Wood Furniture	Total: All Solvent Types	0.0000	0.0516	0.0000	0.0000	0.0575	0.0000	0.0000	0.0594	0.0000	0.0000	0.0640	0.0000	0.0000	0.0756	0.0000
2401025000	Surface Coating	Metal Furniture	Total: All Solvent Types	0.0000	0.0250	0.0000	0.0000	0.0278	0.0000	0.0000	0.0287	0.0000	0.0000	0.0309	0.0000	0.0000	0.0366	0.0000
2401030000	Surface Coating	Paper	Total: All Solvent Types	0.0000	0.0626	0.0000	0.0000	0.0669	0.0000	0.0000	0.0704	0.0000	0.0000	0.0752	0.0000	0.0000	0.0840	0.0000
2401045000	Surface Coating	Metal Coils	Total: All Solvent Types	0.0000	0.0797	0.0000	0.0000	0.0797	0.0000	0.0000	0.0797	0.0000	0.0000	0.0797	0.0000	0.0000	0.0797	0.0000
2401055000	Surface Coating	Machinery and Equipment	Total: All Solvent Types	0.0000	0.0441	0.0000	0.0000	0.0686	0.0000	0.0000	0.0953	0.0000	0.0000	0.1173	0.0000	0.0000	0.1454	0.0000
2401065000	Surface Coating	Electronic and Other Electrical	Total: All Solvent Types	0.0000	0.0639	0.0000	0.0000	0.0631	0.0000	0.0000	0.0442	0.0000	0.0000	0.0333	0.0000	0.0000	0.0313	0.0000
2401070000	Surface Coating	Motor Vehicles	Total: All Solvent Types	0.0000	0.4447	0.0000	0.0000	0.5174	0.0000	0.0000	0.6031	0.0000	0.0000	0.6675	0.0000	0.0000	0.7529	0.0000
2401080000	Surface Coating	Marine	Total: All Solvent Types	0.0000	0.0008	0.0000	0.0000	0.0008	0.0000	0.0000	0.0008	0.0000	0.0000	0.0008	0.0000	0.0000	0.0009	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2401090000	Surface Coating	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.1011	0.0000	0.0000	0.1011	0.0000	0.0000	0.1011	0.0000	0.0000	0.1011	0.0000	0.0000	0.1011	0.0000
2401100000	Surface Coating	Industrial Maintenance Coatings	Total: All Solvent Types	0.0000	0.0850	0.0000	0.0000	0.0850	0.0000	0.0000	0.0850	0.0000	0.0000	0.0850	0.0000	0.0000	0.0850	0.0000
2401200000	Surface Coating	Other Special Purpose Coatings	Total: All Solvent Types	0.0000	0.1370	0.0000	0.0000	0.1658	0.0000	0.0000	0.1924	0.0000	0.0000	0.2140	0.0000	0.0000	0.2440	0.0000
2415105000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0024	0.0000	0.0000	0.0027	0.0000	0.0000	0.0028	0.0000	0.0000	0.0030	0.0000	0.0000	0.0035	0.0000
2415120000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.0567	0.0000	0.0000	0.0653	0.0000	0.0000	0.0733	0.0000	0.0000	0.0803	0.0000	0.0000	0.0913	0.0000
2415125000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.0117	0.0000	0.0000	0.0182	0.0000	0.0000	0.0254	0.0000	0.0000	0.0312	0.0000	0.0000	0.0387	0.0000
2415130000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.0723	0.0000	0.0000	0.0922	0.0000	0.0000	0.1105	0.0000	0.0000	0.1281	0.0000	0.0000	0.1588	0.0000
2415135000	Degreasing	Transportation Equipment	Total: All Solvent Types	0.0000	0.0173	0.0000	0.0000	0.0200	0.0000	0.0000	0.0230	0.0000	0.0000	0.0254	0.0000	0.0000	0.0286	0.0000
2415140000	Degreasing	Instruments and Related Products	Total: All Solvent Types	0.0000	0.0318	0.0000	0.0000	0.0372	0.0000	0.0000	0.0416	0.0000	0.0000	0.0459	0.0000	0.0000	0.0529	0.0000
2415145000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0016	0.0000	0.0000	0.0016	0.0000	0.0000	0.0016	0.0000	0.0000	0.0016	0.0000	0.0000	0.0016	0.0000
2415305000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	0.0000	0.0016	0.0000	0.0000	0.0017	0.0000	0.0000	0.0018	0.0000	0.0000	0.0019	0.0000	0.0000	0.0023	0.0000
2415320000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	0.0000	0.0137	0.0000	0.0000	0.0158	0.0000	0.0000	0.0177	0.0000	0.0000	0.0194	0.0000	0.0000	0.0221	0.0000
2415325000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	0.0000	0.0038	0.0000	0.0000	0.0059	0.0000	0.0000	0.0082	0.0000	0.0000	0.0101	0.0000	0.0000	0.0126	0.0000
2415330000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	0.0000	0.0071	0.0000	0.0000	0.0091	0.0000	0.0000	0.0109	0.0000	0.0000	0.0126	0.0000	0.0000	0.0156	0.0000
2415335000	Degreasing	Transportation Equipment	Total: All Solvent Types	0.0000	0.0037	0.0000	0.0000	0.0043	0.0000	0.0000	0.0049	0.0000	0.0000	0.0054	0.0000	0.0000	0.0061	0.0000
2415340000	Degreasing	Instruments and Related Products	Total: All Solvent Types	0.0000	0.0032	0.0000	0.0000	0.0037	0.0000	0.0000	0.0041	0.0000	0.0000	0.0045	0.0000	0.0000	0.0052	0.0000
2415345000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	0.0000	0.0011	0.0000	0.0000	0.0011	0.0000	0.0000	0.0011	0.0000	0.0000	0.0011	0.0000	0.0000	0.0011	0.0000
2415355000	Degreasing	Automotive Dealers	Total: All Solvent Types	0.0000	0.0535	0.0000	0.0000	0.0596	0.0000	0.0000	0.0641	0.0000	0.0000	0.0691	0.0000	0.0000	0.0768	0.0000
2415360000	Degreasing	Auto Repair Services	Total: All Solvent Types	0.0000	0.0074	0.0000	0.0000	0.0090	0.0000	0.0000	0.0107	0.0000	0.0000	0.0118	0.0000	0.0000	0.0129	0.0000
2415365000	Degreasing	Miscellaneous Repair Services	Total: All Solvent Types	0.0000	0.0011	0.0000	0.0000	0.0013	0.0000	0.0000	0.0014	0.0000	0.0000	0.0015	0.0000	0.0000	0.0017	0.0000
2420010055	Dry Cleaning	Commercial/Industrial Cleaners	Perchloroethylene	0.0000	0.0230	0.0000	0.0000	0.0238	0.0000	0.0000	0.0241	0.0000	0.0000	0.0253	0.0000	0.0000	0.0278	0.0000
2420010370	Dry Cleaning	Commercial/Industrial Cleaners	Special Naphthas	0.0000	0.0406	0.0000	0.0000	0.0417	0.0000	0.0000	0.0426	0.0000	0.0000	0.0447	0.0000	0.0000	0.0491	0.0000
2420020055	Dry Cleaning	Coin-operated Cleaners	Perchloroethylene	0.0000	0.0007	0.0000	0.0000	0.0007	0.0000	0.0000	0.0007	0.0000	0.0000	0.0008	0.0000	0.0000	0.0009	0.0000
2425000000	Graphic Arts	All Processes	Total: All Solvent Types	0.0000	0.0868	0.0000	0.0000	0.0917	0.0000	0.0000	0.0949	0.0000	0.0000	0.1007	0.0000	0.0000	0.1115	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2430000000	Rubber/Plastics	All Processes	Total: All Solvent Types	0.0000	0.0740	0.0000	0.0000	0.0740	0.0000	0.0000	0.0740	0.0000	0.0000	0.0740	0.0000	0.0000	0.0740	0.0000
2440020000	Miscellaneous Industrial	Adhesive (Industrial) Application	Total: All Solvent Types	0.0000	0.1405	0.0000	0.0000	0.1405	0.0000	0.0000	0.1405	0.0000	0.0000	0.1405	0.0000	0.0000	0.1405	0.0000
2461800000	Miscellaneous Non-industria	Pesticide Application: All Processes	Total: All Solvent Types	0.0000	0.0780	0.0000	0.0000	0.0817	0.0000	0.0000	0.0850	0.0000	0.0000	0.0884	0.0000	0.0000	0.0932	0.0000
2465100000	Miscellaneous Non-industria	Personal Care Products	Total: All Solvent Types	0.0000	0.1649	0.0000	0.0000	0.1728	0.0000	0.0000	0.1797	0.0000	0.0000	0.1869	0.0000	0.0000	0.1972	0.0000
2465200000	Miscellaneous Non-industria	Household Products	Total: All Solvent Types	0.0000	0.1292	0.0000	0.0000	0.1354	0.0000	0.0000	0.1408	0.0000	0.0000	0.1465	0.0000	0.0000	0.1545	0.0000
2465400000	Miscellaneous Non-industria	Automotive Aftermarket Products	Total: All Solvent Types	0.0000	0.4696	0.0000	0.0000	0.4922	0.0000	0.0000	0.5118	0.0000	0.0000	0.5323	0.0000	0.0000	0.5615	0.0000
2465600000	Miscellaneous Non-industria	Adhesives and Sealants	Total: All Solvent Types	0.0000	0.2545	0.0000	0.0000	0.2667	0.0000	0.0000	0.2773	0.0000	0.0000	0.2885	0.0000	0.0000	0.3043	0.0000
2501050000	Storage and Transport	Petroleum and Petroleum Product Storage	Bulk Stations/Terminals: Breathing Loss	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000	0.0000	0.2001	0.0000
2501060050	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 1: Total	0.0000	1.2588	0.0000	0.0000	1.2603	0.0000	0.0000	1.2701	0.0000	0.0000	1.2744	0.0000	0.0000	1.2754	0.0000
2501060100	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Total	0.0000	0.1689	0.0000	0.0000	0.1691	0.0000	0.0000	0.1705	0.0000	0.0000	0.1710	0.0000	0.0000	0.1712	0.0000
2501060102	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Displacement Loss/Controlled	0.0000	0.1680	0.0000	0.0000	0.1682	0.0000	0.0000	0.1695	0.0000	0.0000	0.1701	0.0000	0.0000	0.1702	0.0000
2501060201	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Underground Tank: Breathing and Emptying	0.0000	0.0156	0.0000	0.0000	0.0156	0.0000	0.0000	0.0158	0.0000	0.0000	0.0158	0.0000	0.0000	0.0158	0.0000
2505000120	Petroleum and Petroleum Product Storage	All Transport Types	Gasoline	0.0000	0.0152	0.0000	0.0000	0.0153	0.0000	0.0000	0.0154	0.0000	0.0000	0.0154	0.0000	0.0000	0.0154	0.0000
2601010000	On-site Incineration	Industrial	Total	0.0138	0.0138	0.0461	0.0138	0.0138	0.0461	0.0138	0.0138	0.0461	0.0138	0.0138	0.0461	0.0138	0.0138	0.0461
2601020000	On-site Incineration	Commercial/Institutional	Total	0.0115	0.0115	0.0384	0.0131	0.0131	0.0435	0.0145	0.0145	0.0483	0.0157	0.0157	0.0523	0.0172	0.0172	0.0573
2610000100	Open Burning	All Categories	Yard Waste - Leaf Species Unspecified	0.0000	0.0066	0.0265	0.0000	0.0069	0.0278	0.0000	0.0072	0.0289	0.0000	0.0075	0.0301	0.0000	0.0079	0.0317
2610000400	Open Burning	All Categories	Yard Waste - Brush Species Unspecified	0.0000	0.0044	0.0326	0.0000	0.0047	0.0342	0.0000	0.0048	0.0356	0.0000	0.0050	0.0370	0.0000	0.0053	0.0390
2610030000	Open Burning	Residential	Household Waste	0.0672	0.3361	0.9524	0.0705	0.3523	0.9982	0.0733	0.3663	1.0379	0.0762	0.3810	1.0795	0.0804	0.4019	1.1388
2620030000	Landfills	Municipal	Total	0.0000	0.0171	0.0000	0.0000	0.0189	0.0000	0.0000	0.0205	0.0000	0.0000	0.0224	0.0000	0.0000	0.0253	0.0000
2630020000	Wastewater Treatment	Public Owned	Total Processed	0.0000	0.0411	0.0000	0.0000	0.0456	0.0000	0.0000	0.0494	0.0000	0.0000	0.0539	0.0000	0.0000	0.0611	0.0000

				2002			2006			2009			2012			2016		
				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO
SCC	Description 1	Description 2	Description 3	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)	(tpd)
2660000000	Leaking Underground Storage	Leaking Underground Storage Tanks	Total: All Storage Types	0.0000	0.7616	0.0000	0.0000	0.7763	0.0000	0.0000	0.8030	0.0000	0.0000	0.8102	0.0000	0.0000	0.8118	0.0000
2801000005	Agriculture Production - Crops	Agriculture - Crops	Harvesting	0.0000	0.0699	0.0000	0.0000	0.0792	0.0000	0.0000	0.0867	0.0000	0.0000	0.0932	0.0000	0.0000	0.1004	0.0000
2810030000	Miscellaneous Area Sources	Other Combustion	Structure Fires	0.0003	0.0027	0.0148	0.0003	0.0027	0.0148	0.0003	0.0027	0.0148	0.0003	0.0027	0.0148	0.0003	0.0027	0.0148
Total				0.8884	7.5826	4.8302	0.8664	7.9811	4.9376	0.856	8.3382	4.9533	0.8588	8.6475	4.9996	0.862	9.0739	5.0469

Appendix F

EGAS-5.0 Growth Factors for State of Tennessee

from 2002 to 2006, 2009, 2012, and 2016 for Point and Area Source Categories

Table F-1. EGAS-5.0 Growth Factors for State of Tennessee from 2002 to 2006, 2009, 2012, and 2016 – Point Source Categories

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
10100501	External Combustion	Electric Generation	Distillate Oil	3.9480	1.8185	2.3042	8.4379
10100601	External Combustion	Electric Generation	Natural Gas	1.3343	1.1905	1.6193	3.2069
10200202	External Combustion	Industrial	Bituminous/Subbituminous Coal	0.9573	0.9560	0.9667	0.9769
10200204	External Combustion	Industrial	Bituminous/Subbituminous Coal	0.9573	0.9560	0.9667	0.9769
10200206	External Combustion	Industrial	Bituminous/Subbituminous Coal	0.9573	0.9560	0.9667	0.9769
10200501	External Combustion	Industrial	Distillate Oil	1.0049	1.0083	1.0563	1.1217
10200601	External Combustion	Industrial	Natural Gas	1.0927	1.1386	1.2017	1.2438
10200602	External Combustion	Industrial	Natural Gas	1.0927	1.1386	1.2017	1.2438
10200603	External Combustion	Industrial	Natural Gas	1.0927	1.1386	1.2017	1.2438
10200799	External Combustion	Industrial	Process Gas	1.0488	1.0808	1.1246	1.1815
10200903	External Combustion	Industrial	Wood/Bark Waste	1.0900	1.1440	1.2269	1.3370
10200906	External Combustion	Industrial	Wood/Bark Waste	1.0900	1.1440	1.2269	1.3370
10300207	External Combustion	Commercial/Institutional	Bituminous/Subbituminous Coal	1.0464	1.0608	1.0566	1.0585
10300208	External Combustion	Commercial/Institutional	Bituminous/Subbituminous Coal	1.0464	1.0608	1.0566	1.0585
10300209	External Combustion	Commercial/Institutional	Bituminous/Subbituminous Coal	1.0464	1.0608	1.0566	1.0585
10300501	External Combustion	Commercial/Institutional	Distillate Oil	1.2592	1.3714	1.4395	1.5597
10300503	External Combustion	Commercial/Institutional	Distillate Oil	1.2592	1.3714	1.4395	1.5597
10300601	External Combustion	Commercial/Institutional	Natural Gas	1.1982	1.3057	1.4016	1.4779
10300602	External Combustion	Commercial/Institutional	Natural Gas	1.1982	1.3057	1.4016	1.4779
10300603	External Combustion	Commercial/Institutional	Natural Gas	1.1982	1.3057	1.4016	1.4779
10301201	External Combustion	Commercial/Institutional	Solid Waste	1.0000	1.0000	1.0000	1.0000
10301202	External Combustion	Commercial/Institutional	Solid Waste	1.0000	1.0000	1.0000	1.0000
10500106	External Combustion	Space Heaters	Industrial	1.0927	1.1386	1.2017	1.2438
20100102	Internal Combustion	Electric Generation	Distillate Oil (Diesel)	3.9480	1.8185	2.3042	8.4379
20100107	Internal Combustion	Electric Generation	Distillate Oil (Diesel)	3.9480	1.8185	2.3042	8.4379
20200102	Internal Combustion	Industrial	Distillate Oil (Diesel)	1.0049	1.0083	1.0563	1.1217
20200107	Internal Combustion	Industrial	Distillate Oil (Diesel)	1.0049	1.0083	1.0563	1.1217
20200401	Internal Combustion	Industrial	Large Bore Engine	1.0049	1.0083	1.0563	1.1217
20201706	Internal Combustion	Industrial	Gasoline	1.0043	0.9984	1.0409	1.0930
20300101	Internal Combustion	Commercial/Institutional	Distillate Oil (Diesel)	1.2592	1.3714	1.4395	1.5597
20300107	Internal Combustion	Commercial/Institutional	Distillate Oil (Diesel)	1.2592	1.3714	1.4395	1.5597
20400401	Internal Combustion	Engine Testing	Reciprocating Engine	1.4027	1.7993	2.1408	2.6157
30101401	Industrial Processe	Chemical Manufacturing	Paint Manufacture	1.2105	1.4049	1.5628	1.7814

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
30101403	Industrial Processe	Chemical Manufacturing	Paint Manufacture	1.2105	1.4049	1.5628	1.7814
30101520	Industrial Processe	Chemical Manufacturing	Varnish Manufacturing	1.2105	1.4049	1.5628	1.7814
30101811	Industrial Processe	Chemical Manufacturing	Plastics Production	1.2530	1.4537	1.6305	1.9147
30101837	Industrial Processe	Chemical Manufacturing	Plastics Production	1.2530	1.4537	1.6305	1.9147
30101866	Industrial Processe	Chemical Manufacturing	Plastics Production	1.2530	1.4537	1.6305	1.9147
30101890	Industrial Processe	Chemical Manufacturing	Plastics Production	1.2530	1.4537	1.6305	1.9147
30102015	Industrial Processe	Chemical Manufacturing	Printing Ink Manufacture	1.2058	1.3880	1.5446	1.7741
30102099	Industrial Processe	Chemical Manufacturing	Printing Ink Manufacture	1.2058	1.3880	1.5446	1.7741
30103102	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	1.0723	1.0945	1.1567	1.3414
30103103	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	1.0723	1.0945	1.1567	1.3414
30103104	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	1.0723	1.0945	1.1567	1.3414
30103180	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	1.0723	1.0945	1.1567	1.3414
30103199	Industrial Processe	Chemical Manufacturing	Terephthalic Acid/Dimethyl Terephthala	1.0723	1.0945	1.1567	1.3414
30106099	Industrial Processe	Chemical Manufacturing	Pharmaceutical Preparations	1.3080	1.6226	1.8508	2.1426
30182003	Industrial Processe	Chemical Manufacturing	Wastewater Treatment	1.1497	1.2617	1.3794	1.6008
30188801	Industrial Processe	Chemical Manufacturing	Fugitive Emissions	1.1497	1.2617	1.3794	1.6008
30203201	Industrial Processe	Food and Agriculture	Bakeries	1.0368	1.0743	1.1065	1.1512
30203399	Industrial Processe	Food and Agriculture	Tobacco Processing	0.9991	1.0102	1.0831	1.2318
30299999	Industrial Processe	Food and Agriculture	Other Not Specified	1.0373	1.0757	1.1101	1.1597
30400301	Industrial Processe	Secondary Metal Production	Grey Iron Foundries	1.1596	1.3018	1.4333	1.6526
30400701	Industrial Processe	Secondary Metal Production	Steel Foundries	1.1596	1.3018	1.4333	1.6526
30400799	Industrial Processe	Secondary Metal Production	Steel Foundries	1.1596	1.3018	1.4333	1.6526
30500201	Industrial Processe	Mineral Products	Asphalt Concrete	1.0856	1.1913	1.2752	1.3909
30500205	Industrial Processe	Mineral Products	Asphalt Concrete	1.0856	1.1913	1.2752	1.3909
30500240	Industrial Processe	Mineral Products	Asphalt Concrete	1.0856	1.1913	1.2752	1.3909
30501401	Industrial Processe	Mineral Products	Glass Manufacture	1.1518	1.2699	1.3679	1.5389
30501403	Industrial Processe	Mineral Products	Glass Manufacture	1.1518	1.2699	1.3679	1.5389
30501407	Industrial Processe	Mineral Products	Glass Manufacture	1.1518	1.2699	1.3679	1.5389
30501801	Industrial Processe	Mineral Products	Perlite Manufacturing	1.0638	1.1121	1.1603	1.2936
30800101	Industrial Processe	Rubber and Miscellaneous Pl	Tire Manufacture	1.1629	1.3502	1.4757	1.6078
30800112	Industrial Processe	Rubber and Miscellaneous Pl	Tire Manufacture	1.1629	1.3502	1.4757	1.6078
30800702	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	1.1868	1.3483	1.4830	1.6767
30800703	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	1.1868	1.3483	1.4830	1.6767
30800704	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	1.1868	1.3483	1.4830	1.6767
30800722	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	1.1868	1.3483	1.4830	1.6767

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
30800723	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	1.1868	1.3483	1.4830	1.6767
30800724	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	1.1868	1.3483	1.4830	1.6767
30800730	Industrial Processe	Rubber and Miscellaneous Pl	Fiberglass Resin Products	1.1868	1.3483	1.4830	1.6767
30801002	Industrial Processe	Rubber and Miscellaneous Pl	Plastic Products Manufacturing	1.1868	1.3483	1.4830	1.6767
30899999	Industrial Processe	Rubber and Miscellaneous Pl	Other Not Specified	1.1722	1.3320	1.4564	1.6312
30901607	Industrial Processe	Fabricated Metal Products	Metal Pipe Coating of Metal Parts	1.3221	1.6178	1.8606	2.2043
30988801	Industrial Processe	Fabricated Metal Products	Fugitive Emissions	1.1518	1.2937	1.4179	1.6118
30999999	Industrial Processe	Fabricated Metal Products	Other Not Classified	1.1518	1.2937	1.4179	1.6118
31401101	Industrial Processe	Transportation Equipment	Auto Body Shredding	1.0930	1.1876	1.2882	1.4038
31401510	Industrial Processe	Transportation Equipment	Boat Manufacturing	1.0562	1.0438	1.0890	1.2082
31401512	Industrial Processe	Transportation Equipment	Boat Manufacturing	1.0562	1.0438	1.0890	1.2082
31401518	Industrial Processe	Transportation Equipment	Boat Manufacturing	1.0562	1.0438	1.0890	1.2082
31401552	Industrial Processe	Transportation Equipment	Boat Manufacturing	1.0562	1.0438	1.0890	1.2082
31499999	Industrial Processe	Transportation Equipment	Other Not Classified	1.1563	1.3330	1.4711	1.6590
32099999	Industrial Processe	Leather and Leather Product	Other Not Classified	1.1207	1.2352	1.3497	1.5685
33000198	Industrial Processe	Textile Products	Miscellaneous	1.0549	1.0840	1.1636	1.3315
33000399	Industrial Processe	Textile Products	Carpet Operations	1.0920	1.0460	1.1034	1.3046
39000199	Industrial Processe	In-process Fuel Use	Anthracite Coal	0.9998	0.9922	0.9834	0.9694
39000689	Industrial Processe	In-process Fuel Use	Natural Gas	1.0927	1.1386	1.2017	1.2438
39000699	Industrial Processe	In-process Fuel Use	Natural Gas	1.0927	1.1386	1.2017	1.2438
39999999	Industrial Processe	Miscellaneous Manufacturing	Miscellaneous Industrial Processes	1.2888	1.5292	1.6888	1.9242
40100104	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Dry Cleaning	1.0285	1.0506	1.1013	1.2089
40100205	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	1.1579	1.2795	1.3954	1.5976
40100252	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	1.1579	1.2795	1.3954	1.5976
40100299	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Degreasing	1.1579	1.2795	1.3954	1.5976
40100307	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	1.1579	1.2795	1.3954	1.5976
40100398	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Cold Solvent Cleaning/Stripping	1.1579	1.2795	1.3954	1.5976
40100501	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Solvent Storage	1.1579	1.2795	1.3954	1.5976
40188801	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Fugitive Emissions	1.1579	1.2795	1.3954	1.5976
40188898	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Fugitive Emissions	1.1579	1.2795	1.3954	1.5976
40200101	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200110	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200210	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200301	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200310	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
40200401	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200410	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200501	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200510	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200601	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200701	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200711	Petroleum and Solvent Evaporation	Surface Coating Operations	Surface Coating Application - General	1.2129	1.4234	1.6098	1.8912
40200801	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven - General	1.2129	1.4234	1.6098	1.8912
40200810	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven - General	1.2129	1.4234	1.6098	1.8912
40200830	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven - General	1.2129	1.4234	1.6098	1.8912
40200901	Petroleum and Solvent Evaporation	Surface Coating Operations	Thinning Solvents - General	1.2129	1.4234	1.6098	1.8912
40200902	Petroleum and Solvent Evaporation	Surface Coating Operations	Thinning Solvents - General	1.2129	1.4234	1.6098	1.8912
40200918	Petroleum and Solvent Evaporation	Surface Coating Operations	Thinning Solvents - General	1.2129	1.4234	1.6098	1.8912
40200922	Petroleum and Solvent Evaporation	Surface Coating Operations	Thinning Solvents - General	1.2129	1.4234	1.6098	1.8912
40200924	Petroleum and Solvent Evaporation	Surface Coating Operations	Thinning Solvents - General	1.2129	1.4234	1.6098	1.8912
40200998	Petroleum and Solvent Evaporation	Surface Coating Operations	Thinning Solvents - General	1.2129	1.4234	1.6098	1.8912
40201001	Petroleum and Solvent Evaporation	Surface Coating Operations	Coating Oven Heater	1.0927	1.1386	1.2017	1.2438
40201101	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating/Printing	1.1328	1.2168	1.3066	1.4824
40201103	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating/Printing	1.1328	1.2168	1.3066	1.4824
40201305	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	1.0899	1.1722	1.2612	1.4038
40201330	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	1.0899	1.1722	1.2612	1.4038
40201399	Petroleum and Solvent Evaporation	Surface Coating Operations	Paper Coating	1.0899	1.1722	1.2612	1.4038
40201499	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Appliances	1.1338	1.1886	1.3010	1.6008
40201601	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201607	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201608	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201609	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201619	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201622	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201626	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201627	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201628	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201631	Petroleum and Solvent Evaporation	Surface Coating Operations	Automobiles and Light Trucks	1.1637	1.3564	1.5012	1.6932
40201901	Petroleum and Solvent Evaporation	Surface Coating Operations	Wood Furniture Surface Coating	1.1145	1.1514	1.2400	1.4650
40202033	Petroleum and Solvent Evaporation	Surface Coating Operations	Metal Furniture Operations	1.1145	1.1514	1.2400	1.4650

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
40202111	Petroleum and Solvent Evaporation	Surface Coating Operations	Flatwood Products	1.0495	1.1371	1.1905	1.2590
40202201	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	1.1868	1.3483	1.4830	1.6767
40202205	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	1.1868	1.3483	1.4830	1.6767
40202299	Petroleum and Solvent Evaporation	Surface Coating Operations	Plastic Parts	1.1868	1.3483	1.4830	1.6767
40202401	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	1.0932	1.1328	1.2213	1.3908
40202402	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	1.0932	1.1328	1.2213	1.3908
40202405	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	1.0932	1.1328	1.2213	1.3908
40202406	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	1.0932	1.1328	1.2213	1.3908
40202499	Petroleum and Solvent Evaporation	Surface Coating Operations	Large Aircraft	1.0932	1.1328	1.2213	1.3908
40202501	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	1.3221	1.6178	1.8606	2.2043
40202502	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	1.3221	1.6178	1.8606	2.2043
40202521	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	1.3221	1.6178	1.8606	2.2043
40202532	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	1.3221	1.6178	1.8606	2.2043
40202533	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	1.3221	1.6178	1.8606	2.2043
40202537	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	1.3221	1.6178	1.8606	2.2043
40202542	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	1.3221	1.6178	1.8606	2.2043
40202545	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous Metal Parts	1.3221	1.6178	1.8606	2.2043
40204330	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating, Dip Coating	1.1328	1.2168	1.3066	1.4824
40204340	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating, Dip Coating	1.1328	1.2168	1.3066	1.4824
40204351	Petroleum and Solvent Evaporation	Surface Coating Operations	Fabric Coating, Dip Coating	1.1328	1.2168	1.3066	1.4824
40288801	Petroleum and Solvent Evaporation	Surface Coating Operations	Fugitive Emissions	1.2129	1.4234	1.6098	1.8912
40288802	Petroleum and Solvent Evaporation	Surface Coating Operations	Fugitive Emissions	1.2129	1.4234	1.6098	1.8912
40288824	Petroleum and Solvent Evaporation	Surface Coating Operations	Fugitive Emissions	1.2129	1.4234	1.6098	1.8912
40299995	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous	1.2129	1.4234	1.6098	1.8912
40299996	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous	1.2129	1.4234	1.6098	1.8912
40299998	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous	1.2129	1.4234	1.6098	1.8912
40299999	Petroleum and Solvent Evaporation	Surface Coating Operations	Miscellaneous	1.2129	1.4234	1.6098	1.8912
40400205	Petroleum and Solvent Evaporation	Petroleum Liquids Storage	Bulk Plants	1.0012	1.0090	1.0124	1.0132
40400316	Petroleum and Solvent Evaporation	Petroleum Liquids Storage	Oil and Gas Field Storage and Working	1.0134	1.1141	1.1611	1.2013
40500101	Petroleum and Solvent Evaporation	Printing/Publishing	Drying	1.0564	1.0929	1.1599	1.2848
40500199	Petroleum and Solvent Evaporation	Printing/Publishing	Drying	1.0564	1.0929	1.1599	1.2848
40500201	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0230	1.0310	1.0851	1.2006
40500212	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0230	1.0310	1.0851	1.2006
40500305	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0564	1.0929	1.1599	1.2848
40500312	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0230	1.0310	1.0851	1.2006

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
40500401	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0230	1.0310	1.0851	1.2006
40500412	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0230	1.0310	1.0851	1.2006
40500415	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0230	1.0310	1.0851	1.2006
40500417	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0230	1.0310	1.0851	1.2006
40500418	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0230	1.0310	1.0851	1.2006
40500433	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0230	1.0310	1.0851	1.2006
40500597	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0564	1.0929	1.1599	1.2848
40500598	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0564	1.0929	1.1599	1.2848
40500599	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0564	1.0929	1.1599	1.2848
40500802	Petroleum and Solvent Evaporation	Printing/Publishing	General	1.0564	1.0929	1.1599	1.2848
40588801	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	1.0564	1.0929	1.1599	1.2848
40588802	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	1.0564	1.0929	1.1599	1.2848
40588803	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	1.0564	1.0929	1.1599	1.2848
40588804	Petroleum and Solvent Evaporation	Printing/Publishing	Fugitive Emissions	1.0564	1.0929	1.1599	1.2848
40600141	Petroleum and Solvent Evaporation	Transportation and Marketing	Tank Cars and Trucks	1.0012	1.0090	1.0124	1.0132
40700813	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Alcohols	1.0723	1.0945	1.1567	1.3414
40700814	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Alcohols	1.0723	1.0945	1.1567	1.3414
40700815	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Alcohols	1.0723	1.0945	1.1567	1.3414
40703619	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Aromatics	1.0723	1.0945	1.1567	1.3414
40703621	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Aromatics	1.0723	1.0945	1.1567	1.3414
40704406	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Esters	1.0723	1.0945	1.1567	1.3414
40714698	Petroleum and Solvent Evaporation	Organic Chemical Storage	Fixed Roof Tanks - Miscellaneous	1.0723	1.0945	1.1567	1.3414
40799997	Petroleum and Solvent Evaporation	Organic Chemical Storage	Miscellaneous	1.0723	1.0945	1.1567	1.3414
40799998	Petroleum and Solvent Evaporation	Organic Chemical Storage	Miscellaneous	1.0723	1.0945	1.1567	1.3414
40799999	Petroleum and Solvent Evaporation	Organic Chemical Storage	Miscellaneous	1.0723	1.0945	1.1567	1.3414
40880001	Petroleum and Solvent Evaporation	Organic Chemical Transportation	Equipment Leaks	1.0723	1.0945	1.1567	1.3414
40899995	Petroleum and Solvent Evaporation	Organic Chemical Transportation	Specific Liquid	1.0723	1.0945	1.1567	1.3414
40899999	Petroleum and Solvent Evaporation	Organic Chemical Transportation	Specific Liquid	1.0723	1.0945	1.1567	1.3414
49000203	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Waste Solvent Recovery Operations	1.0723	1.0945	1.1567	1.3414
49000206	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Waste Solvent Recovery Operations	1.0723	1.0945	1.1567	1.3414
49099998	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Miscellaneous Volatile Organic Compound Evaporation	1.0723	1.0945	1.1567	1.3414
49099999	Petroleum and Solvent Evaporation	Organic Solvent Evaporation	Miscellaneous Volatile Organic Compound Evaporation	1.0723	1.0945	1.1567	1.3414
50100402	Waste Disposal	Solid Waste Disposal - Government	Landfill Dump	1.1081	1.2013	1.3117	1.4847
50100410	Waste Disposal	Solid Waste Disposal - Government	Landfill Dump	1.0000	1.0000	1.0000	1.0000
50100702	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	1.1081	1.2013	1.3117	1.4847

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
50100707	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	1.1081	1.2013	1.3117	1.4847
50100710	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	1.1081	1.2013	1.3117	1.4847
50100719	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	1.1081	1.2013	1.3117	1.4847
50100769	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	1.1081	1.2013	1.3117	1.4847
50100772	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	1.1081	1.2013	1.3117	1.4847
50100799	Waste Disposal	Solid Waste Disposal - Government	Sewage Treatment	1.1081	1.2013	1.3117	1.4847
50200602	Waste Disposal	Solid Waste Disposal - Commercial/Institutional	Landfill Dump	1.1348	1.2587	1.3627	1.4950
50300102	Waste Disposal	Solid Waste Disposal - Industrial	Incineration	1.1955	1.3881	1.5587	1.8168

Table F-2. EGAS-5.0 Growth Factors for State of Tennessee from 2002 to 2006, 2009, 2012, and 2016 – Area Source Categories

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
2102002000	Industrial	Bituminous/Subbituminous Coal	Total: All Boiler Types	0.9573	0.9560	0.9667	0.9769
2102004000	Industrial	Distillate Oil	Total: Boilers and IC Engines	1.0049	1.0083	1.0563	1.1217
2102005000	Industrial	Residual Oil	Total: All Boiler Types	1.3547	1.3760	1.4002	1.4252
2102006001	Industrial	Natural Gas	All Boiler Types	1.0927	1.1386	1.2017	1.2438
2102007000	Industrial	Liquified Petroleum Gas	Total: All Boiler Types	0.9937	1.0313	1.0739	1.1304
2102008000	Industrial	Wood	Total: All Boiler Types	1.0900	1.1440	1.2269	1.3370
2103002000	Commercial/Institutional	Bituminous/Subbituminous Coal	Total: All Boiler Types	1.0464	1.0608	1.0566	1.0585
2103004000	Commercial/Institutional	Distillate Oil	Total: Boilers and IC Engines	1.2592	1.3714	1.4395	1.5597
2103005000	Commercial/Institutional	Residual Oil	Total: All Boiler Types	0.4718	0.0755	0.4805	0.5650
2103006000	Commercial/Institutional	Natural Gas	Total: Boilers and IC Engines	1.1982	1.3057	1.4016	1.4779
2103007000	Commercial/Institutional	Liquified Petroleum Gas	Total: All Combustor Types	1.0006	1.0214	1.0364	1.0481
2103011000	Commercial/Institutional	Kerosene	Total: All Combustor Types	1.2072	1.2632	1.2962	1.3229
2104002000	Residential	Bituminous/Subbituminous Coal	Total: All Combustor Types	1.0531	1.0316	1.0139	0.9888
2104004000	Residential	Distillate Oil	Total: All Combustor Types	1.0356	1.0197	0.9997	0.9692
2104006000	Residential	Natural Gas	Total: All Combustor Types	1.1102	1.1596	1.2036	1.2333
2104007000	Residential	Liquified Petroleum Gas	Total: All Combustor Types	0.9938	1.0154	1.0376	1.0680
2104008001	Residential	Wood	Fireplaces: General	1.0546	1.0696	1.0868	1.1029
2104008002	Residential	Wood	Fireplaces: Insert; non-EPA certified	1.0546	1.0696	1.0868	1.1029
2104008003	Residential	Wood	Fireplaces: Insert; EPA certified; non-catalytic	1.0546	1.0696	1.0868	1.1029
2104008004	Residential	Wood	Fireplaces: Insert; EPA certified; catalytic	1.0546	1.0696	1.0868	1.1029
2104008010	Residential	Wood	Woodstoves: General	1.0546	1.0696	1.0868	1.1029
2104008030	Residential	Wood	Catalytic Woodstoves: General	1.0546	1.0696	1.0868	1.1029
2104008050	Residential	Wood	Non-catalytic Woodstoves: EPA certified	1.0546	1.0696	1.0868	1.1029
2104011000	Residential	Kerosene	Total: All Heater Types	1.6970	1.6614	1.6300	1.5480
2275000000	Aircraft	All Aircraft Types and Operations	Total	1.1495	1.3008	1.4275	1.5912
2275050000	Aircraft	General Aviation	Total	1.1495	1.3008	1.4275	1.5912
2275900000	Aircraft	Refueling: All Fuels	All Processes	1.1495	1.3008	1.4275	1.5912
2280003100	Marine Vessels, Commercial	Residual	Port emissions	1.0553	1.0949	1.1680	1.3103
2280003200	Marine Vessels, Commercial	Residual	Underway emissions	1.0553	1.0949	1.1680	1.3103
2285002000	Railroad Equipment	Diesel	Total	0.9074	0.8685	0.8362	0.8060
2285002006	Railroad Equipment	Diesel	Line Haul Locomotives: Class I Operations	0.9074	0.8685	0.8362	0.8060
2285002010	Railroad Equipment	Diesel	Yard Locomotives	0.9074	0.8685	0.8362	0.8060
2301010000	Chemical Manufacturing	Industrial Inorganic Chemical Manufact	Total	1.0723	1.0945	1.1567	1.3414

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
2302050000	Food and Kindred Products	Bakery Products	Total	1.0368	1.0743	1.1065	1.1512
2399000000	Industrial Processes: NEC	Industrial Processes: NEC	Total	1.0000	1.0000	1.0000	1.0000
2401001000	Surface Coating	Architectural Coatings	Total: All Solvent Types	1.1383	1.2609	1.3592	1.4688
2401005000	Surface Coating	Auto Refinishing	Total: All Solvent Types	1.0930	1.1876	1.2882	1.4038
2401008000	Surface Coating	Traffic Markings	Total: All Solvent Types	1.0192	1.0543	1.0638	1.0658
2401015000	Surface Coating	Factory Finished Wood	Total: All Solvent Types	1.0996	1.2005	1.2718	1.3819
2401020000	Surface Coating	Wood Furniture	Total: All Solvent Types	1.1145	1.1514	1.2400	1.4650
2401025000	Surface Coating	Metal Furniture	Total: All Solvent Types	1.1145	1.1514	1.2400	1.4650
2401030000	Surface Coating	Paper	Total: All Solvent Types	1.0696	1.1249	1.2011	1.3428
2401045000	Surface Coating	Metal Coils	Total: All Solvent Types	1.0000	1.0000	1.0000	1.0000
2401055000	Surface Coating	Machinery and Equipment	Total: All Solvent Types	1.5559	2.1619	2.6610	3.2992
2401060000	Surface Coating	Large Appliances	Total: All Solvent Types	1.1338	1.1886	1.3010	1.6008
2401065000	Surface Coating	Electronic and Other Electrical	Total: All Solvent Types	0.9862	0.6919	0.5200	0.4895
2401070000	Surface Coating	Motor Vehicles	Total: All Solvent Types	1.1637	1.3564	1.5012	1.6932
2401080000	Surface Coating	Marine	Total: All Solvent Types	1.0562	1.0438	1.0890	1.2082
2401090000	Surface Coating	Miscellaneous Manufacturing	Total: All Solvent Types	1.0000	1.0000	1.0000	1.0000
2401100000	Surface Coating	Industrial Maintenance Coatings	Total: All Solvent Types	1.0000	1.0000	1.0000	1.0000
2401200000	Surface Coating	Other Special Purpose Coatings	Total: All Solvent Types	1.2105	1.4049	1.5628	1.7814
2415105000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	1.1145	1.1514	1.2400	1.4650
2415110000	Degreasing	Primary Metal Industries	Total: All Solvent Types	1.1052	1.1890	1.2891	1.4983
2415120000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	1.1518	1.2937	1.4179	1.6118
2415125000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	1.5559	2.1619	2.6610	3.2992
2415130000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	1.2754	1.5284	1.7727	2.1969
2415135000	Degreasing	Transportation Equipment	Total: All Solvent Types	1.1563	1.3330	1.4711	1.6590
2415140000	Degreasing	Instruments and Related Products	Total: All Solvent Types	1.1684	1.3091	1.4431	1.6646
2415145000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	1.0000	1.0000	1.0000	1.0000
2415305000	Degreasing	Furniture and Fixtures	Total: All Solvent Types	1.1145	1.1514	1.2400	1.4650
2415310000	Degreasing	Primary Metal Industries	Total: All Solvent Types	1.1052	1.1890	1.2891	1.4983
2415320000	Degreasing	Fabricated Metal Products	Total: All Solvent Types	1.1518	1.2937	1.4179	1.6118
2415325000	Degreasing	Industrial Machinery and Equipment	Total: All Solvent Types	1.5559	2.1619	2.6610	3.2992
2415330000	Degreasing	Electronic and Other Elec.	Total: All Solvent Types	1.2754	1.5284	1.7727	2.1969
2415335000	Degreasing	Transportation Equipment	Total: All Solvent Types	1.1563	1.3330	1.4711	1.6590
2415340000	Degreasing	Instruments and Related Products	Total: All Solvent Types	1.1684	1.3091	1.4431	1.6646
2415345000	Degreasing	Miscellaneous Manufacturing	Total: All Solvent Types	1.0000	1.0000	1.0000	1.0000
2415355000	Degreasing	Automotive Dealers	Total: All Solvent Types	1.1139	1.1966	1.2903	1.4354

SCC	Description 1	Description 2	Description 3	2006	2009	2012	2016
2415360000	Degreasing	Auto Repair Services	Total: All Solvent Types	1.2269	1.4476	1.5978	1.7513
2415365000	Degreasing	Miscellaneous Repair Services	Total: All Solvent Types	1.1215	1.2358	1.3380	1.4707
2420010055	Dry Cleaning	Commercial/Industrial Cleaners	Perchloroethylene	1.0285	1.0506	1.1013	1.2089
2420010370	Dry Cleaning	Commercial/Industrial Cleaners	Special Naphthas	1.0285	1.0506	1.1013	1.2089
2420020055	Dry Cleaning	Coin-operated Cleaners	Perchloroethylene	1.0285	1.0506	1.1013	1.2089
2425000000	Graphic Arts	All Processes	Total: All Solvent Types	1.0564	1.0929	1.1599	1.2848
2430000000	Rubber/Plastics	All Processes	Total: All Solvent Types	1.0000	1.0000	1.0000	1.0000
2440020000	Miscellaneous Industrial	Adhesive (Industrial) Application	Total: All Solvent Types	1.0000	1.0000	1.0000	1.0000
2461800000	Miscellaneous Non-industria	Pesticide Application: All Processes	Total: All Solvent Types	1.0481	1.0898	1.1335	1.1957
2465100000	Miscellaneous Non-industria	Personal Care Products	Total: All Solvent Types	1.0481	1.0898	1.1335	1.1957
2465200000	Miscellaneous Non-industria	Household Products	Total: All Solvent Types	1.0481	1.0898	1.1335	1.1957
2465400000	Miscellaneous Non-industria	Automotive Aftermarket Products	Total: All Solvent Types	1.0481	1.0898	1.1335	1.1957
2465600000	Miscellaneous Non-industria	Adhesives and Sealants	Total: All Solvent Types	1.0481	1.0898	1.1335	1.1957
2501060050	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 1: Total	1.0012	1.0090	1.0124	1.0132
2501060053	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 1: Balanced Submerged Filling	1.0012	1.0090	1.0124	1.0132
2501060100	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Total	1.0012	1.0090	1.0124	1.0132
2501060102	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Stage 2: Displacement Loss/Controlled	1.0012	1.0090	1.0124	1.0132
2501060201	Petroleum and Petroleum Product Storage	Gasoline Service Stations	Underground Tank: Breathing and Emptying	1.0012	1.0090	1.0124	1.0132
2505000120	Petroleum and Petroleum Product Storage	All Transport Types	Gasoline	1.0012	1.0090	1.0124	1.0132
2505030120	Petroleum and Petroleum Product Storage	Truck	Gasoline	1.0012	1.0090	1.0124	1.0132
2510995000	Organic Chemical Storage	All Storage Types: Working Loss	Total: All Products	1.0723	1.0945	1.1567	1.3414
2601010000	On-site Incineration	Industrial	Total	1.0000	1.0000	1.0000	1.0000
2601020000	On-site Incineration	Commercial/Institutional	Total	1.1348	1.2587	1.3627	1.4950
2610000100	Open Burning	All Categories	Yard Waste - Leaf Species Unspecified	1.0481	1.0898	1.1335	1.1957
2610000400	Open Burning	All Categories	Yard Waste - Brush Species Unspecified	1.0481	1.0898	1.1335	1.1957
2610030000	Open Burning	Residential	Household Waste	1.0481	1.0898	1.1335	1.1957
2620030000	Landfills	Municipal	Total	1.1081	1.2013	1.3117	1.4847
2630020000	Wastewater Treatment	Public Owned	Total Processed	1.1081	1.2013	1.3117	1.4847
2640000000	TSDFs	All TSDF Types	Total: All Processes	1.1081	1.2013	1.3117	1.4847
2660000000	Leaking Underground Storage	Leaking Underground Storage Tanks	Total: All Storage Types	1.0192	1.0543	1.0638	1.0658
2801000005	Agriculture Production - Crops	Agriculture – Crops	Harvesting	1.1330	1.2398	1.3320	1.4359

Appendix G

Energy Adjustment Factors

for

Area and Point Source Type Combustion Sources

Table G-1
Energy Adjustment Factors applied to the Area Combustion Sources from 2002 Base Year to 2006, 2009, 2012 and 2016 for the Categories included in the Middle Tennessee 5-County Area

Sector	Industry Sector	Fuel	ASC	2006	2009	2012	2016
Industrial	Total Industrial	Steam Coal	2102002000	0.9319	0.8836	0.8496	0.8262
Industrial	Total Industrial	Distillate	2102004000	0.9819	0.9490	0.9308	0.9079
Industrial	Total Industrial	Residual	2102005000	0.9625	0.9173	0.9065	0.8739
Industrial	Total Industrial	Natural Gas	2102006001	0.9419	0.9030	0.8831	0.8611
Industrial	Total Industrial	LPG	2102007000	0.9507	0.9206	0.9018	0.8791
Industrial	Total Industrial	Renewables	2102008000	0.9678	0.9474	0.9347	0.9163
Commercial		Coal	2103002000	0.9973	0.9959	0.9949	0.9937
Commercial		Distillate	2103004000	0.9028	0.8565	0.8218	0.7812
Commercial		Residual	2103005000	0.9793	0.9649	0.9506	0.9299
Commercial		Natural Gas	2103006000	0.9896	0.9880	0.9871	0.9825
Commercial		LPG	2103007000	0.9938	0.9925	0.9899	0.9859
Commercial		Kerosene	2103011000	0.9894	0.9826	0.9761	0.9669
Residential		Coal	2104002000	0.9161	0.8582	0.8124	0.7588
Residential		Distillate	2104004000	0.8767	0.8089	0.7539	0.6885
Residential		Natural Gas	2104006000	0.9687	0.9546	0.9478	0.9311
Residential		LPG	2104007000	0.9259	0.8852	0.8433	0.7828
Residential		Renewables	2104008001	0.9608	0.9343	0.9141	0.8873
Residential		Renewables	2104008010	0.9608	0.9343	0.9141	0.8873
Residential		Renewables	2104008030	0.9608	0.9343	0.9141	0.8873
Residential		Renewables	2104008050	0.9608	0.9343	0.9141	0.8873
Residential		Kerosene	2104011000	0.9098	0.8617	0.8224	0.7715

Source: Provided by E. H. Pechan & Associates, Inc, February 2002. The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

Table G-2
Energy Adjustment Factors applied to the Point Combustion Sources from 2002 Base Year to 2006, 2009, 2012 and 2016 for the Categories included in the Middle Tennessee 5-County Area

Sector	Industry Sector	Fuel	SCC	2006	2009	2012	2016
Industrial	Total Industrial	Steam Coal	10200202	0.9319	0.8836	0.8496	0.8262
Industrial	Total Industrial	Steam Coal	10200204	0.9319	0.8836	0.8496	0.8262
Industrial	Total Industrial	Steam Coal	10200206	0.9319	0.8836	0.8496	0.8262
Industrial	Total Industrial	Distillate	10200501	0.9819	0.9490	0.9308	0.9079
Industrial	Total Industrial	Natural Gas	10200601	0.9419	0.9030	0.8831	0.8611
Industrial	Total Industrial	Natural Gas	10200602	0.9419	0.9030	0.8831	0.8611
Industrial	Total Industrial	Natural Gas	10200603	0.9419	0.9030	0.8831	0.8611
Industrial	Total Industrial	Total Delivered Energy	10200799	0.9433	0.9054	0.8819	0.8552
Industrial	Total Industrial	Renewables	10200903	0.9678	0.9474	0.9347	0.9163
Industrial	Total Industrial	Renewables	10200906	0.9678	0.9474	0.9347	0.9163
Commercial		Coal	10300207	0.9973	0.9959	0.9949	0.9937
Commercial		Coal	10300208	0.9973	0.9959	0.9949	0.9937
Commercial		Coal	10300209	0.9973	0.9959	0.9949	0.9937
Commercial		Distillate	10300501	0.9028	0.8565	0.8218	0.7812
Commercial		Distillate	10300503	0.9028	0.8565	0.8218	0.7812
Commercial		Natural Gas	10300601	0.9896	0.9880	0.9871	0.9825
Commercial		Natural Gas	10300602	0.9896	0.9880	0.9871	0.9825
Commercial		Natural Gas	10300603	0.9896	0.9880	0.9871	0.9825
Commercial		Renewables	10301201	1.0152	1.0208	1.0210	1.0149
Commercial		Renewables	10301202	1.0152	1.0208	1.0210	1.0149
Industrial	Total Industrial	Natural Gas	10500106	0.9419	0.9030	0.8831	0.8611
Industrial	Total Industrial	Distillate	20200102	0.9819	0.9490	0.9308	0.9079
Industrial	Total Industrial	Distillate	20200107	0.9819	0.9490	0.9308	0.9079
Industrial	Total Industrial	Distillate	20200401	0.9819	0.9490	0.9308	0.9079
Industrial	Total Industrial	Motor Gasoline	20201706	1.0015	0.9788	0.9658	0.9488
Commercial		Distillate	20300101	0.9028	0.8565	0.8218	0.7812
Commercial		Distillate	20300107	0.9028	0.8565	0.8218	0.7812
Industrial	Bulk Chemicals	Heat and Power-Total	30190004	0.9557	0.9244	0.9091	0.8959
Industrial	Bulk Chemicals	Heat and Power-Natural Gas	30190013	0.9445	0.9102	0.8882	0.8702
Industrial	Iron and Steel	Natural Gas	30390013	0.9430	0.9239	0.9124	0.9162
Industrial	Refining	Natural Gas	30500206	1.0633	1.0648	1.0946	1.1221
Industrial	Mining	Natural Gas	30590003	0.9688	0.9586	0.9551	0.9487
Industrial	Paper	Natural Gas	30790013	0.9064	0.8420	0.7954	0.7543
Industrial	Total Industrial	Total Coal	39000199	0.9192	0.8574	0.8139	0.7792
Industrial	Total Industrial	Natural Gas	39000689	0.9419	0.9030	0.8831	0.8611
Industrial	Total Industrial	Natural Gas	39000699	0.9419	0.9030	0.8831	0.8611
Industrial	Total Industrial	Natural Gas	40201001	0.9419	0.9030	0.8831	0.8611

Source: Provided by E. H. Pechan & Associates, Inc, February 2002. The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

Appendix H

Point Source Control Factors

Table H-1. Point Source CAA Baseline VOC Control Assumptions

Source Category	Control Efficiency (%)
National Rules	
Marine vessel loading: petroleum liquids	80
Treatment, storage, and disposal facilities (TSDFs)	96
Municipal solid waste landfills	82

Source: Provided by E. H. Pechan & Associates, Inc, February 2002. The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

Table H-2. Point Source MACT Control Assumptions

Source Category	VOC Control Efficiency (%)*
Benzene National Emission Standards for Hazardous Air Pollutants (NESHAP) (national)	
By-product coke mfg	85
By-product coke - flushing-liquor circulation tank	95
By-product coke – excess-NH_3 liquor tank	98
By-product coke mfg. - tar storage	98
By-product coke mfg. - light oil sump	98
By-product coke mfg. - light oil dec/cond vents	98
By-product coke mfg. - tar bottom final cooler	81
By-product coke mfg. - naphthalene processing	100
By-product coke mfg. - equipment leaks	83
By-product coke manufacture – other	94
By-product coke manufacture - oven charging	94
Coke ovens - door and topside leaks	94
Coke oven by-product plants	94
2-Year MACT (national)	
Synthetic Organic Chemical Manufacturing Industry (SOCMI) Hazardous Organic NESHAP (HON)	
– SOCMI processes	79
– Volatile organic liquid storage	95
– SOCMI fugitives (equipment leak detection and repair)	60
– SOCMI wastewater	0
– Ethylene oxide manufacture	98
– Phenol manufacture	98
– Acrylonitrile manufacture	98
– Polypropylene manufacture	98
– Polyethylene manufacture	98
– Ethylene manufacture	98
Dry Cleaning	
– Perchloroethylene	95
– Other	70
4-Year MACT (national)	
TSDFs (offsite waste operations)	96
Shipbuilding and repair	24
Polymers and resins II	78
Polymers and resins IV	70
Styrene-butadiene rubber manufacture (polymers & resins group I)	70

Source Category	VOC Control Efficiency (%)*
Wood furniture surface coating	30
Aircraft surface coating (aerospace)	60
Petroleum Refineries: other sources	
– Fixed roof petroleum product tanks	98
– Fixed roof gasoline tanks	96
– External floating roof petroleum product tanks	90
– External floating roof gasoline tanks	95
– Petroleum refinery wastewater treatment	72
– Petroleum refinery fugitives	72
– Petroleum refineries - Blowdown w/o control	78
– Vacuum distillation	72
Halogenated Solvent Cleaners	
– Open top degreasing – halogenated	63
– In-line (conveyorized) degreasing – halogenated	39
Printing	
– Flexographic	32
– Gravure	27
Gasoline Marketing	
– Storage	5
– Splash loading	99
– Balanced loading	87
– Submerged loading	99
– Transit	5
– Leaks	39
7/10-Year MACT (national)	
Paint and varnish manufacture	35
Rubber tire manufacture	70
Green tire spray	90
Automobile surface coating	79
Beverage can surface coating	57
Paper surface coating	78
Flatwood surface coating	90
Fabric printing	80
Metal surface coating	90
Plastic parts surface coating	45
Pulp and paper production	70
Agricultural chemical production	79

Source Category	VOC Control Efficiency (%)*
Pharmaceutical production	79
Polyesters	70
Fabric coating	70
Petroleum refineries - fluid catalytic cracking	70
Oil and natural gas production	90
Explosives	70
Plywood/particle board	70
Reinforced plastics	70
Publicly-Owned Treatment Works (POTWs)	70
Phthalate plasticizers	70
Polymers and resins III	78
Rayon production	70
Polyvinyl chloride	70
Spandex production	70
Nylon 6 production	70
Alkyd resins	70
Polyester resins	70
Chelating agents	70

NOTE: *From uncontrolled levels.
Source: EPA "Procedures for Developing Base Year and Future Year Mass and Modeling Inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

Table H-3. Non-VOC Related MACT Assumptions

Source Category	Pollutant	Percentage Reduction (%)*
Medical Waste Incineration	NOx	20

NOTE: *From uncontrolled levels.
Source: Provided by E. H. Pechan & Associates, Inc, February 2002. The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

Table H-4. NO_x Reduction Levels from Uncontrolled Emissions for Non-EGU Sources

Source Category	Percentage Reduction (%)*
Percentage	
[illegible]	
ICI Boilers - Coal/FBC	60
[illegible]	
ICI Boilers - Coal/Cyclone	60
[illegible]	
ICI Boilers - Distillate Oil	60
[illegible]	
ICI Boilers - Process Gas	60
[illegible]	
ICI Boilers – Coke	60
[illegible]	
Gas Turbines - Natural Gas	60
[illegible]	
Internal Combustion Engines – Oil	90
[illegible]	
Internal Combustion Engines - Gas, Diesel, LPG	90
[illegible]	
Cement Manufacturing – Wet	30
[illegible]	

* *Industrial/Commercial/Institutional Boilers*

Source: Provided by E. H. Pechan & Associates, Inc, February 2002. The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

Appendix I

Options Input File the NONROAD2004 Model

for the Nashville 5-County Area

This is the options file for the NONROAD program.
The data is separated into "packets" bases on common information. Each packet is specified by an identifier and a terminator. Any notes or descriptions can be placed between the data packets.

PERIOD PACKET

This is the packet that defines the period for which emissions are to be estimated. The order of the records matter. The selection of certain parameters will cause some of the record that follow to be ignored. The order of the records is as follows:

```
1  - Char 10  - Period type for this simulation.
                Valid responses are: ANNUAL, SEASONAL, and MONTHLY
2  - Char 10  - Type of inventory produced.
                Valid responses are: TYPICAL DAY and PERIOD TOTAL
3  - Integer  - year of episode (4 digit year)
4  - Char 10  - Month of episode (use complete name of month)
5  - Char 10  - Type of day
                Valid responses are: WEEKDAY and WEEKEND
```

```
/PERIOD/
Period type         : Monthly
Summation type      : Typical Day
Year of episode     : 2006
Season of year      :
Month of year       : June
Weekday or weekend  : Weekday
/END/
```

OPTIONS PACKET

This is the packet that defines some of the user options that drive the model. Most parameters are used to make episode specific emission factor adjustments. The order of the records is fixed. The order is as follows.

```
1  -  Char 80  - First title on reports
2  -  Char 80  - Second title on reports
3  -  Real 10  - Fuel RVP of gasoline for this simulation
4  -  Real 10  - Oxygen weight percent of gasoline for simulation
5  -  Real 10  - Percent sulfur for gasoline
6  -  Real 10  - Percent sulfur for diesel
7  -  Real 10  - Percent sulfur for LPG/CNG
8  -  Real 10  - Minimum daily temperature (deg. F)
9  -  Real 10  - maximum daily temperature (deg. F)
10 -  Real 10  - Representative average daily temperature (deg. F)
11 -  Char 10  - Flag to determine if region is high altitude
                 Valid responses are: HIGH and LOW
12 -  Char 10  - Flag to determine if RFG adjustments are made
```

Valid responses are: YES and NO

```
-----------------------------------------------------
/OPTIONS/
Title 1              :
Title 2              :
Fuel RVP for gas     : 8.0
Oxygen Weight %      : 0.0
Gas sulfur %         : 0.0339
Diesel sulfur %      : 0.2249
CNG/LPG sulfur %     : 0.003
Minimum temper. (F): 62
Maximum temper. (F): 85
Average temper. (F): 73
Altitude of region : LOW
/END/

-----------------------------------------------------
```

REGION PACKET

This is the packet that defines the region for which emissions are to be estimated.

The first record tells the type of region and allocation to perform.

Valid responses are:

US TOTAL - emissions are for entire USA without state breakout.

50STATE - emissions are for all 50 states and Washington D.C., by state.

STATE - emissions are for a select group of states and are state-level estimates

COUNTY - emissions are for a select group of counties and are county level estimates. If necessary, allocation from state to county will be performed.

SUBCOUNTY - emissions are for the specified sub counties and are subcounty level estimates. If necessary, county to subcounty allocation will be performed.

The remaining records define the regions to be included. The type of data which must be specified depends on the region level.

US TOTAL - Nothing needs to be specified. The FIPS code 00000 is used automatically.

50STATE - Nothing needs to be specified. The FIPS code 00000 is used automatically.

STATE - state FIPS codes

COUNTY - state or county FIPS codes. State FIPS

code means include all counties in the state.

SUBCOUNTY - county FIPS code and subregion code.

```
-----------------------------------------------------
/REGION/
Region Level        : COUNTY
                    : 47037
                    : 47149
                    : 47165
                    : 47187
                    : 47189
/END/
-----------------------------------------------------
```

SOURCE CATEGORY PACKET

This packet is used to tell the model which source categories are to be processed. It is optional. If used, only those source categories list will appear in the output data file. If the packet is not found, the model will process all source categories in the population files.

```
-----------------------------------------------------
;/SOURCE CATEGORY/
                    :2270000000
                    :2282020000
                    :2285002015
/END/
```

All Equipment - just put semicolon at start of packet name line or use the following SCC list -

```
                    :2260000000
                    :2265000000
                    :2267000000
                    :2268000000
                    :2270000000
                    :2282000000
                    :2285000000
```

Diesel Only -

```
                    :2270000000
                    :2282020000
                    :2285002015
```

Spark Ignition Only -

```
                    :2260000000
                    :2265000000
                    :2267000000
                    :2268000000
                    :2282005010
                    :2282005015
                    :2282010005
                    :2285004015
                    :2285006015

-----------------------------------------------------
```

This is the packet that lists the names of output files and some of the input data files read by the model. If

```
 a drive:\path\ is not given, the location of the
 NONROAD.EXE file itself is assumed.  You will probably
 want to change the names of the Output and Message files
 to match that of the OPTion file, e.g., MICH-97.OPT,
 MICH-97.OUT, MICH-97.MSG, and if used MICH-97.AMS.
-----------------------------------------------------
/RUNFILES/
ALLOC XREF          : C:\nonroad\DATA\ALLOCATE\ALLOCATE.XRF
ACTIVITY            : C:\nonroad\DATA\ACTIVITY\ACTIVITY.DAT
TECHNOLOGY          : C:\nonroad\DATA\TECH\TECH.DAT
SEASONALITY         : C:\nonroad\DATA\SEASON\SEASON.DAT
REGIONS             : C:\nonroad\DATA\SEASON\SEASON.DAT
MESSAGE             : C:\nonroad\TN_6cty\tn06d15c.msg
OUTPUT DATA         : C:\nonroad\TN_6cty\tn06d15c.out
EPS2 AMS            : C:\nonroad\TN_6cty\tn06d15c.ams
/END/

-----------------------------------------------------
This is the packet that defines the equipment population
files read by the model.
-----------------------------------------------------
/POP FILES/
POPULATION FILE     : c:\nonroad\data\POP\TN.POP
/END/

-----------------------------------------------------
This is the packet that defines the growth files
files read by the model.
-----------------------------------------------------
/GROWTH FILES/
National defaults  :C:\nonroad\data\growth\nation.grw
/END/

-----------------------------------------------------
This is the packet that defines the spatial
allocation files read by the model.
-----------------------------------------------------
/ALLOC FILES/
Air Transportation :c:\nonroad\data\allocate\tn_airtr.alo
Contruction empl.  :c:\nonroad\data\allocate\tn_const.alo
Havested Cropland  :c:\nonroad\data\allocate\tn_farms.alo
Wholesale establis.:c:\nonroad\data\allocate\tn_holsl.alo
Family housing     :c:\nonroad\data\allocate\tn_house.alo
Logging empl.      :c:\nonroad\data\allocate\tn_loggn.alo
Rec Marine outbrd  :C:\nonroad\data\allocate\tn_wob.alo
Rec Marine inbrd   :C:\nonroad\data\allocate\tn_wib.alo
Snow Blowers comm  :C:\nonroad\data\allocate\tn_sbc.alo
Snow Blowers res   :C:\nonroad\data\allocate\tn_sbr.alo
Snowmobiles        :C:\nonroad\data\allocate\tn_snowm.alo
Coal Mining        :C:\nonroad\data\allocate\tn_coal.alo
Landscape empl.    :c:\nonroad\data\allocate\tn_lscap.alo
Census population  :c:\nonroad\data\allocate\tn_pop.alo
Manufacturing empl.:c:\nonroad\data\allocate\tn_mnfg.alo
Oil & Gas employees:c:\nonroad\data\allocate\tn_oil.alo
RV Park employees  :c:\nonroad\data\allocate\tn_rvprk.alo
Golf               :c:\nonroad\data\allocate\tn_golf.alo
/END/
```

```
-----------------------------------------------------
This is the packet that defines the emssions factors
files read by the model.
-----------------------------------------------------
/EMFAC FILES/
THC EXHAUST          : C:\nonroad\data\emsfac\exhthc.emf
CO EXHAUST           : C:\nonroad\data\emsfac\exhco.emf
NOX EXHAUST          : C:\nonroad\data\emsfac\exhnox.emf
PM EXHAUST           : C:\nonroad\data\emsfac\exhpm.emf
CRANKCASE            : C:\nonroad\data\emsfac\crank.emf
REFUELING            : C:\nonroad\data\emsfac\displace.emf
SPILLAGE             : C:\nonroad\data\emsfac\spillage.emf
DIURNAL              : C:\nonroad\data\emsfac\diurnal.emf
BSFC                 : C:\nonroad\data\emsfac\bsfc.emf
/END/
RUNINGLOSS           : C:\nonroad\data\emsfac\runloss.emf
RESTNGLOSS           : C:\nonroad\data\emsfac\restloss.emf

-----------------------------------------------------
This is the packet that defines the deterioration factors
files read by the model.
-----------------------------------------------------
/DETERIORATE FILES/
THC EXHAUST          : C:\nonroad\data\detfac\exhthc.det
CO EXHAUST           : C:\nonroad\data\detfac\exhco.det
NOX EXHAUST          : C:\nonroad\data\detfac\exhnox.det
PM EXHAUST           : C:\nonroad\data\detfac\exhpm.det
/END/
```

APPENDIX J

DVMT, Vehicle Mix and Example Speed Files Used

With MOBILE6.2.03

for the 5-County Middle Tennessee Area

Table J-1 .- DVMT by Facility Type and County for the Nashville Five-County Area.

Facility	Rural Interstate	Rural Major Arterial	Rural Minor Arterial	Rural Collector	Rural Local	Urban Interstate	Urban Principal Arterial	Urban Minor Arterial	Urban Collector	Urban Ramps	Urban Local
2002											
Davidson	0	0	74261	80178	17998	9405483	4102143	3770514	1098575	817868	2943873
Rutherford	1357632	737293	197635	818628	362578	580683	1150097	882944	308274	50494	455891
Sumner	262504	169480	271769	465485	136263	380756	965070	315625	349188	33109	313450
Williamson	661918	184665	801349	514845	252050	845468	483851	500121	226442	73519	326586
Wilson	557081	187670	483065	354099	184356	700223	405275	235876	179836	60889	242647
2006											
Davidson	0	0	79635	85980	19301	10086172	4399021	4043392	1178081	877058	3156926
Rutherford	1648229	895108	239938	993852	440186	704976	1396271	1071935	374258	61302	553473
Sumner	265650	171512	275027	471065	137896	385320	976639	319409	353374	33506	317207
Williamson	777603	216940	941402	604826	296101	993232	568415	587528	266018	86368	383664
Wilson	586154	197465	508275	372579	193978	736766	426426	248186	189222	64067	255310
2009											
Davidson	0	0	83666	90332	20278	10596702	4621686	4248056	1237711	921452	3316719
Rutherford	1866177	1013469	271665	1125271	498393	798196	1580902	1213679	423747	69408	626660
Sumner	280879	181343	290793	498068	145801	407409	1032624	337719	373631	35427	335391
Williamson	864366	241145	1046442	672311	329140	1104055	631837	653083	295700	96005	426473
Wilson	607960	204810	527183	386439	201194	764174	442289	257419	196261	66450	264808
2012											
Davidson	0	0	87697	94684	21255	11107232	4844351	4452720	1297342	965846	3476513
Rutherford	2084125	1131831	303392	1256689	556599	891416	1765533	1355422	473236	77515	699846
Sumner	288754	186428	298946	512033	149889	418831	1061576	347188	384107	36420	344797
Williamson	951130	265351	1151482	739796	362178	1214848	695260	718638	325382	105642	469282
Wilson	629764	212156	546091	400299	208410	791582	458152	266652	203300	68833	274305
2016											
Davidson	0	0	93072	100487	22557	11787939	5141237	4725605	1376850	1025038	3689571
Rutherford	2374721	1289646	345696	1431914	634208	1015710	2011707	1544413	539221	88323	797428
Sumner	299254	193207	309816	530652	155340	434062	1100179	359813	398074	37745	357333
Williamson	1066814	297625	1291535	829777	406230	1362642	779823	806045	364958	118491	526360
Wilson	658838	221950	571301	418778	218031	828125	479302	278962	212685	72011	286968

Table J-2 .- Vehicle Mix by Facility Type and Vehicle Type Davidson County

Facility	LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4	HDV5	HDV6	HDV7	HDV8A	HDV8B	HDBS	HDBT	MC
								2002								
Urban Interstate	0.504	0.059	0.197	0.060	0.027	0.035	0	0	0	0	0	0.027	0.089	0	0	0.002
Rural Interstate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urban Arterials	0.562	0.066	0.219	0.067	0.030	0.012	0	0	0	0	0	0.009	0.032	0	0	0.003
Rural Arterials	0.541	0.064	0.212	0.065	0.029	0.019	0	0	0	0	0	0.015	0.05	0	0	0.005
Urban Local	0.586	0.069	0.228	0.07	0.031	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.574	0.067	0.224	0.069	0.031	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
								2006								
Urban Interstate	0.411	0.075	0.250	0.077	0.034	0.035	0	0	0	0	0	0.027	0.089	0	0	0.002
Rural Interstate	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Urban Arterials	0.459	0.084	0.278	0.086	0.038	0.012	0	0	0	0	0	0.009	0.032	0	0	0.003
Rural Arterials	0.442	0.081	0.268	0.083	0.037	0.019	0	0	0	0	0	0.015	0.050	0	0	0.005
Urban Local	0.479	0.087	0.290	0.089	0.040	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.470	0.085	0.284	0.087	0.039	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
								2009								
Urban Interstate	0.353	K0.085	0.283	0.087	0.039	0.035	0	0	0	0	0	0.027	0.089	0	0	0.002
Rural Interstate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urban Arterials	0.393	0.095	0.316	0.097	0.043	0.012	0	0	0	0	0	0.009	0.032	0	0	0.003
Rural Arterials	0.380	0.091	0.304	0.094	0.042	0.019	0	0	0	0	0	0.015	0.050	0	0	0.005
Urban Local	0.410	0.099	0.329	0.101	0.045	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.403	0.097	0.322	0.099	0.044	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
								2012								
Urban Interstate	0.324	0.090	0.300	0.092	0.041	0.035	0	0	0	0	0	0.027	0.089	0	0	0.002
Rural Interstate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urban Arterials	0.361	0.100	0.334	0.103	0.046	0.012	0	0	0	0	0	0.009	0.032	0	0	0.003
Rural Arterials	0.349	0.097	0.322	0.099	0.044	0.019	0	0	0	0	0	0.015	0.050	0	0	0.005
Urban Local	0.376	0.105	0.348	0.107	0.048	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.370	0.102	0.341	0.105	0.047	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
								2016								
Urban Interstate	0.299	0.094	0.314	0.097	0.043	0.035	0	0	0	0	0	0.027	0.089	0	0	0.002
Rural Interstate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urban Arterials	0.333	0.105	0.350	0.108	0.048	0.012	0	0	0	0	0	0.009	0.032	0	0	0.003
Rural Arterials	0.321	0.102	0.338	0.104	0.046	0.019	0	0	0	0	0	0.015	0.050	0	0	0.005
Urban Local	0.347	0.110	0.365	0.112	0.050	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.341	0.107	0.358	0.110	0.049	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002

Table J-3 .- Vehicle Mix by Facility Type and Vehicle Type Rutherford County

Facility	LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4	HDV5	HDV6	HDV7	HDV8A	HDV8B	HDBS	HDBT	MC
2002																
Urban Interstate	0.442	0.052	0.173	0.053	0.024	0.058	0	0	0	0	0	0.045	0.151	0	0	0.002
Rural Interstate	0.438	0.051	0.171	0.052	0.023	0.059	0	0	0	0	0	0.046	0.152	0	0	0.008
Urban Arterials	0.568	0.067	0.222	0.068	0.030	0.010	0	0	0	0	0	0.007	0.025	0	0	0.003
Rural Arterials	0.560	0.066	0.219	0.067	0.030	0.012	0	0	0	0	0	0.009	0.032	0	0	0.005
Urban Local	0.586	0.069	0.228	0.070	0.031	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.574	0.067	0.224	0.069	0.031	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2006																
Urban Interstate	0.362	0.066	0.219	0.067	0.030	0.058	0	0	0	0	0	0.045	0.151	0	0	0.002
Rural Interstate	0.356	0.065	0.217	0.067	0.030	0.059	0	0	0	0	0	0.046	0.152	0	0	0.008
Urban Arterials	0.466	0.084	0.281	0.086	0.038	0.010	0	0	0	0	0	0.007	0.025	0	0	0.003
Rural Arterials	0.458	0.083	0.278	0.085	0.038	0.012	0	0	0	0	0	0.009	0.032	0	0	0.005
Urban Local	0.478	0.087	0.290	0.089	0.040	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.470	0.085	0.284	0.087	0.039	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2009																
Urban Interstate	0.310	0.075	0.249	0.076	0.034	0.058	0	0	0	0	0	0.045	0.151	0	0	0.002
Rural Interstate	0.305	0.074	0.246	0.076	0.034	0.059	0	0	0	0	0	0.046	0.152	0	0	0.008
Urban Arterials	0.398	0.096	0.319	0.098	0.044	0.010	0	0	0	0	0	0.007	0.025	0	0	0.003
Rural Arterials	0.392	0.095	0.315	0.097	0.043	0.012	0	0	0	0	0	0.009	0.032	0	0	0.005
Urban Local	0.410	0.099	0.329	0.101	0.045	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.403	0.097	0.322	0.099	0.044	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2012																
Urban Interstate	0.285	0.079	0.263	0.081	0.036	0.058	0	0	0	0	0	0.045	0.151	0	0	0.002
Rural Interstate	0.281	0.078	0.260	0.081	0.035	0.059	0	0	0	0	0	0.046	0.152	0	0	0.008
Urban Arterials	0.367	0.101	0.337	0.104	0.046	0.010	0	0	0	0	0	0.007	0.025	0	0	0.003
Rural Arterials	0.360	0.100	0.333	0.103	0.046	0.012	0	0	0	0	0	0.009	0.032	0	0	0.005
Urban Local	0.376	0.105	0.348	0.107	0.048	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.370	0.102	0.341	0.105	0.047	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2016																
Urban Interstate	0.262	0.083	0.276	0.085	0.038	0.058	0	0	0	0	0	0.045	0.151	0	0	0.002
Rural Interstate	0.259	0.082	0.273	0.084	0.037	0.059	0	0	0	0	0	0.046	0.152	0	0	0.008
Urban Arterials	0.338	0.106	0.354	0.109	0.048	0.010	0	0	0	0	0	0.007	0.025	0	0	0.003
Rural Arterials	0.332	0.105	0.349	0.108	0.048	0.012	0	0	0	0	0	0.009	0.032	0	0	0.005
Urban Local	0.347	0.110	0.365	0.112	0.050	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.341	0.107	0.358	0.110	0.049	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002

Table J-4 .- Vehicle Mix by Facility Type and Vehicle Type Sumner County

Facility	LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4	HDV5	HDV6	HDV7	HDV8A	HDV8B	HDBS	HDBT	MC
2002																
Urban Interstate	0.427	0.050	0.167	0.051	0.023	0.064	0	0	0	0	0	0.050	0.166	0	0	0.002
Rural Interstate	0.424	0.050	0.165	0.051	0.023	0.064	0	0	0	0	0	0.050	0.166	0	0	0.008
Urban Arterials	0.553	0.065	0.216	0.066	0.030	0.015	0	0	0	0	0	0.012	0.040	0	0	0.003
Rural Arterials	0.566	0.066	0.221	0.068	0.030	0.010	0	0	0	0	0	0.008	0.026	0	0	0.005
Urban Local	0.585	0.069	0.228	0.070	0.031	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.574	0.067	0.224	0.069	0.031	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2006																
Urban Interstate	0.349	0.064	0.212	0.065	0.029	0.064	0	0	0	0	0	0.050	0.166	0	0	0.002
Rural Interstate	0.347	0.063	0.209	0.064	0.029	0.064	0	0	0	0	0	0.050	0.166	0	0	0.008
Urban Arterials	0.452	0.082	0.274	0.084	0.037	0.015	0	0	0	0	0	0.012	0.040	0	0	0.003
Rural Arterials	0.463	0.084	0.280	0.086	0.038	0.010	0	0	0	0	0	0.008	0.026	0	0	0.005
Urban Local	0.479	0.087	0.290	0.089	0.040	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.469	0.085	0.284	0.087	0.039	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2009																
Urban Interstate	0.299	0.072	0.240	0.074	0.033	0.064	0	0	0	0	0	0.050	0.166	0	0	0.002
Rural Interstate	0.297	0.071	0.238	0.073	0.033	0.064	0	0	0	0	0	0.050	0.166	0	0	0.008
Urban Arterials	0.388	0.093	0.311	0.096	0.043	0.015	0	0	0	0	0	0.012	0.040	0	0	0.003
Rural Arterials	0.397	0.095	0.318	0.098	0.043	0.010	0	0	0	0	0	0.003	0.008	0	0	0.002
Urban Local	0.411	0.099	0.329	0.101	0.045	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.403	0.097	0.322	0.099	0.044	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2012																
Urban Interstate	0.275	0.076	0.254	0.078	0.035	0.064	0	0	0	0	0	0.050	0.166	0	0	0.002
Rural Interstate	0.275	0.075	0.251	0.077	0.034	0.064	0	0	0	0	0	0.050	0.166	0	0	0.008
Urban Arterials	0.356	0.099	0.329	0.101	0.045	0.015	0	0	0	0	0	0.012	0.040	0	0	0.003
Rural Arterials	0.365	0.101	0.336	0.103	0.046	0.010	0	0	0	0	0	0.008	0.026	0	0	0.005
Urban Local	0.376	0.105	0.348	0.107	0.048	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.370	0.102	0.341	0.105	0.047	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2016																
Urban Interstate	0.337	0.106	0													
Rural Interstate	0.252	0.079	0.264	0.081	0.036	0.064	0	0	0	0	0	0.050	0.166	0	0	0.008
Urban Arterials	0.328	0.104	0.345	0.106	0.047	0.015	0	0	0	0	0	0.012	0.040	0	0	0.003
Rural Arterials	0.337	0.106	0.352	0.108	0.048	0.010	0	0	0	0	0	0.008	0.026	0	0	0.005
Urban Local	0.253	0.080	0.267	0.082	0.036	0.064	0	0	0	0	0	0.050	0.166	0	0	0.002
Rural Local	0.341	0.107	0.358	0.110	0.049	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002

Table J-5 .- Vehicle Mix by Facility Type and Vehicle Type Williamson County

Facility	LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4	HDV5	HDV6	HDV7	HDV8A	HDV8B	HDBS	HDBT	MC
2002																
Urban Interstate	0.508	0.060	0.198	0.061	0.027	0.033	0	0	0	0	0	0.026	0.085	0	0	0.002
Rural Interstate	0.462	0.048	0.161	0.049	0.022	0.057	0	0	0	0	0	0.044	0.148	0	0	0.008
Urban Arterials	0.594	0.062	0.207	0.063	0.028	0.010	0	0	0	0	0	0.008	0.025	0	0	0.003
Rural Arterials	0.597	0.062	0.208	0.064	0.028	0.008	0	0	0	0	0	0.006	0.022	0	0	0.005
Urban Local	0.612	0.064	0.213	0.065	0.029	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.600	0.063	0.209	0.064	0.029	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2006																
Urban Interstate	0.415	0.076	0.252	0.077	0.034	0.033	0	0	0	0	0	0.026	0.085	0	0	0.002
Rural Interstate	0.361	0.066	0.219	0.067	0.030	0.057	0	0	0	0	0	0.044	0.148	0	0	0.008
Urban Arterials	0.464	0.084	0.281	0.086	0.038	0.010	0	0	0	0	0	0.008	0.025	0	0	0.003
Rural Arterials	0.466	0.085	0.282	0.087	0.039	0.008	0	0	0	0	0	0.006	0.022	0	0	0.005
Urban Local	0.479	0.087	0.290	0.089	0.040	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.469	0.085	0.284	0.087	0.039	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2009																
Urban Interstate	0.356	0.086	0.285	0.088	0.039	0.033	0	0	0	0	0	0.026	0.085	0	0	0.002
Rural Interstate	0.310	0.075	0.248	0.076	0.034	0.057	0	0	0	0	0	0.044	0.148	0	0	0.008
Urban Arterials	0.398	0.096	0.319	0.098	0.044	0.010	0	0	0	0	0	0.008	0.025	0	0	0.003
Rural Arterials	0.400	0.096	0.320	0.099	0.044	0.008	0	0	0	0	0	0.006	0.022	0	0	0.005
Urban Local	0.411	0.099	0.329	0.101	0.045	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.403	0.097	0.322	0.099	0.044	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2012																
Urban Interstate	0.327	0.091	0.302	0.093	0.041	0.033	0	0	0	0	0	0.026	0.085	0	0	0.002
Rural Interstate	0.284	0.079	0.263	0.081	0.036	0.075	0	0	0	0	0	0.044	0.148	0	0	0.008
Urban Arterials	0.366	0.101	0.337	0.104	0.046	0.010	0	0	0	0	0	0.008	0.025	0.	0	0.003
Rural Arterials	0.367	0.102	0.339	0.104	0.047	0.088	0	0	0	0	0	0.006	0.022	0	0	0.055
Urban Local	0.327	0.091	0.302	0.093	0.041	0.033	0	0	0	0	0	0.026	0.085	0	0	0.002
Rural Local	0.284	0.079	0.263	0.081	0.036	0.057	0	0	0	0	0	0.044	0.148	0	0	0.008
2016																
Urban Interstate	0.302	0.095	0.317	0.097	0.043	0.033	0	0	0	0	0	0.026	0.085	0	0	0.002
Rural Interstate	0.261	0.083	0.276	0.085	0.038	0.057	0	0	0	0	0	0.044	0.148	0	0	0.008
Urban Arterials	0.337	0.106	0.354	0.109	0.048	0.010	0	0	0	0	0	0.008	0.025	0	0	0.003
Rural Arterials	0.339	0.107	0.355	0.109	0.049	0.008	0	0	0	0	0	0.006	0.022	0	0	0.005
Urban Local	0.347	0.110	0.365	0.112	0.050	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.261	0.083	0.276	0.085	0.038	0.057	0	0	0	0	0	0.044	0.148	0	0	0.008

Table J-6.- Vehicle Mix by Facility Type and Vehicle Type Wilson County, TN

Facility	LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4	HDV5	HDV6	HDV7	HDV8A	HDV8B	HDBS	HDBT	MC
2002																
Urban Interstate	0.486	0.057	0.190	0.058	0.026	0.042	0	0	0	0	0	0.032	0.107	0	0	0.002
Rural Interstate	0.425	0.050	0.165	0.051	0.023	0.064	0	0	0	0	0	0.050	0.165	0	0	0.008
Urban Arterials	0.558	0.066	0.218	0.067	0.030	0.013	0	0	0	0	0	0.010	0.035	0	0	0.003
Rural Arterials	0.559	0.066	0.218	0.067	0.030	0.013	0	0	0	0	0	0.010	0.032	0	0	0.005
Urban Local	0.585	0.069	0.228	0.070	0.031	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.574	0.067	0.224	0.069	0.031	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2006																
Urban Interstate	0.397	0.072	0.241	0.074	0.033	0.042	0	0	0	0	0	0.032	0.107	0	0	0.002
Rural Interstate	0.347	0.063	0.210	0.065	0.029	0.064	0	0	0	0	0	0.050	0.165	0	0	0.008
Urban Arterials	0.456	0.083	0.277	0.085	0.038	0.013	0	0	0	0	0	0.010	0.035	0	0	0.003
Rural Arterials	0.457	0.083	0.277	0.085	0.038	0.013	0	0	0	0	0	0.010	0.032	0	0	0.005
Urban Local	0.479	0.087	0.290	0.089	0.040	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.469	0.085	0.284	0.087	0.039	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2009																
Urban Interstate	0.340	0.082	0.273	0.084	0.037	0.042	0	0	0	0	0	0.032	0.107	0	0	0.002
Rural Interstate	0.298	0.071	0.238	0.073	0.033	0.064	0	0	0	0	0	0.050	0.165	0	0	0.008
Urban Arterials	0.391	0.094	0.314	0.097	0.043	0.013	0	0	0	0	0	0.010	0.035	0	0	0.003
Rural Arterials	0.392	0.094	0.0314	0.097	0.043	0.013	0	0	0	0	0	0.010	0.032	0	0	0.005
Urban Local	0.397	0.101	0.336	0.103	0.046	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.390	0.099	0.330	0.101	0.045	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2012																
Urban Interstate	0.312	0.087	0.289	0.089	0.040	0.042	0	0	0	0	0	0.032	0.107	0	0	0.002
Rural Interstate	0.275	0.075	0.251	0.077	0.034	0.065	0	0	0	0	0	0.050	0.165	0	0	0.008
Urban Arterials	0.359	0.100	0.332	0.102	0.046	0.013	0	0	0	0	0	0.010	0.035	0	0	0.003
Rural Arterials	0.360	0.100	0.332	0.;102	0.046	0.013	0	0	0	0	0	0.010	0.032	0	0	0.005
Urban Local	0.376	0.105	0.348	0.107	0.048	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.370	0.102	0.341	0.105	0.047	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002
2016																
Urban Interstate	0.288	0.091	0.303	0.093	0.042	0.042	0	0	0	0	0	0.032	0.107	0	0	0.002
Rural Interstate	0.253	0.079	0.264	0.081	0.036	0.064	0	0	0	0	0	0.050	0.165	0	0	0.008
Urban Arterials	0.331	0.105	0.348	0.107	0.048	0.013	0	0	0	0	0	0.010	0.035	0	0	0.003
Rural Arterials	0.331	0.105	0.349	0.107	0.048	0.013	0	0	0	0	0	0.010	0.032	0	0	0.005
Urban Local	0.347	0.110	0.365	0.112	0.050	0.003	0	0	0	0	0	0.003	0.008	0	0	0.002
Rural Local	0.341	0.107	0.358	0.110	0.049	0.008	0	0	0	0	0	0.006	0.019	0	0	0.002

Table J-7.- Example Speed Input File for Davidson County

```
SPEED VMT
1 1  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 2  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 3  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 4  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 5  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 6  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 7  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 8  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 9  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 10 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 11 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 12 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 13 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 14 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 15 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 17 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 18 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 19 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 20 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 21 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 22 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 23 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
1 24 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0000
2 1  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 2  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 3  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 4  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 5  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 6  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 7  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 8  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 9  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 10 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 11 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
```

```
2 12 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 13 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 14 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 15 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 17 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 18 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 19 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 20 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 21 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 22 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 23 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
2 24 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7800 0.2200 0.0000 0.0000 0.0000 0.0000
*
* Comments are not allowed before the end of the data!
*
* Fraction of vehicle miles traveled within an hour within an average speed bins by hour of the day.
* The first hour is 6 a.m.
*
* Freeways
* Hr  2.5   5.0  10.0  15.0  20.0  25.0  30.0  35.0  40.0  45.0  50.0  55.0  60.0  65.0+
*
* Arterial and Collector Roadways
* Hr  2.5   5.0  10.0  15.0  20.0  25.0  30.0  35.0  40.0  45.0  50.0  55.0  60.0  65.0+
```

Table J-8.- IM Program Input Files for Davidson County

This is the Davidson County IM Program input file prior to the HDGV2b weight class being added on April 1, 2005.

```
* 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. So 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
```

This is the Davidson County IM Program input file after the addition HDGV2b weight class added on April 1, 2005.

```
* New IM program with additional vehicle HDGV2b added to the program from 4/1/05
* 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. So this will avoid double-counting of
* IM effects.

* THESE PROGRAMS APPLY FOR ANALYSIS YEARS 2002 through 2030


* IDLE IM program for HDGV2b vehicle from 4/1/2005

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 30.0
I/M COMPLIANCE       : 2 98.0
I/M WAIVER RATES     : 2 0.0 0.0
I/M EXEMPTION AGE    : 2 25
I/M GRACE PERIOD     : 2 1
```

```
* Exhaust OBD IM program forHDGV2b yrs 2005-2030

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 30.0
I/M COMPLIANCE       : 4 98.0
I/M WAIVER RATES     : 4 0.0 0.0


* EVAP OBD and GC IM program for model years till 2030 for HDGV2b

I/M PROGRAM          : 6 2005 2030 1 T/O EVAP OBD & GC
I/M MODEL YEARS      : 6 1996 2030
I/M VEHICLES         : 6 11111 21111111 1
I/M STRINGENCY       : 6 30.0
I/M COMPLIANCE       : 6 98.0
I/M WAIVER RATES     : 6 0.0 0.0
```

Table J-9.- IM Program Input Files for Rutherford, Sumner, Williamson and Wilson County

This is the Rutherford, Sumner, Williamson and Wilson County IM Program input file prior to the HDGV2b weight class being added on April 1, 2005.

```
* 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. So 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
```

This is the Rutherford, Sumner, Williamson and Wilson County IM Program input file after the addition of the HDGV2b weight class added on April 1, 2005.

```
* Modified IM file adding HDGV2b to the IM program
* 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. So this will avoid double-counting of
* IM effects.

* THESE PROGRAMS APPLY FOR ANALYSIS YEARS 2002 through 2030
* For HDGV2b from 4/1/2005

* IDLE IM program for model years till 1995 and for HDGV2b vehicle

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 30.0
I/M COMPLIANCE       : 2 95.0
```

```
I/M WAIVER RATES    : 2 5.0 5.0
I/M EXEMPTION AGE   : 2 25
I/M GRACE PERIOD    : 2 1

* Exhaust OBD IM program for HDGV2b model yrs 2005-2030

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 30.0
I/M COMPLIANCE      : 4 95.0
I/M WAIVER RATES    : 4 5.0 5.0


* EVAP OBD and GC IM program for model years till 2030 for HDGV2b

I/M PROGRAM         : 6 2005 2030 1 T/O EVAP OBD & GC
I/M MODEL YEARS     : 6 1996 2030
I/M VEHICLES        : 6 11111 21111111 1
I/M STRINGENCY      : 6 30.0
I/M COMPLIANCE      : 6 95.0
I/M WAIVER RATES    : 6 5.0 5.0
```

Appendix K

Example Input File to MOBILE6.2.03 for Davidson County for 2006

```
MOBILE6 INPUT FILE :

* Special file run for Middle Tennessee counties: Davidson, Rutherford,
Sumner, Wilson and Williamson only
* Used June Temperatures and Relative Humidity

RUN DATA

EXPRESS HC AS VOC   :
EXPAND EXHAUST      :
EXPAND EVAPORATIVE  :
NO REFUELING        :
MIN/MAX TEMPERATURE: 64.7 86.5
ABSOLUTE HUMIDITY   : 94.012
REG DIST            : c:\projects\atmos\tnm6n\RDavreg.d
SPEED VMT           : c:\projects\atmos\tnm6n\RDav.spd
VMT BY FACILITY     : c:\projects\atmos\tnm6n\Art-only.vmt
VMT FRACTIONS       :
0.442  0.081  0.268  0.083  0.037  0.019  0.000  0.000
0.000  0.000  0.000  0.015  0.050  0.000  0.000  0.005
FUEL RVP            : 7.8
ANTI-TAMP PROG      : 95 75 30 22222 11111111 1 11 098 12211112
I/M DESC FILE       : c:\projects\atmos\tnm6n\DIM02-30.d

SCENARIO REC        : Scenario Title Text - Arterial RURAL DAVIDSON CO
CALENDAR YEAR       : 2006
EVALUATION MONTH    : 7

END OF RUN

EXPRESS HC AS VOC   :
EXPAND EXHAUST      :
EXPAND EVAPORATIVE  :
NO REFUELING        :
MIN/MAX TEMPERATURE: 64.7 86.5
ABSOLUTE HUMIDITY   : 94.012
REG DIST            : c:\projects\atmos\tnm6n\RDavreg.d
SPEED VMT           : c:\projects\atmos\tnm6n\RDav.spd
VMT BY FACILITY     : c:\projects\atmos\tnm6n\F-only.vmt
VMT FRACTIONS       :
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000
FUEL RVP            : 7.8
ANTI-TAMP PROG      : 95 75 30 22222 11111111 1 11 098 12211112
I/M DESC FILE       : c:\projects\atmos\tnm6n\DIM02-30.d

SCENARIO REC        : Scenario Title Text - Freeway RURAL DAVIDSON CO
CALENDAR YEAR       : 2006
EVALUATION MONTH    : 7

END OF RUN

EXPRESS HC AS VOC   :
EXPAND EXHAUST      :
EXPAND EVAPORATIVE  :
NO REFUELING        :
MIN/MAX TEMPERATURE: 64.7 86.5
```

```
ABSOLUTE HUMIDITY  : 94.012
REG DIST           : c:\projects\atmos\tnm6n\RDavreg.d
VMT BY FACILITY    : c:\projects\atmos\tnm6n\R-only.vmt
VMT FRACTIONS      :
0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000
FUEL RVP           : 7.8
ANTI-TAMP PROG     : 95 75 30 22222 11111111 1 11 098 12211112
I/M DESC FILE      : c:\projects\atmos\tnm6n\DIM02-30.d

SCENARIO REC       : Scenario Title Text - Ramp RURAL DAVIDSON CO
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7

END OF RUN

EXPRESS HC AS VOC  :
EXPAND EXHAUST     :
EXPAND EVAPORATIVE :
NO REFUELING       :
MIN/MAX TEMPERATURE: 64.7 86.5
ABSOLUTE HUMIDITY  : 94.012
REG DIST           : c:\projects\atmos\tnm6n\RDavreg.d
VMT BY FACILITY    : c:\projects\atmos\tnm6n\L-only.vmt
VMT FRACTIONS      :
0.470  0.085  0.284  0.087  0.039  0.008  0.000  0.000
0.000  0.000  0.000  0.006  0.019  0.000  0.000  0.002
FUEL RVP           : 7.8
ANTI-TAMP PROG     : 95 75 30 22222 11111111 1 11 098 12211112
I/M DESC FILE      : c:\projects\atmos\tnm6n\DIM02-30.d

SCENARIO REC       : Scenario Title Text - Local RURAL DAVIDSON CO
CALENDAR YEAR      : 2006
EVALUATION MONTH   : 7

END OF RUN
```

Appendix L

Example Output File from MOBILE6.2.03 for Davidson County for 2006

```
*****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                                *
* Input file: C:\ARA\ATMOS\RIDAV06.IN (file 2, run 1).                      *
*****************************************************************************
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\RDAVREG.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\RDAV.SPD

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\ART-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.
* Reading I/M program description records from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\DIM02-30.D

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Scenario Title Text - Arterial RURAL DAVIDSON CO
* File 2, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*** 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:	94. 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:	0.4415	0.3490	0.1183		0.0145	0.0005	0.0018	0.0695	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.687	0.689	0.779	0.712	0.732	0.350	0.490	0.441	1.82	0.687
Composite CO :	7.41	8.87	10.23	9.22	7.84	1.061	0.790	2.444	9.93	7.912
Composite NOX :	0.589	0.752	1.034	0.824	3.612	0.821	0.967	10.379	1.12	1.426
Exhaust emissions (g/mi):										
VOC Start:	0.159	0.192	0.231	0.202		0.164	0.185		0.397	
VOC Running:	0.129	0.155	0.214	0.170		0.185	0.306		0.882	
VOC Total Exhaust:	0.288	0.347	0.445	0.372	0.254	0.350	0.490	0.441	1.28	0.343
CO Start:	2.24	3.42	3.71	3.49		0.571	0.379		3.277	
CO Running:	5.17	5.46	6.51	5.72		0.490	0.410		6.651	
CO Total Exhaust:	7.41	8.87	10.23	9.22	7.84	1.061	0.790	2.444	9.93	7.912
NOx Start:	0.103	0.147	0.174	0.154		0.047	0.038		0.355	
NOx Running:	0.486	0.605	0.860	0.670		0.774	0.929		0.762	
NOx Total Exhaust:	0.589	0.752	1.034	0.824	3.612	0.821	0.967	10.379	1.12	1.426
Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.154	0.130	0.122	0.128	0.160	0.000	0.000	0.000	0.180	0.131

```
      Diurnal Loss:     0.022     0.019     0.019     0.019     0.033     0.000     0.000     0.000     0.008     0.019
      Resting Loss:     0.091     0.081     0.077     0.080     0.135     0.000     0.000     0.000     0.351     0.082
      Running Loss:     0.123     0.101     0.105     0.102     0.140     0.000     0.000     0.000     0.000     0.104
    Crankcase Loss:     0.008     0.010     0.010     0.010     0.010     0.000     0.000     0.000     0.000     0.008
    Refueling Loss:     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
  Total Non-Exhaust:    0.398     0.342     0.334     0.340     0.478     0.000     0.000     0.000     0.539     0.344
  ----------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: C:\ARA\ATMOS\RIDAV06.IN (file 2, run 2).                  *
*************************************************************************
  M603 Comment:
             User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\RDAVREG.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\RDAV.SPD

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\F-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
             User supplied VMT mix.

* Reading I/M program description records from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\DIM02-30.D
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Scenario Title Text - Freeway RURAL DAVIDSON CO
* File 2, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # #
*** 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:   94. grains/lb
          Nominal Fuel RVP:   7.8 psi
             Weathered RVP:   7.6 psi
       Fuel Sulfur Content:  300. ppm

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

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.35	2.354
Composite CO :	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	23.13	23.131
Composite NOX :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.59	1.590
Exhaust emissions (g/mi):										
VOC Start:	0.000	0.000	0.000	0.000		0.000	0.000		0.397	
VOC Running:	0.000	0.000	0.000	0.000		0.000	0.000		1.419	
VOC Total Exhaust:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.82	1.815
CO Start:	0.00	0.00	0.00	3.49		0.000	0.000		3.277	
CO Running:	0.00	0.00	0.00	5.72		0.000	0.000		19.855	

```
  CO Total Exhaust:      0.00      0.00      0.00      0.00      0.00     0.000     0.000     0.000     23.13    23.131

         NOx Start:     0.000     0.000     0.000     0.154               0.000     0.000               0.355
       NOx Running:     0.000     0.000     0.000     0.670               0.000     0.000               1.235
  NOx Total Exhaust:    0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000      1.59     1.590
  ---------------------------------------------------------------------------------------------------------------------
Non-Exhaust Emissions (g/mi):
      Hot Soak Loss:    0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.180     0.180
       Diurnal Loss:    0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.008     0.008
       Resting Loss:    0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.351     0.351
       Running Loss:    0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
     Crankcase Loss:    0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
     Refueling Loss:    0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
  Total Non-Exhaust:    0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.539     0.539
  ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: C:\ARA\ATMOS\RIDAV06.IN (file 2, run 3).                  *
*************************************************************************
  M603 Comment:
              User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\RDAVREG.D
  M 49 Warning:
                1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00      MYR sum not = 1. (will normalize)

* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\R-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
```

User supplied VMT mix.

```
* Reading I/M program description records from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\DIM02-30.D

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Scenario Title Text - Ramp RURAL DAVIDSON CO
* File 2, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
*** 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:   94. grains/lb
                 Nominal Fuel RVP:   7.8 psi
                    Weathered RVP:   7.6 psi
              Fuel Sulfur Content:  300. ppm

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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	1.0000	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.92	1.917
Composite CO :	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	11.21	11.207
Composite NOX :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.08	1.084
Exhaust emissions (g/mi):										
VOC Start:	0.000	0.000	0.000	0.000		0.000	0.000		0.397	

```
     VOC   Running:     0.000     0.000     0.000     0.000               0.000     0.000               0.981
 VOC Total Exhaust:     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     1.38      1.377

          CO Start:      0.00      0.00      0.00      3.49               0.000     0.000               3.277
        CO Running:      0.00      0.00      0.00      5.72               0.000     0.000               7.931
  CO Total Exhaust:      0.00      0.00      0.00      0.00      0.00     0.000     0.000     0.000    11.21     11.207

         NOx Start:     0.000     0.000     0.000     0.154              0.000     0.000               0.355
       NOx Running:     0.000     0.000     0.000     0.670              0.000     0.000               0.729
 NOx Total Exhaust:     0.000     0.000     0.000     0.000     0.000    0.000     0.000     0.000     1.08      1.084
 ---------------------------------------------------------------------------------------------------------------------
Non-Exhaust Emissions (g/mi):
     Hot Soak Loss:     0.000     0.000     0.000     0.000     0.000    0.000     0.000     0.000     0.180     0.180
      Diurnal Loss:     0.000     0.000     0.000     0.000     0.000    0.000     0.000     0.000     0.008     0.008
      Resting Loss:     0.000     0.000     0.000     0.000     0.000    0.000     0.000     0.000     0.351     0.351
      Running Loss:     0.000     0.000     0.000     0.000     0.000    0.000     0.000     0.000     0.000     0.000
    Crankcase Loss:     0.000     0.000     0.000     0.000     0.000    0.000     0.000     0.000     0.000     0.000
    Refueling Loss:     0.000     0.000     0.000     0.000     0.000    0.000     0.000     0.000     0.000     0.000
 Total Non-Exhaust:     0.000     0.000     0.000     0.000     0.000    0.000     0.000     0.000     0.539     0.539
 ---------------------------------------------------------------------------------------------------------------------
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: C:\ARA\ATMOS\RIDAV06.IN (file 2, run 4).                  *
*************************************************************************
 M603 Comment:
            User has disabled the calculation of REFUELING emissions.


* Reading Registration Distributions from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\RDAVREG.D
 M 49 Warning:
              1.00     MYR sum not = 1. (will normalize)
 M 49 Warning:
              1.00     MYR sum not = 1. (will normalize)
 M 49 Warning:
              1.00     MYR sum not = 1. (will normalize)
 M 49 Warning:
              1.00     MYR sum not = 1. (will normalize)
 M 49 Warning:
              1.00     MYR sum not = 1. (will normalize)
```

```
* Reading Hourly Roadway VMT distribution from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\L-ONLY.VMT

  Reading User Supplied ROADWAY VMT Factors
  M615 Comment:
              User supplied VMT mix.

* Reading I/M program description records from the following external
* data file: C:\PROJECTS\ATMOS\TNM6N\DIM02-30.D

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Scenario Title Text - Local RURAL DAVIDSON CO
* File 2, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*** 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:   94. 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:	0.4695	0.3689	0.1242		0.0061	0.0005	0.0019	0.0269	0.0020	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.079	1.072	1.226	1.111	1.926	0.611	0.921	1.056	2.97	1.102

Composite CO :	5.67	7.54	8.74	7.84	23.17	2.030	1.603	7.237	25.96	6.919
Composite NOX :	0.592	0.727	1.009	0.798	2.856	1.060	1.254	11.867	0.87	1.013
Exhaust emissions (g/mi):										
VOC Start:	0.159	0.192	0.231	0.202		0.164	0.185		0.397	
VOC Running:	0.206	0.265	0.379	0.294		0.446	0.736		2.039	
VOC Total Exhaust:	0.365	0.457	0.610	0.496	1.099	0.611	0.921	1.056	2.44	0.458
CO Start:	2.24	3.42	3.71	3.49		0.571	0.380		3.277	
CO Running:	3.43	4.12	5.03	4.35		1.460	1.223		22.679	
CO Total Exhaust:	5.67	7.54	8.74	7.84	23.17	2.030	1.603	7.237	25.96	6.919
NOx Start:	0.103	0.147	0.174	0.154		0.047	0.038		0.355	
NOx Running:	0.489	0.580	0.835	0.644		1.013	1.216		0.515	
NOx Total Exhaust:	0.592	0.727	1.009	0.798	2.856	1.060	1.254	11.867	0.87	1.013
Non-Exhaust Emissions (g/mi):										
Hot Soak Loss:	0.154	0.130	0.122	0.128	0.160	0.000	0.000	0.000	0.180	0.137
Diurnal Loss:	0.022	0.019	0.019	0.019	0.033	0.000	0.000	0.000	0.008	0.020
Resting Loss:	0.091	0.081	0.077	0.080	0.135	0.000	0.000	0.000	0.351	0.084
Running Loss:	0.438	0.374	0.388	0.377	0.488	0.000	0.000	0.000	0.000	0.395
Crankcase Loss:	0.008	0.010	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.009
Refueling Loss:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Non-Exhaust:	0.713	0.615	0.616	0.615	0.826	0.000	0.000	0.000	0.539	0.644

Report Prepared

By

Fred Huggins

Metro Nashville Public Health Department

Pollution Control Division

July, 2005

TENNESSEE AIR POLLUTION CONTROL BOARD ORDER NO. 05-007 DATED AUGUST 10, 2005, INCORPORATING THE PLAN UPDATE INTO THE STATE IMPLEMENTATION PLAN

TENNESSEE DEPARTMENT OF ENVIRONMENT & CONSERVATION
BUREAU OF ENVIRONMENT
DIVISION OF AIR POLLUTION CONTROL

IN THE MATTER OF

PROPOSED AMENDMENT TO THE	)	
MIDDLE TENNESSEE PORTION OF	)	
THE STATE IMPLEMENTATION PLAN	)	ORDER NO.05-007
TO INCORPORATE NON – REGULATORY	)	
REVISIONS TO THE MIDDLE TENNESSEE	)	
1-HOUR OZONE MAINTENANCE PLAN	)	

BOARD ORDER

The following matter came before the Tennessee Air Pollution Control Board on August 10, 2005.

In October 30, 1996 (61 FR 55903), the Middle Tennessee area (Davidson, Rutherford, Sumner, Williamson and Wilson counties) was redesignated from moderate nonattainment to attainment of the 1-hour ozone primary National Ambient Air Quality Standard (NAAQS). Along with the redesignation, the EPA approved a revision to the State Implementation Plan (SIP) for the Middle Tennessee area providing for the maintenance of the 1-hour ozone primary NAAQS for at least ten years after the redesignation, that is, through the year 2006 (the original maintenance plan). Section 175A of the Federal Clean Air Act required the submittal of the original maintenance plan along with the redesignation request.

Section 175A of the Federal Clean Air Act also requires the submittal to EPA of an additional revision to the SIP for the Middle Tennessee area for maintaining the 1-hour ozone primary NAAQS for ten years after the expiration of the 10 year period referred to in the previous paragraph, that is, through the year 2016 (the maintenance plan update).

The Middle Tennessee 1-Hour Ozone Maintenance Plan Update has been jointly prepared by the Pollution Control Division of the Metro Public Health Department of Nashville/Davidson County, the Nashville Area Metropolitan Planning Organization, and the Division of Air Pollution Control of the Tennessee Department of Environment and Conservation, with assistance from the EPA. This document is the maintenance plan update prepared to comply with the requirement described in the preceding paragraph, and has been prepared in accordance with EPA's current guidance on maintenance plans.

A Legal Notice of Public Hearing for a draft of the maintenance plan update, was published in the June 10, 2005, issue of The Tennessean, soliciting comments and providing an opportunity for public participation.

Attachment I of this Board Order includes the Middle Tennessee 1-Hour Ozone Maintenance Plan Update, and a copy of the Legal Notice of Public Hearing.

The Public Hearing was conducted on July 11, 2005. No oral comments were received at the Public Hearing. Only one commenter provided written comments. Attachment II of this Board Order includes the written comments received, and a Response to Comments document with comments received and responses.

Upon the Tennessee Air Pollution Control Board's approval, the Middle Tennessee area portion of the State Implementation Plan shall therefore be amended, and the non-regulatory revisions and adoptions identified in the Middle Tennessee 1-Hour Ozone Maintenance Plan Update included in Attachment I incorporated.

Approved by the following members of the Air Pollution Control Board of the State of Tennessee, and entered on this 10th day of August 2005.

Robert M Hall	Greer Tidwell Jr.
	Sharon Goldsworthy
	Mary English
Stephen R Gossett	Clay Ogden
Richard A. Bolton	Wilton Burnett, Jr
Tracy R Carter	
Ron Pry	

LEGAL NOTICE OF PUBLIC HEARING FOR THE PLAN UPDATE, PUBLISHED IN THE JUNE 10, 2005, EDITION OF THE TENNESSEAN

The Tennessean
Friday, June 10, 2005
Page 2S

...days after the earlier of (1) the execution of process or (2) the completed publication of this notice.

Any person who asserts a right of possession or any ownership interest must file an answer within twenty (20) days after filing the statement of interest or right pursuant to this notice.

RESPECTFULLY SUBMITTED, this the 11 day of May 2005.
GAULT, MARSHALL & MILLER, PLLC
Carl J. Marshall
P.O. Box 30
Paducah, KY 42002-0830
(270) 442-1900
(270) 442-8247 (fax)
and
STELTEMEIER & WESTBROOK

Continued in next column

...1113700, and its appurtenances in the above cause, civil and maritime, for default of a Preferred Ship Mortgage of $79,517.23 plus interest, attorneys' fees and costs. Any person who asserts a right of possession or any ownership interest in the property that is the subject of the...

Continued in next column

...The submission deadline for qualifications is July 19, 2005, at 3:00 pm CDT. Proposals should be delivered to Gary Follis at the above address.

A pre-submission conference will be held on June 21, 2005, at 10:00 am CDT (11:00 EDT) in the library at the existing Oak Ridge High School, located at 127 Providence Road in Oak Ridge Tennessee.

(615) 297-4883 (fax)
Attorneys for Plaintiff

stuff

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LEGAL NOTICE
OF PUBLIC HEARING
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL

There will be a public hearing before the Technical Secretary of the Tennessee Air Pollution Control Board to consider the promulgation of a non-regulatory amendment to the Tennessee State Implementation Plan (SIP) pursuant to Tennessee Code Annotated, Section 68-201-105. The comments received at this hearing will be presented to the Tennessee Air Pollution Control Board for their consideration in regards to the proposed non-regulatory amendment. The hearing will be conducted in the manner prescribed by the Uniform Administrative Procedures Act, Tennessee Code Annotated, Section 4-5-201 et seq., and will take place in the 9th Floor Conference Room [illegible] Nashville, Tennessee 37243-1531 at 9:30 a.m. on the 11th [illegible] will be included in the hearing records if received by the close of business [illegible] Tennessee Air Pollution Control Board, 9th Floor, L & C [illegible] Any individuals with disabilities who wish to participate [illegible] Department of Environment and [illegible] no less than ten (10) days prior to [illegible] to allow time to provide such aid or service. [illegible] Environment and Conservation ADA Coordinator, 12th Floor, 401 Church Street, Nashville, TN 37243, [illegible] Hearing impaired callers may use the Tennessee Relay Service [illegible] the origination of this rule change, you may contact Mr. Herman Flores at [illegible] of the text of the notice, please contact Mr. Malcolm Butler, Department of [illegible] Floor, L & C Tower, 401 Church Street, Nashville, TN 37243, [illegible] Air Quality in the Middle Tennessee (Davidson, Rutherford, Sumner, Williamson and Wilson counties) [illegible] Maintenance Plan will be presented as a non-regulatory amendment to the (Davidson, Rutherford, Sumner, Williamson and Wilson counties) portion of the Tennessee State Implementation Plan. Revisions considered at this hearing may be adopted by the Tennessee Air Pollution Control Board under T.C.A. 68-201-105, the Board general authority to promulgate rules. Materials concerning the proposed additions and/or revisions will be available for public inspection during normal working hours starting on June 10, 2005, at the following locations: Air Pollution Control Division, 9th Floor, L & C Annex, 401 Church Street, Nashville, TN 37243. Pollution Control Division, Metropolitan Health Department, 311 23rd Ave. North, Nashville, TN 37203, c/o Fred Huggins. Air Pollution Control Division, Nashville Field Office, 711 R. S. Gass Boulevard, Nashville, TN 37243, c/o Mark Brown, APC Manager. U.S. EPA, Region IV, Air Planning Branch, Atlanta Federal Center, 61 Forsyth Street S.W., Atlanta, Georgia 30303, c/o Ms. Kay T. Prince, Chief. All persons interested in the air quality of the State of Tennessee are urged to attend and will be afforded the opportunity to present testimony to the hearing officer regarding the proposed revision to the State Implementation Plan. Any person desiring to present lengthy comments should be prepared at the hearing to offer a written statement to be incorporated into the record. Written statements not presented at the hearings will only be considered part of the records if received by 4:30 p.m on July 11, 2005, at the office of the Technical Secretary, Tennessee Air Pollution Control Board, 9th Floor L & C Annex, 401 Church Street, Nashville, Tennessee, 37243-1531.

NOTIFICATION OF INTENT TO APPLY FOR A CERTIFICATE OF NEED

This is to provide official notice to the Health Services and Development Agency and all interested parties, in accordance with T.C.A. 68-11-1601 et seq., and the Rules of the Health Services and Development Agency, that:

Maxim Healthcare Services, a Healthcare Staffing Agency owned by Maxim Healthcare Services, Inc. with an ownership type of Corporation (For Profit) and to be managed by Maxim Healthcare Services, Inc. intends to file an application for a Certificate of Need to provide non-Medicare [illegible] in the counties of Cheatham, Davidson, [illegible] Robertson, Rutherford, Sumner, Williamson & Wilson. The proposed capital expenditure costs of the project will not exceed $304,777. The anticipated date of filing the application is April 15th, 2005. The contact person for this project is Jonathan Barnes, Accounts Manager, who may be reached at Maxim Healthcare Services, 2416 Hillsboro Road, Suite 208, Nashville, TN 37212 and (615) 383-4272. Upon written request by interested parties, a local fact-finding public hearing shall be conducted. Written requests for hearing should be sent to:

Health Services and Development Agency
Andrew Jackson Building
500 Deaderick Street, Suite 850
Nashville, TN 37243

Pursuant to T.C.A. 68-11-1607(c), (A) any health care institution wishing to oppose a Certificate of Need application must file a written notice with the Health Services and Development Agency no later than fifteen (15) days before the regularly scheduled Health Services and Development Agency meeting at which the application is originally scheduled; and (B) Any other person wishing to oppose the application must file written objection with the Health Services and Development Agency at or prior to the consideration of the application by the Agency.

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buzz
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PUBLIC HEARING DOCUMENTATION FOR THE JULY 11, 2005 HEARING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

JUL 1 1 2005

RECEIVED
JUL 15 2005

4APT-APB

Barry Stephens, P.E., Director
Division of Air Pollution Control
Tennessee Department of Environment
and Conservation
9th Floor, L & C Annex
401 Church Street
Nashville, Tennessee 37243-1531

Dear Mr. Stephens:

Thank you for the opportunity to review the proposed State Implementation Plan (SIP) revision dated June 7, 2005, which is the subject of a public hearing on July 11, 2005. The package requests approval for the update for the Middle Tennessee 1-hour ozone maintenance area, and was submitted by the Tennessee Department of Environment and Conservation on the behalf of the Metro Nashville's Air Pollution Control Division. This plan update is a requirement of Section 175A(b) of the Clean Air Act.

We have completed our review of the draft submittal and compiled the following comments. In conversations with you and your staff on July 7, 2005, we clarified and resolved the following:

- A commitment to support continued monitoring, throughout the maintenance period, for the 1-hour standard is required. Please provide a statement in the submittal to commit to this.
- A verification of continued attainment section needs to be developed.
- A copy of the actual article that was published in the Tennessean - Nashville newspaper needs to be submitted to show that a public hearing was provided to the public for the maintenance request review.
- Please provide more discussion on how the area and nonroad mobile source emissions were developed for the maintenance area. Simply referencing the "VISTAS group" or "VISTAS 2002" database is not sufficient and does not provide this discussion. If a VISTAS report or memorandum exists that discusses the procedures used to develop these emissions for the Middle Tennessee maintenance area, it should be referenced and submitted in an appendix in the maintenance SIP documentation.

- Please consider providing a list of the specific point and area sources, if applicable, to correspond to the source categories in the tables including in Appendix C.

We look forward to continuing to work with you and your staff. If you have any questions, please contact AnneMarie Hoffman at (404) 562-9074.

Sincerely,

Kay T. Prince

Kay T. Prince
Chief
Air Planning Branch

cc: Rob Raney, Metro Nashville APCD
Hernan Flores, TDEC
Fred Huggins, Metro Nashville APCD

Public Hearing

July 11, 2005 **(Monday)**

Sign In Please

Name	--------	Company
1. Fred Huggins		Metro APC
2. Hernan Flores		TDEC - DAPC
3.		
4.		
5.		
6.		
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11.		

RESPONSE TO COMMENTS DOCUMENT

RESPONSE TO COMMENTS

ON THE

MIDDLE TENNESSEE
1-HOUR OZONE MAINTENANCE PLAN UPDATE
FOR THE COUNTIES OF
DAVIDSON, RUTHERFORD, SUMNER, WILLIAMSON AND WILSON

The legal notice of public hearing is attached and made a part of the final plan. The Environmental Protection Agency, Region IV provided the only comments on the plan update. Five formal comments were received, and the response to each of the comments follows.

Comment 1. A commitment to support continued monitoring, throughout the maintenance period, for the 1-hour standard is required. Please provide a statement in the submittal to commit to this.
Response: A statement was added to Section 2.0 committing the Metro Nashville Public Health Department, Pollution Control Division (local program) and the Tennessee Department of Environment and Conservation, Air Pollution Control Division (state program) to continuing to monitor ozone in the five-county area throughout the maintenance period.

Comment 2. A verification of continued attainment section needs to be developed.
Response: A discussion was added to Section 5.0, Contingency Measures, to specify how a verification of continued attainment would be conducted, as well as triggering mechanisms to be used to determine the application of contingency measures. Emission inventory and air quality data will be used as triggers. If emission inventory or air quality data indicates a need to consider the implementation of a contingency measure, there is a specific timetable for selection and implementation.

Comment 3. A copy of the actual article that was published in the Tennessean-Nashville newspaper needs to be submitted to show that a public hearing was provided to the public for the maintenance request review.
Response: On June 10, 2005 the legal notice of public hearing was published in *The Tennessean* newspaper. The 30-day comment period expired on July 11, 2005. A public hearing was held at the Tennessee Department of Environment and Conservation, Air Pollution Control Division office on July 11, 2005. The legal notice of public hearing has been made a part of the final plan.

Comment 4. Please provide more discussion on how the area and nonroad mobile source emissions were developed for the maintenance area. Simply referencing the "VISTAS group" or "VISTAS 2002" database is not sufficient and does not provide this discussion. If a VISTAS report or memorandum exists that

discusses the procedures used to develop these emissions for the Middle Tennessee, maintenance area, it should be referenced and submitted in an appendix in the maintenance SIP documentation.
Response: The VISTAS report outlining their emission inventory preparation procedures has been included as Appendix D. Appendix E contains a listing of area source emissions by source classification code.

Comment 5. Please consider providing a list of the specific point and area sources, if applicable, to correspond to the source categories in the table including Appendix C.
Response: Appendix C referenced in Comment 5 is Appendix H in the final document. Appendices B and E have been added that shows point and area source emissions by source classification code.